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# **Parametric Technology Corporation**

**Pro/ENGINEER®**

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**TOOLING LIBRARY™**  
**Catalog**

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# PREFACE

Pro/ENGINEER® User Guides describe Pro/ENGINEER functionality and how to use it. They have common structure and style conventions, described below.

The manuals are designed with two purposes in mind:

- To help you learn quickly to use Pro/ENGINEER productively.
- To describe the more advanced uses of the system.

You should be familiar with your workstation, and have some knowledge of your operating system.

## Pro/ENGINEER DOCUMENTATION

Documentation is divided into several manuals that compose a comprehensive guide to Pro/ENGINEER. Each manual deals with a major function of the software; you can usually determine which manual you need by reading the title. If not, each book has a corresponding index, and there is also a *Master Indices* manual that indexes the entire Pro/ENGINEER documentation family. (For a complete list of Pro/ENGINEER user guides, see Chapter 1 of the *Fundamentals* manual.)

## USING THESE MANUALS

To find information in the manuals quickly, become familiar with the aids provided:

Table of Contents	Located at the beginning of each manual with all chapter titles and section headings. Use the Table of Contents to familiarize yourself with the layout of each manual.
Labels	Interspersed along the left side of pages. Scan the page quickly to locate information within a general section of the guide.
Bleeding Tabs	On the right side of each page, with chapter titles and numbers, these help you locate a particular chapter of the manual quickly.
Indices	Contain Pro/ENGINEER commands and keywords. Provided for every manual.
Master Indices	Refers to commands and keywords, showing the manual and page number where the item is located.

## CONVENTIONS

To clarify the discussion of various topics, the following conventions have been employed throughout all manuals:

UPPERCASE	Menu name (for example, PART).
<b>Boldface</b>	Menu option (for example, <b>compile_font</b> ), or utility (for example, <b>promonitor</b> ).
[Bolt]	Information you enter from the keyboard appears [between two brackets in courier font like this]. Type everything between the square brackets exactly as shown.
<CR>	Name of a keyboard key or user-defined (variable) text (for example, "<loadpoint>\obj").
<i>Reference</i>	References other sections of the document and text (for example, a user-defined command), and appears <i>in italics like this</i> .
<b>Emphasis</b>	Important notes appear <b><i>in bold italics like this</i></b> .
"directory"	Special terms, directory names, file names, full path names and parameter names are enclosed in quotation marks. Special terms are enclosed in quotation marks the first time they are used in a section. If a portion of a directory name is user-defined, that portion is italicized (for example, "<loadpoint>\obj").

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### NOTES:

1. Important information that should not be overlooked appears in notes like this.
  2. All references to mouse clicks assume the use of a right-handed mouse.
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## COMMON TERMS

This section defines some terms that appear frequently in user guides. (For a full glossary of Pro/ENGINEER terms, see “Appendix B” of the *Fundamentals* manual.)

Choose	Choose a menu option by placing the arrow cursor on the option, and when it is highlighted, pressing the left mouse button.
Element	An Element describes redefinable characteristics of a feature in a model.
Mode	An environment in which Pro/ENGINEER allows you to perform a certain group of closely related functions (Drawing, for example).
Model	A part or an assembly.
Object	An assembly, part, drawing, format, layout, case study, sketch and so on.
option	An item in a menu or an entry in a configuration file or a setup file.
Option	Options describe non-redefinable characteristics of a feature, such as its form (extrude, revolve and so on) and whether the feature will be solid or thin.
Pick	Select an item on the screen by clicking the left mouse button.

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# ABOUT THE TOOLING LIBRARY

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The TOOLING Library is a collection of commonly used manufacturing tools, industry standard toolholders, and fixtures ready to use in your manufacturing operations. It contains the following:

- **Tools** - This is a collection of common tools (mills, taps, and drills) of sizes that correspond to ANSI standards. You can easily retrieve the tool parameters using the **Tool Library** command when you establish operation parameters. For operation parameter specification, the system retrieves only parameter data. However, the tools are defined completely with three-dimensional features, so they can be retrieved in Part and Assembly mode as well.
- **Toolholders** - This is a collection of industry standard toolholders. Toolholders accommodate tools (mills, taps, drills, and reamers) of different shank styles (straight, Morse Taper, or Weldon), which are available in Section I of this library. Toolholders can also accommodate tools that are created and stored by the user. Toolholders come in a variety of shank styles (straight shank, Caterpillar V-Flange, BT (JMBTA) Flange, Quick Change/NMTB, and Morse Taper) to interface with milling machines, drilling machines, or machining centers.
- **Fixtures** - This is a collection of commonly used manufacturing fixtures (clamps, holding plates, chucks and jaws, and so on) of generic sizes. You can retrieve the fixtures in Part, Assembly, and Manufacturing mode, and can assemble them in a variety of ways to support your workpiece.

## USING THIS CATALOG

This document contains illustrations that document all the TOOLING Library parts, and all the information necessary to find and use any part. It contains the following sections:

- SECTION I - This section is the catalog of tools. When you specify a tool to use for an operation, you must know the generic part name. Therefore, you should become familiar with locating the tools in this catalog.
- SECTION II - This section is the catalog of fixtures.
- SECTION III - This section is the catalog of toolholders.

At the beginning of this catalog is the Table of Contents that lists, by name and description, all the TOOLING Library tools, fixtures, and toolholders. Refer to this when searching for a particular item.

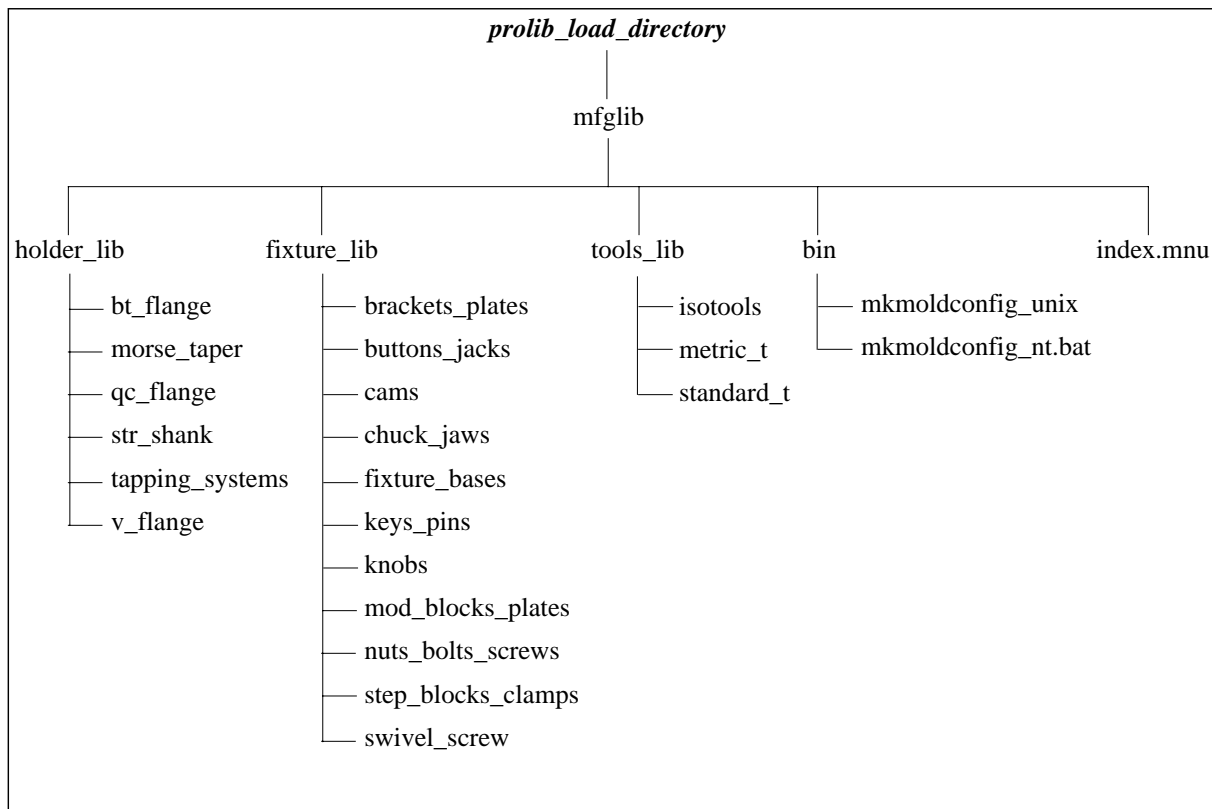
## THE TOOLING LIBRARY STRUCTURE

Figure 1-1 shows the TOOLING Library directory structure.

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## ABOUT THE TOOLING LIBRARY

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**Figure 1-1**  
TOOLING Library Directory Structure

## USING THE TOOLING LIBRARY

*For information on using the TOOLING Library, refer to the chapter “THE TOOLING LIBRARY” in the Introduction to the Libraries manual.*

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**SECTION I  
TOOL LIBRARY**

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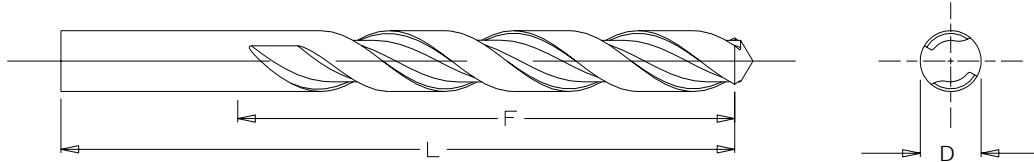
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# STANDARD TWIST DRILLS

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## STRAIGHT SHANK TWIST DRILL - JOBBERS LENGTH

### Fractional, Number, Letter, and Metric Sizes



### Generic Part Name: SSJL

#### Notes:

1. Corresponds to standard ANSI B94.11M-1979.
2. Enter values exactly as shown.
3. "\*" denotes a non-existent value.

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dis. No.	Drill Dis. Letter	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
SSJL10	0.0059	*	97	*	0.150	0.0625	1.500	0.7500	19.000
SSJL11	0.0063	*	96	*	0.160	0.0625	1.500	0.7500	19.000
SSJL12	0.0067	*	95	*	0.170	0.0625	1.500	0.7500	19.000
SSJL13	0.0071	*	94	*	0.180	0.0625	1.500	0.7500	19.000
SSJL14	0.0075	*	93	*	0.190	0.0625	1.500	0.7500	19.000
SSJL15	0.0079	*	92	*	0.200	0.0625	1.500	0.7500	19.000
SSJL16	0.0083	*	91	*	0.211	0.0781	2.000	0.7500	19.000
SSJL17	0.0087	*	90	*	0.221	0.0781	2.000	0.7500	19.000
SSJL18	0.0091	*	89	*	0.231	0.0781	2.000	0.7500	19.000
SSJL1900	0.0095	*	88	*	0.241	0.0781	2.000	0.7500	19.000
SSJL1911	0.0098	*	*	*	0.250	0.0781	2.000	0.7500	19.000
SSJL1901	0.0100	*	87	*	0.254	0.0781	2.000	0.7500	19.000
SSJL1902	0.0105	*	86	*	0.267	0.0938	2.500	0.7500	19.000
SSJL1903	0.0110	*	85	*	0.280	0.0938	2.500	0.7500	19.000
SSJL1904	0.0115	*	84	*	0.292	0.0938	2.500	0.7500	19.000
SSJL1905	0.0120	*	83	*	0.305	0.0938	2.500	0.7500	19.000
SSJL1906	0.0125	*	82	*	0.318	0.0938	2.500	0.7500	19.000
SSJL1907	0.0130	*	81	*	0.330	0.0938	2.500	0.7500	19.000

## STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dis. No.	Drill Dis. Letter	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
SSJL1908	0.0135	*	80	*	0.343	0.1250	3.000	0.7500	19.000
SSJL1909	0.0138	*	*	*	0.350	0.1250	3.000	0.7500	19.000
SSJL1910	0.0145	*	79	*	0.368	0.1250	3.000	0.7500	19.000
SSJL200	0.0150	*	*	*	0.380	0.1875	5.000	0.7500	19.000
SSJL201	0.0156	1/64	*	*	0.396	0.1875	5.000	0.7500	19.000
SSJL205	0.0157	*	*	*	0.400	0.1875	5.000	0.7500	19.000
SSJL202	0.0160	*	78	*	0.406	0.1875	5.000	0.8750	22.000
SSJL203	0.0165	*	*	*	0.420	0.1875	5.000	0.8750	22.000
SSJL204	0.0177	*	*	*	0.450	0.1875	5.000	0.8750	22.000
SSJL2060	0.0180	*	77	*	0.457	0.1875	5.000	0.8750	22.000
SSJL2061	0.0189	*	*	*	0.480	0.1875	5.000	0.8750	22.000
SSJL2070	0.0197	*	*	*	0.500	0.1875	5.000	0.8750	22.000
SSJL2062	0.0200	*	76	*	0.508	0.1875	5.000	0.8750	22.000
SSJL2063	0.0210	*	75	*	0.533	0.2500	6.000	1.0000	25.000
SSJL2064	0.0217	*	*	*	0.550	0.2500	6.000	1.0000	25.000
SSJL2065	0.0225	*	74	*	0.572	0.2500	6.000	1.0000	25.000
SSJL2071	0.0236	*	*	*	0.600	0.3125	8.000	1.1250	29.000
SSJL2066	0.0240	*	73	*	0.610	0.3125	8.000	1.1250	29.000
SSJL2067	0.0250	*	72	*	0.635	0.3125	8.000	1.1250	29.000
SSJL2072	0.0256	*	*	*	0.650	0.3750	10.000	1.2500	32.000
SSJL20680	0.0260	*	71	*	0.660	0.3750	10.000	1.2500	32.000
SSJL2069	0.0276	*	*	*	0.700	0.3750	10.000	1.2500	32.000
SSJL20682	0.0280	*	70	*	0.711	0.3750	10.000	1.2500	32.000
SSJL20681	0.0292	*	69	*	0.742	0.5000	13.000	1.3750	35.000
SSJL20683	0.0295	*	*	*	0.750	0.5000	13.000	1.3750	35.000
SSJL20685	0.0310	*	68	*	0.787	0.5000	13.000	1.3750	35.000
SSJL20684	0.0312	1/32	*	*	0.792	0.5000	13.000	1.3750	35.000
SSJL20688	0.0315	*	*	*	0.800	0.5000	13.000	1.3750	35.000
SSJL20686	0.0320	*	67	*	0.813	0.5000	13.000	1.3750	35.000
SSJL206870	0.0330	*	66	*	0.838	0.5000	13.000	1.3750	35.000
SSJL206871	0.0335	*	*	*	0.850	0.6250	16.000	1.5000	38.000
SSJL206872	0.0350	*	65	*	0.889	0.6250	16.000	1.5000	38.000
SSJL206881	0.0354	*	*	*	0.899	0.6250	16.000	1.5000	38.000
SSJL206873	0.0360	*	64	*	0.914	0.6250	16.000	1.5000	38.000
SSJL206874	0.0370	*	63	*	0.940	0.6250	16.000	1.5000	38.000
SSJL206879	0.0374	*	*	*	0.950	0.6520	16.000	1.5000	38.000
SSJL206875	0.0380	*	62	*	0.965	0.6250	16.000	1.5000	38.000
SSJL206876	0.0390	*	61	*	0.991	0.6875	17.000	1.6250	41.000

## STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dis. No.	Drill Dis. Letter	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
SSJL206880	0.0394	*	*	*	1.000	0.6875	17.000	1.6250	41.000
SSJL206877	0.0400	*	60	*	1.016	0.6875	17.000	1.6250	41.000
SSJL206878	0.0410	*	59	*	1.041	0.6875	17.000	1.6250	41.000
SSJL21	0.0413	*	*	*	1.050	0.6875	17.000	1.6250	41.000
SSJL211	0.0420	*	58	*	1.067	0.6875	17.000	1.6250	41.000
SSJL2120	0.0430	*	57	*	1.092	0.7500	19.000	1.7500	44.000
SSJL2121	0.0433	*	*	*	1.100	0.7500	19.000	1.7500	44.000
SSJL2122	0.0453	*	*	*	1.150	0.7500	19.000	1.7500	44.000
SSJL2123	0.0465	*	56	*	1.181	0.7500	19.000	1.7500	44.000
SSJL2124	0.0469	3/64	*	*	1.191	0.7500	19.000	1.7500	44.000
SSJL21300	0.0472	*	*	*	1.200	0.8750	22.000	1.8750	48.000
SSJL21301	0.0492	*	*	*	1.250	0.8750	22.000	1.8750	48.000
SSJL21302	0.0512	*	*	*	1.300	0.8750	22.000	1.8750	48.000
SSJL21303	0.0520	*	55	*	1.321	0.8750	22.000	1.8750	48.000
SSJL21304	0.0531	*	*	*	1.350	0.8750	22.000	1.8750	48.000
SSJL21305	0.0550	*	54	*	1.397	0.8750	22.000	1.8750	48.000
SSJL21306	0.0551	*	*	*	1.400	0.8750	22.000	1.8750	48.000
SSJL21307	0.0571	*	*	*	1.450	0.8750	22.000	1.8750	48.000
SSJL21308	0.0591	*	*	*	1.500	0.8750	22.000	1.8750	48.000
SSJL21309	0.0595	*	53	*	1.511	0.8750	22.000	1.8750	48.000
SSJL21310	0.0610	*	*	*	1.550	0.8750	22.000	1.8750	48.000
SSJL21311	0.0625	1/16	*	*	1.588	0.8750	22.000	1.8750	48.000
SSJL21312	0.0630	*	*	*	1.600	0.8750	22.000	1.8750	48.000
SSJL21313	0.0635	*	52	*	1.613	0.8750	22.000	1.8750	48.000
SSJL21400	0.0650	*	*	*	1.650	1.0000	25.000	2.0000	51.000
SSJL21401	0.0669	*	*	*	1.700	1.0000	25.000	2.0000	51.000
SSJL21402	0.0670	*	51	*	1.702	1.0000	25.000	2.0000	51.000
SSJL21403	0.0689	*	*	*	1.750	1.0000	25.000	2.0000	51.000
SSJL21404	0.0700	*	50	*	1.778	1.0000	25.000	2.0000	51.000
SSJL21405	0.0709	*	*	*	1.800	1.0000	25.000	2.0000	51.000
SSJL21406	0.0728	*	*	*	1.850	1.0000	25.000	2.0000	51.000
SSJL21407	0.0730	*	49	*	1.859	1.0000	25.000	2.0000	51.000
SSJL21408	0.0748	*	*	*	1.900	1.0000	25.000	2.0000	51.000
SSJL21409	0.0760	*	48	*	1.930	1.0000	25.000	2.0000	51.000
SSJL21410	0.0768	*	*	*	1.950	1.0000	25.000	2.0000	51.000
SSJL21411	0.0781	5/64	*	*	1.984	1.0000	25.000	2.0000	51.000
SSJL21412	0.0785	*	47	*	1.994	1.0000	25.000	2.0000	51.000
SSJL21413	0.0787	*	*	*	2.000	1.0000	25.000	2.0000	51.000

## STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dis. No.	Drill Dis. Letter	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
SSJL2150	0.0807	*	*	*	2.050	1.1250	29.000	2.1250	54.000
SSJL2151	0.0810	*	46	*	2.057	1.1250	29.000	2.1250	54.000
SSJL2152	0.0820	*	45	*	2.083	1.1250	29.000	2.1250	54.000
SSJL2153	0.0827	*	*	*	2.100	1.1250	29.000	2.1250	54.000
SSJL2154	0.0846	*	*	*	2.150	1.1250	29.000	2.1250	54.000
SSJL2155	0.0860	*	44	*	2.184	1.1250	29.000	2.1250	54.000
SSJL2160	0.0866	*	*	*	2.200	1.2500	32.000	2.2500	57.000
SSJL2161	0.0886	*	*	*	2.250	1.2500	32.000	2.2500	57.000
SSJL2162	0.0890	*	43	*	2.261	1.2500	32.000	2.2500	57.000
SSJL2163	0.0906	*	*	*	2.300	1.2500	32.000	2.2500	57.000
SSJL2164	0.0925	*	*	*	2.350	1.2500	32.000	2.2500	57.000
SSJL2165	0.0935	*	42	*	2.375	1.2500	32.000	2.2500	57.000
SSJL2166	0.0938	3/32	*	*	2.383	1.2500	32.000	2.2500	57.000
SSJL2170	0.0945	*	*	*	2.400	1.3750	35.000	2.3750	60.000
SSJL2171	0.0960	*	41	*	2.438	1.3750	35.000	2.3750	60.000
SSJL2172	0.0965	*	*	*	2.450	1.3750	35.000	2.3750	60.000
SSJL2173	0.0980	*	40	*	2.489	1.3750	35.000	2.3750	60.000
SSJL2174	0.0984	*	*	*	2.500	1.3750	35.000	2.3750	60.000
SSJL2175	0.0995	*	39	*	2.527	1.3750	35.000	2.3750	60.000
SSJL2180	0.1015	*	38	*	2.578	1.4375	37.000	2.5000	64.000
SSJL2181	0.1024	*	*	*	2.600	1.4375	37.000	2.5000	64.000
SSJL2182	0.1040	*	37	*	2.642	1.4375	37.000	2.5000	64.000
SSJL2183	0.1063	*	*	*	2.700	1.4375	37.000	2.5000	64.000
SSJL2184	0.1065	*	36	*	2.705	1.4375	37.000	2.5000	64.000
SSJL2190	0.1094	7/64	*	*	2.779	1.5000	38.000	2.6250	67.000
SSJL2191	0.1100	*	35	*	2.794	1.5000	38.000	2.6250	67.000
SSJL2192	0.1102	*	*	*	2.800	1.5000	38.000	2.6250	67.000
SSJL2193	0.1110	*	34	*	2.819	1.5000	38.000	2.6250	67.000
SSJL2194	0.1130	*	33	*	2.870	1.5000	38.000	2.6250	67.000
SSJL220	0.1142	*	*	*	2.900	1.6250	41.000	2.7500	70.000
SSJL221	0.1160	*	32	*	2.946	1.6250	41.000	2.7500	70.000
SSJL222	0.1181	*	*	*	3.000	1.6250	41.000	2.7500	70.000
SSJL223	0.1200	*	31	*	3.048	1.6250	41.000	2.7500	70.000
SSJL224	0.1220	*	*	*	3.100	1.6250	41.000	2.7500	70.000
SSJL225	0.1250	1/8	*	*	3.175	1.6250	41.000	2.7500	70.000
SSJL226	0.1260	*	*	*	3.200	1.6250	41.000	2.7500	70.000
SSJL227	0.1285	*	30	*	3.264	1.6250	41.000	2.7500	70.000
SSJL228	0.1299	*	*	*	3.300	1.7500	44.000	2.8750	73.000

## STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dis. No.	Drill Dis. Letter	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
SSJL2290	0.1339	*	*	*	3.400	1.7500	44.000	2.8750	73.000
SSJL2291	0.1360	*	29	*	3.454	1.7500	44.000	2.8750	73.000
SSJL2292	0.1378	*	*	*	3.500	1.7500	44.000	2.8750	73.000
SSJL2293	0.1405	*	28	*	3.569	1.7500	44.000	2.8750	73.000
SSJL2294	0.1406	9/64	*	*	3.571	1.7500	44.000	2.8750	73.000
SSJL230	0.1417	*	*	*	3.600	1.8750	48.000	3.0000	76.000
SSJL231	0.1440	*	27	*	3.658	1.8750	48.000	3.0000	76.000
SSJL232	0.1457	*	*	*	3.700	1.8750	48.000	3.0000	76.000
SSJL233	0.1470	*	26	*	3.734	1.8750	48.000	3.0000	76.000
SSJL234	0.1495	*	25	*	3.797	1.8750	48.000	3.0000	76.000
SSJL235	0.1496	*	*	*	3.800	1.8750	48.000	3.0000	76.000
SSJL240	0.1520	*	24	*	3.861	2.0000	51.000	3.1250	79.000
SSJL241	0.1535	*	*	*	3.900	2.0000	51.000	3.1250	79.000
SSJL242	0.1540	*	23	*	3.912	2.0000	51.000	3.1250	79.000
SSJL243	0.1562	5/32	*	*	3.967	2.0000	51.000	3.1250	79.000
SSJL244	0.1570	*	22	*	3.988	2.0000	51.000	3.1250	79.000
SSJL250	0.1575	*	*	*	4.000	2.1250	54.000	3.2500	83.000
SSJL251	0.1590	*	21	*	4.039	2.1250	54.000	3.2500	83.000
SSJL252	0.1610	*	20	*	4.089	2.1250	54.000	3.2500	83.000
SSJL253	0.1614	*	*	*	4.100	2.1250	54.000	3.2500	83.000
SSJL254	0.1654	*	*	*	4.200	2.1250	54.000	3.2500	83.000
SSJL255	0.1660	*	19	*	4.216	2.1250	54.000	3.2500	83.000
SSJL256	0.1693	*	*	*	4.300	2.1250	54.000	3.2500	83.000
SSJL257	0.1695	*	18	*	4.306	2.1250	54.000	3.2500	83.000
SSJL258	0.1719	11/64	*	*	4.366	2.1250	54.000	3.2500	83.000
SSJL260	0.1730	*	17	*	4.394	2.1875	56.000	3.3750	86.000
SSJL261	0.1732	*	*	*	4.400	2.1875	56.000	3.3750	86.000
SSJL262	0.1770	*	16	*	4.496	2.1875	56.000	3.3750	86.000
SSJL263	0.1772	*	*	*	4.500	2.1875	56.000	3.3750	86.000
SSJL264	0.1800	*	15	*	4.572	2.1875	56.000	3.3750	86.000
SSJL265	0.1811	*	*	*	4.600	2.1875	56.000	3.3750	86.000
SSJL266	0.1820	*	14	*	4.623	2.1875	56.000	3.3750	86.000
SSJL270	0.1850	*	13	*	4.700	2.3125	59.000	3.5000	89.000
SSJL271	0.1875	3/16	*	*	4.762	2.3125	59.000	3.5000	89.000
SSJL272	0.1890	*	12	*	4.800	2.3125	59.000	3.5000	89.000
SSJL273	0.1910	*	11	*	4.851	2.3125	59.000	3.5000	89.000
SSJL280	0.1929	*	*	*	4.900	2.4375	62.000	3.6250	92.000
SSJL281	0.1935	*	10	*	4.915	2.4375	62.000	3.6250	92.000

## STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dis. No.	Drill Dis. Letter	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
SSJL282	0.1960	*	9	*	4.978	2.4375	62.000	3.6250	92.000
SSJL283	0.1969	*	*	*	5.000	2.4375	62.000	3.6250	92.000
SSJL284	0.1990	*	8	*	5.054	2.4375	62.000	3.6250	92.000
SSJL285	0.2008	*	*	*	5.100	2.4375	62.000	3.6250	92.000
SSJL286	0.2010	*	7	*	5.105	2.4375	62.000	3.6250	92.000
SSJL287	0.2031	13/64	*	*	5.159	2.4375	62.000	3.6250	92.000
SSJL290	0.2040	*	6	*	5.182	2.5000	64.000	3.7500	95.000
SSJL291	0.2047	*	*	*	5.200	2.5000	64.000	3.7500	95.000
SSJL292	0.2055	*	5	*	5.220	2.5000	64.000	3.7500	95.000
SSJL293	0.2087	*	*	*	5.300	2.5000	64.000	3.7500	95.000
SSJL294	0.2090	*	4	*	5.309	2.5000	64.000	3.7500	95.000
SSJL295	0.2126	*	*	*	5.400	2.5000	64.000	3.7500	95.000
SSJL296	0.2130	*	3	*	5.410	2.5000	64.000	3.7500	95.000
SSJL297	0.2165	*	*	*	5.500	2.5000	64.000	3.7500	95.000
SSJL298	0.2188	7/32	*	*	5.558	2.5000	64.000	3.7500	95.000
SSJL300	0.2205	*	*	*	5.600	2.6250	67.000	3.8750	98.000
SSJL301	0.2210	*	2	*	5.613	2.6250	67.000	3.8750	98.000
SSJL302	0.2244	*	*	*	5.700	2.6250	67.000	3.8750	98.000
SSJL303	0.2280	*	1	*	5.791	2.6250	67.000	3.8750	98.000
SSJL304	0.2283	*	*	*	5.800	2.6250	67.000	3.8750	98.000
SSJL305	0.2323	*	*	*	5.900	2.6250	67.000	3.8750	98.000
SSJL306	0.2340	*	*	A	5.944	2.6250	67.000	3.8750	98.000
SSJL307	0.2344	15/64	*	*	5.954	2.6250	67.000	3.8750	98.000
SSJL310	0.2362	*	*	*	6.000	2.7500	70.000	4.0000	102.000
SSJL311	0.2380	*	*	B	6.045	2.7500	70.000	4.0000	102.000
SSJL312	0.2402	*	*	*	6.100	2.7500	70.000	4.0000	102.000
SSJL313	0.2420	*	*	C	6.147	2.7500	70.000	4.0000	102.000
SSJL314	0.2441	*	*	*	6.200	2.7500	70.000	4.0000	102.000
SSJL315	0.2460	*	*	D	6.248	2.7500	70.000	4.0000	102.000
SSJL316	0.2480	*	*	*	6.300	2.7500	70.000	4.0000	102.000
SSJL317	0.2500	1/4	*	E	6.350	2.7500	70.000	4.0000	102.000
SSJL3200	0.2520	*	*	*	6.400	2.8750	73.000	4.1250	105.000
SSJL3201	0.2559	*	*	*	6.500	2.8750	73.000	4.1250	105.000
SSJL3202	0.2570	*	*	F	6.528	2.8750	73.000	4.1250	105.000
SSJL3203	0.2598	*	*	*	6.600	2.8750	73.000	4.1250	105.000
SSJL3204	0.2610	*	*	G	6.629	2.8750	73.000	4.1250	105.000
SSJL3205	0.2638	*	*	*	6.700	2.8750	73.000	4.1250	105.000
SSJL3206	0.2656	17/64	*	*	6.746	2.8750	73.000	4.1250	105.000

## STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dis. No.	Drill Dis. Letter	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
SSJL3207	0.2660	*	*	H	6.756	2.8750	73.000	4.1250	105.000
SSJL3208	0.2677	*	*	*	6.800	2.8750	73.000	4.1250	105.000
SSJL3209	0.2717	*	*	*	6.900	2.8750	73.000	4.1250	105.000
SSJL3210	0.2720	*	*	I	6.909	2.8750	73.000	4.1250	105.000
SSJL3211	0.2756	*	*	*	7.000	2.8750	73.000	4.1250	105.000
SSJL3212	0.2770	*	*	J	7.036	2.8750	73.000	4.1250	105.000
SSJL330	0.2795	*	*	*	7.100	2.9375	75.000	4.2500	108.000
SSJL331	0.2810	*	*	K	7.137	2.9375	75.000	4.2500	108.000
SSJL332	0.2812	9/32	*	*	7.142	2.9375	75.000	4.2500	108.000
SSJL333	0.2835	*	*	*	7.200	2.9375	75.000	4.2500	108.000
SSJL334	0.2874	*	*	*	7.300	2.9375	75.000	4.2500	108.000
SSJL335	0.2900	*	*	L	7.366	2.9375	75.000	4.2500	108.000
SSJL340	0.2913	*	*	*	7.400	3.0625	78.000	4.3750	111.000
SSJL341	0.2950	*	*	M	7.493	3.0625	78.000	4.3750	111.000
SSJL342	0.2953	*	*	*	7.500	3.0625	78.000	4.3750	111.000
SSJL343	0.2969	19/64	*	*	7.541	3.0625	78.000	4.3750	111.000
SSJL344	0.2992	*	*	*	7.600	3.0625	78.000	4.3750	111.000
SSJL345	0.3020	*	*	N	7.671	3.0625	78.000	4.3750	111.000
SSJL350	0.3031	*	*	*	7.700	3.1875	81.000	4.5000	114.000
SSJL351	0.3071	*	*	*	7.800	3.1875	81.000	4.5000	114.000
SSJL352	0.3110	*	*	*	7.900	3.1875	81.000	4.5000	114.000
SSJL353	0.3125	5/16	*	*	7.938	3.1875	81.000	4.5000	114.000
SSJL354	0.3150	*	*	*	8.000	3.1875	81.000	4.5000	114.000
SSJL355	0.3160	*	*	O	8.026	3.1875	81.000	4.5000	114.000
SSJL360	0.3189	*	*	*	8.100	3.3125	84.000	4.6250	117.000
SSJL361	0.3228	*	*	*	8.200	3.3125	84.000	4.6250	117.000
SSJL362	0.3230	*	*	P	8.204	3.3125	84.000	4.6250	117.000
SSJL363	0.3268	*	*	*	8.300	3.3125	84.000	4.6250	117.000
SSJL364	0.3281	21/64	*	*	8.334	3.3125	84.000	4.6250	117.000
SSJL370	0.3307	*	*	*	8.400	3.4375	87.000	4.7500	121.000
SSJL371	0.3320	*	*	Q	8.433	3.4375	87.000	4.7500	121.000
SSJL372	0.3346	*	*	*	8.500	3.4375	87.000	4.7500	121.000
SSJL373	0.3386	*	*	*	8.600	3.4375	87.000	4.7500	121.000
SSJL374	0.3390	*	*	R	8.611	3.4375	87.000	4.7500	121.000
SSJL375	0.3425	*	*	*	8.700	3.4375	87.000	4.7500	121.000
SSJL376	0.3438	11/32	*	*	8.733	3.4375	87.000	4.7500	121.000
SSJL380	0.3465	*	*	*	8.800	3.5000	89.000	4.8750	124.000
SSJL381	0.3480	*	*	S	8.839	3.5000	89.000	4.8750	124.000

## STANDARD TWIST DRILLS

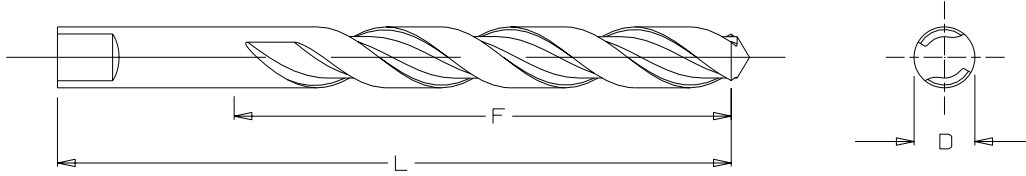
Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dis. No.	Drill Dis. Letter	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
SSJL382	0.3504	*	*	*	8.900	3.5000	89.000	4.8750	124.000
SSJL383	0.3543	*	*	*	9.000	3.5000	89.000	4.8750	124.000
SSJL384	0.3580	*	*	T	9.093	3.5000	89.000	4.8750	124.000
SSJL385	0.3583	*	*	*	9.100	3.5000	89.000	4.8750	124.000
SSJL386	0.3594	23/64	*	*	9.129	3.5000	89.000	4.8750	124.000
SSJL390	0.3622	*	*	*	9.200	3.6250	92.000	5.0000	127.000
SSJL391	0.3661	*	*	*	9.300	3.6250	92.000	5.0000	127.000
SSJL392	0.3680	*	*	U	9.347	3.6250	92.000	5.0000	127.000
SSJL393	0.3701	*	*	*	9.400	3.6250	92.000	5.0000	127.000
SSJL394	0.3740	*	*	*	9.500	3.6250	92.000	5.0000	127.000
SSJL395	0.3750	3/8	*	*	9.525	3.6250	92.000	5.0000	127.000
SSJL396	0.3770	*	*	V	9.576	3.6250	92.000	5.0000	127.000
SSJL400	0.3780	*	*	*	9.600	3.7500	95.000	5.1250	130.000
SSJL401	0.3819	*	*	*	9.700	3.7500	95.000	5.1250	130.000
SSJL402	0.3858	*	*	*	9.800	3.7500	95.000	5.1250	130.000
SSJL403	0.3860	*	*	W	9.804	3.7500	95.000	5.1250	130.000
SSJL404	0.3898	*	*	*	9.900	3.7500	95.000	5.1250	130.000
SSJL405	0.3906	25/64	*	*	9.921	3.7500	95.000	5.1250	130.000
SSJL406	0.3937	*	*	*	10.000	3.7500	95.000	5.1250	130.000
SSJL407	0.3970	*	*	X	10.084	3.7500	95.000	5.1250	130.000
SSJL410	0.4016	*	*	*	10.200	3.8750	98.000	5.2500	133.000
SSJL411	0.4040	*	*	Y	10.262	3.8750	98.000	5.2500	133.000
SSJL412	0.4062	13/32	*	*	10.317	3.8750	98.000	5.2500	133.000
SSJL413	0.4130	*	*	Z	10.490	3.8750	98.000	5.2500	133.000
SSJL414	0.4134	*	*	*	10.500	3.8750	98.000	5.2500	133.000
SSJL415	0.4219	27/64	*	*	10.716	3.9375	100.000	5.3750	137.000
SSJL420	0.4252	*	*	*	10.800	4.0625	103.000	5.5000	140.000
SSJL421	0.4331	7/16	*	*	11.000	4.0625	103.000	5.5000	140.000
SSJL422	0.4375	*	*	*	11.112	4.0625	103.000	5.5000	140.000
SSJL430	0.4409	*	*	*	11.200	4.1875	106.000	5.6250	143.000
SSJL431	0.4528	*	*	*	11.500	4.1875	106.000	5.6250	143.000
SSJL432	0.4531	29/64	*	*	11.509	4.1875	106.000	5.6250	143.000
SSJL440	0.4646	*	*	*	11.800	4.3125	110.000	5.7500	146.000
SSJL441	0.4688	15/32	*	*	11.908	4.3125	110.000	5.7500	146.000
SSJL450	0.4724	*	*	*	12.000	4.3750	111.000	5.8750	149.000
SSJL451	0.4803	*	*	*	12.200	4.3750	111.000	5.8750	149.000
SSJL452	0.4844	31/64	*	*	12.304	4.3750	111.000	5.8750	149.000
SSJL460	0.4921	*	*	*	12.500	4.5000	114.000	6.0000	152.000

## STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dis. No.	Drill Dis. Letter	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
SSJL461	0.5000	1/2	*	*	12.700	4.5000	114.000	6.0000	152.000
SSJL462	0.5039	*	*	*	12.800	4.5000	114.000	6.0000	152.000
SSJL463	0.5118	*	*	*	13.000	4.5000	114.000	6.0000	152.000
SSJL4700	0.5156	33/64	*	*	13.096	4.8125	122.000	6.6250	168.000
SSJL4701	0.5197	*	*	*	13.200	4.8125	122.000	6.6250	168.000
SSJL4702	0.5312	17/32	*	*	13.492	4.8125	122.000	6.6250	168.000
SSJL4703	0.5315	*	*	*	13.500	4.8125	122.000	6.6250	168.000
SSJL4704	0.5433	*	*	*	13.800	4.8125	122.000	6.6250	168.000
SSJL4705	0.5469	35/64	*	*	13.891	4.8125	122.000	6.6250	168.000
SSJL4706	0.5512	*	*	*	14.000	4.8125	122.000	6.6250	168.000
SSJL4707	0.5610	*	*	*	14.250	4.8125	122.000	6.6250	168.000
SSJL4708	0.5625	9/16	*	*	14.288	4.8125	122.000	6.6250	168.000
SSJL4709	0.5709	*	*	*	14.500	4.8125	122.000	6.6250	168.000
SSJL4710	0.5781	37/64	*	*	14.684	4.8125	122.000	6.6250	168.000
SSJL4800	0.5807	*	*	*	14.750	5.1875	132.000	7.1250	181.000
SSJL4801	0.5906	*	*	*	15.000	5.1875	132.000	7.1250	181.000
SSJL4802	0.5938	19/32	*	*	15.083	5.1875	132.000	7.1250	181.000
SSJL4803	0.6004	*	*	*	15.250	5.1875	132.000	7.1250	181.000
SSJL4804	0.6094	39/64	*	*	15.479	5.1875	132.000	7.1250	181.000
SSJL4805	0.6102	*	*	*	15.500	5.1875	132.000	7.1250	181.000
SSJL4806	0.6201	*	*	*	15.750	5.1875	132.000	7.1250	181.000
SSJL4807	0.6250	5/8	*	*	15.875	5.1875	132.000	7.1250	181.000
SSJL4808	0.6299	*	*	*	16.000	5.1875	132.000	7.1250	181.000
SSJL4809	0.6398	*	*	*	16.250	5.1875	132.000	7.1250	181.000
SSJL4810	0.6406	41/64	*	*	16.271	5.1875	132.000	7.1250	181.000
SSJL4811	0.6496	*	*	*	16.500	5.1875	132.000	7.1250	181.000
SSJL4812	0.6562	21/32	*	*	16.667	5.1875	132.000	7.1250	181.000
SSJL490	0.6594	*	*	*	16.750	5.6250	143.000	7.6250	194.000
SSJL491	0.6693	*	*	*	17.000	5.6250	143.000	7.6250	194.000
SSJL492	0.6719	43/64	*	*	17.066	5.6250	143.000	7.6250	194.000
SSJL493	0.6791	*	*	*	17.250	5.6250	143.000	7.6250	194.000
SSJL494	0.6875	11/16	*	*	17.462	5.6250	143.000	7.6250	194.000
SSJL495	0.6890	*	*	*	17.500	5.6250	143.000	7.6250	194.000

## STANDARD TWIST DRILLS

### STRAIGHT SHANK TWIST DRILL - JOBBERS LENGTH WITH TANGS Fractional, Number, Letter, and Metric Sizes



#### Generic Part Name: SSJLT

##### Notes:

1. Corresponds to standard ANSI B94.11M-1979.
2. Enter values exactly as shown.
3. “\*” denotes a non-existent value.

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. No.	Drill Dia. Letter	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
SSJLT1	0.1250	1/8	*	*	3.175	1.6250	41.000	2.7500	70.000
SSJLT2	0.1260	*	*	*	3.200	1.6250	41.000	2.7500	70.000
SSJLT3	0.1285	*	30	*	3.264	1.6250	41.000	2.7500	70.000
SSJLT4	0.1299	*	*	*	3.300	1.7500	44.000	2.8750	73.000
SSJLT5	0.1339	*	*	*	3.400	1.7500	44.000	2.8750	73.000
SSJLT6	0.1360	*	29	*	3.454	1.7500	44.000	2.8750	73.000
SSJLT7	0.1378	*	*	*	3.500	1.7500	44.000	2.8750	73.000
SSJLT8	0.1405	*	28	*	3.569	1.7500	44.000	2.8750	73.000
SSJLT9	0.1406	9/64	*	*	3.571	1.7500	44.000	2.8750	73.000
SSJLT10	0.1417	*	*	*	3.600	1.8750	48.000	3.0000	76.000
SSJLT11	0.1440	*	27	*	3.658	1.8750	48.000	3.0000	76.000
SSJLT12	0.1457	*	*	*	3.700	1.8750	48.000	3.0000	76.000
SSJLT13	0.1470	*	26	*	3.734	1.8750	48.000	3.0000	76.000
SSJLT14	0.1495	*	25	*	3.797	1.8750	48.000	3.0000	76.000
SSJLT15	0.1496	*	*	*	3.800	1.8750	48.000	3.0000	76.000
SSJLT16	0.1520	*	24	*	3.861	2.0000	51.000	3.1250	79.000
SSJLT17	0.1535	*	*	*	3.900	2.0000	51.000	3.1250	79.000
SSJLT18	0.1540	*	23	*	3.912	2.0000	51.000	3.1250	79.000
SSJLT19	0.1562	5/32	*	*	3.967	2.0000	51.000	3.1250	79.000
SSJLT20	0.1570	*	22	*	3.988	2.0000	51.000	3.1250	79.000
SSJLT21	0.1575	*	*	*	4.000	2.1250	54.000	3.2500	83.000

## STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. No.	Drill Dia. Letter	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
SSJLT22	0.1590	*	21	*	4.039	2.1250	54.000	3.2500	83.000
SSJLT23	0.1610	*	20	*	4.089	2.1250	54.000	3.2500	83.000
SSJLT24	0.1614	*	*	*	4.100	2.1250	54.000	3.2500	83.000
SSJLT25	0.1654	*	*	*	4.200	2.1250	54.000	3.2500	83.000
SSJLT26	0.1660	*	19	*	4.216	2.1250	54.000	3.2500	83.000
SSJLT27	0.1693	*	*	*	4.300	2.1250	54.000	3.2500	83.000
SSJLT28	0.1695	*	18	*	4.306	2.1250	54.000	3.2500	83.000
SSJLT29	0.1719	11/64	*	*	4.366	2.1250	54.000	3.2500	83.000
SSJLT30	0.1730	*	17	*	4.394	2.1875	56.000	3.3750	86.000
SSJLT31	0.1732	*	*	*	4.400	2.1875	56.000	3.3750	86.000
SSJLT32	0.1770	*	16	*	4.496	2.1875	56.000	3.3750	86.000
SSJLT33	0.1772	*	*	*	4.500	2.1875	56.000	3.3750	86.000
SSJLT34	0.1800	*	15	*	4.572	2.1875	56.000	3.3750	86.000
SSJLT35	0.1811	*	*	*	4.600	2.1875	56.000	3.3750	86.000
SSJLT36	0.1820	*	14	*	4.623	2.1875	56.000	3.3750	86.000
SSJLT37	0.1850	*	13	*	4.700	2.3125	59.000	3.5000	89.000
SSJLT38	0.1875	3/16	*	*	4.762	2.3125	59.000	3.5000	89.000
SSJLT39	0.1890	*	12	*	4.800	2.3125	59.000	3.5000	89.000
SSJLT40	0.1910	*	11	*	4.851	2.3125	59.000	3.5000	89.000
SSJLT41	0.1929	*	*	*	4.900	2.4375	62.000	3.6250	92.000
SSJLT42	0.1935	*	10	*	4.915	2.4375	62.000	3.6250	92.000
SSJLT43	0.1960	*	9	*	4.978	2.4375	62.000	3.6250	92.000
SSJLT44	0.1969	*	*	*	5.000	2.4375	62.000	3.6250	92.000
SSJLT45	0.1990	*	8	*	5.054	2.4375	62.000	3.6250	92.000
SSJLT46	0.2008	*	*	*	5.100	2.4375	62.000	3.6250	92.000
SSJLT47	0.2010	*	7	*	5.105	2.4375	62.000	3.6250	92.000
SSJLT48	0.2031	13/64	*	*	5.159	2.4375	62.000	3.6250	92.000
SSJLT49	0.2040	*	6	*	5.182	2.5000	64.000	3.7500	95.000
SSJLT50	0.2047	*	*	*	5.200	2.5000	64.000	3.7500	95.000
SSJLT51	0.2055	*	5	*	5.220	2.5000	64.000	3.7500	95.000
SSJLT52	0.2087	*	*	*	5.300	2.5000	64.000	3.7500	95.000
SSJLT53	0.2090	*	4	*	5.309	2.5000	64.000	3.7500	95.000
SSJLT54	0.2126	*	*	*	5.400	2.5000	64.000	3.7500	95.000
SSJLT55	0.2130	*	3	*	5.410	2.5000	64.000	3.7500	95.000
SSJLT56	0.2165	*	*	*	5.500	2.5000	64.000	3.7500	95.000
SSJLT57	0.2188	7/32	*	*	5.558	2.5000	64.000	3.7500	95.000
SSJLT58	0.2205	*	*	*	5.600	2.6250	67.000	3.8750	98.000
SSJLT59	0.2210	*	2	*	5.613	2.6250	67.000	3.8750	98.000

## STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. No.	Drill Dia. Letter	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
SSJLT60	0.2244	*	*	*	5.700	2.6250	67.000	3.8750	98.000
SSJLT61	0.2280	*	1	*	5.791	2.6250	67.000	3.8750	98.000
SSJLT62	0.2283	*	*	*	5.800	2.6250	67.000	3.8750	98.000
SSJLT63	0.2323	*	*	*	5.900	2.6250	67.000	3.8750	98.000
SSJLT64	0.2340	*	*	A	5.944	2.6250	67.000	3.8750	98.000
SSJLT65	0.2344	15/64	*	*	5.954	2.6250	67.000	3.8750	98.000
SSJLT66	0.2362	*	*	*	6.000	2.7500	70.000	4.0000	102.000
SSJLT67	0.2380	*	*	B	6.045	2.7500	70.000	4.0000	102.000
SSJLT68	0.2402	*	*	*	6.100	2.7500	70.000	4.0000	102.000
SSJLT69	0.2420	*	*	C	6.147	2.7500	70.000	4.0000	102.000
SSJLT70	0.2441	*	*	*	6.200	2.7500	70.000	4.0000	102.000
SSJLT71	0.2460	*	*	D	6.248	2.7500	70.000	4.0000	102.000
SSJLT72	0.2480	*	*	*	6.300	2.7500	70.000	4.0000	102.000
SSJLT73	0.2500	1/4	*	E	6.350	2.7500	70.000	4.0000	102.000
SSJLT74	0.2520	*	*	*	6.400	2.8750	73.000	4.1250	105.000
SSJLT75	0.2559	*	*	*	6.500	2.8750	73.000	4.1250	105.000
SSJLT76	0.2570	*	*	F	6.528	2.8750	73.000	4.1250	105.000
SSJLT77	0.2598	*	*	*	6.600	2.8750	73.000	4.1250	105.000
SSJLT78	0.2610	*	*	G	6.629	2.8750	73.000	4.1250	105.000
SSJLT79	0.2638	*	*	*	6.700	2.8750	73.000	4.1250	105.000
SSJLT80	0.2656	17/64	*	*	6.746	2.8750	73.000	4.1250	105.000
SSJLT81	0.2660	*	*	H	6.756	2.8750	73.000	4.1250	105.000
SSJLT82	0.2677	*	*	*	6.800	2.8750	73.000	4.1250	105.000
SSJLT83	0.2717	*	*	*	6.900	2.8750	73.000	4.1250	105.000
SSJLT84	0.2720	*	*	I	6.909	2.8750	73.000	4.1250	105.000
SSJLT85	0.2756	*	*	*	7.000	2.8750	73.000	4.1250	105.000
SSJLT86	0.2770	*	*	J	7.036	2.8750	73.000	4.1250	105.000
SSJLT87	0.2795	*	*	*	7.100	2.9375	75.000	4.2500	108.000
SSJLT88	0.2810	*	*	K	7.137	2.9375	75.000	4.2500	108.000
SSJLT89	0.2812	9/32	*	*	7.142	2.9375	75.000	4.2500	108.000
SSJLT90	0.2835	*	*	*	7.200	2.9375	75.000	4.2500	108.000
SSJLT91	0.2874	*	*	*	7.300	2.9375	75.000	4.2500	108.000
SSJLT92	0.2900	*	*	L	7.366	2.9375	75.000	4.2500	108.000
SSJLT93	0.2913	*	*	*	7.400	3.0625	78.000	4.3750	111.000
SSJLT94	0.2950	*	*	M	7.493	3.0625	78.000	4.3750	111.000
SSJLT95	0.2953	*	*	*	7.500	3.0625	78.000	4.3750	111.000
SSJLT96	0.2969	19/64	*	*	7.541	3.0625	78.000	4.3750	111.000
SSJLT97	0.2992	*	*	*	7.600	3.0625	78.000	4.3750	111.000

## STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. No.	Drill Dia. Letter	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
SSJLT98	0.3020	*	*	N	7.671	3.0625	78.000	4.3750	111.000
SSJLT99	0.3031	*	*	*	7.700	3.1875	81.000	4.5000	114.000
SSJLT100	0.3071	*	*	*	7.800	3.1875	81.000	4.5000	114.000
SSJLT101	0.3110	*	*	*	7.900	3.1875	81.000	4.5000	114.000
SSJLT102	0.3125	5/16	*	*	7.938	3.1875	81.000	4.5000	114.000
SSJLT103	0.3150	*	*	*	8.000	3.1875	81.000	4.5000	114.000
SSJLT104	0.3160	*	*	O	8.026	3.1875	81.000	4.5000	114.000
SSJLT105	0.3189	*	*	*	8.100	3.3125	84.000	4.6250	117.000
SSJLT106	0.3228	*	*	*	8.200	3.3125	84.000	4.6250	117.000
SSJLT107	0.3230	*	*	P	8.204	3.3125	84.000	4.6250	117.000
SSJLT108	0.3268	*	*	*	8.300	3.3125	84.000	4.6250	117.000
SSJLT109	0.3281	21/64	*	*	8.334	3.3125	84.000	4.6250	117.000
SSJLT110	0.3307	*	*	*	8.400	3.4375	87.000	4.7500	121.000
SSJLT111	0.3320	*	*	Q	8.433	3.4375	87.000	4.7500	121.000
SSJLT112	0.3346	*	*	*	8.500	3.4375	87.000	4.7500	121.000
SSJLT113	0.3386	*	*	*	8.600	3.4375	87.000	4.7500	121.000
SSJLT114	0.3390	*	*	R	8.611	3.4375	87.000	4.7500	121.000
SSJLT115	0.3425	*	*	*	8.700	3.4375	87.000	4.7500	121.000
SSJLT116	0.3438	11/32	*	*	8.733	3.4375	87.000	4.7500	121.000
SSJLT117	0.3465	*	*	*	8.800	3.5000	89.000	4.8750	124.000
SSJLT118	0.3480	*	*	S	8.839	3.5000	89.000	4.8750	124.000
SSJLT119	0.3504	*	*	*	8.900	3.5000	89.000	4.8750	124.000
SSJLT120	0.3543	*	*	*	9.000	3.5000	89.000	4.8750	124.000
SSJLT121	0.3580	*	*	T	9.093	3.5000	89.000	4.8750	124.000
SSJLT122	0.3583	*	*	*	9.100	3.5000	89.000	4.8750	124.000
SSJLT123	0.3594	23/64	*	*	9.129	3.5000	89.000	4.8750	124.000
SSJLT124	0.3622	*	*	*	9.200	3.6250	92.000	5.0000	127.000
SSJLT125	0.3661	*	*	*	9.300	3.6250	92.000	5.0000	127.000
SSJLT126	0.3680	*	*	U	9.347	3.6250	92.000	5.0000	127.000
SSJLT127	0.3701	*	*	*	9.400	3.6250	92.000	5.0000	127.000
SSJLT128	0.3740	*	*	*	9.500	3.6250	92.000	5.0000	127.000
SSJLT129	0.3750	3/8	*	*	9.525	3.6250	92.000	5.0000	127.000
SSJLT130	0.3770	*	*	V	9.576	3.6250	92.000	5.0000	127.000
SSJLT131	0.3780	*	*	*	9.600	3.7500	95.000	5.1250	130.000
SSJLT132	0.3819	*	*	*	9.700	3.7500	95.000	5.1250	130.000
SSJLT133	0.3858	*	*	*	9.800	3.7500	95.000	5.1250	130.000
SSJLT134	0.3860	*	*	W	9.804	3.7500	95.000	5.1250	130.000
SSJLT135	0.3898	*	*	*	9.900	3.7500	95.000	5.1250	130.000

## STANDARD TWIST DRILLS

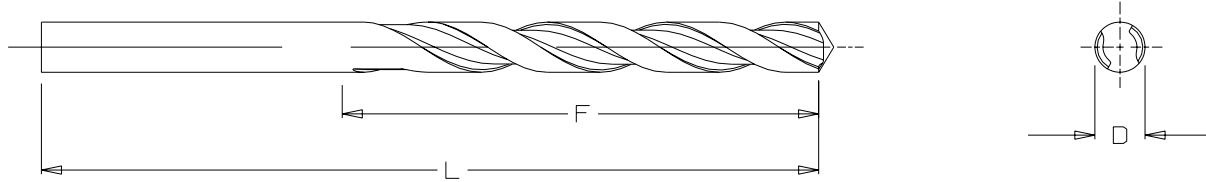
Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. No.	Drill Dia. Letter	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
SSJLT136	0.3906	25/64	*	*	9.921	3.7500	95.000	5.1250	130.000
SSJLT137	0.3937	*	*	*	10.000	3.7500	95.000	5.1250	130.000
SSJLT138	0.3970	*	*	X	10.084	3.7500	95.000	5.1250	130.000
SSJLT139	0.4016	*	*	*	10.200	3.8750	98.000	5.2500	133.000
SSJLT140	0.4040	*	*	Y	10.262	3.8750	98.000	5.2500	133.000
SSJLT141	0.4062	13/32	*	*	10.317	3.8750	98.000	5.2500	133.000
SSJLT142	0.4130	*	*	Z	10.490	3.8750	98.000	5.2500	133.000
SSJLT143	0.4134	*	*	*	10.500	3.8750	98.000	5.2500	133.000
SSJLT144	0.4219	27/64	*	*	10.716	3.9375	100.000	5.3750	137.000
SSJLT145	0.4252	*	*	*	10.800	4.0625	103.000	5.5000	140.000
SSJLT146	0.4331	7/16	*	*	11.000	4.0625	103.000	5.5000	140.000
SSJLT147	0.4375	*	*	*	11.112	4.0625	103.000	5.5000	140.000
SSJLT148	0.4409	*	*	*	11.200	4.1875	106.000	5.6250	143.000
SSJLT149	0.4528	*	*	*	11.500	4.1875	106.000	5.6250	143.000
SSJLT150	0.4531	29/64	*	*	11.509	4.1875	106.000	5.6250	143.000
SSJLT151	0.4646	*	*	*	11.800	4.3125	110.000	5.7500	146.000
SSJLT152	0.4688	15/32	*	*	11.908	4.3125	110.000	5.7500	146.000
SSJLT153	0.4724	*	*	*	12.000	4.3750	111.000	5.8750	149.000
SSJLT154	0.4803	*	*	*	12.200	4.3750	111.000	5.8750	149.000
SSJLT155	0.4844	31/64	*	*	12.304	4.3750	111.000	5.8750	149.000
SSJLT156	0.4921	*	*	*	12.500	4.5000	114.000	6.0000	152.000
SSJLT157	0.5000	1/2	*	*	12.700	4.5000	114.000	6.0000	152.000
SSJLT158	0.5039	*	*	*	12.800	4.5000	114.000	6.0000	152.000
SSJLT159	0.5118	*	*	*	13.000	4.5000	114.000	6.0000	152.000
SSJLT160	0.5156	33/64	*	*	13.096	4.8125	122.000	6.6250	168.000
SSJLT161	0.5197	*	*	*	13.200	4.8125	122.000	6.6250	168.000
SSJLT162	0.5312	17/32	*	*	13.492	4.8125	122.000	6.6250	168.000
SSJLT163	0.5315	*	*	*	13.500	4.8125	122.000	6.6250	168.000
SSJLT164	0.5433	*	*	*	13.800	4.8125	122.000	6.6250	168.000
SSJLT165	0.5469	35/64	*	*	13.891	4.8125	122.000	6.6250	168.000
SSJLT166	0.5512	*	*	*	14.000	4.8125	122.000	6.6250	168.000
SSJLT167	0.5610	*	*	*	14.250	4.8125	122.000	6.6250	168.000
SSJLT168	0.5625	9/16	*	*	14.288	4.8125	122.000	6.6250	168.000
SSJLT169	0.5709	*	*	*	14.500	4.8125	122.000	6.6250	168.000
SSJLT170	0.5781	37/64	*	*	14.684	4.8125	122.000	6.6250	168.000
SSJLT171	0.5807	*	*	*	14.750	5.1875	132.000	7.1250	181.000
SSJLT172	0.5906	*	*	*	15.000	5.1875	132.000	7.1250	181.000
SSJLT173	0.5938	19/32	*	*	15.083	5.1875	132.000	7.1250	181.000

## STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. No.	Drill Dia. Letter	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
SSJLT174	0.6004	*	*	*	15.250	5.1875	132.000	7.1250	181.000
SSJLT175	0.6094	39/64	*	*	15.479	5.1875	132.000	7.1250	181.000
SSJLT176	0.6102	*	*	*	15.500	5.1875	132.000	7.1250	181.000
SSJLT177	0.6201	*	*	*	15.750	5.1875	132.000	7.1250	181.000
SSJLT178	0.6250	5/8	*	*	15.875	5.1875	132.000	7.1250	181.000
SSJLT179	0.6299	*	*	*	16.000	5.1875	132.000	7.1250	181.000
SSJLT180	0.6398	*	*	*	16.250	5.1875	132.000	7.1250	181.000
SSJLT181	0.6406	41/64	*	*	16.271	5.1875	132.000	7.1250	181.000
SSJLT182	0.6496	*	*	*	16.500	5.1875	132.000	7.1250	181.000
SSJLT183	0.6562	21/32	*	*	16.667	5.1875	132.000	7.1250	181.000
SSJLT184	0.6594	*	*	*	16.750	5.6250	143.000	7.6250	194.000
SSJLT185	0.6693	*	*	*	17.000	5.6250	143.000	7.6250	194.000
SSJLT186	0.6719	43/64	*	*	17.066	5.6250	143.000	7.6250	194.000
SSJLT187	0.6791	*	*	*	17.250	5.6250	143.000	7.6250	194.000
SSJLT188	0.6875	11/16	*	*	17.462	5.6250	143.000	7.6250	194.000
SSJLT189	0.6890	*	*	*	17.500	5.6250	143.000	7.6250	194.000

## STANDARD TWIST DRILLS

### STRAIGHT SHANK TWIST DRILL - TAPER LENGTH - THROUGH 1/2 Fractional, Number and Metric Sizes



#### Generic Part Name: SSTL

##### Notes:

1. Corresponds to standard ANSI B94.11M-1979.
2. Enter values exactly as shown.
3. “\*” denotes a non-existent value.

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. No.	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
SSTL1	0.0394	*	*	1.000	1.1250	29.000	2.2500	57.000
SSTL2	0.0400	*	60	1.016	1.1250	29.000	2.2500	57.000
SSTL3	0.0410	*	59	1.041	1.1250	29.000	2.2500	57.000
SSTL4	0.0413	*	*	1.050	1.1250	29.000	2.2500	57.000
SSTL5	0.0420	*	58	1.067	1.1250	29.000	2.2500	57.000
SSTL6	0.0430	*	57	1.092	1.1250	92.000	2.2500	57.000
SSTL7	0.0433	*	*	1.100	1.1250	29.000	2.2500	57.000
SSTL8	0.0453	*	*	1.150	1.1250	29.000	2.2500	57.000
SSTL9	0.0465	*	56	1.181	1.1250	29.000	2.2500	57.000
SSTL10	0.0469	3/64	*	1.191	1.1250	29.000	2.2500	57.000
SSTL11	0.0472	*	*	1.200	1.7500	44.000	3.0000	76.000
SSTL12	0.0492	*	*	1.250	1.7500	44.000	3.0000	76.000
SSTL13	0.0512	*	*	1.300	1.7500	44.000	3.0000	76.000
SSTL14	0.0520	*	55	1.321	1.7500	44.000	3.0000	76.000
SSTL15	0.0531	*	*	1.350	1.7500	44.000	3.0000	76.000
SSTL16	0.0550	*	54	1.397	1.7500	44.000	3.0000	76.000
SSTL17	0.0551	*	*	1.400	1.7500	44.000	3.0000	76.000
SSTL18	0.0571	*	*	1.450	1.7500	44.000	3.0000	76.000
SSTL18A	0.0591	*	*	1.500	1.7500	44.000	3.0000	76.000
SSTL19	0.0595	*	53	1.511	1.7500	44.000	3.0000	76.000

## STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. No.	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
SSTL20	0.0610	*	*	1.550	1.7500	44.000	3.0000	76.000
SSTL21	0.0625	1/16	*	1.588	1.7500	44.000	3.0000	76.000
SSTL22	0.0630	*	*	1.600	2.0000	51.000	3.7500	95.000
SSTL23	0.0635	*	52	1.613	2.0000	51.000	3.7500	95.000
SSTL24	0.0650	*	*	1.650	2.0000	51.000	3.7500	95.000
SSTL25	0.0669	*	*	1.700	2.0000	51.000	3.7500	95.000
SSTL26	0.0670	*	51	1.702	2.0000	51.000	3.7500	95.000
SSTL27	0.0689	*	*	1.750	2.0000	51.000	3.7500	95.000
SSTL28	0.0700	*	50	1.778	2.0000	51.000	3.7500	95.000
SSTL29	0.0709	*	*	1.800	2.0000	51.000	3.7500	95.000
SSTL30	0.0728	*	*	1.850	2.0000	51.000	3.7500	95.000
SSTL31	0.0730	*	49	1.859	2.0000	51.000	3.7500	95.000
SSTL32	0.0748	*	*	1.900	2.0000	51.000	3.7500	95.000
SSTL33	0.0760	*	48	1.930	2.0000	51.000	3.7500	95.000
SSTL34	0.0768	*	*	1.950	2.0000	51.000	3.7500	95.000
SSTL35	0.0781	5/64	*	1.984	2.0000	51.000	3.7500	95.000
SSTL36	0.0785	*	47	1.994	2.2500	57.000	4.2500	108.000
SSTL37	0.0787	*	*	2.000	2.2500	57.000	4.2500	108.000
SSTL38	0.0807	*	*	2.050	2.2500	57.000	4.2500	108.000
SSTL39	0.0810	*	46	2.057	2.2500	57.000	4.2500	108.000
SSTL40	0.0820	*	45	2.083	2.2500	57.000	4.2500	108.000
SSTL41	0.0827	*	*	2.100	2.2500	57.000	4.2500	108.000
SSTL42	0.0846	*	*	2.150	2.2500	57.000	4.2500	108.000
SSTL43	0.0860	*	44	2.184	2.2500	57.000	4.2500	108.000
SSTL44	0.0866	*	*	2.200	2.2500	57.000	4.2500	108.000
SSTL45	0.0886	*	*	2.250	2.2500	57.000	4.2500	108.000
SSTL46	0.0890	*	43	2.261	2.2500	57.000	4.2500	108.000
SSTL47	0.0906	*	*	2.300	2.2500	57.000	4.2500	108.000
SSTL48	0.0925	*	*	2.350	2.2500	57.000	4.2500	108.000
SSTL49	0.0935	*	42	2.375	2.2500	57.000	4.2500	108.000
SSTL50	0.0938	3/32	*	2.383	2.2500	57.000	4.2500	108.000
SSTL51	0.0945	*	*	2.400	2.5000	64.000	4.6250	117.000
SSTL52	0.0960	*	41	2.438	2.5000	64.000	4.6250	117.000
SSTL53	0.0965	*	*	2.450	2.5000	64.000	4.6250	117.000
SSTL54	0.0980	*	40	2.489	2.5000	64.000	4.6250	117.000
SSTL55	0.0984	*	*	2.500	2.5000	64.000	4.6250	117.000
SSTL56	0.0995	*	39	2.527	2.5000	64.000	4.6250	117.000
SSTL57	0.1015	*	38	2.578	2.5000	64.000	4.6250	117.000

## STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. No.	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
SSTL58	0.1024	*	*	2.600	2.5000	64.000	4.6250	117.000
SSTL59	0.1040	*	37	2.642	2.5000	64.000	4.6250	117.000
SSTL60	0.1063	*	*	2.700	2.5000	64.000	4.6250	117.000
SSTL61	0.1065	*	36	2.705	2.5000	64.000	4.6250	117.000
SSTL62	0.1094	7/64	*	2.779	2.5000	64.000	4.6250	117.000
SSTL63	0.1100	*	35	2.794	2.7500	70.000	5.1250	130.000
SSTL64	0.1102	*	*	2.800	2.7500	70.000	5.1250	130.000
SSTL65	0.1110	*	34	2.819	2.7500	70.000	5.1250	130.000
SSTL66	0.1130	*	33	2.870	2.7500	70.000	5.1250	130.000
SSTL67	0.1142	*	*	2.900	2.7500	70.000	5.1250	130.000
SSTL68	0.1160	*	32	2.946	2.7500	70.000	5.1250	130.000
SSTL69	0.1181	*	*	3.000	2.7500	70.000	5.1250	130.000
SSTL70	0.1200	*	31	3.048	2.7500	70.000	5.1250	130.000
SSTL71	0.1220	*	*	3.100	2.7500	70.000	5.1250	130.000
SSTL72	0.1250	1/8	*	3.175	2.7500	70.000	5.1250	130.000
SSTL73	0.1260	*	*	3.200	3.0000	76.000	5.3750	137.000
SSTL74	0.1285	*	30	3.264	3.0000	76.000	5.3750	137.000
SSTL75	0.1299	*	*	3.300	3.0000	76.000	5.3750	137.000
SSTL76	0.1339	*	*	3.400	3.0000	76.000	5.3750	137.000
SSTL77	0.1360	*	29	3.454	3.0000	76.000	5.3750	137.000
SSTL78	0.1378	*	*	3.500	3.0000	76.000	5.3750	137.000
SSTL79	0.1405	*	28	3.569	3.0000	76.000	5.3750	137.000
SSTL80	0.1406	9/64	*	3.571	3.0000	76.000	5.3750	137.000
SSTL81	0.1417	*	*	3.600	3.0000	76.000	5.3750	137.000
SSTL82	0.1440	*	27	3.658	3.0000	76.000	5.3750	137.000
SSTL83	0.1457	*	*	3.700	3.0000	76.000	5.3750	137.000
SSTL84	0.1470	*	26	3.734	3.0000	76.000	5.3750	137.000
SSTL85	0.1495	*	25	3.797	3.0000	76.000	5.3750	137.000
SSTL86	0.1496	*	*	3.800	3.0000	76.000	5.3750	137.000
SSTL87	0.1520	*	24	3.861	3.0000	76.000	5.3750	137.000
SSTL88	0.1535	*	*	3.900	3.0000	76.000	5.3750	137.000
SSTL89	0.1540	*	23	3.912	3.0000	76.000	5.3750	137.000
SSTL90	0.1562	5/32	*	3.967	3.0000	76.000	5.3750	137.000
SSTL91	0.1570	*	22	3.988	3.3750	86.000	5.7500	146.000
SSTL92	0.1575	*	*	4.000	3.3750	86.000	5.7500	146.000
SSTL93	0.1590	*	21	4.039	3.3750	86.000	5.7500	146.000
SSTL94	0.1610	*	20	4.089	3.3750	86.000	5.7500	146.000
SSTL95	0.1614	*	*	4.100	3.3750	86.000	5.7500	146.000

## STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. No.	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
SSTL96	0.1654	*	*	4.200	3.3750	86.000	5.7500	146.000
SSTL97	0.1660	*	19	4.216	3.3750	86.000	5.7500	146.000
SSTL98	0.1693	*	*	4.300	3.3750	86.000	5.7500	146.000
SSTL99	0.1695	*	18	4.306	3.3750	86.000	5.7500	146.000
SSTL100	0.1719	11/64	*	4.366	3.3750	86.000	5.7500	146.000
SSTL101	0.1730	*	17	4.394	3.3750	86.000	5.7500	146.000
SSTL102	0.1732	*	*	4.400	3.3750	86.000	5.7500	146.000
SSTL103	0.1770	*	16	4.496	3.3750	86.000	5.7500	146.000
SSTL104	0.1772	*	*	4.500	3.3750	86.000	5.7500	146.000
SSTL105	0.1800	*	15	4.572	3.3750	86.000	5.7500	146.000
SSTL106	0.1811	*	*	4.600	3.3750	86.000	5.7500	146.000
SSTL107	0.1820	*	14	4.623	3.3750	86.000	5.7500	146.000
SSTL108	0.1850	*	13	4.700	3.3750	86.000	5.7500	146.000
SSTL109	0.1875	3/16	*	4.762	3.3750	86.000	5.7500	146.000
SSTL110	0.1890	*	12	4.800	3.6250	92.000	6.0000	152.000
SSTL111	0.1910	*	11	4.851	3.6250	92.000	6.0000	152.000
SSTL112	0.1929	*	*	4.900	3.6250	92.000	6.0000	152.000
SSTL113	0.1935	*	10	4.915	3.6250	92.000	6.0000	152.000
SSTL114	0.1960	*	9	4.978	3.6250	92.000	6.0000	152.000
SSTL115	0.1969	*	*	5.000	3.6250	92.000	6.0000	152.000
SSTL116	0.1990	*	8	5.054	3.6250	92.000	6.0000	152.000
SSTL117	0.2008	*	*	5.100	3.6250	92.000	6.0000	152.000
SSTL118	0.2010	*	7	5.105	3.6250	92.000	6.0000	152.000
SSTL119	0.2031	13/64	*	5.159	3.6250	92.000	6.0000	152.000
SSTL120	0.2040	*	6	5.182	3.6250	92.000	6.0000	152.000
SSTL121	0.2047	*	*	5.200	3.6250	92.000	6.0000	152.000
SSTL122	0.2055	*	5	5.220	3.6250	92.000	6.0000	152.000
SSTL123	0.2087	*	*	5.300	3.6250	92.000	6.0000	152.000
SSTL124	0.2090	*	4	5.309	3.6250	92.000	6.0000	152.000
SSTL125	0.2126	*	*	5.400	3.6250	92.000	6.0000	152.000
SSTL126	0.2130	*	3	5.410	3.6250	92.000	6.0000	152.000
SSTL127	0.2165	*	*	5.500	3.6250	92.000	6.0000	152.000
SSTL128	0.2188	7/32	*	5.558	3.6250	92.000	6.0000	152.000
SSTL129	0.2205	*	*	5.600	3.7500	95.000	6.1250	156.000
SSTL130	0.2210	*	2	5.613	3.7500	95.000	6.1250	156.000
SSTL131	0.2244	*	*	5.700	3.7500	95.000	6.1250	156.000
SSTL132	0.2280	*	1	5.791	3.7500	95.000	6.1250	156.000
SSTL133	0.2283	*	*	5.800	3.7500	95.000	6.1250	156.000

## STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. No.	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
SSTL134	0.2323	*	*	5.900	3.7500	95.000	6.1250	156.000
SSTL136	0.2344	15/64	*	5.954	3.7500	95.000	6.1250	156.000
SSTL137	0.2362	*	*	6.000	3.7500	95.000	6.1250	156.000
SSTL139	0.2402	*	*	6.100	3.7500	95.000	6.1250	156.000
SSTL141	0.2441	*	*	6.200	3.7500	95.000	6.1250	156.000
SSTL143	0.2480	*	*	6.300	3.7500	95.000	6.1250	156.000
SSTL144	0.2500	1/4	*	6.350	3.7500	95.000	6.1250	156.000
SSTL145	0.2520	*	*	6.400	3.8750	98.000	6.2500	159.000
SSTL146	0.2559	*	*	6.500	3.8750	98.000	6.2500	159.000
SSTL147	0.2656	17/64	*	6.746	3.8750	98.000	6.2500	159.000
SSTL148	0.2677	*	*	6.800	3.8750	98.000	6.2500	159.000
SSTL149	0.2756	*	*	7.000	3.8750	98.000	6.2500	159.000
SSTL150	0.2812	9/32	*	7.142	3.8750	98.000	6.2500	159.000
SSTL151	0.2835	*	*	7.200	4.0000	102.000	6.3750	162.000
SSTL152	0.2953	*	*	7.500	4.0000	102.000	6.3750	162.000
SSTL153	0.2969	19/64	*	7.541	4.0000	102.000	6.3750	162.000
SSTL154	0.3071	*	*	7.800	4.0000	102.000	6.3750	162.000
SSTL155	0.3125	5/16	*	7.938	4.0000	102.000	6.3750	162.000
SSTL156	0.3150	*	*	8.000	4.1250	105.000	6.5000	165.000
SSTL157	0.3228	*	*	8.200	4.1250	105.000	6.5000	165.000
SSTL158	0.3281	21/64	*	8.334	4.1250	105.000	6.5000	165.000
SSTL159	0.3346	*	*	8.500	4.1250	105.000	6.5000	165.000
SSTL160	0.3438	11/32	*	8.733	4.1250	105.000	6.5000	165.000
SSTL161	0.3465	*	*	8.800	4.2500	108.000	6.7500	171.000
SSTL162	0.3543	*	*	9.000	4.2500	108.000	6.7500	171.000
SSTL163	0.3594	23/64	*	9.129	4.2500	108.000	6.7500	171.000
SSTL164	0.3622	*	*	9.200	4.2500	108.000	6.7500	171.000
SSTL165	0.3740	*	*	9.500	4.2500	108.000	6.7500	171.000
SSTL166	0.3750	3/8	*	9.525	4.2500	108.000	6.7500	171.000
SSTL167	0.3858	*	*	9.800	4.3750	111.000	7.0000	178.000
SSTL168	0.3906	25/64	*	9.921	4.3750	111.000	7.0000	178.000
SSTL169	0.3937	*	*	10.000	4.3750	111.000	7.0000	178.000
SSTL170	0.4016	*	*	10.200	4.3750	111.000	7.0000	178.000
SSTL171	0.4062	13/32	*	10.317	4.3750	111.000	7.0000	178.000
SSTL172	0.4134	*	*	10.500	4.6250	117.000	7.2500	184.000
SSTL173	0.4219	27/64	*	10.716	4.6250	117.000	7.2500	184.000
SSTL174	0.4252	*	*	10.800	4.6250	117.000	7.2500	184.000
SSTL175	0.4331	*	*	11.000	4.6250	117.000	7.2500	184.000

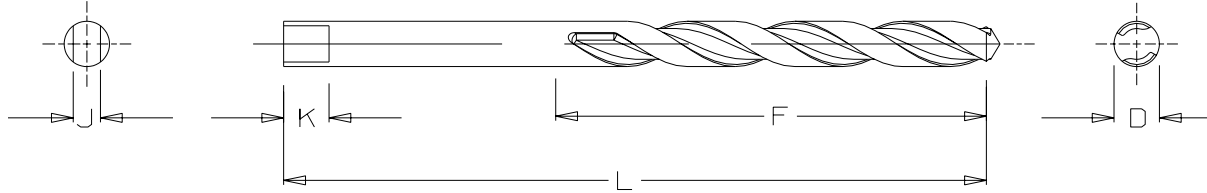
## STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. No.	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
SSTL176	0.4375	7/16	*	11.112	4.6250	117.000	7.2500	184.000
SSTL177	0.4409	*	*	11.200	4.7500	121.000	7.5000	190.000
SSTL178	0.4528	*	*	11.500	4.7500	121.000	7.5000	190.000
SSTL179	0.4531	29/64	*	11.509	4.7500	121.000	7.5000	190.000
SSTL180	0.4646	*	*	11.800	4.7500	121.000	7.5000	190.000
SSTL181	0.4688	15/32	*	11.908	4.7500	121.000	7.5000	190.000
SSTL182	0.4724	*	*	12.000	4.7500	121.000	7.7500	197.000
SSTL183	0.4803	*	*	12.200	4.7500	121.000	7.7500	197.000
SSTL184	0.4844	31/64	*	12.304	4.7500	121.000	7.7500	197.000
SSTL185	0.4921	*	*	12.500	4.7500	121.000	7.7500	197.000
SSTL186	0.5000	1/2	*	12.700	4.7500	121.000	7.7500	197.000

## STANDARD TWIST DRILLS

### STRAIGHT SHANK TWIST DRILL - TAPER LENGTH WITH TANGS - THROUGH 1/2 DIAMETER

#### Fractional, Number and Metric Sizes



#### Generic Part Name: SSTLT

##### Notes:

1. Corresponds to standard ANSI B94.11M-1979.
2. Enter values exactly as shown.
3. "\*" denotes a non-existent value.

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. No.	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)	J Tang Thick.	K Tang Length
SSTLT1	0.1250	1/8	*	3.175	2.7500	70.000	5.1250	130.000	0.0900	0.2812
SSTLT2	0.1260	*	*	3.200	3.0000	76.000	5.3750	137.000	0.0900	0.2812
SSTLT3	0.1285	*	30	3.264	3.0000	76.000	5.3750	137.000	0.0900	0.2812
SSTLT4	0.1299	*	*	3.300	3.0000	76.000	5.3750	137.000	0.0900	0.2812
SSTLT5	0.1339	*	*	3.400	3.0000	76.000	5.3750	137.000	0.0900	0.2812
SSTLT6	0.1360	*	29	3.454	3.0000	76.000	5.3750	137.000	0.0900	0.2812
SSTLT7	0.1378	*	*	3.500	3.0000	76.000	5.3750	137.000	0.0900	0.2812
SSTLT8	0.1405	*	28	3.569	3.0000	76.000	5.3750	137.000	0.0900	0.2812
SSTLT9	0.1406	9/64	*	3.571	3.0000	76.000	5.3750	137.000	0.0900	0.2812
SSTLT10	0.1417	*	*	3.600	3.0000	76.000	5.3750	137.000	0.0900	0.2812
SSTLT11	0.1440	*	27	3.658	3.0000	76.000	5.3750	137.000	0.0900	0.2812
SSTLT12	0.1457	*	*	3.700	3.0000	76.000	5.3750	137.000	0.0900	0.2812
SSTLT13	0.1470	*	26	3.734	3.0000	76.000	5.3750	137.000	0.0900	0.2812
SSTLT14	0.1495	*	25	3.797	3.0000	76.000	5.3750	137.000	0.0900	0.2812
SSTLT15	0.1496	*	*	3.800	3.0000	76.000	5.3750	137.000	0.0900	0.2812
SSTLT16	0.1520	*	24	3.861	3.0000	76.000	5.3750	137.000	0.0900	0.2812
SSTLT17	0.1535	*	*	3.900	3.0000	76.000	5.3750	137.000	0.0900	0.2812
SSTLT18	0.1540	*	23	3.912	3.0000	76.000	5.3750	137.000	0.0900	0.2812
SSTLT19	0.1562	5/32	*	3.967	3.0000	76.000	5.3750	137.000	0.0900	0.2812
SSTLT20	0.1570	*	22	3.988	3.3750	86.000	5.7500	146.000	0.0900	0.2812
SSTLT21	0.1575	*	*	4.000	3.3750	86.000	5.7500	146.000	0.0900	0.2812

# STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. No.	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)	J Tang Thick.	K Tang Length
SSTLT22	0.1590	*	21	4.039	3.3750	86.000	5.7500	146.000	0.0900	0.2812
SSTLT23	0.1610	*	20	4.089	3.3750	86.000	5.7500	146.000	0.0900	0.2812
SSTLT24	0.1614	*	*	4.100	3.3750	86.000	5.7500	146.000	0.0900	0.2812
SSTLT25	0.1654	*	*	4.200	3.3750	86.000	5.7500	146.000	0.0900	0.2812
SSTLT26	0.1660	*	19	4.216	3.3750	86.000	5.7500	146.000	0.0900	0.2812
SSTLT27	0.1693	*	*	4.300	3.3750	86.000	5.7500	146.000	0.0900	0.2812
SSTLT28	0.1695	*	18	4.306	3.3750	86.000	5.7500	146.000	0.0900	0.2812
SSTLT29	0.1719	11/64	*	4.366	3.3750	86.000	5.7500	146.000	0.0900	0.2812
SSTLT30	0.1730	*	17	4.394	3.3750	86.000	5.7500	146.000	0.0900	0.2812
SSTLT31	0.1732	*	*	4.400	3.3750	86.000	5.7500	146.000	0.0900	0.2812
SSTLT32	0.1770	*	16	4.496	3.3750	86.000	5.7500	146.000	0.0900	0.2812
SSTLT33	0.1772	*	*	4.500	3.3750	86.000	5.7500	146.000	0.0900	0.2812
SSTLT34	0.1800	*	15	4.572	3.3750	86.000	5.7500	146.000	0.0900	0.2812
SSTLT35	0.1811	*	*	4.600	3.3750	86.000	5.7500	146.000	0.0900	0.2812
SSTLT36	0.1820	*	14	4.623	3.3750	86.000	5.7500	146.000	0.0900	0.2812
SSTLT37	0.1850	*	13	4.700	3.3750	86.000	5.7500	146.000	0.0900	0.2812
SSTLT38	0.1875	3/16	*	4.762	3.3750	86.000	5.7500	146.000	0.0900	0.2812
SSTLT39	0.1890	*	12	4.800	3.6250	92.000	6.0000	152.000	0.1200	0.3125
SSTLT40	0.1910	*	11	4.851	3.6250	92.000	6.0000	152.000	0.1200	0.3125
SSTLT41	0.1929	*	*	4.900	3.6250	92.000	6.0000	152.000	0.1200	0.3125
SSTLT42	0.1935	*	10	4.915	3.6250	92.000	6.0000	152.000	0.1200	0.3125
SSTLT43	0.1960	*	9	4.978	3.6250	92.000	6.0000	152.000	0.1200	0.3125
SSTLT44	0.1969	*	*	5.000	3.6250	92.000	6.0000	152.000	0.1200	0.3125
SSTLT45	0.1990	*	8	5.054	3.6250	92.000	6.0000	152.000	0.1200	0.3125
SSTLT46	0.2008	*	*	5.100	3.6250	92.000	6.0000	152.000	0.1200	0.3125
SSTLT47	0.2010	*	7	5.105	3.6250	92.000	6.0000	152.000	0.1200	0.3125
SSTLT48	0.2031	13/64	*	5.159	3.6250	92.000	6.0000	152.000	0.1200	0.3125
SSTLT49	0.2040	*	6	5.182	3.6250	92.000	6.0000	152.000	0.1200	0.3125
SSTLT50	0.2047	*	*	5.200	3.6250	92.000	6.0000	152.000	0.1200	0.3125
SSTLT51	0.2055	*	5	5.220	3.6250	92.000	6.0000	152.000	0.1200	0.3125
SSTLT52	0.2087	*	*	5.300	3.6250	92.000	6.0000	152.000	0.1200	0.3125
SSTLT53	0.2090	*	4	5.309	3.6250	92.000	6.0000	152.000	0.1200	0.3125
SSTLT54	0.2126	*	*	5.400	3.6250	92.000	6.0000	152.000	0.1200	0.3125
SSTLT55	0.2130	*	3	5.410	3.6250	92.000	6.0000	152.000	0.1200	0.3125
SSTLT56	0.2165	*	*	5.500	3.6250	92.000	6.0000	152.000	0.1200	0.3125
SSTLT57	0.2188	7/32	*	5.558	3.6250	92.000	6.0000	152.000	0.1200	0.3125
SSTLT58	0.2205	*	*	5.600	3.7500	95.000	6.1250	156.000	0.1200	0.3125
SSTLT59	0.2210	*	2	5.613	3.7500	95.000	6.1250	156.000	0.1200	0.3125

# STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. No.	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)	J Tang Thick.	K Tang Length
SSTLT60	0.2244	*	*	5.700	3.7500	95.000	6.1250	156.000	0.1200	0.3125
SSTLT61	0.2280	*	1	5.791	3.7500	95.000	6.1250	156.000	0.1200	0.3125
SSTLT62	0.2283	*	*	5.800	3.7500	95.000	6.1250	156.000	0.1200	0.3125
SSTLT63	0.2323	*	*	5.900	3.7500	95.000	6.1250	156.000	0.1200	0.3125
SSTLT64	0.2344	15/64	*	5.954	3.7500	95.000	6.1250	156.000	0.1200	0.3125
SSTLT65	0.2362	*	*	6.000	3.7500	95.000	6.1250	156.000	0.1200	0.3125
SSTLT66	0.2402	*	*	6.100	3.7500	95.000	6.1250	156.000	0.1200	0.3125
SSTLT67	0.2441	*	*	6.200	3.7500	95.000	6.1250	156.000	0.1200	0.3125
SSTLT68	0.2480	*	*	6.300	3.7500	95.000	6.1250	156.000	0.1200	0.3125
SSTLT69	0.2500	1/4	*	6.350	3.7500	95.000	6.1250	156.000	0.1200	0.3125
SSTLT70	0.2520	*	*	6.400	3.8750	98.000	6.2500	159.000	0.1600	0.3438
SSTLT71	0.2559	*	*	6.500	3.8750	98.000	6.2500	159.000	0.1600	0.3438
SSTLT72	0.2656	17/64	*	6.746	3.8750	98.000	6.2500	159.000	0.1600	0.3438
SSTLT73	0.2677	*	*	6.800	3.8750	98.000	6.2500	159.000	0.1600	0.3438
SSTLT74	0.2756	*	*	7.000	3.8750	98.000	6.2500	159.000	0.1600	0.3438
SSTLT75	0.2812	9/32	*	7.142	3.8750	98.000	6.2500	159.000	0.1600	0.3438
SSTLT76	0.2835	*	*	7.200	4.0000	102.000	6.3750	162.000	0.1600	0.3438
SSTLT77	0.2953	*	*	7.500	4.0000	102.000	6.3750	162.000	0.1600	0.3438
SSTLT78	0.2969	19/64	*	7.541	4.0000	102.000	6.3750	162.000	0.1600	0.3438
SSTLT79	0.3071	*	*	7.800	4.0000	102.000	6.3750	162.000	0.1600	0.3438
SSTLT80	0.3125	5/16	*	7.938	4.0000	102.000	6.3750	162.000	0.1600	0.3438
SSTLT81	0.3150	*	*	8.000	4.1250	105.000	6.5000	165.000	0.2000	0.3750
SSTLT82	0.3228	*	*	8.200	4.1250	105.000	6.5000	165.000	0.2000	0.3750
SSTLT83	0.3281	21/64	*	8.334	4.1250	105.000	6.5000	165.000	0.2000	0.3750
SSTLT84	0.3346	*	*	8.500	4.1250	105.000	6.5000	165.000	0.2000	0.3750
SSTLT85	0.3438	11/32	*	8.733	4.1250	105.000	6.5000	165.000	0.2000	0.3750
SSTLT86	0.3465	*	*	8.800	4.2500	108.000	6.7500	171.000	0.2000	0.3750
SSTLT87	0.3543	*	*	9.000	4.2500	108.000	6.7500	171.000	0.2000	0.3750
SSTLT88	0.3594	23/64	*	9.129	4.2500	108.000	6.7500	171.000	0.2000	0.3750
SSTLT89	0.3622	*	*	9.200	4.2500	108.000	6.7500	171.000	0.2000	0.3750
SSTLT90	0.3740	*	*	9.500	4.2500	108.000	6.7500	171.000	0.2000	0.3750
SSTLT91	0.3750	3/8	*	9.525	4.2500	108.000	6.7500	171.000	0.2000	0.3750
SSTLT92	0.3858	*	*	9.800	4.3750	111.000	7.0000	178.000	0.2410	0.4375
SSTLT93	0.3906	25/64	*	9.921	4.3750	111.000	7.0000	178.000	0.2410	0.4375
SSTLT94	0.3937	*	*	10.000	4.3750	111.000	7.0000	178.000	0.2410	0.4375
SSTLT95	0.4016	*	*	10.200	4.3750	111.000	7.0000	178.000	0.2410	0.4375
SSTLT96	0.4062	13/32	*	10.317	4.3750	111.000	7.0000	178.000	0.2410	0.4375
SSTLT97	0.4134	*	*	10.500	4.6250	117.000	7.2500	184.000	0.2410	0.4375

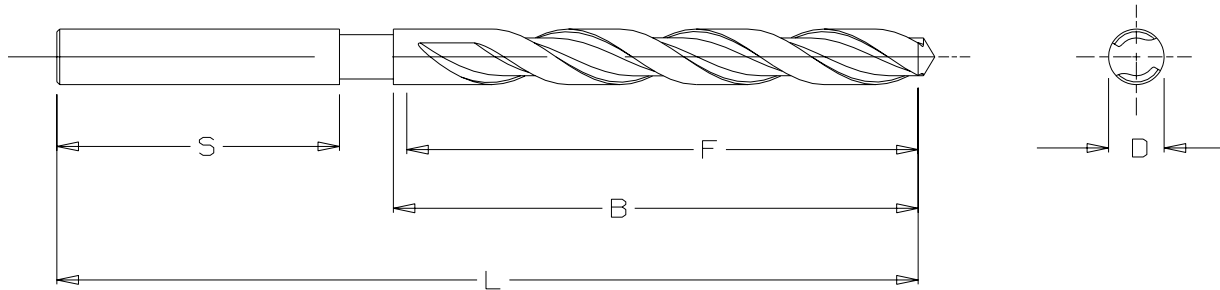
## STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. No.	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)	J Tang Thick.	K Tang Length
SSTLT98	0.4219	27/64	*	10.716	4.6250	117.000	7.2500	184.000	0.2410	0.4375
SSTLT99	0.4252	*	*	10.800	4.6250	117.000	7.2500	184.000	0.2410	0.4375
SSTLT100	0.4331	*	*	11.000	4.6250	117.000	7.2500	184.000	0.2410	0.4375
SSTLT101	0.4375	7/16	*	11.112	4.6250	117.000	7.2500	184.000	0.2410	0.4375
SSTLT102	0.4409	*	*	11.200	4.7500	121.000	7.5000	190.000	0.2410	0.4375
SSTLT103	0.4528	*	*	11.500	4.7500	121.000	7.5000	190.000	0.2410	0.4375
SSTLT104	0.4531	29/64	*	11.509	4.7500	121.000	7.5000	190.000	0.2410	0.4375
SSTLT105	0.4646	*	*	11.800	4.7500	121.000	7.5000	190.000	0.2410	0.4375
SSTLT106	0.4688	15/32	*	11.908	4.7500	121.000	7.5000	190.000	0.2410	0.4375
SSTLT107	0.4724	*	*	12.000	4.7500	121.000	7.7500	197.000	0.3000	0.5000
SSTLT108	0.4803	*	*	12.200	4.7500	121.000	7.7500	197.000	0.3000	0.5000
SSTLT109	0.4844	31/64	*	12.304	4.7500	121.000	7.7500	197.000	0.3000	0.5000
SSTLT110	0.4921	*	*	12.500	4.7500	121.000	7.7500	197.000	0.3000	0.5000
SSTLT111	0.5000	1/2	*	12.700	4.7500	121.000	7.7500	197.000	0.3000	0.5000

## STANDARD TWIST DRILLS

### STRAIGHT SHANK TWIST DRILL - TAPER LENGTH - OVER 1/2 DIAMETER

#### Fractional and Metric Sizes



#### Generic Part Name: SSTLO

1. Corresponds to standard ANSI B94.11M-1979.
2. Enter values exactly as shown.
3. “\*” denotes a non-existent value.

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)	B Body Length	S Shank Length Min.	Neck Length Max.
SSTLO10	0.5039	*	12.800	4.7500	121.000	8.0000	203.000	4.8750	2.6250	0.500
SSTLO11	0.5118	*	13.000	4.7500	121.000	8.0000	203.000	4.8750	2.6250	0.500
SSTLO12	0.5156	33/64	13.096	4.7500	121.000	8.0000	203.000	4.8750	2.6250	0.500
SSTLO13	0.5197	*	13.200	4.7500	121.000	8.0000	203.000	4.8750	2.6250	0.500
SSTLO14	0.5312	17/32	13.492	4.7500	121.000	8.0000	203.000	4.8750	2.6250	0.500
SSTLO15	0.5315	*	13.500	4.7500	121.000	8.0000	203.000	4.8750	2.6250	0.500
SSTLO20	0.5433	*	13.800	4.8750	124.000	8.2500	210.000	5.0000	2.7500	0.500
SSTLO21	0.5469	35/64	13.891	4.8750	124.000	8.2500	210.000	5.0000	2.7500	0.500
SSTLO22	0.5512	*	14.000	4.8750	124.000	8.2500	210.000	5.0000	2.7500	0.500
SSTLO23	0.5610	*	14.250	4.8750	124.000	8.2500	210.000	5.0000	2.7500	0.500
SSTLO24	0.5625	9/16	14.288	4.8750	124.000	8.2500	210.000	5.0000	2.7500	0.500
SSTLO30	0.5709	*	14.500	4.8750	124.000	8.7500	222.000	5.0000	3.1250	0.625
SSTLO31	0.5781	37/64	14.684	4.8750	124.000	8.7500	222.000	5.0000	3.1250	0.625
SSTLO32	0.5807	*	14.750	4.8750	124.000	8.7500	222.000	5.0000	3.1250	0.625
SSTLO33	0.5906	*	15.000	4.8750	124.000	8.7500	222.000	5.0000	3.1250	0.625
SSTLO34	0.5938	19/32	15.083	4.8750	124.000	8.7500	222.000	5.0000	3.1250	0.625
SSTLO35	0.6004	*	15.250	4.8750	124.000	8.7500	222.000	5.0000	3.1250	0.625
SSTLO36	0.6094	39/64	15.479	4.8750	124.000	8.7500	222.000	5.0000	3.1250	0.625
SSTLO37	0.6102	*	15.500	4.8750	124.000	8.7500	222.000	5.0000	3.1250	0.625
SSTLO38	0.6201	*	15.750	4.8750	124.000	8.7500	222.000	5.0000	3.1250	0.625

## STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)	B Body Length	S Shank Length Min.	Neck Length Max.
SSTLO39	0.6250	5/8	15.875	4.8750	124.000	8.7500	222.000	5.0000	3.1250	0.625
SSTLO40	0.6299	*	16.000	5.1250	130.000	9.0000	228.000	5.2500	3.1250	0.625
SSTLO41	0.6398	*	16.250	5.1250	130.000	9.0000	228.000	5.2500	3.1250	0.625
SSTLO42	0.6406	41/64	16.271	5.1250	130.000	9.0000	228.000	5.2500	3.1250	0.625
SSTLO43	0.6496	*	16.500	5.1250	130.000	9.0000	228.000	5.2500	3.1250	0.625
SSTLO44	0.6562	21/32	16.667	5.1250	130.000	9.0000	228.000	5.2500	3.1250	0.625
SSTLO50	0.6594	*	16.750	5.3750	137.000	9.2500	235.000	5.5000	3.1250	0.625
SSTLO51	0.6693	*	17.000	5.3750	137.000	9.2500	235.000	5.5000	3.1250	0.625
SSTLO52	0.6719	43/64	17.066	5.3750	137.000	9.2500	235.000	5.5000	3.1250	0.625
SSTLO53	0.6791	*	71.250	5.3750	137.000	9.2500	235.000	5.5000	3.1250	0.625
SSTLO54	0.6875	11/16	17.462	5.3750	137.000	9.2500	235.000	5.5000	3.1250	0.625
SSTLO60	0.6890	*	17.500	5.6250	143.000	9.5000	241.000	5.7500	3.1250	0.625
SSTLO61	0.7031	45/64	17.859	5.6250	143.000	9.5000	241.000	5.7500	3.1250	0.625
SSTLO62	0.7087	*	18.000	5.6250	143.000	9.5000	241.000	5.7500	3.1250	0.625
SSTLO63	0.7188	23/32	18.258	5.6250	143.000	9.5000	241.000	5.7500	3.1250	0.625
SSTLO70	0.7283	*	18.500	5.8750	149.000	9.7500	247.000	6.0000	3.1250	0.625
SSTLO71	0.7344	47/64	18.654	5.8750	149.000	9.7500	247.000	6.0000	3.1250	0.625
SSTLO72	0.7480	*	19.000	5.8750	149.000	9.7500	247.000	6.0000	3.1250	0.625
SSTLO73	0.7500	3/4	19.050	5.8750	149.000	9.7500	247.000	6.0000	3.1250	0.625
SSTLO80	0.7656	49/64	19.446	6.0000	152.000	9.8750	251.000	6.1250	3.1250	0.625
SSTLO81	0.7677	*	19.500	6.0000	152.000	9.8750	251.000	6.1250	3.1250	0.625
SSTLO82	0.7812	25/32	19.842	6.0000	152.000	9.8750	251.000	6.1250	3.1250	0.625
SSTLO900	0.7874	*	20.000	6.1250	156.000	10.0000	254.000	6.2500	3.1250	0.625
SSTLO901	0.7969	51/64	20.241	6.1250	156.000	10.0000	254.000	6.2500	3.1250	0.625
SSTLO902	0.8071	*	20.500	6.1250	156.000	10.0000	254.000	6.2500	3.1250	0.625
SSTLO903	0.8125	13/16	20.638	6.1250	156.000	10.0000	254.000	6.2500	3.1250	0.625
SSTLO904	0.8268	*	21.000	6.1250	156.000	10.0000	254.000	6.2500	3.1250	0.625
SSTLO905	0.8281	53/64	21.034	6.1250	156.000	10.0000	254.000	6.2500	3.1250	0.625
SSTLO906	0.8438	27/32	21.433	6.1250	156.000	10.0000	254.000	6.2500	3.1250	0.625
SSTLO907	0.8465	*	21.500	6.1250	156.000	10.0000	254.000	6.2500	3.1250	0.625
SSTLO908	0.8594	55/64	21.829	6.1250	156.000	10.0000	254.000	6.2500	3.1250	0.625
SSTLO909	0.8661	*	22.000	6.1250	156.000	10.0000	254.000	6.2500	3.1250	0.625
SSTLO910	0.8750	7/8	22.225	6.1250	156.000	10.0000	254.000	6.2500	3.1250	0.625
SSTLO911	0.8858	*	22.500	6.1250	156.000	10.0000	254.000	6.2500	3.1250	0.625
SSTLO912	0.8906	57/64	22.621	6.1250	156.000	10.0000	254.000	6.2500	3.1250	0.625
SSTLO913	0.9055	*	23.000	6.1250	156.000	10.0000	254.000	6.2500	3.1250	0.625
SSTLO914	0.9062	29/32	23.017	6.1250	156.000	10.0000	254.000	6.2500	3.1250	0.625

## STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)	B Body Length	S Shank Length Min.	Neck Length Max.
SSTLO160	0.9219	59/64	23.416	6.1250	156.000	10.7500	273.000	6.2500	3.8750	0.625
SSTLO161	0.9252	*	23.500	6.1250	156.000	10.7500	273.000	6.2500	3.8750	0.625
SSTLO162	0.9375	15/16	23.812	6.1250	156.000	10.7500	273.000	6.2500	3.8750	0.625
SSTLO170	0.9449	*	24.000	6.3750	162.000	11.0000	279.000	6.5000	3.8750	0.625
SSTLO171	0.9531	61/64	24.209	6.3750	162.000	11.0000	279.000	6.5000	3.8750	0.625
SSTLO172	0.9646	*	24.500	6.3750	162.000	11.0000	279.000	6.5000	3.8750	0.625
SSTLO173	0.9688	31/32	24.608	6.3750	162.000	11.0000	279.000	6.5000	3.8750	0.625
SSTLO174	0.9843	*	25.000	6.3750	162.000	11.0000	279.000	6.5000	3.8750	0.625
SSTLO175	0.9844	63/64	25.004	6.3750	162.000	11.0000	279.000	6.5000	3.8750	0.625
SSTLO176	1.0000	1	25.400	6.3750	162.000	11.0000	279.000	6.5000	3.8750	0.625
SSTLO180	1.0039	*	25.500	6.5000	165.000	11.1250	282.000	6.6250	3.8750	0.625
SSTLO181	1.0156	1-1/64	25.796	6.5000	165.000	11.1250	282.000	6.6250	3.8750	0.625
SSTLO182	1.0236	*	26.000	6.5000	165.000	11.1250	282.000	6.6250	3.8750	0.625
SSTLO183	1.0312	1-1/32	26.192	6.5000	165.000	11.1250	282.000	6.6250	3.8750	0.625
SSTLO190	1.0433	*	26.560	6.6250	168.000	11.2500	286.000	6.7500	3.8750	0.625
SSTLO191	1.0469	1-3/64	26.591	6.6250	168.000	11.2500	286.000	6.7500	3.8750	0.625
SSTLO192	1.0625	1-1/16	26.988	6.6250	168.000	11.2500	286.000	6.7500	3.8750	0.625
SSTLO193	1.0630	*	27.000	6.6250	168.000	11.2500	286.000	6.7500	3.8750	0.625
SSTLO250	1.0781	1-5/64	27.384	6.8750	175.000	11.5000	292.000	7.0000	3.8750	0.625
SSTLO251	1.0827	*	27.500	6.8750	175.000	11.5000	292.000	7.0000	3.8750	0.625
SSTLO252	1.0938	1-3/32	27.783	6.8750	175.000	11.5000	292.000	7.0000	3.8750	0.625
SSTLO260	1.1024	*	28.000	7.1250	181.000	11.7500	298.000	7.2500	3.8750	0.625
SSTLO261	1.1094	1-7/64	28.179	7.1250	181.000	11.7500	298.000	7.2500	3.8750	0.625
SSTLO262	1.1220	*	28.500	7.1250	181.000	11.7500	298.000	7.2500	3.8750	0.625
SSTLO263	1.1250	1-1/8	28.575	7.1250	181.000	11.7500	298.000	7.2500	3.8750	0.625
SSTLO270	1.1406	1-9/64	28.971	7.2500	184.000	11.8750	301.000	7.3750	3.8750	0.625
SSTLO271	1.1417	*	29.000	7.2500	184.000	11.8750	301.000	7.3750	3.8750	0.625
SSTLO272	1.1562	1-5/32	29.367	7.2500	184.000	11.8750	301.000	7.3750	3.8750	0.625
SSTLO280	1.1614	*	29.500	7.3750	187.000	12.0000	305.000	7.5000	3.8750	0.625
SSTLO281	1.1719	1-11/64	29.766	7.3750	187.000	12.0000	305.000	7.5000	3.8750	0.625
SSTLO282	1.1811	*	30.000	7.3750	187.000	12.0000	305.000	7.5000	3.8750	0.625
SSTLO283	1.1875	1-3/16	30.162	7.3750	187.000	12.0000	305.000	7.5000	3.8750	0.625
SSTLO290	1.2008	*	30.500	7.5000	190.000	12.1250	308.000	7.6250	3.8750	0.625
SSTLO291	1.2031	1-13/64	30.559	7.5000	190.000	12.1250	308.000	7.6250	3.8750	0.625
SSTLO292	1.2188	1-7/32	30.958	7.5000	190.000	12.1250	308.000	7.6250	3.8750	0.625
SSTLO450	1.2205	*	31.000	7.8750	200.000	12.5000	317.000	8.0000	3.8750	0.625
SSTLO451	1.2344	1-15/64	31.354	7.8750	200.000	12.5000	317.000	8.0000	3.8750	0.625

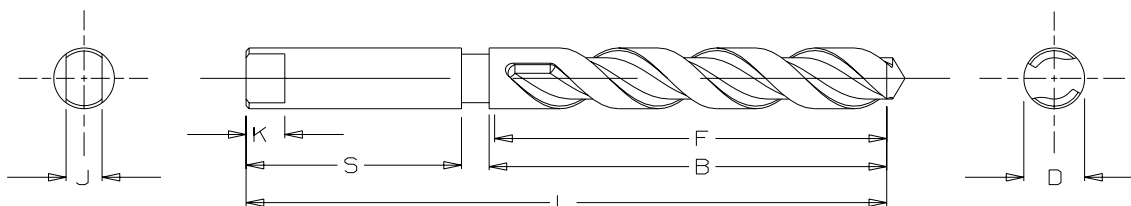
## STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)	B Body Length	S Shank Length Min.	Neck Length Max.
SSTLO452	1.2402	*	31.500	7.8750	200.000	12.5000	317.000	8.0000	3.8750	0.625
SSTLO453	1.2500	1-1/4	31.750	7.8750	200.000	12.5000	317.000	8.0000	3.8750	0.625
SSTLO460	1.2598	*	32.000	8.5000	216.000	14.1250	359.000	8.6250	4.8750	0.625
SSTLO461	1.2795	*	32.500	8.5000	216.000	14.1250	359.000	8.6250	4.8750	0.625
SSTLO462	1.2812	1-9/32	32.542	8.5000	216.000	14.1250	359.000	8.6250	4.8750	0.625
SSTLO463	1.2992	*	33.000	8.6250	219.000	14.2500	362.000	8.7500	4.8750	0.625
SSTLO464	1.3125	1-5/16	33.338	8.6250	219.000	14.2500	362.000	8.7500	4.8750	0.625
SSTLO470	1.3189	*	33.500	8.7500	222.000	14.3750	365.000	8.8750	4.8750	0.625
SSTLO471	1.3386	*	34.000	8.7500	222.000	14.3750	365.000	8.8750	4.8750	0.625
SSTLO472	1.3438	1-11/32	34.133	8.7500	222.000	14.3750	365.000	8.8750	4.8750	0.625
SSTLO480	1.3583	*	34.500	8.8750	225.000	14.5000	368.000	9.0000	4.8750	0.625
SSTLO481	1.3750	1-3/8	34.925	8.8750	225.000	14.5000	368.000	9.0000	4.8750	0.625
SSTLO490	1.3780	*	35.000	9.0000	229.000	14.6250	372.000	9.1250	4.8750	0.625
SSTLO491	1.3976	*	35.500	9.0000	229.000	14.6250	372.000	9.1250	4.8750	0.625
SSTLO492	1.4062	1-13/32	35.717	9.0000	229.000	14.6250	372.000	9.1250	4.8750	0.625
SSTLO550	1.4173	*	36.000	9.1250	232.000	14.7500	375.000	9.2500	4.8750	0.625
SSTLO551	1.4370	*	36.500	9.1250	232.000	14.7500	375.000	9.2500	4.8750	0.625
SSTLO552	1.4375	1-7/16	36.512	9.1250	232.000	14.7500	375.000	9.2500	4.8750	0.625
SSTLO553	1.4567	*	37.000	9.2500	235.000	14.8750	378.000	9.3750	4.8750	0.625
SSTLO554	1.4688	1-15/32	37.308	9.2500	235.000	14.8750	378.000	9.3750	4.8750	0.625
SSTLO560	1.4764	*	37.500	9.3750	238.000	15.0000	381.000	9.5000	4.8750	0.625
SSTLO561	1.4961	*	38.000	9.3750	238.000	15.0000	381.000	9.5000	4.8750	0.625
SSTLO562	1.5000	1-1/2	38.100	9.3750	238.000	15.0000	381.000	9.5000	4.8750	0.625
SSTLO563	1.5625	1-9/16	39.688	9.6250	244.000	15.2500	387.000	9.7500	4.8750	0.625
SSTLO564	1.6250	1-5/8	41.275	9.8750	251.000	15.6250	397.000	10.0000	4.8750	0.625
SSTLO565	1.7500	1-3/4	44.450	10.5000	267.000	16.2500	413.000	10.6250	4.8750	0.750

## STANDARD TWIST DRILLS

### STRAIGHT SHANK TWIST DRILL - TAPER LENGTH WITH TANG - OVER 1/2 DIAMETER

#### Fractional and Metric Sizes



#### Generic Part Name: SSTLOT

##### Notes:

1. Corresponds to standard ANSI B94.11M-1979.
2. Enter values exactly as shown.
3. “\*” denotes a non-existent value.

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)	B Body Length	S Shank Length Min.	Neck Length Max.	J Tang Thick.	K Tang Length
SSTLOT1	0.5039	*	12.800	4.7500	121.000	8.0000	203.000	4.8750	2.6250	0.500	0.3000	0.5000
SSTLOT2	0.5118	*	13.000	4.7500	121.000	8.0000	203.000	4.8750	2.6250	0.500	0.3000	0.5000
SSTLOT3	0.5156	33/64	13.096	4.7500	121.000	8.0000	203.000	4.8750	2.6250	0.500	0.3000	0.5000
SSTLOT4	0.5197	*	13.200	4.7500	121.000	8.0000	203.000	4.8750	2.6250	0.500	0.3000	0.5000
SSTLOT5	0.5312	17/32	13.492	4.7500	121.000	8.0000	203.000	4.8750	2.6250	0.500	0.3000	0.5000
SSTLOT6	0.5315	*	13.500	4.7500	121.000	8.0000	203.000	4.8750	2.6250	0.500	0.3000	0.5000
SSTLOT7	0.5433	*	13.800	4.8750	124.000	8.2500	210.000	5.0000	2.7500	0.500	0.3000	0.5000
SSTLOT8	0.5469	35/64	13.891	4.8750	124.000	8.2500	210.000	5.0000	2.7500	0.500	0.3000	0.5000
SSTLOT9	0.5512	*	14.000	4.8750	124.000	8.2500	210.000	5.0000	2.7500	0.500	0.3000	0.5000
SSTLOT10	0.5610	*	14.250	4.8750	124.000	8.2500	210.000	5.0000	2.7500	0.500	0.3000	0.5000
SSTLOT11	0.5625	9/16	14.288	4.8750	124.000	8.2500	210.000	5.0000	2.7500	0.500	0.3000	0.5000
SSTLOT12	0.5709	*	14.500	4.8750	124.000	8.7500	222.000	5.0000	3.1250	0.625	0.3700	0.5625
SSTLOT13	0.5781	37/64	14.684	4.8750	124.000	8.7500	222.000	5.0000	3.1250	0.625	0.3700	0.5625
SSTLOT14	0.5807	*	14.750	4.8750	124.000	8.7500	222.000	5.0000	3.1250	0.625	0.3700	0.5625
SSTLOT15	0.5906	*	15.000	4.8750	124.000	8.7500	222.000	5.0000	3.1250	0.625	0.3700	0.5625
SSTLOT16	0.5938	19/32	15.083	4.8750	124.000	8.7500	222.000	5.0000	3.1250	0.625	0.3700	0.5625
SSTLOT17	0.6004	*	15.250	4.8750	124.000	8.7500	222.000	5.0000	3.1250	0.625	0.3700	0.5625
SSTLOT18	0.6094	39/64	15.479	4.8750	124.000	8.7500	222.000	5.0000	3.1250	0.625	0.3700	0.5625
SSTLOT19	0.6102	*	15.500	4.8750	124.000	8.7500	222.000	5.0000	3.1250	0.625	0.3700	0.5625

## STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)	B Body Length	S Shank Length Min.	Neck Length Max.	J Tang Thick.	K Tang Length
SSTLOT20	0.6201	*	15.750	4.8750	124.000	8.7500	222.000	5.0000	3.1250	0.625	0.3700	0.5625
SSTLOT21	0.6250	5/8	15.875	4.8750	124.000	8.7500	222.000	5.0000	3.1250	0.625	0.3700	0.5625
SSTLOT22	0.6299	*	16.000	5.1250	130.000	9.0000	228.000	5.2500	3.1250	0.625	0.3700	0.5625
SSTLOT23	0.6398	*	16.250	5.1250	130.000	9.0000	228.000	5.2500	3.1250	0.625	0.3700	0.5625
SSTLOT24	0.6406	41/64	16.271	5.1250	130.000	9.0000	228.000	5.2500	3.1250	0.625	0.3700	0.5625
SSTLOT25	0.6496	*	16.500	5.1250	130.000	9.0000	228.000	5.2500	3.1250	0.625	0.3700	0.5625
SSTLOT26	0.6562	21/32	16.667	5.1250	130.000	9.0000	228.000	5.2500	3.1250	0.625	0.3700	0.5625
SSTLOT27	0.6594	*	16.750	5.3750	137.000	9.2500	235.000	5.5000	3.1250	0.625	0.4400	0.6250
SSTLOT28	0.6693	*	17.000	5.3750	137.000	9.2500	235.000	5.5000	3.1250	0.625	0.4400	0.6250
SSTLOT29	0.6719	43/64	17.066	5.3750	137.000	9.2500	235.000	5.5000	3.1250	0.625	0.4400	0.6250
SSTLOT30	0.6791	*	17.250	5.3750	137.000	9.2500	235.000	5.5000	3.1250	0.625	0.4400	0.6250
SSTLOT31	0.6875	11/16	17.462	5.3750	137.000	9.2500	235.000	5.5000	3.1250	0.625	0.4400	0.6250
SSTLOT32	0.6890	*	17.500	5.6250	143.000	9.5000	241.000	5.7500	3.1250	0.625	0.4400	0.6250
SSTLOT33	0.7031	45/64	17.859	5.6250	143.000	9.5000	241.000	5.7500	3.1250	0.625	0.4400	0.6250
SSTLOT34	0.7087	*	18.000	5.6250	143.000	9.5000	241.000	5.7500	3.1250	0.625	0.4400	0.6250
SSTLOT35	0.7188	23/32	18.258	5.6250	143.000	9.5000	241.000	5.7500	3.1250	0.625	0.4400	0.6250
SSTLOT36	0.7283	*	18.500	5.8750	149.000	9.7500	247.000	6.0000	3.1250	0.625	0.4400	0.6250
SSTLOT37	0.7344	47/64	18.654	5.8750	149.000	9.7500	247.000	6.0000	3.1250	0.625	0.4400	0.6250
SSTLOT38	0.7480	*	19.000	5.8750	149.000	9.7500	247.000	6.0000	3.1250	0.625	0.4400	0.6250
SSTLOT39	0.7500	3/4	19.050	5.8750	149.000	9.7500	247.000	6.0000	3.1250	0.625	0.4400	0.6250
SSTLOT40	0.7656	49/64	19.446	6.0000	152.000	9.8750	251.000	6.1250	3.1250	0.625	0.5110	0.6875
SSTLOT41	0.7677	*	19.500	6.0000	152.000	9.8750	251.000	6.1250	3.1250	0.625	0.5110	0.6875
SSTLOT42	0.7812	25/32	19.842	6.0000	152.000	9.8750	251.000	6.1250	3.1250	0.625	0.5110	0.6875
SSTLOT43	0.7874	*	20.000	6.1250	156.000	10.0000	254.000	6.2500	3.1250	0.625	0.5110	0.6875
SSTLOT44	0.7969	51/64	20.241	6.1250	156.000	10.0000	254.000	6.2500	3.1250	0.625	0.5110	0.6875
SSTLOT45	0.8071	*	20.500	6.1250	156.000	10.0000	254.000	6.2500	3.1250	0.625	0.5110	0.6875
SSTLOT46	0.8125	13/16	20.638	6.1250	156.000	10.0000	254.000	6.2500	3.1250	0.625	0.5110	0.6875
SSTLOT47	0.8268	*	21.000	6.1250	156.000	10.0000	254.000	6.2500	3.1250	0.625	0.5110	0.6875
SSTLOT48	0.8281	53/64	21.034	6.1250	156.000	10.0000	254.000	6.2500	3.1250	0.625	0.5110	0.6875
SSTLOT49	0.8438	27/32	21.433	6.1250	156.000	10.0000	254.000	6.2500	3.1250	0.625	0.5110	0.6875
SSTLOT50	0.8465	*	21.500	6.1250	156.000	10.0000	254.000	6.2500	3.1250	0.625	0.5110	0.6875
SSTLOT51	0.8594	55/64	21.829	6.1250	156.000	10.0000	254.000	6.2500	3.1250	0.625	0.5110	0.6875
SSTLOT52	0.8661	*	22.000	6.1250	156.000	10.0000	254.000	6.2500	3.1250	0.625	0.5110	0.6875
SSTLOT53	0.8750	7/8	22.225	6.1250	156.000	10.0000	254.000	6.2500	3.1250	0.625	0.5110	0.6875
SSTLOT54	0.8858	*	22.500	6.1250	156.000	10.0000	254.000	6.2500	3.1250	0.625	0.6050	0.7500
SSTLOT55	0.8906	57/64	22.621	6.1250	156.000	10.0000	254.000	6.2500	3.1250	0.625	0.6050	0.7500
SSTLOT56	0.9055	*	23.000	6.1250	156.000	10.0000	254.000	6.2500	3.1250	0.625	0.6050	0.7500

## STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)	B Body Length	S Shank Length Min.	Neck Length Max.	J Tang Thick.	K Tang Length
SSTLOT57	0.9062	29/32	23.017	6.1250	156.000	10.0000	254.000	6.2500	3.1250	0.625	0.6050	0.7500
SSTLOT58	0.9219	59/64	23.416	6.1250	156.000	10.7500	273.000	6.2500	3.8750	0.625	0.6050	0.7500
SSTLOT59	0.9252	*	23.500	6.1250	156.000	10.7500	273.000	6.2500	3.8750	0.625	0.6050	0.7500
SSTLOT60	0.9375	15/16	23.812	6.1250	156.000	10.7500	273.000	6.2500	3.8750	0.625	0.6050	0.7500
SSTLOT61	0.9449	*	24.000	6.3750	162.000	11.0000	279.000	6.5000	3.8750	0.625	0.6050	0.7500
SSTLOT62	0.9531	61/64	24.209	6.3750	162.000	11.0000	279.000	6.5000	3.8750	0.625	0.6050	0.7500
SSTLOT63	0.9646	*	24.500	6.3750	162.000	11.0000	279.000	6.5000	3.8750	0.625	0.6050	0.7500
SSTLOT64	0.9688	31/32	24.608	6.3750	162.000	11.0000	279.000	6.5000	3.8750	0.625	0.6050	0.7500
SSTLOT65	0.9843	*	25.000	6.3750	162.000	11.0000	279.000	6.5000	3.8750	0.625	0.6050	0.7500
SSTLOT66	0.9844	63/64	25.004	6.3750	162.000	11.0000	279.000	6.5000	3.8750	0.625	0.6050	0.7500
SSTLOT67	1.0000	1	25.400	6.3750	162.000	11.0000	279.000	6.5000	3.8750	0.625	0.6050	0.7500
SSTLOT68	1.0039	*	25.500	6.5000	165.000	11.1250	282.000	6.6250	3.8750	0.625	0.6960	0.8125
SSTLOT69	1.0156	1-1/64	25.796	6.5000	165.000	11.1250	282.000	6.6250	3.8750	0.625	0.6960	0.8125
SSTLOT70	1.0236	*	26.000	6.5000	165.000	11.1250	282.000	6.6250	3.8750	0.625	0.6960	0.8125
SSTLOT71	1.0312	1-1/32	26.192	6.5000	165.000	11.1250	282.000	6.6250	3.8750	0.625	0.6960	0.8125
SSTLOT72	1.0433	*	26.560	6.6250	168.000	11.2500	286.000	6.7500	3.8750	0.625	0.6960	0.8125
SSTLOT73	1.0469	1-3/64	26.591	6.6250	168.000	11.2500	286.000	6.7500	3.8750	0.625	0.6960	0.8125
SSTLOT74	1.0625	1-1/16	26.988	6.6250	168.000	11.2500	286.000	6.7500	3.8750	0.625	0.6960	0.8125
SSTLOT75	1.0630	*	27.000	6.6250	168.000	11.2500	286.000	6.7500	3.8750	0.625	0.6960	0.8125
SSTLOT76	1.0781	1-5/64	27.384	6.8750	175.000	11.5000	292.000	7.0000	3.8750	0.625	0.6960	0.8125
SSTLOT77	1.0827	*	27.500	6.8750	175.000	11.5000	292.000	7.0000	3.8750	0.625	0.6960	0.8125
SSTLOT78	1.0938	1-3/32	27.783	6.8750	175.000	11.5000	292.000	7.0000	3.8750	0.625	0.6960	0.8125
SSTLOT79	1.1024	*	28.000	7.1250	181.000	11.7500	298.000	7.2500	3.8750	0.625	0.6960	0.8125
SSTLOT80	1.1094	1-7/64	28.179	7.1250	181.000	11.7500	298.000	7.2500	3.8750	0.625	0.6960	0.8125
SSTLOT81	1.1220	*	28.500	7.1250	181.000	11.7500	298.000	7.2500	3.8750	0.625	0.6960	0.8125
SSTLOT82	1.1250	1-1/8	28.575	7.1250	181.000	11.7500	298.000	7.2500	3.8750	0.625	0.6960	0.8125
SSTLOT83	1.1406	1-9/64	28.971	7.2500	184.000	11.8750	301.000	7.3750	3.8750	0.625	0.6960	0.8125
SSTLOT84	1.1417	*	29.000	7.2500	184.000	11.8750	301.000	7.3750	3.8750	0.625	0.6960	0.8125
SSTLOT85	1.1562	1-5/32	29.367	7.2500	184.000	11.8750	301.000	7.3750	3.8750	0.625	0.6960	0.8125
SSTLOT86	1.1614	*	29.500	7.3750	187.000	12.0000	305.000	7.5000	3.8750	0.625	0.6960	0.8125
SSTLOT87	1.1719	1-11/64	29.766	7.3750	187.000	12.0000	305.000	7.5000	3.8750	0.625	0.6960	0.8125
SSTLOT88	1.1811	*	30.000	7.3750	187.000	12.0000	305.000	7.5000	3.8750	0.625	0.6960	0.8125
SSTLOT89	1.1875	1-3/16	30.162	7.3750	187.000	12.0000	305.000	7.5000	3.8750	0.625	0.6960	0.8125
SSTLOT90	1.2008	*	30.500	7.5000	190.000	12.1250	308.000	7.6250	3.8750	0.625	0.8130	0.8750
SSTLOT91	1.2031	1-13/64	30.559	7.5000	190.000	12.1250	308.000	7.6250	3.8750	0.625	0.8130	0.8750
SSTLOT92	1.2188	1-7/32	30.958	7.5000	190.000	12.1250	308.000	7.6250	3.8750	0.625	0.8130	0.8750
SSTLOT93	1.2205	*	31.000	7.8750	200.000	12.5000	317.000	8.0000	3.8750	0.625	0.8130	0.8750

## STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)	B Body Length	S Shank Length Min.	Neck Length Max.	J Tang Thick.	K Tang Length
SSTLOT94	1.2344	1-15/64	31.354	7.8750	200.000	12.5000	317.000	8.0000	3.8750	0.625	0.8130	0.8750
SSTLOT95	1.2402	*	31.500	7.8750	200.000	12.5000	317.000	8.0000	3.8750	0.625	0.8130	0.8750
SSTLOT96	1.2500	1-1/4	31.750	7.8750	200.000	12.5000	317.000	8.0000	3.8750	0.625	0.8130	0.8750
SSTLOT97	1.2598	*	32.000	8.5000	216.000	14.1250	359.000	8.6250	4.8750	0.625	0.8130	0.8750
SSTLOT98	1.2795	*	32.500	8.5000	216.000	14.1250	359.000	8.6250	4.8750	0.625	0.8130	0.8750
SSTLOT99	1.2812	1-9/32	32.542	8.5000	216.000	14.1250	359.000	8.6250	4.8750	0.625	0.8130	0.8750
SSTLOT100	1.2992	*	33.000	8.6250	219.000	14.2500	362.000	8.7500	4.8750	0.625	0.8130	0.8750
SSTLOT101	1.3125	1-5/16	33.338	8.6250	219.000	14.2500	362.000	8.7500	4.8750	0.625	0.8130	0.8750
SSTLOT102	1.3189	*	33.500	8.7500	222.000	14.3750	365.000	8.8750	4.8750	0.625	0.8130	0.8750
SSTLOT103	1.3386	*	34.000	8.7500	222.000	14.3750	365.000	8.8750	4.8750	0.625	0.8130	0.8750
SSTLOT104	1.3438	1-11/32	34.133	8.7500	222.000	14.3750	365.000	8.8750	4.8750	0.625	0.8130	0.8750
SSTLOT105	1.3583	*	34.500	8.8750	225.000	14.5000	368.000	9.0000	4.8750	0.625	0.8130	0.8750
SSTLOT106	1.3750	1-3/8	34.925	8.8750	225.000	14.5000	368.000	9.0000	4.8750	0.625	0.8130	0.8750

## STANDARD TWIST DRILLS

### STRAIGHT SHANK TWIST DRILL - SCREW MACHINE LENGTH - THROUGH 1 DIAMETER

Fractional, Number, Letter, and Metric Sizes



#### Generic Part Name: SSSML

##### Notes:

1. Corresponds to standard ANSI B94.11M-1979.
2. Enter values exactly as shown.
3. “\*” denotes a non-existent value.

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. No.	Drill Dia. Letter	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
SSSML1	0.0394	*	*	*	1.000	0.5000	13.000	1.3750	35.000
SSSML2	0.0400	*	60	*	1.016	0.5000	13.000	1.3750	35.000
SSSML3	0.0410	*	59	*	1.041	0.5000	13.000	1.3750	35.000
SSSML4	0.0413	*	*	*	1.050	0.5000	13.000	1.3750	35.000
SSSML5	0.0420	*	58	*	1.067	0.5000	13.000	1.3750	35.000
SSSML6	0.0430	*	57	*	1.092	0.5000	13.000	1.3750	35.000
SSSML7	0.0433	*	*	*	1.100	0.5000	13.000	1.3750	35.000
SSSML8	0.0453	*	*	*	1.150	0.5000	13.000	1.3750	35.000
SSSML9	0.0465	*	56	*	1.181	0.5000	13.000	1.3750	35.000
SSSML10	0.0469	3/64	*	*	1.191	0.5000	13.000	1.3750	35.000
SSSML11	0.0472	*	*	*	1.200	0.6250	16.000	1.6250	41.000
SSSML12	0.0492	*	*	*	1.250	0.6250	16.000	1.6250	41.000
SSSML13	0.0512	*	*	*	1.300	0.6250	16.000	1.6250	41.000
SSSML14	0.0520	*	55	*	1.321	0.6250	16.000	1.6250	41.000
SSSML15	0.0531	*	*	*	1.350	0.6250	16.000	1.6250	41.000
SSSML16	0.0550	*	54	*	1.397	0.6250	16.000	1.6250	41.000
SSSML17	0.0551	*	*	*	1.400	0.6250	16.000	1.6250	41.000
SSSML18	0.0571	*	*	*	1.450	0.6250	16.000	1.6250	41.000
SSSML19	0.0591	*	*	*	1.500	0.6250	16.000	1.6250	41.000
SSSML20	0.0595	*	53	*	1.511	0.6250	16.000	1.6250	41.000
SSSML21	0.0610	*	*	*	1.550	0.6250	16.000	1.6250	41.000

## STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. No.	Drill Dia. Letter	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
SSSML22	0.0625	1/16	*	*	1.588	0.6250	16.000	1.6250	41.000
SSSML23	0.0630	*	*	*	1.600	0.6875	17.000	1.6875	43.000
SSSML24	0.0635	*	52	*	1.613	0.6875	17.000	1.6875	43.000
SSSML25	0.0650	*	*	*	1.650	0.6875	17.000	1.6875	43.000
SSSML26	0.0669	*	*	*	1.700	0.6875	17.000	1.6875	43.000
SSSML27	0.0670	*	51	*	1.702	0.6875	17.000	1.6875	43.000
SSSML28	0.0689	*	*	*	1.750	0.6875	17.000	1.6875	43.000
SSSML29	0.0700	*	50	*	1.778	0.6875	17.000	1.6875	43.000
SSSML30	0.0709	*	*	*	1.800	0.6875	17.000	1.6875	43.000
SSSML31	0.0728	*	*	*	1.850	0.6875	17.000	1.6875	43.000
SSSML32	0.0730	*	49	*	1.859	0.6875	17.000	1.6875	43.000
SSSML33	0.0748	*	*	*	1.900	0.6875	17.000	1.6875	43.000
SSSML34	0.0760	*	48	*	1.930	0.6875	17.000	1.6875	43.000
SSSML35	0.0768	*	*	*	1.950	0.6875	17.000	1.6875	43.000
SSSML36	0.0781	5/64	*	*	1.984	0.6875	17.000	1.6875	43.000
SSSML37	0.0785	*	47	*	1.994	0.6875	17.000	1.6875	43.000
SSSML38	0.0787	*	*	*	2.000	0.6875	17.000	1.6875	43.000
SSSML39	0.0807	*	*	*	2.050	0.7500	19.000	1.7500	44.000
SSSML40	0.0810	*	46	*	2.057	0.7500	19.000	1.7500	44.000
SSSML41	0.0820	*	45	*	2.083	0.7500	19.000	1.7500	44.000
SSSML42	0.0827	*	*	*	2.100	0.7500	19.000	1.7500	44.000
SSSML43	0.0846	*	*	*	2.150	0.7500	19.000	1.7500	44.000
SSSML44	0.0860	*	44	*	2.184	0.7500	19.000	1.7500	44.000
SSSML45	0.0866	*	*	*	2.200	0.7500	19.000	1.7500	44.000
SSSML46	0.0886	*	*	*	2.250	0.7500	19.000	1.7500	44.000
SSSML47	0.0890	*	43	*	2.261	0.7500	19.000	1.7500	44.000
SSSML48	0.0906	*	*	*	2.300	0.7500	19.000	1.7500	44.000
SSSML49	0.0925	*	*	*	2.350	0.7500	19.000	1.7500	44.000
SSSML50	0.0935	*	42	*	2.375	0.7500	19.000	1.7500	44.000
SSSML51	0.0938	3/32	*	*	2.383	0.7500	19.000	1.7500	44.000
SSSML52	0.0945	*	*	*	2.400	0.8125	21.000	1.8125	46.000
SSSML53	0.0960	*	41	*	2.438	0.8125	21.000	1.8125	46.000
SSSML54	0.0965	*	*	*	2.450	0.8125	21.000	1.8125	46.000
SSSML55	0.0980	*	40	*	2.489	0.8125	21.000	1.8125	46.000
SSSML56	0.0984	*	*	*	2.500	0.8125	21.000	1.8125	46.000
SSSML57	0.0995	*	39	*	2.527	0.8125	21.000	1.8125	46.000
SSSML58	0.1015	*	38	*	2.578	0.8125	21.000	1.8125	46.000
SSSML59	0.1024	*	*	*	2.600	0.8125	21.000	1.8125	46.000

## STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. No.	Drill Dia. Letter	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
SSSML60	0.1040	*	37	*	2.642	0.8125	21.000	1.8125	46.000
SSSML61	0.1063	*	*	*	2.700	0.8125	21.000	1.8125	46.000
SSSML62	0.1065	*	36	*	2.705	0.8125	21.000	1.8125	46.000
SSSML63	0.1094	7/64	*	*	2.779	0.8125	21.000	1.8125	46.000
SSSML64	0.1100	*	35	*	2.794	0.8750	22.000	1.8750	48.000
SSSML65	0.1102	*	*	*	2.800	0.8750	22.000	1.8750	48.000
SSSML66	0.1110	*	34	*	2.819	0.8750	22.000	1.8750	48.000
SSSML67	0.1130	*	33	*	2.870	0.8750	22.000	1.8750	48.000
SSSML68	0.1142	*	*	*	2.900	0.8750	22.000	1.8750	48.000
SSSML69	0.1160	*	32	*	2.946	0.8750	22.000	1.8750	48.000
SSSML70	0.1181	*	*	*	3.000	0.8750	22.000	1.8750	48.000
SSSML71	0.1200	*	31	*	3.048	0.8750	22.000	1.8750	48.000
SSSML72	0.1220	*	*	*	3.100	0.8750	22.000	1.8750	48.000
SSSML73	0.1250	1/8	*	*	3.175	0.8750	22.000	1.8750	48.000
SSSML74	0.1260	*	*	*	3.200	0.9375	24.000	1.9375	49.000
SSSML75	0.1285	*	30	*	3.264	0.9375	24.000	1.9375	49.000
SSSML76	0.1299	*	*	*	3.300	0.9375	24.000	1.9375	49.000
SSSML77	0.1339	*	*	*	3.400	0.9375	24.000	1.9375	49.000
SSSML78	0.1360	*	29	*	3.454	0.9375	24.000	1.9375	49.000
SSSML79	0.1378	*	*	*	3.500	0.9375	24.000	1.9375	49.000
SSSML80	0.1405	*	28	*	3.569	0.9375	24.000	1.9375	49.000
SSSML81	0.1406	9/64	*	*	3.571	0.9375	24.000	1.9375	49.000
SSSML82	0.1417	*	*	*	3.600	1.0000	25.000	2.0625	52.000
SSSML83	0.1440	*	27	*	3.658	1.0000	25.000	2.0625	52.000
SSSML84	0.1457	*	*	*	3.700	1.0000	25.000	2.0625	52.000
SSSML85	0.1470	*	26	*	3.734	1.0000	25.000	2.0625	52.000
SSSML86	0.1495	*	25	*	3.797	1.0000	25.000	2.0625	52.000
SSSML87	0.1496	*	*	*	3.800	1.0000	25.000	2.0625	52.000
SSSML88	0.1520	*	24	*	3.861	1.0000	25.000	2.0625	52.000
SSSML89	0.1535	*	*	*	3.900	1.0000	25.000	2.0625	52.000
SSSML90	0.1540	*	23	*	3.912	1.0000	25.000	2.0625	52.000
SSSML91	0.1562	5/32	*	*	3.967	1.0000	25.000	2.0625	52.000
SSSML92	0.1570	*	22	*	3.988	1.0625	27.000	2.1250	54.000
SSSML93	0.1575	*	*	*	4.000	1.0625	27.000	2.1250	54.000
SSSML94	0.1590	*	21	*	4.039	1.0625	27.000	2.1250	54.000
SSSML95	0.1610	*	20	*	4.089	1.0625	27.000	2.1250	54.000
SSSML96	0.1614	*	*	*	4.100	1.0625	27.000	2.1250	54.000
SSSML97	0.1654	*	*	*	4.200	1.0625	27.000	2.1250	54.000

## STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. No.	Drill Dia. Letter	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
SSSML98	0.1660	*	19	*	4.216	1.0625	27.000	2.1250	54.000
SSSML99	0.1693	*	*	*	4.300	1.0625	27.000	2.1250	54.000
SSSML100	0.1695	*	18	*	4.306	1.0625	27.000	2.1250	54.000
SSSML101	0.1719	11/64	*	*	4.366	1.0625	27.000	2.1250	54.000
SSSML102	0.1730	*	17	*	4.394	1.1250	29.000	2.1875	56.000
SSSML103	0.1732	*	*	*	4.400	1.1250	29.000	2.1875	56.000
SSSML104	0.1770	*	16	*	4.496	1.1250	29.000	2.1875	56.000
SSSML105	0.1772	*	*	*	4.500	1.1250	29.000	2.1875	56.000
SSSML106	0.1800	*	15	*	4.572	1.1250	29.000	2.1875	56.000
SSSML107	0.1811	*	*	*	4.600	1.1250	29.000	2.1875	56.000
SSSML108	0.1820	*	14	*	4.623	1.1250	29.000	2.1875	56.000
SSSML109	0.1850	*	13	*	4.700	1.1250	29.000	2.1875	56.000
SSSML110	0.1875	3/16	*	*	4.762	1.1250	29.000	2.1875	56.000
SSSML111	0.1890	*	12	*	4.800	1.1875	30.000	2.2500	57.000
SSSML112	0.1910	*	11	*	4.851	1.1875	30.000	2.2500	57.000
SSSML113	0.1929	*	*	*	4.900	1.1875	30.000	2.2500	57.000
SSSML114	0.1935	*	10	*	4.915	1.1875	30.000	2.2500	57.000
SSSML115	0.1960	*	9	*	4.978	1.1875	30.000	2.2500	57.000
SSSML116	0.1969	*	*	*	5.000	1.1875	30.000	2.2500	57.000
SSSML117	0.1990	*	8	*	5.054	1.1875	30.000	2.2500	57.000
SSSML118	0.2008	*	*	*	5.100	1.1875	30.000	2.2500	57.000
SSSML119	0.2010	*	7	*	5.105	1.1875	30.000	2.2500	57.000
SSSML120	0.2031	13/64	*	*	5.159	1.1875	30.000	2.2500	57.000
SSSML121	0.2040	*	6	*	5.182	1.2500	32.000	2.3750	60.000
SSSML122	0.2047	*	*	*	5.200	1.2500	32.000	2.3750	60.000
SSSML123	0.2055	*	5	*	5.220	1.2500	32.000	2.3750	60.000
SSSML124	0.2087	*	*	*	5.300	1.2500	32.000	2.3750	60.000
SSSML125	0.2090	*	4	*	5.309	1.2500	32.000	2.3750	60.000
SSSML126	0.2126	*	*	*	5.400	1.2500	32.000	2.3750	60.000
SSSML127	0.2130	*	3	*	5.410	1.2500	32.000	2.3750	60.000
SSSML128	0.2165	*	*	*	5.500	1.2500	32.000	2.3750	60.000
SSSML129	0.2188	7/32	*	*	5.558	1.2500	32.000	2.3750	60.000
SSSML130	0.2205	*	*	*	5.600	1.3125	33.000	2.4375	62.000
SSSML131	0.2210	*	2	*	5.613	1.3125	33.000	2.4375	62.000
SSSML132	0.2244	*	*	*	5.700	1.3125	33.000	2.4375	62.000
SSSML133	0.2280	*	1	*	5.791	1.3125	33.000	2.4375	62.000
SSSML134	0.2283	*	*	*	5.800	1.3125	33.000	2.4375	62.000
SSSML135	0.2323	*	*	*	5.900	1.3125	33.000	2.4375	62.000

## STANDARD TWIST DRILLS

<b>Instance Name</b>	<b>D Cutter Dia.</b>	<b>Drill Dia. Frac.</b>	<b>Drill Dia. No.</b>	<b>Drill Dia. Letter</b>	<b>Drill Dia. (mm)</b>	<b>F Flute Length</b>	<b>Flute Length (mm)</b>	<b>L Tool Length</b>	<b>Overall Length (mm)</b>
SSSML136	0.2340	*	*	A	5.944	1.3125	33.000	2.4375	62.000
SSSML137	0.2344	15/64	*	*	5.954	1.3125	33.000	2.4375	62.000
SSSML138	0.2362	*	*	*	6.000	1.3750	35.000	2.5000	64.000
SSSML139	0.2380	*	*	B	6.045	1.3750	35.000	2.5000	64.000
SSSML140	0.2402	*	*	*	6.100	1.3750	35.000	2.5000	64.000
SSSML141	0.2420	*	*	C	6.147	1.3750	35.000	2.5000	64.000
SSSML142	0.2441	*	*	*	6.200	1.3750	35.000	2.5000	64.000
SSSML143	0.2460	*	*	D	6.248	1.3750	35.000	2.5000	64.000
SSSML144	0.2480	*	*	*	6.300	1.3750	35.000	2.5000	64.000
SSSML145	0.2500	1/4	*	E	6.350	1.3750	35.000	2.5000	64.000
SSSML146	0.2520	*	*	*	6.400	1.4375	37.000	2.6250	67.000
SSSML147	0.2559	*	*	*	6.500	1.4375	37.000	2.6250	67.000
SSSML148	0.2570	*	*	F	6.528	1.4375	37.000	2.6250	67.000
SSSML149	0.2598	*	*	*	6.600	1.4375	37.000	2.6250	67.000
SSSML150	0.2610	*	*	G	6.629	1.4375	37.000	2.6250	67.000
SSSML151	0.2638	*	*	*	6.700	1.4375	37.000	2.6250	67.000
SSSML152	0.2656	17/64	*	*	6.746	1.4375	37.000	2.6250	67.000
SSSML153	0.2660	*	*	H	6.756	1.5000	38.000	2.6875	68.000
SSSML154	0.2677	*	*	*	6.800	1.5000	38.000	2.6875	68.000
SSSML155	0.2717	*	*	*	6.900	1.5000	38.000	2.6875	68.000
SSSML156	0.2720	*	*	I	6.909	1.5000	38.000	2.6875	68.000
SSSML157	0.2756	*	*	*	7.000	1.5000	38.000	2.6875	68.000
SSSML158	0.2770	*	*	J	7.036	1.5000	38.000	2.6875	68.000
SSSML159	0.2795	*	*	*	7.100	1.5000	38.000	2.6875	68.000
SSSML160	0.2810	*	*	K	7.137	1.5000	38.000	2.6875	68.000
SSSML161	0.2812	9/32	*	*	7.142	1.5000	38.000	2.6875	68.000
SSSML162	0.2835	*	*	*	7.200	1.5625	40.000	2.7500	70.000
SSSML163	0.2874	*	*	*	7.300	1.5625	40.000	2.7500	70.000
SSSML164	0.2900	*	*	L	7.366	1.5625	40.000	2.7500	70.000
SSSML165	0.2913	*	*	*	7.400	1.5625	40.000	2.7500	70.000
SSSML166	0.2950	*	*	M	7.493	1.5625	40.000	2.7500	70.000
SSSML167	0.2953	*	*	*	7.500	1.5625	40.000	2.7500	70.000
SSSML168	0.2969	19/64	*	*	7.541	1.5625	40.000	2.7500	70.000
SSSML169	0.2992	*	*	*	7.600	1.6250	41.000	2.8125	71.000
SSSML170	0.3020	*	*	N	7.671	1.6250	41.000	2.8125	71.000
SSSML171	0.3031	*	*	*	7.700	1.6250	41.000	2.8125	71.000
SSSML172	0.3071	*	*	*	7.800	1.6250	41.000	2.8125	71.000
SSSML173	0.3110	*	*	*	7.900	1.6250	41.000	2.8125	71.000

## STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. No.	Drill Dia. Letter	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
SSSML174	0.3125	5/16	*	*	7.938	1.6250	41.000	2.8125	71.000
SSSML175	0.3150	*	*	*	8.000	1.6875	43.000	2.9375	75.000
SSSML176	0.3160	*	*	O	8.026	1.6875	43.000	2.9375	75.000
SSSML177	0.3189	*	*	*	8.100	1.6875	43.000	2.9375	75.000
SSSML178	0.3228	*	*	*	8.200	1.6875	43.000	2.9375	75.000
SSSML179	0.3230	*	*	P	8.204	1.6875	43.000	2.9375	75.000
SSSML180	0.3268	*	*	*	8.300	1.6875	43.000	2.9375	75.000
SSSML181	0.3281	21/64	*	*	8.334	1.6875	43.000	2.9375	75.000
SSSML1820	0.3307	*	*	*	8.400	1.6875	43.000	3.0000	76.000
SSSML1821	0.3320	*	*	Q	8.433	1.6875	43.000	3.0000	76.000
SSSML1822	0.3346	*	*	*	8.500	1.6875	43.000	3.0000	76.000
SSSML1823	0.3386	*	*	*	8.600	1.6875	43.000	3.0000	76.000
SSSML1824	0.3390	*	*	R	8.611	1.6875	43.000	3.0000	76.000
SSSML1825	0.3425	*	*	*	8.700	1.6875	43.000	3.0000	76.000
SSSML1826	0.3438	11/32	*	*	8.733	1.6875	43.000	3.0000	76.000
SSSML1830	0.3465	*	*	*	8.800	1.7500	44.000	3.0625	78.000
SSSML1831	0.3480	*	*	S	8.839	1.7500	44.000	3.0625	78.000
SSSML1832	0.3504	*	*	*	8.900	1.7500	44.000	3.0625	78.000
SSSML1833	0.3543	*	*	*	9.000	1.7500	44.000	3.0625	78.000
SSSML1834	0.3580	*	*	T	9.093	1.7500	44.000	3.0625	78.000
SSSML1835	0.3583	*	*	*	9.100	1.7500	44.000	3.0625	78.000
SSSML1836	0.3594	23/64	*	*	9.129	1.7500	44.000	3.0625	78.000
SSSML1840	0.3622	*	*	*	9.200	1.8125	46.000	3.1250	79.000
SSSML1841	0.3661	*	*	*	9.300	1.8125	46.000	3.1250	79.000
SSSML1842	0.3680	*	*	U	9.347	1.8125	46.000	3.1250	79.000
SSSML1843	0.3701	*	*	*	9.400	1.8125	46.000	3.1250	79.000
SSSML1844	0.3740	*	*	*	9.500	1.8125	46.000	3.1250	79.000
SSSML1845	0.3750	3/8	*	*	9.525	1.8125	46.000	3.1250	79.000
SSSML1850	0.3770	*	*	V	9.576	1.8750	48.000	3.2500	83.000
SSSML1851	0.3780	*	*	*	9.600	1.8750	48.000	3.2500	83.000
SSSML1852	0.3819	*	*	*	9.700	1.8750	48.000	3.2500	83.000
SSSML1853	0.3858	*	*	*	9.800	1.8750	48.000	3.2500	83.000
SSSML1854	0.3860	*	*	W	9.804	1.8750	48.000	3.2500	83.000
SSSML1855	0.3898	*	*	*	9.900	1.8750	48.000	3.2500	83.000
SSSML1856	0.3906	25/64	*	*	9.921	1.8750	48.000	3.2500	83.000
SSSML1860	0.3937	*	*	*	10.000	1.9375	49.000	3.3125	84.000
SSSML1861	0.3970	*	*	X	10.084	1.9375	49.000	3.3125	84.000
SSSML1862	0.4016	*	*	*	10.200	1.9375	49.000	3.3125	84.000

## STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. No.	Drill Dia. Letter	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
SSSML1863	0.4040	*	*	Y	10.262	1.9375	49.000	3.3125	84.000
SSSML1864	0.4062	13/32	*	*	10.320	1.9375	49.000	3.3125	84.000
SSSML1870	0.4130	*	*	Z	10.490	2.0000	51.000	3.3750	86.000
SSSML1871	0.4134	*	*	*	10.500	2.0000	51.000	3.3750	86.000
SSSML1872	0.4219	27/64	*	*	10.716	2.0000	51.000	3.3750	86.000
SSSML1880	0.4252	*	*	*	10.800	2.0625	52.000	3.4375	87.000
SSSML1881	0.4331	*	*	*	11.000	2.0625	52.000	3.4375	87.000
SSSML1882	0.4375	7/61	*	*	11.112	2.0625	52.000	3.4375	87.000
SSSML1890	0.4409	*	*	*	11.200	2.1250	54.000	3.5652	90.000
SSSML1891	0.4528	*	*	*	11.500	2.1250	54.000	3.5652	90.000
SSSML1892	0.4531	29/64	*	*	11.509	2.1250	54.000	3.5652	90.000
SSSML1893	0.4646	*	*	*	11.800	2.1250	54.000	3.6250	92.000
SSSML1894	0.4688	15/31	*	*	11.908	2.1250	54.000	3.6250	92.000
SSSML1900	0.4724	*	*	*	12.000	2.1875	56.000	3.6875	94.000
SSSML1901	0.4803	*	*	*	12.200	2.1875	56.000	3.6875	94.000
SSSML1902	0.4844	31/64	*	*	12.304	2.1875	56.000	3.6875	94.000
SSSML1910	0.4921	*	*	*	12.500	2.2500	57.000	3.7500	95.000
SSSML1911	0.5000	1/2	*	*	12.700	2.2500	57.000	3.7500	95.000
SSSML1920	0.5039	*	*	*	12.800	2.3750	60.000	3.8750	98.000
SSSML1921	0.5118	*	*	*	13.000	2.3750	60.000	3.8750	98.000
SSSML1922	0.5156	33/64	*	*	13.096	2.3750	60.000	3.8750	98.000
SSSML1923	0.5197	*	*	*	13.200	2.3750	60.000	3.8750	98.000
SSSML1924	0.5312	17/32	*	*	13.492	2.3750	60.000	3.8750	98.000
SSSML1925	0.5315	*	*	*	13.500	2.3750	60.000	3.8750	98.000
SSSML1930	0.5433	*	*	*	13.800	2.5000	64.000	4.0000	102.000
SSSML1931	0.5469	35/64	*	*	13.891	2.5000	64.000	4.0000	102.000
SSSML1932	0.5572	*	*	*	14.000	2.5000	64.000	4.0000	102.000
SSSML1933	0.5610	*	*	*	14.250	2.5000	64.000	4.0000	102.000
SSSML1934	0.5625	9/16	*	*	14.288	2.5000	64.000	4.0000	102.000
SSSML1940	0.5709	*	*	*	14.500	2.6250	67.000	4.1250	105.000
SSSML1941	0.5781	37/64	*	*	14.684	2.6250	67.000	4.1250	105.000
SSSML1942	0.5807	*	*	*	14.750	2.6250	67.000	4.1250	105.000
SSSML1943	0.5906	*	*	*	15.000	2.6250	67.000	4.1250	105.000
SSSML1944	0.5938	19/32	*	*	15.083	2.6250	67.000	4.1250	105.000
SSSML1950	0.6004	*	*	*	15.250	2.7500	70.000	4.2500	108.000
SSSML1951	0.6094	39/64	*	*	15.479	2.7500	70.000	4.2500	108.000
SSSML1952	0.6102	*	*	*	15.500	2.7500	70.000	4.2500	108.000
SSSML1953	0.6201	*	*	*	15.750	2.7500	70.000	4.2500	108.000

## STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. No.	Drill Dia. Letter	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
SSSML1954	0.6250	5/8	*	*	15.815	2.7500	70.000	4.2500	108.000
SSSML1960	0.6229	*	*	*	16.000	2.8750	73.000	4.5000	114.000
SSSML1961	0.6398	*	*	*	16.250	2.8750	73.000	4.5000	114.000
SSSML1962	0.6406	41/64	*	*	16.271	2.8750	73.000	4.5000	114.000
SSSML1963	0.6496	*	*	*	16.500	2.8750	73.000	4.5000	114.000
SSSML1964	0.6562	21/32	*	*	16.667	2.8750	73.000	4.5000	114.000
SSSML1965	0.6594	*	*	*	16.750	2.8750	73.000	4.5000	114.000
SSSML1966	0.6693	*	*	*	17.000	2.8750	73.000	4.5000	114.000
SSSML1967	0.6719	43/64	*	*	17.066	2.8750	73.000	4.5000	114.000
SSSML1968	0.6791	*	*	*	17.250	2.8750	73.000	4.5000	114.000
SSSML1969	0.6875	11/16	*	*	17.462	2.8750	73.000	4.5000	114.000
SSSML1970	0.6890	*	*	*	17.500	3.0000	76.000	4.7500	121.000
SSSML1971	0.7031	45/64	*	*	17.859	3.0000	76.000	4.7500	121.000
SSSML1972	0.7087	*	*	*	18.000	3.0000	76.000	4.7500	121.000
SSSML1973	0.7188	23/32	*	*	18.258	3.0000	76.000	4.7500	121.000
SSSML1980	0.7283	*	*	*	18.500	3.1250	79.000	5.0000	127.000
SSSML1981	0.7344	47/64	*	*	18.654	3.1250	79.000	5.0000	127.000
SSSML1982	0.7480	*	*	*	19.000	3.1250	79.000	5.0000	127.000
SSSML1983	0.7500	3/4	*	*	19.050	3.1250	79.000	5.0000	127.000
SSSML1990	0.7656	49/64	*	*	19.446	3.2500	83.000	5.1250	130.000
SSSML1991	0.7677	*	*	*	19.500	3.2500	83.000	5.1250	130.000
SSSML1992	0.7812	25/32	*	*	19.845	3.2500	83.000	5.1250	130.000
SSSML2000	0.7879	*	*	*	20.000	3.3750	86.000	5.2500	133.000
SSSML2001	0.7969	51/64	*	*	20.241	3.3750	86.000	5.2500	133.000
SSSML2002	0.8071	*	*	*	20.500	3.3750	86.000	5.2500	133.000
SSSML2003	0.8125	13/16	*	*	20.638	3.3750	86.000	5.2500	133.000
SSSML2010	0.8268	*	*	*	21.000	3.5000	89.000	5.3750	137.000
SSSML2011	0.8281	53/64	*	*	21.034	3.5000	89.000	5.3750	137.000
SSSML2012	0.8438	27/32	*	*	21.433	3.5000	89.000	5.3750	137.000
SSSML2013	0.8465	*	*	*	21.500	3.5000	89.000	5.3750	137.000
SSSML2014	0.8594	55/64	*	*	21.829	3.5000	89.000	5.3750	137.000
SSSML2015	0.8661	*	*	*	22.000	3.5000	89.000	5.3750	137.000
SSSML2016	0.8750	7/8	*	*	22.225	3.5000	89.000	5.3750	137.000
SSSML2020	0.8858	*	*	*	22.500	3.6250	92.000	5.6250	143.000
SSSML2021	0.8906	57/64	*	*	22.621	3.6250	92.000	5.6250	143.000
SSSML2022	0.9055	*	*	*	23.000	3.6250	92.000	5.6250	143.000
SSSML2023	0.9062	29/32	*	*	23.017	3.6250	92.000	5.6250	143.000
SSSML2030	0.9219	59/64	*	*	23.416	3.7500	95.000	5.7500	146.000

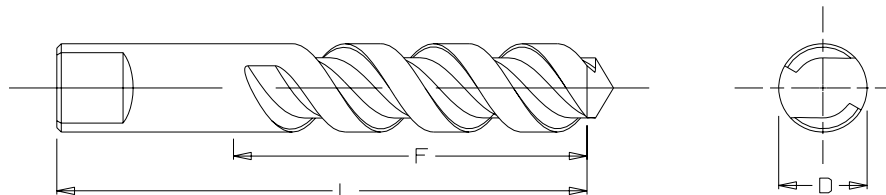
## STANDARD TWIST DRILLS

<b>Instance Name</b>	<b>D</b> Cutter Dia.	<b>Drill Dia.</b> <b>Frac.</b>	<b>Drill Dia.</b> <b>No.</b>	<b>Drill Dia.</b> <b>Letter</b>	<b>Drill Dia.</b> (mm)	<b>F</b> Flute Length	<b>Flute Length</b> (mm)	<b>L</b> Tool Length	<b>Overall Length</b> (mm)
SSSML2031	0.9252	*	*	*	23.500	3.7500	95.000	5.7500	146.000
SSSML2032	0.9375	15/16	*	*	23.812	3.7500	95.000	5.7500	146.000
SSSML2040	0.9449	*	*	*	24.000	3.8750	98.000	5.8750	149.000
SSSML2041	0.9531	61/64	*	*	24.209	3.8750	98.000	5.8750	149.000
SSSML2042	0.9646	*	*	*	24.500	3.8750	98.000	5.8750	149.000
SSSML2043	0.9688	31/32	*	*	24.608	3.8750	98.000	5.8750	149.000
SSSML2050	0.9843	*	*	*	25.000	4.0000	102.000	6.0000	152.000
SSSML2051	0.9844	63/64	*	*	25.004	4.0000	102.000	6.0000	152.000
SSSML2052	1.0000	1	*	*	25.400	4.0000	102.000	6.0000	152.000

## STANDARD TWIST DRILLS

### STRAIGHT SHANK TWIST DRILL - SCREW MACHINE LENGTH WITH TANGS - THROUGH 1 DIAMETER

Fractional, Number, Letter, and Metric Sizes



**Generic Part Name: SSSMLT**

**Notes:**

1. Corresponds to standard ANSI B94.11M-1979.
2. Enter values exactly as shown.
3. “\*” denotes a non-existent value.

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. No.	Drill Dia. Letter	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
SSSMLT1	0.1250	1/8	*	*	3.175	0.8750	22.000	1.8750	48.000
SSSMLT2	0.1260	*	*	*	3.200	0.9375	24.000	1.9375	49.000
SSSMLT3	0.1285	*	30	*	3.264	0.9375	24.000	1.9375	49.000
SSSMLT4	0.1299	*	*	*	3.300	0.9375	24.000	1.9375	49.000
SSSMLT5	0.1339	*	*	*	3.400	0.9375	24.000	1.9375	49.000
SSSMLT6	0.1360	*	29	*	3.454	0.9375	24.000	1.9375	49.000
SSSMLT7	0.1378	*	*	*	3.500	0.9375	24.000	1.9375	49.000
SSSMLT8	0.1405	*	28	*	3.569	0.9375	24.000	1.9375	49.000
SSSMLT9	0.1406	9/64	*	*	3.571	0.9375	24.000	1.9375	49.000
SSSMLT10	0.1417	*	*	*	3.600	1.0000	25.000	2.0625	52.000
SSSMLT11	0.1440	*	27	*	3.658	1.0000	25.000	2.0625	52.000
SSSMLT12	0.1457	*	*	*	3.700	1.0000	25.000	2.0625	52.000
SSSMLT13	0.1470	*	26	*	3.734	1.0000	25.000	2.0625	52.000
SSSMLT14	0.1495	*	25	*	3.797	1.0000	25.000	2.0625	52.000
SSSMLT15	0.1496	*	*	*	3.800	1.0000	25.000	2.0625	52.000
SSSMLT16	0.1520	*	24	*	3.861	1.0000	25.000	2.0625	52.000
SSSMLT17	0.1535	*	*	*	3.900	1.0000	25.000	2.0625	52.000
SSSMLT18	0.1540	*	23	*	3.912	1.0000	25.000	2.0625	52.000
SSSMLT19	0.1562	5/32	*	*	3.967	1.0000	25.000	2.0625	52.000
SSSMLT20	0.1570	*	22	*	3.988	1.0625	27.000	2.1250	54.000

## STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. No.	Drill Dia. Letter	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
SSSMLT21	0.1575	*	*	*	4.000	1.0625	27.000	2.1250	54.000
SSSMLT22	0.1590	*	21	*	4.039	1.0625	27.000	2.1250	54.000
SSSMLT23	0.1610	*	20	*	4.089	1.0625	27.000	2.1250	54.000
SSSMLT24	0.1614	*	*	*	4.100	1.0625	27.000	2.1250	54.000
SSSMLT25	0.1654	*	*	*	4.200	1.0625	27.000	2.1250	54.000
SSSMLT26	0.1660	*	19	*	4.216	1.0625	27.000	2.1250	54.000
SSSMLT27	0.1693	*	*	*	4.300	1.0625	27.000	2.1250	54.000
SSSMLT28	0.1695	*	18	*	4.306	1.0625	27.000	2.1250	54.000
SSSMLT29	0.1719	11/64	*	*	4.366	1.0625	27.000	2.1250	54.000
SSSMLT30	0.1730	*	17	*	4.394	1.1250	29.000	2.1875	56.000
SSSMLT31	0.1732	*	*	*	4.400	1.1250	29.000	2.1875	56.000
SSSMLT32	0.1770	*	16	*	4.496	1.1250	29.000	2.1875	56.000
SSSMLT33	0.1772	*	*	*	4.500	1.1250	29.000	2.1875	56.000
SSSMLT34	0.1800	*	15	*	4.572	1.1250	29.000	2.1875	56.000
SSSMLT35	0.1811	*	*	*	4.600	1.1250	29.000	2.1875	56.000
SSSMLT36	0.1820	*	14	*	4.623	1.1250	29.000	2.1875	56.000
SSSMLT37	0.1850	*	13	*	4.700	1.1250	29.000	2.1875	56.000
SSSMLT38	0.1875	3/16	*	*	4.762	1.1250	29.000	2.1875	56.000
SSSMLT39	0.1890	*	12	*	4.800	1.1875	30.000	2.2500	57.000
SSSMLT40	0.1910	*	11	*	4.851	1.1875	30.000	2.2500	57.000
SSSMLT41	0.1929	*	*	*	4.900	1.1875	30.000	2.2500	57.000
SSSMLT42	0.1935	*	10	*	4.915	1.1875	30.000	2.2500	57.000
SSSMLT43	0.1960	*	9	*	4.978	1.1875	30.000	2.2500	57.000
SSSMLT44	0.1969	*	*	*	5.000	1.1875	30.000	2.2500	57.000
SSSMLT45	0.1990	*	8	*	5.054	1.1875	30.000	2.2500	57.000
SSSMLT46	0.2008	*	*	*	5.100	1.1875	30.000	2.2500	57.000
SSSMLT47	0.2010	*	7	*	5.105	1.1875	30.000	2.2500	57.000
SSSMLT48	0.2031	13/64	*	*	5.159	1.1875	30.000	2.2500	57.000
SSSMLT49	0.2040	*	6	*	5.182	1.2500	32.000	2.3750	60.000
SSSMLT50	0.2047	*	*	*	5.200	1.2500	32.000	2.3750	60.000
SSSMLT51	0.2055	*	5	*	5.220	1.2500	32.000	2.3750	60.000
SSSMLT52	0.2087	*	*	*	5.300	1.2500	32.000	2.3750	60.000
SSSMLT53	0.2090	*	4	*	5.309	1.2500	32.000	2.3750	60.000
SSSMLT54	0.2126	*	*	*	5.400	1.2500	32.000	2.3750	60.000
SSSMLT55	0.2130	*	3	*	5.410	1.2500	32.000	2.3750	60.000
SSSMLT56	0.2165	*	*	*	5.500	1.2500	32.000	2.3750	60.000
SSSMLT57	0.2188	7/32	*	*	5.558	1.2500	32.000	2.3750	60.000
SSSMLT58	0.2205	*	*	*	5.600	1.3125	33.000	2.4375	62.000

## STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. No.	Drill Dia. Letter	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
SSSMLT59	0.2210	*	2	*	5.613	1.3125	33.000	2.4375	62.000
SSSMLT60	0.2244	*	*	*	5.700	1.3125	33.000	2.4375	62.000
SSSMLT61	0.2280	*	1	*	5.791	1.3125	33.000	2.4375	62.000
SSSMLT62	0.2283	*	*	*	5.800	1.3125	33.000	2.4375	62.000
SSSMLT63	0.2323	*	*	*	5.900	1.3125	33.000	2.4375	62.000
SSSMLT64	0.2340	*	*	A	5.944	1.3125	33.000	2.4375	62.000
SSSMLT65	0.2344	15/64	*	*	5.954	1.3125	33.000	2.4375	62.000
SSSMLT66	0.2362	*	*	*	6.000	1.3750	35.000	2.5000	64.000
SSSMLT67	0.2380	*	*	B	6.045	1.3750	35.000	2.5000	64.000
SSSMLT68	0.2402	*	*	*	6.100	1.3750	35.000	2.5000	64.000
SSSMLT69	0.2420	*	*	C	6.147	1.3750	35.000	2.5000	64.000
SSSMLT70	0.2441	*	*	*	6.200	1.3750	35.000	2.5000	64.000
SSSMLT71	0.2460	*	*	D	6.248	1.3750	35.000	2.5000	64.000
SSSMLT72	0.2480	*	*	*	6.300	1.3750	35.000	2.5000	64.000
SSSMLT73	0.2500	1/4	*	E	6.350	1.3750	35.000	2.5000	64.000
SSSMLT74	0.2520	*	*	*	6.400	1.4375	37.000	2.6250	67.000
SSSMLT75	0.2559	*	*	*	6.500	1.4375	37.000	2.6250	67.000
SSSMLT76	0.2570	*	*	F	6.528	1.4375	37.000	2.6250	67.000
SSSMLT77	0.2598	*	*	*	6.600	1.4375	37.000	2.6250	67.000
SSSMLT78	0.2610	*	*	G	6.629	1.4375	37.000	2.6250	67.000
SSSMLT79	0.2638	*	*	*	6.700	1.4375	37.000	2.6250	67.000
SSSMLT80	0.2656	17/64	*	*	6.746	1.4375	37.000	2.6250	67.000
SSSMLT81	0.2660	*	*	H	6.756	1.5000	38.000	2.6875	68.000
SSSMLT82	0.2677	*	*	*	6.800	1.5000	38.000	2.6875	68.000
SSSMLT83	0.2717	*	*	*	6.900	1.5000	38.000	2.6875	68.000
SSSMLT84	0.2720	*	*	I	6.909	1.5000	38.000	2.6875	68.000
SSSMLT85	0.2756	*	*	*	7.000	1.5000	38.000	2.6875	68.000
SSSMLT86	0.2770	*	*	J	7.036	1.5000	38.000	2.6875	68.000
SSSMLT87	0.2795	*	*	*	7.100	1.5000	38.000	2.6875	68.000
SSSMLT88	0.2810	*	*	K	7.137	1.5000	38.000	2.6875	68.000
SSSMLT89	0.2812	9/32	*	*	7.142	1.5000	38.000	2.6875	68.000
SSSMLT90	0.2835	*	*	*	7.200	1.5625	40.000	2.7500	70.000
SSSMLT91	0.2874	*	*	*	7.300	1.5625	40.000	2.7500	70.000
SSSMLT92	0.2900	*	*	L	7.366	1.5625	40.000	2.7500	70.000
SSSMLT93	0.2913	*	*	*	7.400	1.5625	40.000	2.7500	70.000
SSSMLT94	0.2950	*	*	M	7.493	1.5625	40.000	2.7500	70.000
SSSMLT95	0.2953	*	*	*	7.500	1.5625	40.000	2.7500	70.000
SSSMLT96	0.2969	19/64	*	*	7.541	1.5625	40.000	2.7500	70.000

## STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. No.	Drill Dia. Letter	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
SSSMLT97	0.2992	*	*	*	7.600	1.6250	41.000	2.8125	71.000
SSSMLT98	0.3020	*	*	N	7.671	1.6250	41.000	2.8125	71.000
SSSMLT99	0.3031	*	*	*	7.700	1.6250	41.000	2.8125	71.000
SSSMLT100	0.3071	*	*	*	7.800	1.6250	41.000	2.8125	71.000
SSSMLT101	0.3110	*	*	*	7.900	1.6250	41.000	2.8125	71.000
SSSMLT102	0.3125	5/16	*	*	7.938	1.6250	41.000	2.8125	71.000
SSSMLT103	0.3150	*	*	*	8.000	1.6875	43.000	2.9375	75.000
SSSMLT104	0.3160	*	*	O	8.026	1.6875	43.000	2.9375	75.000
SSSMLT105	0.3189	*	*	*	8.100	1.6875	43.000	2.9375	75.000
SSSMLT106	0.3228	*	*	*	8.200	1.6875	43.000	2.9375	75.000
SSSMLT107	0.3230	*	*	P	8.204	1.6875	43.000	2.9375	75.000
SSSMLT108	0.3268	*	*	*	8.300	1.6875	43.000	2.9375	75.000
SSSMLT109	0.3281	21/64	*	*	8.334	1.6875	43.000	2.9375	75.000
SSSMLT110	0.3307	*	*	*	8.400	1.6875	43.000	3.0000	76.000
SSSMLT111	0.3320	*	*	Q	8.433	1.6875	43.000	3.0000	76.000
SSSMLT112	0.3346	*	*	*	8.500	1.6875	43.000	3.0000	76.000
SSSMLT113	0.3386	*	*	*	8.600	1.6875	43.000	3.0000	76.000
SSSMLT114	0.3390	*	*	R	8.611	1.6875	43.000	3.0000	76.000
SSSMLT115	0.3425	*	*	*	8.700	1.6875	43.000	3.0000	76.000
SSSMLT116	0.3438	11/32	*	*	8.733	1.6875	43.000	3.0000	76.000
SSSMLT117	0.3465	*	*	*	8.800	1.7500	44.000	3.0625	78.000
SSSMLT118	0.3480	*	*	S	8.839	1.7500	44.000	3.0625	78.000
SSSMLT119	0.3504	*	*	*	8.900	1.7500	44.000	3.0625	78.000
SSSMLT120	0.3543	*	*	*	9.000	1.7500	44.000	3.0625	78.000
SSSMLT121	0.3580	*	*	T	9.093	1.7500	44.000	3.0625	78.000
SSSMLT122	0.3583	*	*	*	9.100	1.7500	44.000	3.0625	78.000
SSSMLT123	0.3594	23/64	*	*	9.129	1.7500	44.000	3.0625	78.000
SSSMLT124	0.3622	*	*	*	9.200	1.8125	46.000	3.1250	79.000
SSSMLT125	0.3661	*	*	*	9.300	1.8125	46.000	3.1250	79.000
SSSMLT126	0.3680	*	*	U	9.347	1.8125	46.000	3.1250	79.000
SSSMLT127	0.3701	*	*	*	9.400	1.8125	46.000	3.1250	79.000
SSSMLT128	0.3740	*	*	*	9.500	1.8125	46.000	3.1250	79.000
SSSMLT129	0.3750	3/8	*	*	9.525	1.8125	46.000	3.1250	79.000
SSSMLT130	0.3770	*	*	V	9.576	1.8750	48.000	3.2500	83.000
SSSMLT131	0.3780	*	*	*	9.600	1.8750	48.000	3.2500	83.000
SSSMLT132	0.3819	*	*	*	9.700	1.8750	48.000	3.2500	83.000
SSSMLT133	0.3858	*	*	*	9.800	1.8750	48.000	3.2500	83.000
SSSMLT134	0.3860	*	*	W	9.804	1.8750	48.000	3.2500	83.000

## STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. No.	Drill Dia. Letter	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
SSSMLT135	0.3898	*	*	*	9.900	1.8750	48.000	3.2500	83.000
SSSMLT136	0.3906	25/64	*	*	9.921	1.8750	48.000	3.2500	83.000
SSSMLT137	0.3937	*	*	*	10.000	1.9375	49.000	3.3125	84.000
SSSMLT138	0.3970	*	*	X	10.084	1.9375	49.000	3.3125	84.000
SSSMLT139	0.4016	*	*	*	10.200	1.9375	49.000	3.3125	84.000
SSSMLT140	0.4040	*	*	Y	10.262	1.9375	49.000	3.3125	84.000
SSSMLT141	0.4062	13/32	*	*	10.320	1.9375	49.000	3.3125	84.000
SSSMLT142	0.4130	*	*	Z	10.490	2.0000	51.000	3.3750	86.000
SSSMLT143	0.4134	*	*	*	10.500	2.0000	51.000	3.3750	86.000
SSSMLT144	0.4219	27/64	*	*	10.716	2.0000	51.000	3.3750	86.000
SSSMLT145	0.4252	*	*	*	10.800	2.0625	52.000	3.4375	87.000
SSSMLT146	0.4331	*	*	*	11.000	2.0625	52.000	3.4375	87.000
SSSMLT147	0.4375	7/61	*	*	11.112	2.0625	52.000	3.4375	87.000
SSSMLT148	0.4409	*	*	*	11.200	2.1250	54.000	3.5652	90.000
SSSMLT149	0.4528	*	*	*	11.500	2.1250	54.000	3.5652	90.000
SSSMLT150	0.4531	29/64	*	*	11.509	2.1250	54.000	3.5652	90.000
SSSMLT151	0.4646	*	*	*	11.800	2.1250	54.000	3.6250	92.000
SSSMLT152	0.4688	15/31	*	*	11.908	2.1250	54.000	3.6250	92.000
SSSMLT153	0.4724	*	*	*	12.000	2.1875	56.000	3.6875	94.000
SSSMLT154	0.4803	*	*	*	12.200	2.1875	56.000	3.6875	94.000
SSSMLT155	0.4844	31/64	*	*	12.304	2.1875	56.000	3.6875	94.000
SSSMLT156	0.4921	*	*	*	12.500	2.2500	57.000	3.7500	95.000
SSSMLT157	0.5000	1/2	*	*	12.700	2.2500	57.000	3.7500	95.000
SSSMLT158	0.5039	*	*	*	12.800	2.3750	60.000	3.8750	98.000
SSSMLT159	0.5118	*	*	*	13.000	2.3750	60.000	3.8750	98.000
SSSMLT160	0.5156	33/64	*	*	13.096	2.3750	60.000	3.8750	98.000
SSSMLT161	0.5197	*	*	*	13.200	2.3750	60.000	3.8750	98.000
SSSMLT162	0.5312	17/32	*	*	13.492	2.3750	60.000	3.8750	98.000
SSSMLT163	0.5315	*	*	*	13.500	2.3750	60.000	3.8750	98.000
SSSMLT164	0.5433	*	*	*	13.800	2.5000	64.000	4.0000	102.000
SSSMLT165	0.5469	35/64	*	*	13.891	2.5000	64.000	4.0000	102.000
SSSMLT166	0.5572	*	*	*	14.000	2.5000	64.000	4.0000	102.000
SSSMLT167	0.5610	*	*	*	14.250	2.5000	64.000	4.0000	102.000
SSSMLT168	0.5625	9/16	*	*	14.288	2.5000	64.000	4.0000	102.000
SSSMLT169	0.5709	*	*	*	14.500	2.6250	67.000	4.1250	105.000
SSSMLT170	0.5781	37/64	*	*	14.684	2.6250	67.000	4.1250	105.000
SSSMLT171	0.5807	*	*	*	14.750	2.6250	67.000	4.1250	105.000
SSSMLT172	0.5906	*	*	*	15.000	2.6250	67.000	4.1250	105.000

## STANDARD TWIST DRILLS

Instance Name	D Cutter Dia.	Drill Dia. Frac.	Drill Dia. No.	Drill Dia. Letter	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
SSSMLT173	0.5938	19/32	*	*	15.083	2.6250	67.000	4.1250	105.000
SSSMLT174	0.6004	*	*	*	15.250	2.7500	70.000	4.2500	108.000
SSSMLT175	0.6094	39/64	*	*	15.479	2.7500	70.000	4.2500	108.000
SSSMLT176	0.6102	*	*	*	15.500	2.7500	70.000	4.2500	108.000
SSSMLT177	0.6201	*	*	*	15.750	2.7500	70.000	4.2500	108.000
SSSMLT178	0.6250	5/8	*	*	15.815	2.7500	70.000	4.2500	108.000
SSSMLT179	0.6229	*	*	*	16.000	2.8750	73.000	4.5000	114.000
SSSMLT180	0.6398	*	*	*	16.250	2.8750	73.000	4.5000	114.000
SSSMLT181	0.6406	41/64	*	*	16.271	2.8750	73.000	4.5000	114.000
SSSMLT182	0.6496	*	*	*	16.500	2.8750	73.000	4.5000	114.000
SSSMLT183	0.6562	21/32	*	*	16.667	2.8750	73.000	4.5000	114.000
SSSMLT184	0.6594	*	*	*	16.750	2.8750	73.000	4.5000	114.000
SSSMLT185	0.6693	*	*	*	17.000	2.8750	73.000	4.5000	114.000
SSSMLT186	0.6719	43/64	*	*	17.066	2.8750	73.000	4.5000	114.000
SSSMLT187	0.6791	*	*	*	17.250	2.8750	73.000	4.5000	114.000
SSSMLT188	0.6875	11/16	*	*	17.462	2.8750	73.000	4.5000	114.000
SSSMLT189	0.6890	*	*	*	17.500	3.0000	76.000	4.7500	121.000
SSSMLT190	0.7031	45/64	*	*	17.859	3.0000	76.000	4.7500	121.000
SSSMLT191	0.7087	*	*	*	18.000	3.0000	76.000	4.7500	121.000
SSSMLT192	0.7188	23/32	*	*	18.258	3.0000	76.000	4.7500	121.000
SSSMLT193	0.7283	*	*	*	18.500	3.1250	79.000	5.0000	127.000
SSSMLT194	0.7344	47/64	*	*	18.654	3.1250	79.000	5.0000	127.000
SSSMLT195	0.7480	*	*	*	19.000	3.1250	79.000	5.0000	127.000
SSSMLT196	0.7500	3/4	*	*	19.050	3.1250	79.000	5.0000	127.000
SSSMLT197	0.7656	49/64	*	*	19.446	3.2500	83.000	5.1250	130.000
SSSMLT198	0.7677	*	*	*	19.500	3.2500	83.000	5.1250	130.000
SSSMLT199	0.7812	25/32	*	*	19.845	3.2500	83.000	5.1250	130.000
SSSMLT200	0.7879	*	*	*	20.000	3.3750	86.000	5.2500	133.000
SSSMLT201	0.7969	51/64	*	*	20.241	3.3750	86.000	5.2500	133.000
SSSMLT202	0.8071	*	*	*	20.500	3.3750	86.000	5.2500	133.000
SSSMLT203	0.8125	13/16	*	*	20.638	3.3750	86.000	5.2500	133.000
SSSMLT204	0.8268	*	*	*	21.000	3.5000	89.000	5.3750	137.000
SSSMLT205	0.8281	53/64	*	*	21.034	3.5000	89.000	5.3750	137.000
SSSMLT206	0.8438	27/32	*	*	21.433	3.5000	89.000	5.3750	137.000
SSSMLT207	0.8465	*	*	*	21.500	3.5000	89.000	5.3750	137.000
SSSMLT208	0.8594	55/64	*	*	21.829	3.5000	89.000	5.3750	137.000
SSSMLT209	0.8661	*	*	*	22.000	3.5000	89.000	5.3750	137.000
SSSMLT210	0.8750	7/8	*	*	22.225	3.5000	89.000	5.3750	137.000

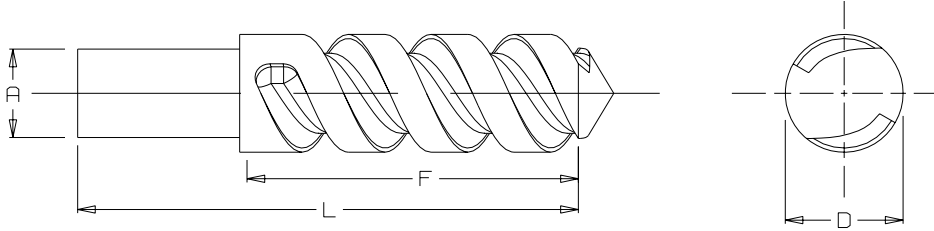
## STANDARD TWIST DRILLS

<b>Instance Name</b>	<b>D</b> Cutter Dia.	<b>Drill</b> <b>Dia.</b> <b>Frac.</b>	<b>Drill</b> <b>Dia.</b> <b>No.</b>	<b>Drill</b> <b>Dia.</b> <b>Letter</b>	<b>Drill</b> <b>Dia.</b> (mm)	<b>F</b> Flute Length	<b>Flute</b> <b>Length</b> (mm)	<b>L</b> Tool Length	<b>Overall</b> <b>Length</b> (mm)
SSSMLT211	0.8858	*	*	*	22.500	3.6250	92.000	5.6250	143.000
SSSMLT212	0.8906	57/64	*	*	22.621	3.6250	92.000	5.6250	143.000
SSSMLT213	0.9055	*	*	*	23.000	3.6250	92.000	5.6250	143.000
SSSMLT214	0.9062	29/32	*	*	23.017	3.6250	92.000	5.6250	143.000
SSSMLT215	0.9219	59/64	*	*	23.416	3.7500	95.000	5.7500	146.000
SSSMLT216	0.9252	*	*	*	23.500	3.7500	95.000	5.7500	146.000
SSSMLT217	0.9375	15/16	*	*	23.812	3.7500	95.000	5.7500	146.000
SSSMLT218	0.9449	*	*	*	24.000	3.8750	98.000	5.8750	149.000
SSSMLT219	0.9531	61/64	*	*	24.209	3.8750	98.000	5.8750	149.000
SSSMLT220	0.9646	*	*	*	24.500	3.8750	98.000	5.8750	149.000
SSSMLT221	0.9688	31/32	*	*	24.608	3.8750	98.000	5.8750	149.000
SSSMLT222	0.9843	*	*	*	25.000	4.0000	102.000	6.0000	152.000
SSSMLT223	0.9844	63/64	*	*	25.004	4.0000	102.000	6.0000	152.000
SSSMLT224	1.0000	1	*	*	25.400	4.0000	102.000	6.0000	152.000

## STANDARD TWIST DRILLS

### STRAIGHT SHANK TWIST DRILL - SCREW MACHINE LENGTH - OVER 1 DIAMETER

#### Fractional and Metric Sizes



#### Generic Part Name: SSTD

##### Notes:

1. Corresponds to standard ANSI B94.11M-1979.
2. Enter values exactly as shown.
3. "\*" denotes a non-existent value.

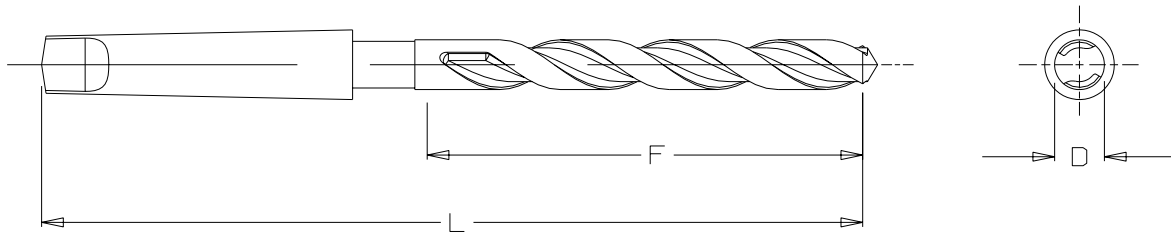
Instance Name	Drill Dia. Frac.	D Cutter Dia.	Drill Dia. (mm)	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)	A Shank Dia.	Shank Dia. (mm)
SSTD1	*	1.0039	25.500	4.0000	102.000	6.0000	152.000	0.9843	25.000
SSTD2	*	1.0236	26.000	4.0000	102.000	6.0000	152.000	0.9843	25.000
SSTD3	1-1/16	1.0625	26.988	4.0000	102.000	6.0000	152.000	1.0000	25.400
SSTD4	*	1.1024	28.000	4.0000	102.000	6.0000	152.000	0.9843	25.000
SSTD5	1-1/8	1.1250	28.575	4.0000	102.000	6.0000	152.000	1.0000	25.400
SSTD6	*	1.1811	30.000	4.2500	108.000	6.6250	168.000	0.9843	25.000
SSTD7	1-3/16	1.1875	30.162	4.2500	108.000	6.6250	168.000	1.0000	25.400
SSTD8	1-1/4	1.2500	31.750	4.3750	111.000	6.7500	171.000	1.0000	25.400
SSTD9	*	1.2598	32.000	4.3750	111.000	7.0000	178.000	1.2402	31.500
SSTD10	1-5/16	1.3125	33.338	4.3750	111.000	7.0000	178.000	1.2500	31.750
SSTD11	*	1.3386	34.000	4.5000	114.000	7.1250	181.000	1.2402	31.500
SSTD12	1-3/8	1.3750	34.925	4.5000	114.000	7.1250	181.000	1.2500	31.750
SSTD13	*	1.4173	36.000	4.7500	121.000	7.3750	187.000	1.2402	31.500
SSTD14	1-7/16	1.4375	36.512	4.7500	121.000	7.3750	187.000	1.2500	31.750
SSTD15	*	1.4961	38.000	4.8750	124.000	7.5000	190.000	1.2402	31.500
SSTD16	1-1/2	1.5000	38.100	4.8750	124.000	7.5000	190.000	1.2500	31.750
SSTD17	1-9/16	1.5625	39.688	4.8750	124.000	7.7500	197.000	1.3000	38.100
SSTD18	*	1.5748	40.000	4.8750	124.000	7.7500	197.000	1.4961	38.000
SSTD19	1-5/8	1.6250	41.275	4.8750	124.000	7.7500	197.000	1.5000	38.100

## STANDARD TWIST DRILLS

<b>Instance Name</b>	<b>Drill Dia. Frac.</b>	<b>D</b> Cutter Dia.	<b>Drill Dia. (mm)</b>	<b>F</b> Flute Length	<b>Flute Length (mm)</b>	<b>L</b> Tool Length	<b>Overall Length (mm)</b>	<b>A</b> Shank Dia.	<b>Shank Dia. (mm)</b>
SSTD20	*	1.6535	42.000	5.1250	130.000	8.0000	203.000	1.4961	38.000
SSTD21	1-11/16	1.6875	42.862	5.1250	130.000	8.0000	203.000	1.5000	38.100
SSTD22	*	1.7323	44.000	5.1250	130.000	8.0000	203.000	1.4961	38.000
SSTD23	1-3/4	1.7500	44.450	5.1250	130.000	8.0000	203.000	1.5000	38.100
SSTD24	*	1.8110	46.000	5.3750	137.000	8.2500	210.000	1.4961	38.000
SSTD25	1-13/16	1.8125	46.038	5.3750	137.000	8.2500	210.000	1.5000	38.100
SSTD26	1-7/8	1.8750	47.625	5.3750	137.000	8.2500	210.000	1.5000	38.100
SSTD27	*	1.8898	48.000	5.6250	143.000	8.5000	216.000	1.4961	38.000
SSTD28	1-15/16	1.9375	49.212	5.6250	143.000	8.5000	216.000	1.5000	38.100
SSTD29	*	1.9685	50.000	5.6250	143.000	8.5000	216.000	1.4961	38.000
SSTD30	2	2.0000	50.800	5.6250	143.000	8.5000	216.000	1.5000	38.100

## STANDARD TWIST DRILLS

### TAPER SHANK TWIST DRILL - REGULAR SHANK Fractional and Metric Sizes



#### Generic Part Name: TSDR

##### Notes:

1. Corresponds to standard ANSI B94.11M-1979.
2. Enter values exactly as shown.
3. “\*” denotes a non-existent value.

Instance Name	Drill Dia. Frac.	D Cutter Dia.	Drill Dia. (mm)	Morse Taper No.	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
TSDR1	*	0.1181	3.000	1.000	1.8750	48.000	5.1250	130.000
TSDR2	1/8	0.1250	3.175	1.000	1.8750	48.000	5.1250	130.000
TSDR3	*	0.1260	3.200	1.000	2.1250	54.000	5.3750	137.000
TSDR4	*	0.1378	3.500	1.000	2.1250	54.000	5.3750	137.000
TSDR5	9/64	0.1406	3.571	1.000	2.1250	54.000	5.3750	137.000
TSDR6	*	0.1496	3.800	1.000	2.1250	54.000	5.3750	137.000
TSDR7	5/32	0.1562	3.967	1.000	2.1250	54.000	5.3750	137.000
TSDR8	*	0.1575	4.000	1.000	2.5000	64.000	5.7500	146.000
TSDR9	*	0.1654	4.200	1.000	2.5000	64.000	5.7500	146.000
TSDR10	11/64	0.1719	4.366	1.000	2.5000	64.000	5.7500	146.000
TSDR11	*	0.1772	4.500	1.000	2.5000	64.000	5.7500	146.000
TSDR12	3/16	0.1875	4.762	1.000	2.5000	64.000	5.7500	146.000
TSDR13	*	0.1890	4.800	1.000	2.7500	70.000	6.0000	152.000
TSDR14	*	0.1969	5.000	1.000	2.7500	70.000	6.0000	152.000
TSDR15	13/64	0.2031	5.159	1.000	2.7500	70.000	6.0000	152.000
TSDR16	*	0.2047	5.200	1.000	2.7500	70.000	6.0000	152.000
TSDR17	*	0.2165	5.500	1.000	2.7500	70.000	6.0000	152.000
TSDR18	7/32	0.2188	5.558	1.000	2.7500	70.000	6.0000	152.000
TSDR19	*	0.2283	5.800	1.000	2.8750	73.000	6.1250	156.000
TSDR20	15/64	0.2344	5.954	1.000	2.8750	73.000	6.1250	156.000
TSDR21	*	0.2362	6.000	1.000	2.8750	73.000	6.1250	156.000
TSDR22	*	0.2441	6.200	1.000	2.8750	73.000	6.1250	156.000

## STANDARD TWIST DRILLS

Instance Name	Drill Dia. Frac.	D Cutter Dia.	Drill Dia. (mm)	Morse Taper No.	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
TSDR23	1/4	0.2500	6.350	1.000	2.8750	73.000	6.1250	156.000
TSDR24	*	0.2559	6.500	1.000	3.0000	76.000	6.2500	159.000
TSDR25	17/64	0.2656	6.746	1.000	3.0000	76.000	6.2500	159.000
TSDR26	*	0.2677	6.800	1.000	3.0000	76.000	6.2500	159.000
TSDR27	*	0.2756	7.000	1.000	3.0000	76.000	6.2500	159.000
TSDR28	9/32	0.2812	7.142	1.000	3.0000	76.000	6.2500	159.000
TSDR29	*	0.2835	7.200	1.000	3.1250	79.000	6.3750	162.000
TSDR30	*	0.2953	7.500	1.000	3.1250	79.000	6.3750	162.000
TSDR31	19/64	0.2969	7.541	1.000	3.1250	79.000	6.3750	162.000
TSDR32	*	0.3071	7.800	1.000	3.1250	79.000	6.3750	162.000
TSDR33	5/16	0.3125	7.938	1.000	3.1250	79.000	6.3750	162.000
TSDR34	*	0.3150	8.000	1.000	3.2500	83.000	6.5000	165.000
TSDR35	*	0.3228	8.200	1.000	3.2500	83.000	6.5000	165.000
TSDR36	21/64	0.3281	8.334	1.000	3.2500	83.000	6.5000	165.000
TSDR37	*	0.3346	8.500	1.000	3.2500	83.000	6.5000	165.000
TSDR38	11/32	0.3438	8.733	1.000	3.2500	83.000	6.5000	165.000
TSDR39	*	0.3465	8.800	1.000	3.5000	89.000	6.7500	171.000
TSDR40	*	0.3543	9.000	1.000	3.5000	89.000	6.7500	171.000
TSDR41	23/64	0.3594	9.129	1.000	3.5000	89.000	6.7500	171.000
TSDR42	*	0.3622	9.200	1.000	3.5000	89.000	6.7500	171.000
TSDR43	*	0.3740	9.500	1.000	3.5000	89.000	6.7500	171.000
TSDR44	3/8	0.3750	9.525	1.000	3.5000	89.000	6.7500	171.000
TSDR45	*	0.3858	9.800	1.000	3.6250	92.000	7.0000	178.000
TSDR46	25/64	0.3906	9.921	1.000	3.6250	92.000	7.0000	178.000
TSDR47	*	0.3937	10.000	1.000	3.6250	92.000	7.0000	178.000
TSDR48	*	0.4016	10.200	1.000	3.6250	92.000	7.0000	178.000
TSDR49	13/32	0.4062	10.320	1.000	3.6250	92.000	7.0000	178.000
TSDR50	*	0.4134	10.500	1.000	3.8750	98.000	7.2500	184.000
TSDR51	27/64	0.4219	10.716	1.000	3.8750	98.000	7.2500	184.000
TSDR52	*	0.4252	10.800	1.000	3.8750	98.000	7.2500	184.000
TSDR53	*	0.4331	11.000	1.000	3.8750	98.000	7.2500	184.000
TSDR54	7/16	0.4375	11.112	1.000	3.8750	98.000	7.2500	184.000
TSDR55	*	0.4409	11.200	1.000	4.1250	105.000	7.5000	190.000
TSDR56	*	0.4528	11.500	1.000	4.1250	105.000	7.5000	190.000
TSDR57	29/64	0.4531	11.509	1.000	4.1250	105.000	7.5000	190.000
TSDR58	*	0.4646	11.800	1.000	4.1250	105.000	7.5000	190.000
TSDR59	15/32	0.4688	11.900	1.000	4.1250	105.000	7.5000	190.000
TSDR60	*	0.4724	12.000	2.000	4.3750	111.000	8.2500	210.000

## STANDARD TWIST DRILLS

Instance Name	Drill Dia. Frac.	D Cutter Dia.	Drill Dia. (mm)	Morse Taper No.	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
TSDR61	*	0.4803	12.200	2.000	4.3750	111.000	8.2500	210.000
TSDR62	31/64	0.4844	12.304	2.000	4.3750	111.000	8.2500	210.000
TSDR63	*	0.4921	12.500	2.000	4.3750	111.000	8.2500	210.000
TSDR64	1/2	0.5000	12.700	2.000	4.3750	111.000	8.2500	210.000
TSDR65	*	0.5039	12.800	2.000	4.6250	117.000	8.5000	216.000
TSDR66	*	0.5118	13.000	2.000	4.6250	117.000	8.5000	216.000
TSDR67	33/64	0.5156	13.096	2.000	4.6250	117.000	8.5000	216.000
TSDR68	*	0.5197	13.200	2.000	4.6250	117.000	8.5000	216.000
TSDR69	17/32	0.5312	13.492	2.000	4.6250	117.000	8.5000	216.000
TSDR70	*	0.5315	13.500	2.000	4.6250	117.000	8.5000	216.000
TSDR71	*	0.5433	13.800	2.000	4.8750	124.000	8.7500	222.000
TSDR72	35/64	0.5469	13.891	2.000	4.8750	124.000	8.7500	222.000
TSDR73	*	0.5512	14.000	2.000	4.8750	124.000	8.7500	222.000
TSDR74	*	0.5610	14.250	2.000	4.8750	124.000	8.7500	222.000
TSDR75	9/16	0.5625	14.288	2.000	4.8750	124.000	8.7500	222.000
TSDR76	*	0.5709	14.500	2.000	4.8750	124.000	8.7500	222.000
TSDR77	37/64	0.5781	14.684	2.000	4.8750	124.000	8.7500	222.000
TSDR78	*	0.5807	14.750	2.000	4.8750	124.000	8.7500	222.000
TSDR79	*	0.5906	15.000	2.000	4.8750	124.000	8.7500	222.000
TSDR80	19/32	0.5938	15.083	2.000	4.8750	124.000	8.7500	222.000
TSDR81	*	0.6004	15.250	2.000	4.8750	124.000	8.7500	222.000
TSDR82	39/64	0.6094	15.479	2.000	4.8750	124.000	8.7500	222.000
TSDR83	*	0.6102	15.500	2.000	4.8750	124.000	8.7500	222.000
TSDR84	*	0.6201	15.750	2.000	4.8750	124.000	8.7500	222.000
TSDR85	5/8	0.6250	15.815	2.000	4.8750	124.000	8.7500	222.000
TSDR86	*	0.6299	16.000	2.000	5.1250	130.000	9.0000	229.000
TSDR87	*	0.6398	16.250	2.000	5.1250	130.000	9.0000	229.000
TSDR88	41/64	0.6406	16.271	2.000	5.1250	130.000	9.0000	229.000
TSDR89	*	0.6496	16.500	2.000	5.1250	130.000	9.0000	229.000
TSDR90	21/32	0.6562	16.667	2.000	5.1250	130.000	9.0000	229.000
TSDR91	*	0.6594	16.750	2.000	5.3750	137.000	9.2500	235.000
TSDR92	*	0.6693	17.000	2.000	5.3750	137.000	9.2500	235.000
TSDR93	43/64	0.6719	17.066	2.000	5.3750	137.000	9.2500	235.000
TSDR94	*	0.6791	17.250	2.000	5.3750	137.000	9.2500	235.000
TSDR95	11/16	0.6875	17.462	2.000	5.3750	137.000	9.2500	235.000
TSDR96	*	0.6880	17.500	2.000	5.6250	143.000	9.5000	241.000
TSDR97	43/64	0.7031	17.859	2.000	5.6250	143.000	9.5000	241.000
TSDR98	*	0.7087	18.000	2.000	5.6250	143.000	9.5000	241.000

## STANDARD TWIST DRILLS

Instance Name	Drill Dia. Frac.	D Cutter Dia.	Drill Dia. (mm)	Morse Taper No.	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
TSDR99	23/32	0.7188	18.258	2.000	5.6250	143.000	9.5000	241.000
TSDR100	*	0.7283	18.500	2.000	5.8750	149.000	9.7500	248.000
TSDR101	47/64	0.7344	18.654	2.000	5.8750	149.000	9.7500	248.000
TSDR102	*	0.7480	19.000	2.000	5.8750	149.000	9.7500	248.000
TSDR103	3/4	0.7500	19.050	2.000	5.8750	149.000	9.7500	248.000
TSDR104	49/64	0.7656	19.446	2.000	6.0000	152.000	9.8750	251.000
TSDR105	*	0.7677	19.500	2.000	6.0000	152.000	9.8750	251.000
TSDR106	25/32	0.7812	19.843	2.000	6.0000	152.000	9.8750	251.000
TSDR107	*	0.7821	20.000	3.000	6.1250	156.000	10.7500	273.000
TSDR108	51/64	0.7969	20.241	3.000	6.1250	156.000	10.7500	273.000
TSDR109	*	0.8071	20.500	3.000	6.1250	156.000	10.7500	273.000
TSDR110	13/16	0.8125	20.638	3.000	6.1250	156.000	10.7500	273.000
TSDR111	*	0.8268	21.000	3.000	6.1250	156.000	10.7500	273.000
TSDR112	53/64	0.8281	21.034	3.000	6.1250	156.000	10.7500	273.000
TSDR113	27/32	0.8438	21.433	3.000	6.1250	156.000	10.7500	273.000
TSDR114	*	0.8465	21.500	3.000	6.1250	156.000	10.7500	273.000
TSDR115	55/64	0.8594	21.829	3.000	6.1250	156.000	10.7500	273.000
TSDR116	*	0.8661	22.000	3.000	6.1250	156.000	10.7500	273.000
TSDR117	7/8	0.8750	22.225	3.000	6.1250	156.000	10.7500	273.000
TSDR118	*	0.8858	22.500	3.000	6.1250	156.000	10.7500	273.000
TSDR119	57/64	0.8906	22.621	3.000	6.1250	156.000	10.7500	273.000
TSDR120	*	0.9055	23.000	3.000	6.1250	156.000	10.7500	273.000
TSDR121	29/32	0.9062	23.017	3.000	6.1250	156.000	10.7500	273.000
TSDR122	59/64	0.9219	23.416	3.000	6.1250	156.000	10.7500	273.000
TSDR123	*	0.9252	23.500	3.000	6.1250	156.000	10.7500	273.000
TSDR124	15/16	0.9375	23.862	3.000	6.1250	156.000	10.7500	273.000
TSDR125	*	0.9449	24.000	3.000	6.3750	162.000	11.0000	279.000
TSDR126	61/64	0.9531	24.209	3.000	6.3750	162.000	11.0000	279.000
TSDR127	*	0.9646	24.500	3.000	6.3750	162.000	11.0000	279.000
TSDR128	31/32	0.9688	24.608	3.000	6.3750	162.000	11.0000	279.000
TSDR129	*	0.9843	25.000	3.000	6.3750	162.000	11.0000	279.000
TSDR130	63/64	0.9844	25.004	3.000	6.3750	162.000	11.0000	279.000
TSDR131	1	1.0000	25.400	3.000	6.3750	162.000	11.0000	279.000
TSDR132	*	1.0039	25.500	3.000	6.5000	165.000	11.1250	283.000
TSDR133	1-1/64	1.0156	25.796	3.000	6.5000	165.000	11.1250	283.000
TSDR134	*	1.0236	26.000	3.000	6.5000	165.000	11.1250	283.000
TSDR135	1-1/32	1.0312	26.192	3.000	6.5000	165.000	11.1250	283.000
TSDR136	*	1.0433	26.500	3.000	6.6250	168.000	11.2500	286.000

## STANDARD TWIST DRILLS

Instance Name	Drill Dia. Frac.	D Cutter Dia.	Drill Dia. (mm)	Morse Taper No.	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
TSDR137	1-3/64	1.0469	26.591	3.000	6.6250	168.000	11.2500	286.000
TSDR138	1-1/16	1.0625	26.988	3.000	6.6250	168.000	11.2500	286.000
TSDR139	*	1.0630	27.000	3.000	6.6250	168.000	11.2500	286.000
TSDR140	1-5/64	1.0781	27.384	4.000	6.8750	175.000	12.5000	318.000
TSDR141	*	1.0827	27.500	4.000	6.8750	175.000	12.5000	318.000
TSDR142	1-3/32	1.0938	27.783	4.000	6.8750	175.000	12.5000	318.000
TSDR143	*	1.1024	28.000	4.000	7.1250	181.000	12.7500	324.000
TSDR144	1-7/64	1.1094	28.179	4.000	7.1250	181.000	12.7500	324.000
TADR145	*	1.1220	28.500	4.000	7.1250	181.000	12.7500	324.000
TSDR146	1-1/8	1.1250	28.575	4.000	7.1250	181.000	12.7500	324.000
TSDR147	1-9/64	1.1406	28.971	4.000	7.2500	184.000	12.8750	327.000
TSDR148	*	1.1417	29.000	4.000	7.2500	184.000	12.8750	327.000
TSDR149	1-5/32	1.1562	29.367	4.000	7.2500	184.000	12.8750	327.000
TSDR150	*	1.1614	29.500	4.000	7.3750	187.000	13.0000	330.000
TSDR151	1-11/64	1.1719	29.766	4.000	7.3750	187.000	13.0000	330.000
TSDR152	*	1.1811	30.000	4.000	7.3750	187.000	13.0000	330.000
TSDR153	1-3/16	1.1875	30.162	4.000	7.3750	187.000	13.0000	330.000
TSDR154	*	1.2008	30.500	4.000	7.5000	190.000	13.1250	333.000
TSDR155	1-13/64	1.2031	30.559	4.000	7.5000	190.000	13.1250	333.000
TSDR156	1-7/32	1.2188	30.958	4.000	7.5000	190.000	13.1250	333.000
TSDR157	*	1.2205	31.000	4.000	7.8750	200.000	13.5000	343.000
TSDR158	1-15/64	1.2344	31.354	4.000	7.8750	200.000	13.5000	343.000
TSDR159	*	1.2402	31.500	4.000	7.8750	200.000	13.5000	343.000
TSDR160	1-1/4	1.2500	31.750	4.000	7.8750	200.000	13.5000	343.000
TSDR161	*	1.2598	32.000	4.000	8.5000	216.000	14.1250	359.000
TSDR162	1-17/64	1.2656	32.146	4.000	8.5000	216.000	14.1250	359.000
TSDR163	*	1.2795	32.500	4.000	8.5000	216.000	14.1250	359.000
TSDR164	1-9/32	1.2812	32.542	4.000	8.5000	216.000	14.1250	359.000
TSDR165	1-19/64	1.2969	32.941	4.000	8.6250	219.000	14.2500	362.000
TSDR166	*	1.2992	33.000	4.000	8.6250	219.000	14.2500	362.000
TSDR167	1-5/16	1.3125	33.338	4.000	8.6250	219.000	14.2500	362.000
TADR168	*	1.3189	33.500	4.000	8.7500	222.000	14.3750	365.000
TSDR169	1-21/64	1.3281	33.734	4.000	8.7500	222.000	14.3750	365.000
TSDR170	*	1.3386	34.000	4.000	8.7500	222.000	14.3750	365.000
TSDR171	1-11/32	1.3438	34.133	4.000	8.7500	222.000	14.3750	365.000
TSDR172	*	1.3583	34.500	4.000	8.8750	225.000	14.5000	368.000
TSDR173	1-23/64	1.3594	34.529	4.000	8.8750	225.000	14.5000	368.000
TSDR174	1-3/8	1.3750	34.925	4.000	8.8750	225.000	14.5000	368.000

## STANDARD TWIST DRILLS

Instance Name	Drill Dia. Frac.	D Cutter Dia.	Drill Dia. (mm)	Morse Taper No.	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
TSDR175	*	1.3780	35.000	4.000	9.0000	229.000	14.6250	371.000
TSDR176	1-25/64	1.3906	35.321	4.000	9.0000	229.000	14.6250	371.000
TSDR177	*	1.3976	35.500	4.000	9.0000	229.000	14.6250	371.000
TSDR178	1-13/32	1.4062	35.717	4.000	9.0000	229.000	14.6250	371.000
TSDR179	*	1.4173	36.000	4.000	9.1250	232.000	14.7500	375.000
TSDR180	1-27/64	1.4219	36.116	4.000	9.1250	232.000	14.7500	375.000
TSDR181	*	1.4370	36.500	4.000	9.1250	232.000	14.7500	375.000
TSDR182	1-7/16	1.4375	36.512	4.000	9.1250	232.000	14.7500	375.000
TSDR183	1-29/64	1.4531	36.909	4.000	9.2500	235.000	14.8750	378.000
TSDR184	*	1.4567	37.000	4.000	9.2500	235.000	14.8750	378.000
TSDR185	1-15/32	1.4688	37.308	4.000	9.2500	235.000	14.8750	378.000
TSDR186	*	1.4764	37.500	4.000	9.3750	238.000	15.0000	381.000
TSDR187	1-31/64	1.4844	37.704	4.000	9.3750	238.000	15.0000	381.000
TSDR188	*	1.4961	38.000	4.000	9.3750	238.000	15.0000	381.000
TADR189	1-1/2	1.5000	38.100	4.000	9.3750	238.000	15.0000	381.000
TSDR191	1-17/32	1.5312	38.892	5.000	9.3750	238.000	16.3750	416.000
TSDR192	*	1.5354	39.000	5.000	9.6250	244.000	16.6250	422.000
TSDR194	1-9/16	1.5625	39.688	5.000	9.6250	244.000	16.6250	422.000
TSDR195	*	1.5748	40.000	5.000	9.8750	251.000	16.8750	429.000
TSDR197	1-19/32	1.5938	40.483	5.000	9.8750	251.000	16.8750	429.000
TSDR199	*	1.6142	41.000	5.000	10.0000	254.000	17.0000	432.000
TSDR200	1-5/8	1.6250	41.275	5.000	10.0000	254.000	17.0000	432.000
TSDR202	*	1.6535	42.000	5.000	10.1250	257.000	17.1250	435.000
TSDR203	1-21/32	1.6562	42.067	5.000	10.1250	257.000	17.1250	435.000
TSDR205	1-11/16	1.6875	42.862	5.000	10.1250	257.000	17.1250	435.000
TSDR206	*	1.6929	43.000	5.000	10.1250	257.000	17.1250	435.000
TSDR208	1-23/32	1.7188	43.658	5.000	10.1250	257.000	17.1250	435.000
TSDR209	*	1.7323	44.000	5.000	10.1250	257.000	17.1250	435.000
TSDR211	1-3/4	1.7500	44.450	5.000	10.1250	257.000	17.1250	435.000
TSDR212	*	1.7717	45.000	5.000	10.1250	257.000	17.1250	435.000
TSDR213	1-25/32	1.7812	45.242	5.000	10.1250	257.000	17.1250	435.000
TSDR214	*	1.8110	46.000	5.000	10.1250	257.000	17.1250	435.000
TSDR215	1-13/16	1.8125	46.038	5.000	10.1250	257.000	17.1250	435.000
TSDR216	1-27/32	1.8438	46.833	5.000	10.1250	257.000	17.1250	435.000
TSDR217	*	1.8504	47.000	5.000	10.3750	264.000	17.3750	441.000
TSDR218	1-7/8	1.8750	47.625	5.000	10.3750	264.000	17.3750	441.000
TSDR219	*	1.8898	48.000	5.000	10.3750	264.000	17.3750	441.000
TSDR220	1-29/32	1.9062	48.417	5.000	10.3750	264.000	17.3750	441.000

## STANDARD TWIST DRILLS

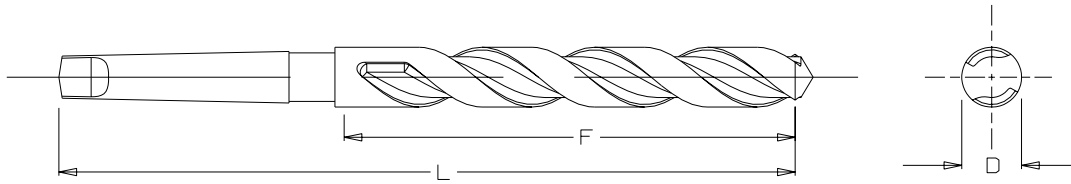
Instance Name	Drill Dia. Frac.	D Cutter Dia.	Drill Dia. (mm)	Morse Taper No.	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
TSDR221	*	1.9291	49.000	5.000	10.3750	264.000	17.3750	441.000
TSDR222	1-15/16	1.9375	49.212	5.000	10.3750	264.000	17.3750	441.000
TSDR223	*	1.9625	50.000	5.000	10.3750	264.000	17.3750	441.000
TSDR224	1-31/32	1.9688	50.008	5.000	10.3750	264.000	17.3750	441.000
TSDR225	2	2.0000	50.800	5.000	10.3750	264.000	17.3750	441.000
TSDR226	*	2.0079	51.000	5.000	10.3750	264.000	17.3750	441.000
TSDR227	2-1/32	2.0312	51.592	5.000	10.3750	264.000	17.3750	441.000
TSDR228	*	2.0472	52.000	5.000	10.2500	260.000	17.3750	441.000
TSDR229	2-1/16	2.0625	52.388	5.000	10.2500	260.000	17.3750	441.000
TSDR230	*	2.0866	53.000	5.000	10.2500	260.000	17.3750	441.000
TSDR231	2-3/32	2.0938	53.183	5.000	10.2500	260.000	17.3750	441.000
TSDR232	2-1/8	2.1250	53.975	5.000	10.2500	260.000	17.3750	441.000
TSDR233	*	2.1260	54.000	5.000	10.2500	260.000	17.3750	441.000
TSDR234	2-5/32	2.1562	54.767	5.000	10.2500	260.000	17.3750	441.000
TSDR235	*	2.1654	55.000	5.000	10.2500	260.000	17.3750	441.000
TSDR236	2-3/16	2.1875	55.512	5.000	10.2500	260.000	17.3750	441.000
TSDR237	*	2.2000	56.000	5.000	10.1250	257.000	17.3750	441.000
TSDR238	2-7/32	2.2188	56.358	5.000	10.1250	257.000	17.3750	441.000
TSDR239	*	2.2441	57.000	5.000	10.1250	257.000	17.3750	441.000
TSDR240	2-1/4	2.2500	57.150	5.000	10.1250	257.000	17.3750	441.000
TSDR241	*	2.2835	58.000	5.000	10.1250	257.000	17.3750	441.000
TSDR242	2-5/16	2.3125	58.738	5.000	10.1250	257.000	17.3750	441.000
TSDR243	*	2.3228	59.000	5.000	10.1250	257.000	17.3750	441.000
TSDR244	*	2.3622	60.000	5.000	10.1250	257.000	17.3750	441.000
TSDR255	2-3/8	2.3750	60.325	5.000	10.1250	257.000	17.3750	441.000
TSDR256	*	2.4016	61.000	5.000	11.2500	286.000	18.7500	476.000
TSDR257	2-7/16	2.4375	61.912	5.000	11.2500	286.000	18.7500	476.000
TSDR258	*	2.4409	62.000	5.000	11.2500	286.000	18.7500	476.000
TSDR259	*	2.4803	63.000	5.000	11.2500	286.000	18.7500	476.000
TSDR260	2-1/2	2.5000	63.500	5.000	11.2500	286.000	18.7500	476.000
TSDR261	*	2.5197	64.000	5.000	11.8750	302.000	19.5000	495.000
TSDR262	*	2.5910	65.000	5.000	11.8750	302.000	19.5000	495.000
TSDR263	2-9/16	2.5625	66.088	5.000	11.8750	302.000	19.5000	495.000
TSDR264	*	2.5984	66.000	5.000	11.8750	302.000	19.5000	495.000
TSDR265	2-5/8	2.6250	66.675	5.000	11.8750	302.000	19.5000	495.000
TSDR266	*	2.6378	67.000	5.000	12.7500	324.000	20.3750	518.000
TSDR267	*	2.6772	68.000	5.000	12.7500	324.000	20.3750	518.000
TSDR268	2-11/16	2.6875	68.262	5.000	12.7500	324.000	20.3750	518.000

## STANDARD TWIST DRILLS

Instance Name	Drill Dia. Frac.	D Cutter Dia.	Drill Dia. (mm)	Morse Taper No.	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
TSDR269	*	2.7165	69.000	5.000	12.7500	324.000	20.3750	518.000
TSDR270	2-3/4	2.7500	69.850	5.000	12.7500	324.000	20.3750	518.000
TSDR271	*	2.7559	70.000	5.000	13.3750	340.000	21.1250	537.000
TSDR272	*	2.7953	71.000	5.000	13.3750	340.000	21.1250	537.000
TSDR273	2-13/16	2.8125	71.438	5.000	13.3750	340.000	21.1250	537.000
TSDR274	*	2.8346	72.000	5.000	13.3750	340.000	21.1250	537.000
TSDR275	*	2.8740	73.000	5.000	13.3750	340.000	21.1250	537.000
TSDR276	2-7/8	2.8750	73.025	5.000	13.3750	340.000	21.1250	537.000
TSDR277	*	2.9134	74.000	5.000	14.0000	356.000	21.7500	552.000
TSDR278	2-15/16	2.9375	74.612	5.000	14.0000	356.000	21.7500	552.000
TSDR279	*	2.9528	75.000	5.000	14.0000	356.000	21.7500	552.000
TSDR280	*	2.9921	76.000	5.000	14.0000	356.000	21.7500	552.000
TSDR281	3	3.0000	76.200	5.000	14.0000	356.000	21.7500	552.000
TSDR282	*	3.0315	77.000	6.000	14.6250	371.000	24.5000	622.000
TSDR283	*	3.0709	78.000	6.000	14.6250	371.000	24.5000	622.000
TSDR284	3-1/8	3.1250	79.375	6.000	14.6250	371.000	24.5000	622.000
TSDR285	3-1/4	3.2500	82.550	6.000	15.5000	394.000	25.5000	648.000

## STANDARD TWIST DRILLS

### TAPER SHANK TWIST DRILL - SHANK SMALLER THAN REGULAR Fractional and Metric Sizes



#### Generic Part Name: TSDS

##### Notes:

1. Corresponds to standard ANSI B94.11M-1979.
2. Enter values exactly as shown.
3. "\*" denotes a non-existent value.

Instance Name	Drill Dia. Frac.	D Cutter Dia.	Drill Dia. (mm)	Morse Taper No.	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
TSDS1	*	0.4724	12.000	1.000	4.3750	111.000	7.7500	197.000
TSDS2	*	0.4803	12.200	1.000	4.3750	111.000	7.7500	197.000
TSDS3	31/64	0.4844	12.304	1.000	4.3750	111.000	7.7500	197.000
TSDS4	*	0.4921	12.500	1.000	4.3750	111.000	7.7500	197.000
TSDS5	1/2	0.5000	12.700	1.000	4.3750	111.000	7.7500	197.000
TSDS6	*	0.5039	12.800	1.000	4.6250	117.000	8.0000	203.000
TSDS7	*	0.5118	13.000	1.000	4.6250	117.000	8.0000	203.000
TSDS8	33/64	0.5156	13.096	1.000	4.6250	117.000	8.0000	203.000
TSDS9	*	0.5197	13.200	1.000	4.6250	117.000	8.0000	203.000
TSDS10	17/32	0.5312	13.492	1.000	4.6250	117.000	8.0000	203.000
TSDS11	*	0.5315	13.500	1.000	4.6250	117.000	8.0000	203.000
TSDS12	*	0.5433	13.800	1.000	4.8750	124.000	8.2500	210.000
TSDS13	35/64	0.5469	13.891	1.000	4.8750	124.000	8.2500	210.000
TSDS14	*	0.5512	14.000	1.000	4.8750	124.000	8.2500	210.000
TSDS15	*	0.5610	14.250	1.000	4.8750	124.000	8.2500	210.000
TSDS16	9/16	0.5625	14.288	1.000	4.8750	124.000	8.2500	210.000
TSDS17	*	0.7821	20.000	2.000	6.1250	156.000	10.0000	254.000
TSDS18	51/64	0.7969	20.241	2.000	6.1250	156.000	10.0000	254.000
TSDS19	*	0.8071	20.500	2.000	6.1250	156.000	10.0000	254.000
TSDS20	13/16	0.8125	20.638	2.000	6.1250	156.000	10.0000	254.000
TSDS21	*	0.8268	21.000	2.000	6.1250	156.000	10.0000	254.000

## STANDARD TWIST DRILLS

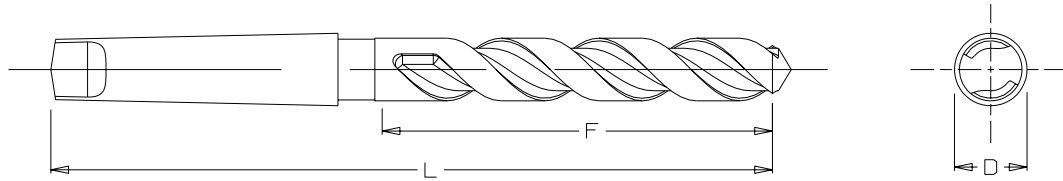
Instance Name	Drill Dia. Frac.	D Cutter Dia.	Drill Dia. (mm)	Morse Taper No.	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
TSDS22	53/64	0.8281	21.034	2.000	6.1250	156.000	10.0000	254.000
TSDS23	27/32	0.8438	21.433	2.000	6.1250	156.000	10.0000	254.000
TSDS24	*	0.8465	21.500	2.000	6.1250	156.000	10.0000	254.000
TSDS25	55/64	0.8594	21.829	2.000	6.1250	156.000	10.0000	254.000
TSDS26	*	0.8661	22.000	2.000	6.1250	156.000	10.0000	254.000
TSDS27	7/8	0.8750	22.225	2.000	6.1250	156.000	10.0000	254.000
TSDS28	*	0.8858	22.500	2.000	6.1250	156.000	10.0000	254.000
TSDS29	57/64	0.8906	22.621	2.000	6.1250	156.000	10.0000	254.000
TSDS30	*	0.9055	23.000	2.000	6.1250	156.000	10.0000	254.000
TSDS31	29/32	0.9062	23.017	2.000	6.1250	156.000	10.0000	254.000
TSDS32	1-5/64	1.0781	27.384	3.000	6.8750	175.000	11.5000	292.000
TSDS33	*	1.0827	27.500	3.000	6.8750	175.000	11.5000	292.000
TSDS34	1-3/32	1.0938	27.783	3.000	6.8750	175.000	11.5000	292.000
TSDS35	*	1.1024	28.000	3.000	7.1250	181.000	11.7500	298.000
TSDS36	1-7/64	1.1094	28.179	3.000	7.1250	181.000	11.7500	298.000
TSDS37	*	1.1220	28.500	3.000	7.1250	181.000	11.7500	298.000
TSDS38	1-1/8	1.1250	28.575	3.000	7.1250	181.000	11.7500	298.000
TSDS39	1-9/64	1.1406	28.971	3.000	7.2500	184.000	11.8750	302.000
TSDS40	*	1.1417	29.000	3.000	7.2500	184.000	11.8750	302.000
TSDS41	1-5/32	1.1562	29.367	3.000	7.2500	184.000	11.8750	302.000
TSDS42	*	1.1614	29.500	3.000	7.3750	187.000	12.0000	305.000
TSDS43	1-11/64	1.1719	29.766	3.000	7.3750	187.000	12.0000	305.000
TSDS44	*	1.1811	30.000	3.000	7.3750	187.000	12.0000	305.000
TSDS45	1-3/16	1.1875	30.162	3.000	7.3750	187.000	12.0000	305.000
TSDS46	*	1.2008	30.500	3.000	7.5000	190.000	12.1250	308.000
TSDS47	1-13/64	1.2031	30.559	3.000	7.5000	190.000	12.1250	308.000
TSDS48	1-7/32	1.2188	30.958	3.000	7.5000	190.000	12.1250	308.000
TSDS49	*	1.2205	31.000	3.000	7.8750	200.000	12.5000	318.000
TSDS50	1-15/64	1.2344	31.354	3.000	7.8750	200.000	12.5000	318.000
TSDS51	*	1.2402	31.500	3.000	7.8750	200.000	12.5000	318.000
TSDS52	1-1/4	1.2500	31.750	3.000	7.8750	200.000	12.5000	318.000
TSDS53	1-33/64	1.5156	38.496	4.000	9.3750	238.000	15.0000	381.000
TSDS54	1-17/32	1.5312	38.892	4.000	9.3750	238.000	15.0000	381.000
TSDS55	*	1.5354	39.000	4.000	9.6250	244.000	15.2500	387.000
TSDS56	1-35/64	1.5469	39.291	4.000	9.6250	244.000	15.2500	387.000
TSDS57	1-9/16	1.5625	39.688	4.000	9.6250	244.000	15.2500	387.000
TSDS58	*	1.5748	40.000	4.000	9.8750	251.000	15.5000	394.000
TSDS59	1-37/64	1.5781	40.084	4.000	9.8750	251.000	15.5000	394.000

## STANDARD TWIST DRILLS

Instance Name	Drill Dia. Frac.	D Cutter Dia.	Drill Dia. (mm)	Morse Taper No.	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
TSDS60	1-19/32	1.5938	40.483	4.000	9.8750	251.000	15.5000	394.000
TSDS61	1-39/64	1.6094	40.879	4.000	10.0000	254.000	15.6250	397.000
TSDS62	*	1.6142	41.000	4.000	10.0000	254.000	15.6250	397.000
TSDS63	1-5/8	1.6250	41.275	4.000	10.0000	254.000	15.6250	397.000
TSDS64	1-41/64	1.6406	41.671	4.000	10.1250	257.000	15.7500	400.000
TSDS65	*	1.6535	42.000	4.000	10.1250	257.000	15.7500	400.000
TSDS66	1-21/32	1.6562	42.067	4.000	10.1250	257.000	15.7500	400.000
TSDS67	1-43/64	1.6719	42.466	4.000	10.1250	257.000	15.7500	400.000
TSDS68	1-11/16	1.6875	42.862	4.000	10.1250	257.000	15.7500	400.000
TSDS69	*	1.6929	43.000	4.000	10.1250	257.000	15.7500	400.000
TSDS70	1-45/64	1.7031	43.259	4.000	10.1250	257.000	15.7500	400.000
TSDS71	1-23/32	1.7188	43.658	4.000	10.1250	257.000	15.7500	400.000
TSDS72	*	1.7323	44.000	4.000	10.3750	264.000	16.2500	413.000
TSDS73	1-47/64	1.7344	44.054	4.000	10.3750	264.000	16.2500	413.000
TSDS74	1-3/4	1.7500	44.450	4.000	10.3750	264.000	16.2500	413.000
TSDS75	*	1.7717	45.000	4.000	10.3750	264.000	16.2500	413.000
TSDS76	1-25/32	1.7812	45.242	4.000	10.3750	264.000	16.2500	413.000
TSDS77	*	1.8110	46.000	4.000	10.3750	264.000	16.2500	413.000
TSDS78	1-13/16	1.8125	46.038	4.000	10.3750	264.000	16.2500	413.000
TSDS79	1-27/32	1.8438	46.833	4.000	10.3750	264.000	16.2500	413.000
TSDS80	*	1.8504	47.000	4.000	10.5000	267.000	16.5000	419.000
TSDS81	1-7/8	1.8750	47.625	4.000	10.5000	267.000	16.5000	419.000
TSDS82	*	1.8898	48.000	4.000	10.5000	267.000	16.5000	419.000
TSDS83	1-29/32	1.9062	48.417	4.000	10.5000	267.000	16.5000	419.000
TSDS84	*	1.9291	49.000	4.000	10.6250	270.000	16.6250	422.000
TSDS85	1-15/16	1.9375	49.212	4.000	10.6250	270.000	16.6250	422.000
TSDS86	*	1.9625	50.000	4.000	10.6250	270.000	16.6250	422.000
TSDS87	1-31/32	1.9688	50.008	4.000	10.6250	270.000	16.6250	422.000
TSDS88	2	2.0000	50.800	4.000	10.6250	270.000	16.6250	422.000
TSDS89	*	3.0315	77.000	5.000	14.2500	362.000	22.0000	559.000
TSDS90	*	3.0709	78.000	5.000	14.2500	362.000	22.0000	559.000
TSDS91	3-1/8	3.1250	79.375	5.000	14.2500	362.000	22.0000	559.000
TSDS92	3-1/4	3.2500	82.550	5.000	15.2500	387.000	23.0000	584.000
TSDS93	3-1/2	3.5000	88.900	5.000	16.2500	413.000	24.0000	610.000

## STANDARD TWIST DRILLS

### TAPER SHANK TWIST DRILL - SHANK LARGER THAN REGULAR Fractional and Metric Sizes



#### Generic Part Name: TSDL

##### Notes:

1. Corresponds to standard ANSI B94.11M-1979.
2. Enter values exactly as shown.

Instance Name	Drill Dia. Frac.	D Cutter Dia.	Drill Dia. (mm)	Morse Taper No.	F Flute Length	Flute Length (mm)	L Tool Length	Overall Length (mm)
TSDL1	3/8	0.3750	9.525	2.000	3.5000	89.000	7.3750	187.000
TSDL2	25/64	0.3906	9.921	2.000	3.6250	92.000	7.5000	190.000
TSDL3	13/32	0.4062	10.320	2.000	3.6250	92.000	7.5000	190.000
TSDL4	27/64	0.4219	10.716	2.000	3.8750	98.000	7.7500	197.000
TSDL5	7/16	0.4375	11.112	2.000	3.8750	98.000	7.7500	197.000
TSDL6	29/64	0.4531	11.509	2.000	4.1250	105.000	8.0000	203.000
TSDL7	15/32	0.4688	11.900	2.000	4.1250	105.000	8.0000	203.000
TSDL8	41/64	0.6406	16.271	3.000	5.1250	130.000	9.7500	248.000
TSDL9	21/32	0.6562	16.667	3.000	5.1250	130.000	9.7500	248.000
TSDL10	43/64	0.6719	17.066	3.000	5.3750	137.000	10.0000	254.000
TSDL11	11/16	0.6875	17.462	3.000	5.3750	137.000	10.0000	254.000
TSDL12	45/64	0.7031	17.859	3.000	5.6250	143.000	10.2500	260.000
TSDL13	23/32	0.7188	18.258	3.000	5.6250	143.000	10.2500	260.000
TSDL14	47/64	0.7344	18.654	3.000	5.8750	149.000	10.5000	267.000
TSDL15	3/4	0.7500	19.050	3.000	5.8750	149.000	10.5000	267.000
TSDL16	49/64	0.7656	19.446	3.000	6.0000	152.000	10.6250	270.000
TSDL17	25/32	0.7812	19.843	3.000	6.0000	152.000	10.6250	270.000
TSDL18	1	1.0000	25.400	4.000	6.3750	162.000	12.0000	305.000
TSDL19	1-1/32	1.0312	26.192	4.000	6.5000	165.000	12.1250	308.000
TSDL20	1-1/16	1.0625	26.988	4.000	6.6250	168.000	12.2500	311.000

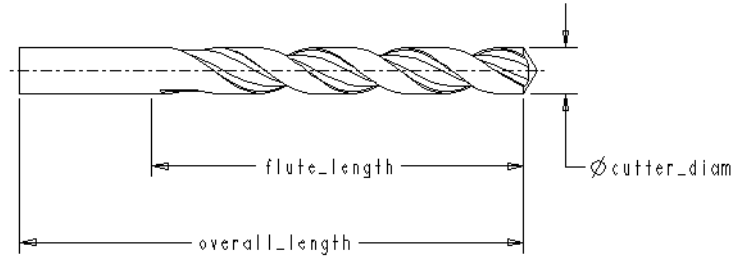
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# METRIC TWIST DRILLS

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## STRAIGHT SHANK TWIST DRILL - JOBBERS LENGTH Metric Sizes



### Generic Part Name: SSJLM

#### Notes:

1. Corresponds to standard ANSI B94.11M-1979.
2. Enter values exactly as shown.
3. All dimensions are expressed in millimeters.

Instance Name	cutter_diam	flute_length	overall_length	Round
SSJLM001	0.1500	1.500	19.000	N
SSJLM002	0.1600	1.500	19.000	N
SSJLM003	0.1700	1.500	19.000	N
SSJLM004	0.1800	1.500	19.000	N
SSJLM005	0.1900	1.500	19.000	N
SSJLM006	0.2000	1.500	19.000	N
SSJLM007	0.2200	2.000	19.000	N
SSJLM008	0.2500	2.000	19.000	N
SSJLM009	0.2800	2.500	19.000	N
SSJLM010	0.3000	2.500	19.000	N
SSJLM011	0.3200	2.500	19.000	N
SSJLM012	0.3500	3.000	19.000	N
SSJLM013	0.3800	5.000	19.000	N
SSJLM014	0.4000	5.000	19.000	N
SSJLM015	0.4200	5.000	22.000	N
SSJLM016	0.4500	5.000	22.000	N
SSJLM017	0.4800	5.000	22.000	N
SSJLM018	0.5000	5.000	22.000	N
SSJLM019	0.5500	6.000	25.000	N
SSJLM020	0.6000	8.000	29.000	N
SSJLM021	0.6500	10.000	32.000	N
SSJLM022	0.7000	10.000	32.000	N

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## METRIC TWIST DRILLS

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Instance Name	cutter_diam	flute_length	overall_length	Round
SSJLM023	0.7500	13.000	35.000	N
SSJLM024	0.8000	13.000	35.000	N
SSJLM025	0.8500	16.000	38.000	N
SSJLM026	0.9000	16.000	38.000	N
SSJLM027	0.9500	16.000	38.000	N
SSJLM028	1.0000	17.000	41.000	Y
SSJLM029	1.0500	17.000	41.000	Y
SSJLM030	1.1000	19.000	44.000	Y
SSJLM031	1.1500	19.000	44.000	Y
SSJLM032	1.2000	22.000	48.000	Y
SSJLM033	1.2500	22.000	48.000	Y
SSJLM034	1.3000	22.000	48.000	Y
SSJLM035	1.3500	22.000	48.000	Y
SSJLM036	1.4000	22.000	48.000	Y
SSJLM037	1.4500	22.000	48.000	Y
SSJLM038	1.5000	22.000	48.000	Y
SSJLM039	1.5500	22.000	48.000	Y
SSJLM040	1.6000	22.000	48.000	Y
SSJLM041	1.6500	25.000	51.000	Y
SSJLM042	1.7000	25.000	51.000	Y
SSJLM043	1.7500	25.000	51.000	Y
SSJLM044	1.8000	25.000	51.000	Y
SSJLM045	1.8500	25.000	51.000	Y
SSJLM046	1.9000	25.000	51.000	Y
SSJLM047	1.9500	25.000	51.000	Y
SSJLM048	2.0000	25.000	51.000	Y
SSJLM049	2.0500	29.000	54.000	Y
SSJLM050	2.1000	29.000	54.000	Y
SSJLM051	2.1500	29.000	54.000	Y
SSJLM052	2.2000	32.000	57.000	Y
SSJLM053	2.2500	32.000	57.000	Y
SSJLM054	2.3000	32.000	57.000	Y
SSJLM055	2.3500	32.000	57.000	Y
SSJLM056	2.4000	35.000	60.000	Y
SSJLM057	2.4500	35.000	60.000	Y
SSJLM058	2.5000	35.000	60.000	Y
SSJLM059	2.6000	37.000	64.000	Y
SSJLM060	2.7000	37.000	64.000	Y
SSJLM061	2.8000	38.000	67.000	Y

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## METRIC TWIST DRILLS

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Instance Name	cutter_diam	flute_length	overall_length	Round
SSJLM062	2.9000	41.000	70.000	Y
SSJLM063	3.0000	41.000	70.000	Y
SSJLM064	3.1000	41.000	70.000	Y
SSJLM065	3.2000	41.000	70.000	Y
SSJLM066	3.3000	44.000	73.000	Y
SSJLM067	3.4000	44.000	73.000	Y
SSJLM068	3.5000	44.000	73.000	Y
SSJLM069	3.6000	48.000	76.000	Y
SSJLM070	3.7000	48.000	76.000	Y
SSJLM071	3.8000	48.000	76.000	Y
SSJLM072	3.9000	51.000	79.000	Y
SSJLM073	4.0000	54.000	83.000	Y
SSJLM074	4.1000	54.000	83.000	Y
SSJLM075	4.2000	54.000	83.000	Y
SSJLM076	4.3000	54.000	83.000	Y
SSJLM077	4.4000	56.000	86.000	Y
SSJLM078	4.5000	56.000	86.000	Y
SSJLM079	4.6000	56.000	86.000	Y
SSJLM080	4.7000	59.000	89.000	Y
SSJLM081	4.8000	59.000	89.000	Y
SSJLM082	4.9000	62.000	92.000	Y
SSJLM083	5.0000	62.000	92.000	Y
SSJLM084	5.1000	62.000	92.000	Y
SSJLM085	5.2000	64.000	95.000	Y
SSJLM086	5.3000	64.000	95.000	Y
SSJLM087	5.4000	64.000	95.000	Y
SSJLM088	5.5000	64.000	95.000	Y
SSJLM089	5.6000	67.000	98.000	Y
SSJLM090	5.7000	67.000	98.000	Y
SSJLM091	5.8000	67.000	98.000	Y
SSJLM092	5.9000	67.000	98.000	Y
SSJLM093	6.0000	70.000	102.000	Y
SSJLM094	6.1000	70.000	102.000	Y
SSJLM095	6.2000	70.000	102.000	Y
SSJLM096	6.3000	70.000	102.000	Y
SSJLM097	6.4000	73.000	105.000	Y
SSJLM098	6.5000	73.000	105.000	Y
SSJLM099	6.6000	73.000	105.000	Y
SSJLM100	6.7000	73.000	105.000	Y

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## METRIC TWIST DRILLS

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Instance Name	cutter_diam	flute_length	overall_length	Round
SSJLM101	6.8000	73.000	105.000	Y
SSJLM102	6.9000	73.000	105.000	Y
SSJLM103	7.0000	73.000	105.000	Y
SSJLM104	7.1000	75.000	108.000	Y
SSJLM105	7.2000	75.000	108.000	Y
SSJLM106	7.3000	75.000	108.000	Y
SSJLM107	7.4000	78.000	111.000	Y
SSJLM108	7.5000	78.000	111.000	Y
SSJLM109	7.6000	78.000	111.000	Y
SSJLM110	7.7000	81.000	114.000	Y
SSJLM111	7.8000	81.000	114.000	Y
SSJLM112	7.9000	81.000	114.000	Y
SSJLM113	8.0000	81.000	114.000	Y
SSJLM114	8.1000	84.000	117.000	Y
SSJLM115	8.2000	84.000	117.000	Y
SSJLM116	8.3000	84.000	117.000	Y
SSJLM117	8.4000	87.000	121.000	Y
SSJLM118	8.5000	87.000	121.000	Y
SSJLM119	8.6000	87.000	121.000	Y
SSJLM120	8.7000	87.000	121.000	Y
SSJLM121	8.8000	89.000	124.000	Y
SSJLM122	8.9000	89.000	124.000	Y
SSJLM123	9.0000	89.000	124.000	Y
SSJLM124	9.1000	89.000	124.000	Y
SSJLM125	9.2000	92.000	127.000	Y
SSJLM126	9.3000	92.000	127.000	Y
SSJLM127	9.4000	92.000	127.000	Y
SSJLM128	9.5000	92.000	127.000	Y
SSJLM129	9.6000	95.000	130.000	Y
SSJLM130	9.7000	95.000	130.000	Y
SSJLM131	9.8000	95.000	130.000	Y
SSJLM132	9.9000	95.000	130.000	Y
SSJLM133	10.0000	95.000	130.000	Y
SSJLM134	10.2000	98.000	133.000	Y
SSJLM135	10.5000	98.000	133.000	Y
SSJLM136	10.8000	103.000	140.000	Y
SSJLM137	11.0000	103.000	140.000	Y
SSJLM138	11.2000	106.000	143.000	Y
SSJLM139	11.5000	106.000	143.000	Y

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## METRIC TWIST DRILLS

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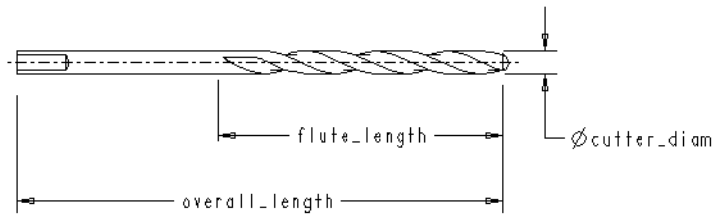
Instance Name	cutter_diam	flute_length	overall_length	Round
SSJLM140	11.8000	110.000	146.000	Y
SSJLM141	12.0000	111.000	149.000	Y
SSJLM142	12.2000	111.000	149.000	Y
SSJLM143	12.5000	114.000	152.000	Y
SSJLM144	12.8000	114.000	152.000	Y
SSJLM145	13.0000	114.000	152.000	Y
SSJLM146	13.2000	122.000	168.000	Y
SSJLM147	13.5000	122.000	168.000	Y
SSJLM148	13.8000	122.000	168.000	Y
SSJLM149	14.0000	122.000	168.000	Y
SSJLM150	14.2500	122.000	168.000	Y
SSJLM151	14.5000	122.000	168.000	Y
SSJLM152	14.7500	132.000	181.000	Y
SSJLM153	15.0000	132.000	181.000	Y
SSJLM154	15.2500	132.000	181.000	Y
SSJLM155	15.5000	132.000	181.000	Y
SSJLM156	15.7500	132.000	181.000	Y
SSJLM157	16.0000	132.000	181.000	Y
SSJLM158	16.2500	132.000	181.000	Y
SSJLM159	16.5000	132.000	181.000	Y
SSJLM160	16.7500	143.000	194.000	Y
SSJLM161	17.0000	143.000	194.000	Y
SSJLM162	17.2500	143.000	194.000	Y
SSJLM163	17.5000	143.000	194.000	Y

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## METRIC TWIST DRILLS

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### STRAIGHT SHANK TWIST DRILL - JOBBERS LENGTH WITH TANGS Metric Sizes



#### Generic Part Name: SSJLTM

##### Notes:

1. Corresponds to standard ANSI B94.11M-1979.
2. Enter values exactly as shown.
3. All dimensions are expressed in millimeters.

Instance Name	cutter_diam	flute_length	overall_length
SSJLTM001	3.2000	41.000	70.000
SSJLTM002	3.3000	44.000	73.000
SSJLTM003	3.4000	44.000	73.000
SSJLTM004	3.5000	44.000	73.000
SSJLTM005	3.6000	48.000	76.000
SSJLTM006	3.7000	48.000	76.000
SSJLTM007	3.8000	48.000	76.000
SSJLTM008	3.9000	51.000	79.000
SSJLTM009	4.0000	54.000	83.000
SSJLTM010	4.1000	54.000	83.000
SSJLTM011	4.2000	54.000	83.000
SSJLTM012	4.3000	54.000	83.000
SSJLTM013	4.4000	56.000	86.000
SSJLTM014	4.5000	56.000	86.000
SSJLTM015	4.6000	56.000	86.000
SSJLTM016	4.7000	59.000	89.000
SSJLTM017	4.8000	59.000	89.000
SSJLTM018	4.9000	62.000	92.000
SSJLTM019	5.0000	62.000	92.000
SSJLTM020	5.1000	62.000	92.000
SSJLTM021	5.2000	64.000	95.000
SSJLTM022	5.3000	64.000	95.000
SSJLTM023	5.4000	64.000	95.000
SSJLTM024	5.5000	64.000	95.000

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## METRIC TWIST DRILLS

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Instance Name	cutter_diam	flute_length	overall_length
SSJLTM025	5.6000	67.000	98.000
SSJLTM026	5.7000	67.000	98.000
SSJLTM027	5.8000	67.000	98.000
SSJLTM028	5.9000	67.000	98.000
SSJLTM029	6.0000	70.000	102.000
SSJLTM030	6.1000	70.000	102.000
SSJLTM031	6.2000	70.000	102.000
SSJLTM032	6.3000	70.000	102.000
SSJLTM033	6.4000	73.000	105.000
SSJLTM034	6.5000	73.000	105.000
SSJLTM035	6.6000	73.000	105.000
SSJLTM036	6.7000	73.000	105.000
SSJLTM037	6.8000	73.000	105.000
SSJLTM038	6.9000	73.000	105.000
SSJLTM039	7.0000	73.000	105.000
SSJLTM040	7.1000	75.000	108.000
SSJLTM041	7.2000	75.000	108.000
SSJLTM042	7.3000	75.000	108.000
SSJLTM043	7.4000	78.000	111.000
SSJLTM044	7.5000	78.000	111.000
SSJLTM045	7.6000	78.000	111.000
SSJLTM046	7.7000	81.000	114.000
SSJLTM047	7.8000	81.000	114.000
SSJLTM048	7.9000	81.000	114.000
SSJLTM049	8.0000	81.000	114.000
SSJLTM050	8.1000	84.000	117.000
SSJLTM051	8.2000	84.000	117.000
SSJLTM052	8.3000	84.000	117.000
SSJLTM053	8.4000	87.000	121.000
SSJLTM054	8.5000	87.000	121.000
SSJLTM055	8.6000	87.000	121.000
SSJLTM056	8.7000	87.000	121.000
SSJLTM057	8.8000	89.000	124.000
SSJLTM058	8.9000	89.000	124.000
SSJLTM059	9.0000	89.000	124.000
SSJLTM060	9.1000	89.000	124.000
SSJLTM061	9.2000	92.000	127.000
SSJLTM062	9.3000	92.000	127.000
SSJLTM063	9.4000	92.000	127.000

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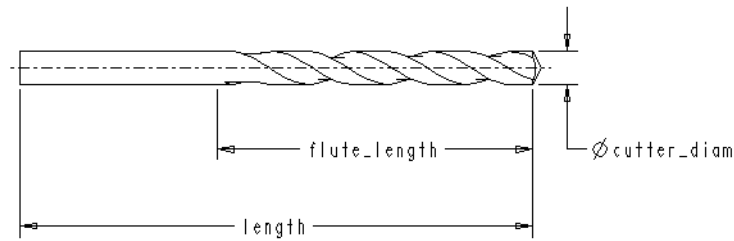
## METRIC TWIST DRILLS

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Instance Name	cutter_diam	flute_length	overall_length
SSJLTM064	9.5000	92.000	127.000
SSJLTM065	9.6000	95.000	130.000
SSJLTM066	9.7000	95.000	130.000
SSJLTM067	9.8000	95.000	130.000
SSJLTM068	9.9000	95.000	130.000
SSJLTM069	10.0000	95.000	130.000
SSJLTM070	10.2000	98.000	133.000
SSJLTM071	10.5000	98.000	133.000
SSJLTM072	10.8000	103.000	140.000
SSJLTM073	11.0000	103.000	140.000
SSJLTM074	11.2000	106.000	143.000
SSJLTM075	11.5000	106.000	143.000
SSJLTM076	11.8000	110.000	146.000
SSJLTM077	12.0000	111.000	149.000
SSJLTM078	12.2000	111.000	149.000
SSJLTM079	12.5000	114.000	152.000
SSJLTM080	12.8000	114.000	152.000
SSJLTM081	13.0000	114.000	152.000
SSJLTM082	13.2000	122.000	168.000
SSJLTM083	13.5000	122.000	168.000
SSJLTM084	13.8000	122.000	168.000
SSJLTM085	14.0000	122.000	168.000
SSJLTM086	14.2500	122.000	168.000
SSJLTM087	14.5000	122.000	168.000
SSJLTM088	14.7500	132.000	181.000
SSJLTM089	15.0000	132.000	181.000
SSJLTM090	15.2500	132.000	181.000
SSJLTM091	15.5000	132.000	181.000
SSJLTM092	15.7500	132.000	181.000
SSJLTM093	16.0000	132.000	181.000
SSJLTM094	16.2500	132.000	181.000
SSJLTM095	16.5000	132.000	181.000
SSJLTM096	16.7500	143.000	194.000
SSJLTM097	17.0000	143.000	194.000
SSJLTM098	17.2500	143.000	194.000
SSJLTM099	17.5000	143.000	194.000

## METRIC TWIST DRILLS

### STRAIGHT SHANK TWIST DRILL - TAPER LENGTH - THROUGH 1/2 Metric Sizes



#### Generic Part Name: SSTLM

##### Notes:

1. Corresponds to standard ANSI B94.11M-1979.
2. Enter values exactly as shown.
3. All dimensions are expressed in millimeters.

Instance Name	cutter_diam	flute_length	length
SSTLM001	1.0000	29.000	57.000
SSTLM002	1.0500	29.000	57.000
SSTLM003	1.1000	29.000	57.000
SSTLM004	1.1500	29.000	57.000
SSTLM005	1.2000	44.000	76.000
SSTLM006	1.2500	44.000	76.000
SSTLM007	1.3000	44.000	76.000
SSTLM008	1.3500	44.000	76.000
SSTLM009	1.4000	44.000	76.000
SSTLM010	1.4500	44.000	76.000
SSTLM011	1.5000	44.000	76.000
SSTLM012	1.5500	44.000	76.000
SSTLM013	1.6000	51.000	95.000
SSTLM014	1.6500	51.000	95.000
SSTLM015	1.7000	51.000	95.000
SSTLM016	1.7500	51.000	95.000
SSTLM017	1.8000	51.000	95.000
SSTLM018	1.8500	51.000	95.000
SSTLM019	1.9000	51.000	95.000
SSTLM020	1.9500	51.000	95.000
SSTLM021	2.0000	57.000	108.000
SSTLM022	2.0500	57.000	108.000
SSTLM023	2.1000	57.000	108.000
SSTLM024	2.1500	57.000	108.000

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## METRIC TWIST DRILLS

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Instance Name	cutter_diam	flute_length	length
SSTLM025	2.2000	57.000	108.000
SSTLM026	2.2500	57.000	108.000
SSTLM027	2.3000	57.000	108.000
SSTLM028	2.3500	57.000	108.000
SSTLM029	2.4000	64.000	117.000
SSTLM030	2.4500	64.000	117.000
SSTLM031	2.5000	64.000	117.000
SSTLM032	2.6000	64.000	117.000
SSTLM033	2.7000	64.000	117.000
SSTLM034	2.8000	70.000	130.000
SSTLM035	2.9000	70.000	130.000
SSTLM036	3.0000	70.000	130.000
SSTLM037	3.1000	70.000	130.000
SSTLM038	3.2000	76.000	137.000
SSTLM039	3.3000	76.000	137.000
SSTLM040	3.4000	76.000	137.000
SSTLM041	3.5000	76.000	137.000
SSTLM042	3.6000	76.000	137.000
SSTLM043	3.7000	76.000	137.000
SSTLM044	3.8000	76.000	137.000
SSTLM045	3.9000	76.000	137.000
SSTLM046	4.0000	86.000	146.000
SSTLM047	4.1000	86.000	146.000
SSTLM048	4.2000	86.000	146.000
SSTLM049	4.3000	86.000	146.000
SSTLM050	4.4000	86.000	146.000
SSTLM051	4.5000	86.000	146.000
SSTLM052	4.6000	86.000	146.000
SSTLM053	4.7000	86.000	146.000
SSTLM054	4.8000	92.000	152.000
SSTLM055	4.9000	92.000	152.000
SSTLM056	5.0000	92.000	152.000
SSTLM057	5.1000	92.000	152.000
SSTLM058	5.2000	92.000	152.000
SSTLM059	5.3000	92.000	152.000
SSTLM060	5.4000	92.000	152.000
SSTLM061	5.5000	92.000	152.000
SSTLM062	5.6000	95.000	156.000
SSTLM063	5.7000	95.000	156.000

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## METRIC TWIST DRILLS

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Instance Name	cutter_diam	flute_length	length
SSTLM064	5.8000	95.000	156.000
SSTLM065	5.9000	95.000	156.000
SSTLM066	6.0000	95.000	156.000
SSTLM067	6.1000	95.000	156.000
SSTLM068	6.2000	95.000	156.000
SSTLM069	6.3000	95.000	156.000
SSTLM070	6.4000	98.000	159.000
SSTLM071	6.5000	98.000	159.000
SSTLM072	6.6000	98.000	159.000
SSTLM073	6.7000	98.000	159.000
SSTLM074	6.8000	98.000	159.000
SSTLM075	6.9000	98.000	159.000
SSTLM076	7.0000	98.000	159.000
SSTLM077	7.1000	98.000	159.000
SSTLM078	7.2000	102.000	162.000
SSTLM079	7.3000	102.000	162.000
SSTLM080	7.4000	102.000	162.000
SSTLM081	7.5000	102.000	162.000
SSTLM082	7.6000	102.000	162.000
SSTLM083	7.7000	102.000	162.000
SSTLM084	7.8000	102.000	162.000
SSTLM085	7.9000	102.000	162.000
SSTLM086	8.0000	105.000	165.000
SSTLM087	8.1000	105.000	165.000
SSTLM088	8.2000	105.000	165.000
SSTLM089	8.3000	105.000	165.000
SSTLM090	8.4000	105.000	165.000
SSTLM091	8.5000	105.000	165.000
SSTLM092	8.6000	105.000	165.000
SSTLM093	8.7000	105.000	165.000
SSTLM094	8.8000	108.000	171.000
SSTLM095	8.9000	108.000	171.000
SSTLM096	9.0000	108.000	171.000
SSTLM097	9.1000	108.000	171.000
SSTLM098	9.2000	108.000	171.000
SSTLM099	9.3000	108.000	171.000
SSTLM100	9.4000	108.000	171.000
SSTLM101	9.5000	108.000	171.000
SSTLM102	9.6000	108.000	171.000

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## METRIC TWIST DRILLS

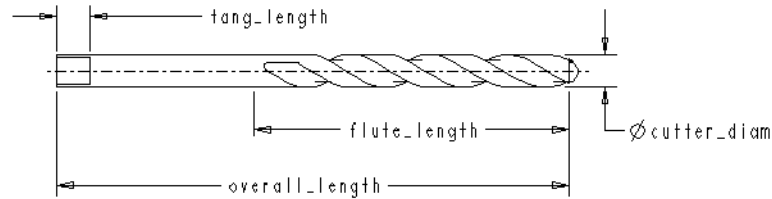
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Instance Name	cutter_diam	flute_length	length
SSTLM103	9.7000	108.000	171.000
SSTLM104	9.8000	111.000	178.000
SSTLM105	9.9000	111.000	178.000
SSTLM106	10.0000	111.000	178.000
SSTLM107	10.2000	111.000	178.000
SSTLM108	10.5000	117.000	184.000
SSTLM109	10.8000	117.000	184.000
SSTLM110	11.0000	117.000	184.000
SSTLM111	11.2000	121.000	190.000
SSTLM112	11.5000	121.000	190.000
SSTLM113	11.8000	121.000	190.000
SSTLM114	12.0000	121.000	197.000
SSTLM115	12.2000	121.000	197.000
SSTLM116	12.5000	121.000	197.000

## METRIC TWIST DRILLS

### STRAIGHT SHANK TWIST DRILL - TAPER LENGTH WITH TANGS - THROUGH 12.5 mm DIAMETER

#### Metric Sizes



#### Generic Part Name: SSTLTM

##### Notes:

1. Corresponds to standard ANSI B94.11M-1979.
2. Enter values exactly as shown.
3. All dimensions are expressed in millimeters.

Instance Name	cutter_diam	flute_length	overall_length	tang_thick	tang_length
SSTLTM001	3.2000	76.000	137.000	2.28600	7.1425
SSTLTM002	3.3000	76.000	137.000	2.28600	7.1425
SSTLTM003	3.4000	76.000	137.000	2.28600	7.1425
SSTLTM004	3.5000	76.000	137.000	2.28600	7.1425
SSTLTM005	3.6000	76.000	137.000	2.28600	7.1425
SSTLTM006	3.7000	76.000	137.000	2.28600	7.1425
SSTLTM007	3.8000	76.000	137.000	2.28600	7.1425
SSTLTM008	3.9000	76.000	137.000	2.28600	7.1425
SSTLTM009	4.0000	86.000	146.000	2.28600	7.1425
SSTLTM010	4.1000	86.000	146.000	2.28600	7.1425
SSTLTM011	4.2000	86.000	146.000	2.28600	7.1425
SSTLTM012	4.3000	86.000	146.000	2.28600	7.1425
SSTLTM013	4.4000	86.000	146.000	2.28600	7.1425
SSTLTM014	4.5000	86.000	146.000	2.28600	7.1425
SSTLTM015	4.6000	86.000	146.000	2.28600	7.1425
SSTLTM016	4.7000	86.000	146.000	2.28600	7.1425
SSTLTM017	4.8000	92.000	152.000	3.04800	7.9375
SSTLTM018	4.9000	92.000	152.000	3.04800	7.9375
SSTLTM019	5.0000	92.000	152.000	3.04800	7.9375
SSTLTM020	5.1000	92.000	152.000	3.04800	7.9375
SSTLTM021	5.2000	92.000	152.000	3.04800	7.9375
SSTLTM022	5.3000	92.000	152.000	3.04800	7.9375
SSTLTM023	5.4000	92.000	152.000	3.04800	7.9375

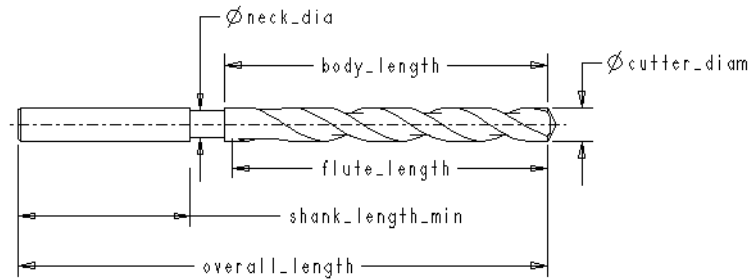
## METRIC TWIST DRILLS

Instance Name	cutter_diam	flute_length	overall_length	tang_thick	tang_length
SSTLTM024	5.5000	92.000	152.000	3.04800	7.9375
SSTLTM025	5.6000	95.000	156.000	3.04800	7.9375
SSTLTM026	5.7000	95.000	156.000	3.04800	7.9375
SSTLTM027	5.8000	95.000	156.000	3.04800	7.9375
SSTLTM028	5.9000	95.000	156.000	3.04800	7.9375
SSTLTM029	6.0000	95.000	156.000	3.04800	7.9375
SSTLTM030	6.1000	95.000	156.000	3.04800	7.9375
SSTLTM031	6.2000	95.000	156.000	3.04800	7.9375
SSTLTM032	6.3000	95.000	156.000	3.04800	7.9375
SSTLTM033	6.4000	98.000	159.000	4.06400	8.7325
SSTLTM034	6.5000	98.000	159.000	4.06400	8.7325
SSTLTM035	6.7000	98.000	159.000	4.06400	8.7325
SSTLTM036	6.8000	98.000	159.000	4.06400	8.7325
SSTLTM037	7.0000	98.000	159.000	4.06400	8.7325
SSTLTM038	7.1000	98.000	159.000	4.06400	8.7325
SSTLTM039	7.2000	102.000	162.000	4.06400	8.7325
SSTLTM040	7.5000	102.000	162.000	4.06400	8.7325
SSTLTM041	7.8000	102.000	162.000	4.06400	8.7325
SSTLTM042	8.0000	105.000	165.000	5.08000	9.5250
SSTLTM043	8.2000	105.000	165.000	5.08000	9.5250
SSTLTM044	8.5000	105.000	165.000	5.08000	9.5250
SSTLTM045	8.8000	108.000	171.000	5.08000	9.5250
SSTLTM046	9.0000	108.000	171.000	5.08000	9.5250
SSTLTM047	9.2000	108.000	171.000	5.08000	9.5250
SSTLTM048	9.5000	108.000	171.000	5.08000	9.5250
SSTLTM049	9.8000	111.000	178.000	6.12140	11.1125
SSTLTM050	10.0000	111.000	178.000	6.12140	11.1125
SSTLTM051	10.2000	111.000	178.000	6.12140	11.1125
SSTLTM052	10.5000	117.000	184.000	6.12140	11.1125
SSTLTM053	10.8000	117.000	184.000	6.12140	11.1125
SSTLTM054	11.0000	117.000	184.000	6.12140	11.1125
SSTLTM055	11.2000	121.000	190.000	6.12140	11.1125
SSTLTM056	11.5000	121.000	190.000	6.12140	11.1125
SSTLTM057	11.8000	121.000	190.000	6.12140	11.1125
SSTLTM058	12.0000	121.000	197.000	7.62000	12.7000
SSTLTM059	12.2000	121.000	197.000	7.62000	12.7000
SSTLTM060	12.5000	121.000	197.000	7.62000	12.7000

## METRIC TWIST DRILLS

### STRAIGHT SHANK TWIST DRILL - TAPER LENGTH - OVER 12.5 mm DIAMETER

#### Metric Sizes



#### Generic Part Name: SSTLOM

1. Corresponds to standard ANSI B94.11M-1979.
2. Enter values exactly as shown.
3. All dimensions are expressed in millimeters.

Instance Name	cutter_diam	flute_length	overall_length	body_length	shank_length_min	neck_length_max
SSTLOM001	12.8000	121.000	203.000	124.000	66.000	13.0000
SSTLOM002	13.0000	121.000	203.000	124.000	66.000	13.0000
SSTLOM003	13.2000	121.000	203.000	124.000	66.000	13.0000
SSTLOM004	13.5000	121.000	203.000	124.000	66.000	13.0000
SSTLOM005	13.8000	124.000	210.000	127.000	70.000	13.0000
SSTLOM006	14.0000	124.000	210.000	127.000	70.000	13.0000
SSTLOM007	14.2500	124.000	210.000	127.000	70.000	13.0000
SSTLOM008	14.5000	124.000	222.000	127.000	79.000	16.0000
SSTLOM009	14.7500	124.000	222.000	127.000	79.000	16.0000
SSTLOM010	15.0000	124.000	222.000	127.000	79.000	16.0000
SSTLOM011	15.2500	124.000	222.000	127.000	79.000	16.0000
SSTLOM012	15.5000	124.000	222.000	127.000	79.000	16.0000
SSTLOM013	15.7500	124.000	222.000	127.000	79.000	16.0000
SSTLOM014	16.0000	130.000	228.000	133.000	79.000	16.0000
SSTLOM015	16.2500	130.000	228.000	133.000	79.000	16.0000
SSTLOM016	16.5000	130.000	228.000	133.000	79.000	16.0000
SSTLOM017	16.7500	137.000	235.000	140.000	79.000	16.0000
SSTLOM018	17.0000	137.000	235.000	140.000	79.000	16.0000
SSTLOM019	17.2500	137.000	235.000	140.000	79.000	16.0000
SSTLOM020	17.5000	143.000	241.000	146.000	79.000	16.0000
SSTLOM021	18.0000	143.000	241.000	146.000	79.000	16.0000
SSTLOM022	18.5000	149.000	247.000	152.000	79.000	16.0000
SSTLOM023	19.0000	149.000	247.000	152.000	79.000	16.0000

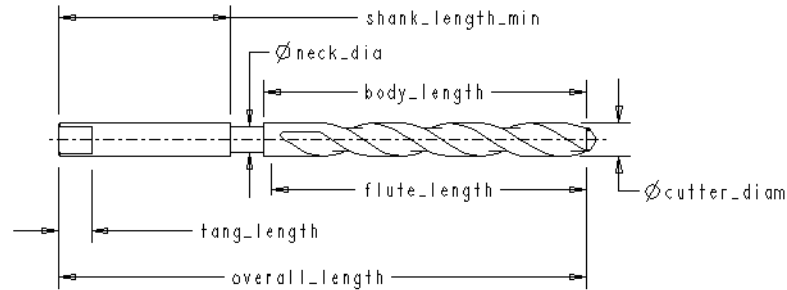
## METRIC TWIST DRILLS

Instance Name	cutter_ diam	flute_ length	overall_ length	body_ length	shank_length_ min	neck_length_ max
SSTLOM024	19.5000	152.000	251.000	156.000	79.000	16.0000
SSTLOM025	20.0000	156.000	254.000	159.000	79.000	16.0000
SSTLOM026	20.5000	156.000	254.000	159.000	79.000	16.0000
SSTLOM027	21.0000	156.000	254.000	159.000	79.000	16.0000
SSTLOM028	21.5000	156.000	254.000	159.000	79.000	16.0000
SSTLOM029	22.0000	156.000	254.000	159.000	79.000	16.0000
SSTLOM030	22.5000	156.000	254.000	159.000	79.000	16.0000
SSTLOM031	23.0000	156.000	254.000	159.000	79.000	16.0000
SSTLOM032	23.5000	156.000	273.000	159.000	98.000	16.0000
SSTLOM033	24.0000	162.000	279.000	165.000	98.000	16.0000
SSTLOM034	24.5000	162.000	279.000	165.000	98.000	16.0000
SSTLOM035	25.0000	162.000	279.000	165.000	98.000	16.0000
SSTLOM036	25.5000	165.000	282.000	168.000	98.000	16.0000
SSTLOM037	26.0000	165.000	282.000	168.000	98.000	16.0000
SSTLOM038	26.5000	168.000	286.000	172.000	98.000	16.0000
SSTLOM039	27.0000	168.000	286.000	172.000	98.000	16.0000
SSTLOM040	27.5000	175.000	292.000	178.000	98.000	16.0000
SSTLOM041	28.0000	181.000	298.000	184.000	98.000	16.0000
SSTLOM042	28.5000	181.000	298.000	184.000	98.000	16.0000
SSTLOM043	29.0000	184.000	301.000	187.000	98.000	16.0000
SSTLOM044	29.5000	187.000	305.000	191.000	98.000	16.0000
SSTLOM045	30.0000	187.000	305.000	191.000	98.000	16.0000
SSTLOM046	30.5000	190.000	308.000	194.000	98.000	16.0000
SSTLOM047	31.0000	200.000	317.000	203.000	98.000	16.0000
SSTLOM048	31.5000	200.000	317.000	203.000	98.000	16.0000
SSTLOM049	32.0000	216.000	359.000	219.000	124.000	16.0000
SSTLOM050	32.5000	216.000	359.000	219.000	124.000	16.0000
SSTLOM051	33.0000	219.000	362.000	222.000	124.000	16.0000
SSTLOM052	33.5000	222.000	365.000	225.000	124.000	16.0000
SSTLOM053	34.0000	222.000	365.000	225.000	124.000	16.0000
SSTLOM054	34.5000	225.000	368.000	229.000	124.000	16.0000
SSTLOM055	35.0000	229.000	372.000	232.000	124.000	16.0000
SSTLOM056	35.5000	229.000	372.000	232.000	124.000	16.0000
SSTLOM057	36.0000	232.000	375.000	235.000	124.000	16.0000
SSTLOM058	36.5000	232.000	375.000	235.000	124.000	16.0000
SSTLOM059	37.0000	235.000	378.000	238.000	124.000	16.0000
SSTLOM060	37.5000	238.000	381.000	241.000	124.000	16.0000
SSTLOM061	38.0000	238.000	381.000	241.000	124.000	16.0000

## METRIC TWIST DRILLS

### STRAIGHT SHANK TWIST DRILL - TAPER LENGTH WITH TANG - OVER 12.5 mm DIAMETER

#### Metric Sizes



#### Generic Part Name: SSTLOTM

##### Notes:

1. Corresponds to standard ANSI B94.11M-1979.
2. Enter values exactly as shown.
3. All dimensions are expressed in millimeters.

Instance Name	cutter_dia	flute_length	overall_length	body_length	shank_length_min	neck_length	tang_thick	tang_length
SSTLOTM001	12.8000	121.000	203.000	124.000	66.0000	13.0000	7.6200	12.7000
SSTLOTM002	13.0000	121.000	203.000	124.000	66.0000	13.0000	7.6200	12.7000
SSTLOTM003	13.2000	121.000	203.000	124.000	66.0000	13.0000	7.6200	12.7000
SSTLOTM004	13.5000	121.000	203.000	124.000	66.0000	13.0000	7.6200	12.7000
SSTLOTM005	13.8000	124.000	210.000	127.000	70.0000	13.0000	7.6200	12.7000
SSTLOTM006	14.0000	124.000	210.000	127.000	70.0000	13.0000	7.6200	12.7000
SSTLOTM007	14.2500	124.000	210.000	127.000	70.0000	13.0000	7.6200	12.7000
SSTLOTM008	14.5000	124.000	222.000	127.000	79.0000	16.0000	9.3980	14.2875
SSTLOTM009	14.7500	124.000	222.000	127.000	79.0000	16.0000	9.3980	14.2875
SSTLOTM010	15.0000	124.000	222.000	127.000	79.0000	16.0000	9.3980	14.2875
SSTLOTM011	15.2500	124.000	222.000	127.000	79.0000	16.0000	9.3980	14.2875
SSTLOTM012	15.5000	124.000	222.000	127.000	79.0000	16.0000	9.3980	14.2875
SSTLOTM013	15.7500	124.000	222.000	127.000	79.0000	16.0000	9.3980	14.2870
SSTLOTM014	16.0000	130.000	228.000	133.000	79.0000	16.0000	9.3980	14.2870
SSTLOTM015	16.2500	130.000	228.000	133.000	79.0000	16.0000	9.3980	14.2870
SSTLOTM016	16.5000	130.000	228.000	133.000	79.0000	16.0000	9.3980	14.2870
SSTLOTM017	16.7500	137.000	235.000	140.000	79.0000	16.0000	11.1760	15.8750
SSTLOTM018	17.0000	137.000	235.000	140.000	79.0000	16.0000	11.1760	15.8750
SSTLOTM019	17.2500	137.000	235.000	140.000	79.0000	16.0000	11.1760	15.8750
SSTLOTM020	17.5000	143.000	241.000	146.000	79.0000	16.0000	11.1760	15.8750
SSTLOTM021	18.0000	143.000	241.000	146.000	79.0000	16.0000	11.1760	15.8750

## METRIC TWIST DRILLS

Instance Name	cutter_ diam	flute_ length	overall_ length	body_ length	shank_ length_ min	neck_ length	tang_ thick	tang_ length
SSTLOTM022	18.5000	149.000	247.000	152.000	79.0000	16.0000	11.1760	15.8750
SSTLOTM023	19.0000	149.000	247.000	152.000	79.0000	16.0000	11.1760	15.8750
SSTLOTM024	19.5000	152.000	251.000	156.000	79.0000	16.0000	12.9790	17.4630
SSTLOTM025	20.0000	156.000	254.000	159.000	79.0000	16.0000	12.9790	17.4630
SSTLOTM026	20.5000	156.000	254.000	159.000	79.0000	16.0000	12.9790	17.4630
SSTLOTM027	21.0000	156.000	254.000	159.000	79.0000	16.0000	12.9790	17.4630
SSTLOTM028	21.5000	156.000	254.000	159.000	79.0000	16.0000	12.9790	17.4630
SSTLOTM029	22.0000	156.000	254.000	159.000	79.0000	16.0000	12.9790	17.4630
SSTLOTM030	22.5000	156.000	254.000	159.000	79.0000	16.0000	15.3670	19.0500
SSTLOTM031	23.0000	156.000	254.000	159.000	79.0000	16.0000	15.3670	19.0500
SSTLOTM032	23.5000	156.000	273.000	159.000	98.0000	16.0000	15.3670	19.0500
SSTLOTM033	24.0000	162.000	279.000	165.000	98.0000	16.0000	15.3670	19.0500
SSTLOTM034	24.5000	162.000	279.000	165.000	98.0000	16.0000	15.3670	19.0500
SSTLOTM035	25.0000	162.000	279.000	165.000	98.0000	16.0000	15.3670	19.0500
SSTLOTM036	25.5000	165.000	282.000	168.000	98.0000	16.0000	17.6780	20.6380
SSTLOTM037	26.0000	165.000	282.000	168.000	98.0000	16.0000	17.6780	20.6380
SSTLOTM038	26.5000	168.000	286.000	172.000	98.0000	16.0000	17.6780	20.6380
SSTLOTM039	27.0000	168.000	286.000	172.000	98.0000	16.0000	17.6780	20.6380
SSTLOTM040	27.5000	175.000	292.000	178.000	98.0000	16.0000	17.6780	20.6380
SSTLOTM041	28.0000	181.000	298.000	184.000	98.0000	16.0000	17.6780	20.6380
SSTLOTM042	28.5000	181.000	298.000	184.000	98.0000	16.0000	17.6780	20.6380
SSTLOTM043	29.0000	184.000	301.000	187.000	98.0000	16.0000	17.6780	20.6380
SSTLOTM044	29.5000	187.000	305.000	191.000	98.0000	16.0000	17.6780	20.6380
SSTLOTM045	30.0000	187.000	305.000	191.000	98.0000	16.0000	17.6780	20.6380
SSTLOTM046	30.5000	190.000	308.000	194.000	98.0000	16.0000	20.6500	22.2250
SSTLOTM047	31.0000	200.000	317.000	203.000	98.0000	16.0000	20.6500	22.2250
SSTLOTM048	31.5000	200.000	317.000	203.000	98.0000	16.0000	20.6500	22.2250
SSTLOTM049	32.0000	216.000	359.000	219.000	98.0000	16.0000	20.6500	22.2250
SSTLOTM050	32.5000	216.000	359.000	219.000	98.0000	16.0000	20.6500	22.2250
SSTLOTM051	33.0000	219.000	362.000	222.000	98.0000	16.0000	20.6500	22.2250
SSTLOTM052	33.5000	222.000	365.000	225.000	98.0000	16.0000	20.6500	22.2250
SSTLOTM053	34.0000	222.000	365.000	225.000	98.0000	16.0000	20.6500	22.2250
SSTLOTM054	34.5000	225.000	368.000	229.000	98.0000	16.0000	20.6500	22.2250

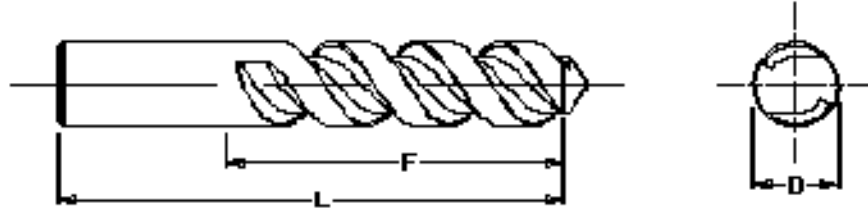
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## METRIC TWIST DRILLS

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### STRAIGHT SHANK TWIST DRILL - SCREW MACHINE LENGTH - THROUGH 25 mm DIAMETER

#### Metric Sizes



#### Generic Part Name: SSSML

##### Notes:

1. Corresponds to standard ANSI B94.11M-1979.
2. Enter values exactly as shown.
3. All dimensions are expressed in millimeters.

Instance Name	cutter_diam	flute_length	overall_length
SSSMLM001	1.0000	13.000	35.000
SSSMLM002	1.0500	13.000	35.000
SSSMLM003	1.1000	13.000	35.000
SSSMLM004	1.1500	13.000	35.000
SSSMLM005	1.2000	16.000	41.000
SSSMLM006	1.2500	16.000	41.000
SSSMLM007	1.3000	16.000	41.000
SSSMLM008	1.3500	16.000	41.000
SSSMLM009	1.4000	16.000	41.000
SSSMLM010	1.4500	16.000	41.000
SSSMLM011	1.5000	16.000	41.000
SSSMLM012	1.5500	16.000	41.000
SSSMLM013	1.6000	17.000	43.000
SSSMLM014	1.6500	17.000	43.000
SSSMLM015	1.7000	17.000	43.000
SSSMLM016	1.7500	17.000	43.000
SSSMLM017	1.8000	17.000	43.000
SSSMLM018	1.8500	17.000	43.000
SSSMLM019	1.9000	17.000	43.000
SSSMLM020	1.9500	17.000	43.000
SSSMLM021	2.0000	17.000	43.000
SSSMLM022	2.0500	19.000	44.000
SSSMLM023	2.1000	19.000	44.000

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## METRIC TWIST DRILLS

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Instance Name	cutter_diam	flute_length	overall_length
SSSMLM024	2.1500	19.000	44.000
SSSMLM025	2.2000	19.000	44.000
SSSMLM026	2.2500	19.000	44.000
SSSMLM027	2.3000	19.000	44.000
SSSMLM028	2.3500	19.000	44.000
SSSMLM029	2.4000	21.000	46.000
SSSMLM030	2.4500	21.000	46.000
SSSMLM031	2.5000	21.000	46.000
SSSMLM032	2.6000	21.000	46.000
SSSMLM033	2.7000	21.000	46.000
SSSMLM034	2.8000	22.000	48.000
SSSMLM035	2.9000	22.000	48.000
SSSMLM036	3.0000	22.000	48.000
SSSMLM037	3.1000	22.000	48.000
SSSMLM038	3.2000	24.000	49.000
SSSMLM039	3.3000	24.000	49.000
SSSMLM040	3.4000	24.000	49.000
SSSMLM042	3.5000	24.000	49.000
SSSMLM043	3.6000	25.000	52.000
SSSMLM044	3.7000	25.000	52.000
SSSMLM045	3.8000	25.000	52.000
SSSMLM046	3.9000	25.000	52.000
SSSMLM047	4.0000	27.000	54.000
SSSMLM048	4.1000	27.000	54.000
SSSMLM049	4.2000	27.000	54.000
SSSMLM050	4.3000	27.000	54.000
SSSMLM051	4.4000	29.000	56.000
SSSMLM052	4.5000	29.000	56.000
SSSMLM053	4.6000	29.000	56.000
SSSMLM054	4.7000	29.000	56.000
SSSMLM055	4.8000	30.000	57.000
SSSMLM056	4.9000	30.000	57.000
SSSMLM057	5.0000	30.000	57.000
SSSMLM058	5.1000	30.000	57.000
SSSMLM059	5.2000	32.000	60.000
SSSMLM060	5.3000	32.000	60.000
SSSMLM061	5.4000	32.000	60.000
SSSMLM062	5.5000	32.000	60.000
SSSMLM063	5.6000	33.000	62.000

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## METRIC TWIST DRILLS

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Instance Name	cutter_diam	flute_length	overall_length
SSSMLM064	5.7000	33.000	62.000
SSSMLM065	5.8000	33.000	62.000
SSSMLM066	5.9000	33.000	62.000
SSSMLM067	6.0000	35.000	64.000
SSSMLM068	6.1000	35.000	64.000
SSSMLM069	6.2000	35.000	64.000
SSSMLM070	6.3000	35.000	64.000
SSSMLM071	6.4000	37.000	67.000
SSSMLM072	6.5000	37.000	67.000
SSSMLM073	6.6000	37.000	67.000
SSSMLM074	6.7000	37.000	67.000
SSSMLM075	6.8000	38.000	68.000
SSSMLM076	6.9000	38.000	68.000
SSSMLM077	7.0000	38.000	68.000
SSSMLM078	7.1000	38.000	68.000
SSSMLM079	7.2000	40.000	70.000
SSSMLM080	7.3000	40.000	70.000
SSSMLM081	7.4000	40.000	70.000
SSSMLM082	7.5000	40.000	70.000
SSSMLM083	7.6000	41.000	71.000
SSSMLM084	7.7000	41.000	71.000
SSSMLM085	7.8000	41.000	71.000
SSSMLM086	7.9000	41.000	71.000
SSSMLM087	8.0000	43.000	75.000
SSSMLM088	8.1000	43.000	75.000
SSSMLM089	8.2000	43.000	75.000
SSSMLM090	8.3000	43.000	75.000
SSSMLM091	8.4000	43.000	76.000
SSSMLM092	8.5000	43.000	76.000
SSSMLM093	8.6000	43.000	76.000
SSSMLM094	8.7000	43.000	76.000
SSSMLM095	8.8000	44.000	78.000
SSSMLM096	8.9000	44.000	78.000
SSSMLM097	9.0000	44.000	78.000
SSSMLM098	9.1000	44.000	78.000
SSSMLM099	9.2000	46.000	79.000
SSSMLM100	9.3000	46.000	79.000
SSSMLM101	9.4000	46.000	79.000
SSSMLM102	9.5000	46.000	79.000

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## METRIC TWIST DRILLS

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Instance Name	cutter_diam	flute_length	overall_length
SSSMLM103	9.6000	48.000	83.000
SSSMLM104	9.7000	48.000	83.000
SSSMLM105	9.8000	48.000	83.000
SSSMLM106	9.9000	48.000	83.000
SSSMLM107	10.0000	49.000	84.000
SSSMLM108	10.2000	49.000	84.000
SSSMLM109	10.5000	51.000	86.000
SSSMLM110	10.8000	52.000	87.000
SSSMLM111	11.0000	52.000	87.000
SSSMLM112	11.2000	54.000	90.000
SSSMLM113	11.5000	54.000	90.000
SSSMLM114	11.8000	54.000	92.000
SSSMLM115	12.0000	56.000	94.000
SSSMLM116	12.2000	56.000	94.000
SSSMLM117	12.5000	57.000	95.000
SSSMLM118	12.8000	60.000	98.000
SSSMLM119	13.0000	60.000	98.000
SSSMLM120	13.2000	60.000	98.000
SSSMLM121	13.5000	60.000	98.000
SSSMLM122	13.8000	64.000	102.000
SSSMLM123	14.0000	64.000	102.000
SSSMLM124	14.2500	64.000	102.000
SSSMLM125	14.5000	67.000	105.000
SSSMLM126	14.7500	67.000	105.000
SSSMLM127	15.0000	67.000	105.000
SSSMLM128	15.2500	70.000	108.000
SSSMLM129	15.5000	70.000	108.000
SSSMLM130	15.7500	70.000	108.000
SSSMLM131	16.0000	73.000	114.000
SSSMLM132	16.2500	73.000	114.000
SSSMLM133	16.5000	73.000	114.000
SSSMLM134	16.7500	73.000	114.000
SSSMLM135	17.0000	73.000	114.000
SSSMLM136	17.2500	73.000	114.000
SSSMLM137	17.5000	76.000	121.000
SSSMLM138	18.0000	76.000	121.000
SSSMLM139	18.5000	79.000	127.000
SSSMLM140	19.0000	79.000	127.000
SSSMLM141	19.5000	83.000	130.000

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## METRIC TWIST DRILLS

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Instance Name	cutter_diam	flute_length	overall_length
SSSMLM142	20.0000	86.000	133.000
SSSMLM143	20.5000	86.000	133.000
SSSMLM144	21.0000	89.000	137.000
SSSMLM145	21.5000	89.000	137.000
SSSMLM146	22.0000	89.000	137.000
SSSMLM147	22.5000	92.000	143.000
SSSMLM148	23.0000	92.000	143.000
SSSMLM149	23.5000	95.000	146.000
SSSMLM150	24.0000	98.000	149.000
SSSMLM151	24.5000	98.000	149.000
SSSMLM152	25.0000	102.000	152.000

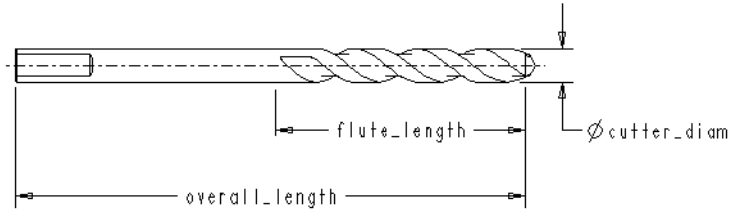
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## METRIC TWIST DRILLS

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### STRAIGHT SHANK TWIST DRILL - SCREW MACHINE LENGTH WITH TANGS - THROUGH 25 mm DIAMETER

#### Metric Sizes



#### Generic Part Name: SSSMLTM

##### Notes:

1. Corresponds to standard ANSI B94.11M-1979.
2. Enter values exactly as shown.
3. All dimensions are expressed in millimeters.

Instance Name	cutter_diam	flute_length	overall_length
SSSMLTM001	3.2000	24.000	49.000
SSSMLTM002	3.3000	24.000	49.000
SSSMLTM003	3.4000	24.000	49.000
SSSMLTM004	3.5000	24.000	49.000
SSSMLTM005	3.6000	25.000	52.000
SSSMLTM006	3.7000	25.000	52.000
SSSMLTM007	3.8000	25.000	52.000
SSSMLTM008	3.9000	25.000	52.000
SSSMLTM009	4.0000	27.000	54.000
SSSMLTM010	4.1000	27.000	54.000
SSSMLTM011	4.2000	27.000	54.000
SSSMLTM012	4.3000	27.000	54.000
SSSMLTM013	4.4000	29.000	56.000
SSSMLTM014	4.5000	29.000	56.000
SSSMLTM015	4.6000	29.000	56.000
SSSMLTM016	4.7000	29.000	56.000
SSSMLTM017	4.8000	30.000	57.000
SSSMLTM018	4.9000	30.000	57.000
SSSMLTM019	5.0000	30.000	57.000
SSSMLTM020	5.1000	30.000	57.000
SSSMLTM021	5.2000	32.000	60.000
SSSMLTM022	5.3000	32.000	60.000
SSSMLTM023	5.4000	32.000	60.000
SSSMLTM024	5.5000	32.000	60.000

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## METRIC TWIST DRILLS

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Instance Name	cutter_diam	flute_length	overall_length
SSSMLTM025	5.6000	33.000	62.000
SSSMLTM026	5.7000	33.000	62.000
SSSMLTM027	5.8000	33.000	62.000
SSSMLTM028	5.9000	33.000	62.000
SSSMLTM029	6.0000	35.000	64.000
SSSMLTM030	6.1000	35.000	64.000
SSSMLTM031	6.2000	35.000	64.000
SSSMLTM032	6.3000	35.000	64.000
SSSMLTM033	6.4000	37.000	67.000
SSSMLTM034	6.5000	37.000	67.000
SSSMLTM035	6.6000	37.000	67.000
SSSMLTM036	6.7000	37.000	67.000
SSSMLTM037	6.8000	38.000	68.000
SSSMLTM038	6.9000	38.000	68.000
SSSMLTM039	7.0000	38.000	68.000
SSSMLTM040	7.1000	38.000	68.000
SSSMLTM041	7.2000	40.000	70.000
SSSMLTM042	7.3000	40.000	70.000
SSSMLTM043	7.4000	40.000	70.000
SSSMLTM044	7.5000	40.000	70.000
SSSMLTM045	7.6000	41.000	71.000
SSSMLTM046	7.7000	41.000	71.000
SSSMLTM047	7.8000	41.000	71.000
SSSMLTM048	7.9000	41.000	71.000
SSSMLTM049	8.0000	43.000	75.000
SSSMLTM050	8.1000	43.000	75.000
SSSMLTM051	8.2000	43.000	75.000
SSSMLTM052	8.3000	43.000	75.000
SSSMLTM053	8.4000	43.000	76.000
SSSMLTM054	8.5000	43.000	76.000
SSSMLTM055	8.6000	43.000	76.000
SSSMLTM056	8.7000	43.000	76.000
SSSMLTM057	8.8000	44.000	78.000
SSSMLTM058	8.9000	44.000	78.000
SSSMLTM059	9.0000	44.000	78.000
SSSMLTM060	9.1000	44.000	78.000
SSSMLTM061	9.2000	46.000	79.000
SSSMLTM062	9.3000	46.000	79.000
SSSMLTM063	9.4000	46.000	79.000

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## METRIC TWIST DRILLS

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Instance Name	cutter_diam	flute_length	overall_length
SSSMLTM064	9.5000	46.000	79.000
SSSMLTM065	9.6000	48.000	83.000
SSSMLTM066	9.7000	48.000	83.000
SSSMLTM067	9.8000	48.000	83.000
SSSMLTM068	9.9000	48.000	83.000
SSSMLTM069	10.0000	49.000	84.000
SSSMLTM070	10.2000	49.000	84.000
SSSMLTM071	10.5000	51.000	86.000
SSSMLTM072	10.8000	52.000	87.000
SSSMLTM073	11.0000	52.000	87.000
SSSMLTM074	11.2000	54.000	90.000
SSSMLTM075	11.5000	54.000	90.000
SSSMLTM076	11.8000	54.000	92.000
SSSMLTM077	12.0000	56.000	94.000
SSSMLTM078	12.2000	56.000	94.000
SSSMLTM079	12.5000	57.000	95.000
SSSMLTM080	12.8000	60.000	98.000
SSSMLTM081	13.0000	60.000	98.000
SSSMLTM082	13.2000	60.000	98.000
SSSMLTM083	13.5000	60.000	98.000
SSSMLTM084	13.8000	64.000	102.000
SSSMLTM085	14.0000	64.000	102.000
SSSMLTM086	14.2500	64.000	102.000
SSSMLTM087	14.5000	67.000	105.000
SSSMLTM088	14.7500	67.000	105.000
SSSMLTM089	15.0000	67.000	105.000
SSSMLTM090	15.2500	70.000	108.000
SSSMLTM091	15.5000	70.000	108.000
SSSMLTM092	15.7500	70.000	108.000
SSSMLTM093	16.0000	73.000	114.000
SSSMLTM094	16.2500	73.000	114.000
SSSMLTM095	16.5000	73.000	114.000
SSSMLTM096	16.7500	73.000	114.000
SSSMLTM097	17.0000	73.000	114.000
SSSMLTM098	17.2500	73.000	114.000
SSSMLTM099	17.5000	76.000	121.000
SSSMLTM100	18.0000	76.000	121.000
SSSMLTM101	18.5000	79.000	127.000
SSSMLTM102	19.0000	79.000	127.000

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## METRIC TWIST DRILLS

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Instance Name	cutter_diam	flute_length	overall_length
SSSMLTM103	19.5000	83.000	130.000
SSSMLTM104	20.0000	86.000	133.000
SSSMLTM105	20.5000	86.000	133.000
SSSMLTM106	21.0000	89.000	137.000
SSSMLTM107	21.5000	89.000	137.000
SSSMLTM108	22.0000	89.000	137.000
SSSMLTM109	22.5000	92.000	143.000
SSSMLTM110	23.0000	92.000	143.000
SSSMLTM111	23.5000	95.000	146.000
SSSMLTM112	24.0000	98.000	149.000
SSSMLTM113	24.5000	98.000	149.000
SSSMLTM114	25.0000	102.000	152.000

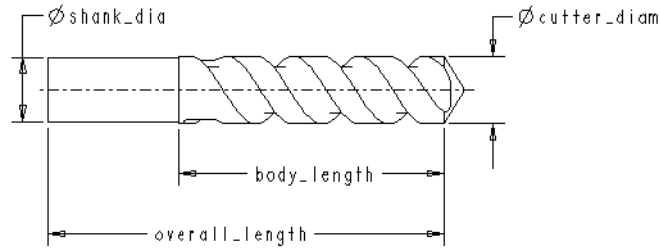
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## METRIC TWIST DRILLS

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### STRAIGHT SHANK TWIST DRILL - SCREW MACHINE LENGTH - OVER 25 mm DIAMETER

#### Metric Sizes



#### Generic Part Name: SSTDM

##### Notes:

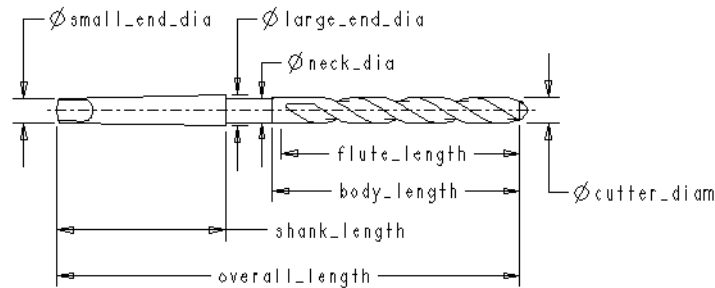
1. Corresponds to standard ANSI B94.11M-1979.
2. Enter values exactly as shown.
3. All dimensions are expressed in millimeters.

Instance Name	cutter_diam	flute_length	overall_length	shank_dia
SSTDM001	26.0000	102.000	152.000	25.0000
SSTDM002	28.0000	102.000	152.000	25.0000
SSTDM003	30.0000	108.000	168.000	25.0000
SSTDM004	32.0000	111.000	178.000	31.5000
SSTDM005	34.0000	114.000	181.000	31.5000
SSTDM006	36.0000	121.000	187.000	31.5000
SSTDM007	38.0000	124.000	190.000	31.5000
SSTDM008	40.0000	124.000	197.000	38.0000
SSTDM009	42.0000	130.000	203.000	38.0000
SSTDM010	44.0000	130.000	203.000	38.0000
SSTDM011	46.0000	137.000	210.000	38.0000
SSTDM012	48.0000	143.000	216.000	38.0000
SSTDM013	50.0000	143.000	216.000	38.0000

## METRIC TWIST DRILLS

### TAPER SHANK TWIST DRILL - REGULAR SHANK

#### Metric Sizes



#### Generic Part Name: TSDRM

##### Notes:

1. Corresponds to standard ANSI B94.11M-1979.
2. Enter values exactly as shown.
3. All dimensions are expressed in millimeters.

Instance Name	cutter_diam	Morse Taper	flute_length	overall_length
TSDRM001	3.0000	1.00000	48.000	130.000
TSDRM002	3.2000	1.00000	54.000	137.000
TSDRM003	3.5000	1.00000	54.000	137.000
TSDRM004	3.8000	1.00000	54.000	137.000
TSDRM005	4.0000	1.00000	64.000	146.000
TSDRM006	4.2000	1.00000	64.000	146.000
TSDRM007	4.5000	1.00000	64.000	146.000
TSDRM008	4.8000	1.00000	70.000	152.000
TSDRM009	5.0000	1.00000	70.000	152.000
TSDRM010	5.2000	1.00000	70.000	152.000
TSDRM011	5.5000	1.00000	70.000	152.000
TSDRM012	5.8000	1.00000	73.000	156.000
TSDRM013	6.0000	1.00000	73.000	156.000
TSDRM014	6.2000	1.00000	73.000	156.000
TSDRM015	6.5000	1.00000	76.000	159.000
TSDRM016	6.8000	1.00000	76.000	159.000
TSDRM017	7.0000	1.00000	76.000	159.000
TSDRM018	7.2000	1.00000	79.000	162.000
TSDRM019	7.5000	1.00000	79.000	162.000
TSDRM020	7.8000	1.00000	79.000	162.000
TSDRM021	8.0000	1.00000	83.000	165.000
TSDRM022	8.2000	1.00000	83.000	165.000

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## METRIC TWIST DRILLS

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Instance Name	cutter_diam	Morse Taper	flute_length	overall_length
TSDRM023	8.5000	1.00000	83.000	165.000
TSDRM024	8.8000	1.00000	89.000	171.000
TSDRM025	9.0000	1.00000	89.000	171.000
TSDRM026	9.2000	1.00000	89.000	171.000
TSDRM027	9.5000	1.00000	89.000	171.000
TSDRM028	9.8000	1.00000	92.000	178.000
TSDRM029	10.0000	1.00000	92.000	178.000
TSDRM030	10.2000	1.00000	92.000	178.000
TSDRM031	10.5000	1.00000	98.000	184.000
TSDRM032	10.8000	1.00000	98.000	184.000
TSDRM033	11.0000	1.00000	98.000	184.000
TSDRM034	11.2000	1.00000	105.000	190.000
TSDRM035	11.5000	1.00000	105.000	190.000
TSDRM036	11.8000	1.00000	105.000	190.000
TSDRM037	12.0000	2.00000	111.000	210.000
TSDRM038	12.2000	2.00000	111.000	210.000
TSDRM039	12.5000	2.00000	111.000	210.000
TSDRM040	12.8000	2.00000	117.000	216.000
TSDRM041	13.0000	2.00000	117.000	216.000
TSDRM042	13.2000	2.00000	117.000	216.000
TSDRM043	13.5000	2.00000	117.000	216.000
TSDRM044	13.8000	2.00000	124.000	222.000
TSDRM045	14.0000	2.00000	124.000	222.000
TSDRM046	14.2500	2.00000	124.000	222.000
TSDRM047	14.5000	2.00000	124.000	222.000
TSDRM048	14.7500	2.00000	124.000	222.000
TSDRM049	15.0000	2.00000	124.000	222.000
TSDRM050	15.2500	2.00000	124.000	222.000
TSDRM051	15.5000	2.00000	124.000	222.000
TSDRM052	15.7500	2.00000	124.000	222.000
TSDRM053	16.0000	2.00000	130.000	229.000
TSDRM054	16.2500	2.00000	130.000	229.000
TSDRM055	16.5000	2.00000	130.000	229.000
TSDRM056	16.7500	2.00000	137.000	235.000
TSDRM057	17.0000	2.00000	137.000	235.000
TSDRM058	17.2500	2.00000	137.000	235.000
TSDRM059	17.5000	2.00000	143.000	241.000
TSDRM060	18.0000	2.00000	143.000	241.000
TSDRM061	18.5000	2.00000	149.000	248.000

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## METRIC TWIST DRILLS

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Instance Name	cutter_diam	Morse Taper	flute_length	overall_length
TSDRM062	19.0000	2.00000	149.000	248.000
TSDRM063	19.5000	2.00000	152.000	251.000
TSDRM064	20.0000	3.00000	156.000	273.000
TSDRM065	20.5000	3.00000	156.000	273.000
TSDRM066	21.0000	3.00000	156.000	273.000
TSDRM067	21.5000	3.00000	156.000	273.000
TSDRM068	22.0000	3.00000	156.000	273.000
TSDRM069	22.5000	3.00000	156.000	273.000
TSDRM070	23.0000	3.00000	156.000	273.000
TSDRM071	23.5000	3.00000	156.000	273.000
TSDRM072	24.0000	3.00000	162.000	279.000
TSDRM073	24.5000	3.00000	162.000	279.000
TSDRM074	25.0000	3.00000	162.000	279.000
TSDRM075	25.5000	3.00000	165.000	283.000
TSDRM076	26.0000	3.00000	165.000	283.000
TSDRM077	26.5000	3.00000	168.000	286.000
TSDRM078	27.0000	3.00000	168.000	286.000
TSDRM079	27.5000	4.00000	175.000	318.000
TSDRM080	28.0000	4.00000	181.000	324.000
TSDRM081	28.5000	4.00000	181.000	324.000
TSDRM082	29.0000	4.00000	184.000	327.000
TSDRM083	29.5000	4.00000	187.000	330.000
TSDRM084	30.0000	4.00000	187.000	330.000
TSDRM085	30.5000	4.00000	190.000	333.000
TSDRM086	31.0000	4.00000	200.000	343.000
TSDRM087	31.5000	4.00000	200.000	343.000
TSDRM088	32.0000	4.00000	216.000	359.000
TSDRM089	32.5000	4.00000	216.000	359.000
TSDRM090	33.0000	4.00000	219.000	362.000
TSDRM091	33.5000	4.00000	222.000	365.000
TSDRM092	34.0000	4.00000	222.000	365.000
TSDRM093	34.5000	4.00000	225.000	368.000
TSDRM094	35.0000	4.00000	229.000	371.000
TSDRM095	35.5000	4.00000	229.000	371.000
TSDRM096	36.0000	4.00000	232.000	375.000
TSDRM097	36.5000	4.00000	232.000	375.000
TSDRM098	37.0000	4.00000	235.000	378.000
TSDRM099	37.5000	4.00000	238.000	381.000
TSDRM100	38.0000	4.00000	238.000	381.000

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## METRIC TWIST DRILLS

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Instance Name	cutter_diam	Morse Taper	flute_length	overall_length
TSDRM101	39.0000	5.00000	244.000	422.000
TSDRM102	40.0000	5.00000	251.000	429.000
TSDRM103	41.0000	5.00000	254.000	432.000
TSDRM104	42.0000	5.00000	257.000	435.000
TSDRM105	43.0000	5.00000	257.000	435.000
TSDRM106	44.0000	5.00000	257.000	435.000
TSDRM107	45.0000	5.00000	257.000	435.000
TSDRM108	46.0000	5.00000	257.000	435.000
TSDRM109	47.0000	5.00000	264.000	441.000
TSDRM110	48.0000	5.00000	264.000	441.000
TSDRM111	49.0000	5.00000	264.000	441.000
TSDRM112	50.0000	5.00000	264.000	441.000
TSDRM113	51.0000	5.00000	264.000	441.000
TSDRM114	52.0000	5.00000	260.000	441.000
TSDRM115	53.0000	5.00000	260.000	441.000
TSDRM116	54.0000	5.00000	260.000	441.000
TSDRM117	55.0000	5.00000	260.000	441.000
TSDRM118	56.0000	5.00000	257.000	441.000
TSDRM119	57.0000	5.00000	257.000	441.000
TSDRM120	58.0000	5.00000	257.000	441.000
TSDRM121	59.0000	5.00000	257.000	441.000
TSDRM122	60.0000	5.00000	257.000	441.000
TSDRM123	61.0000	5.00000	286.000	476.000
TSDRM124	62.0000	5.00000	286.000	476.000
TSDRM125	63.0000	5.00000	286.000	476.000
TSDRM126	64.0000	5.00000	302.000	495.000
TSDRM127	65.0000	5.00000	302.000	495.000
TSDRM128	66.0000	5.00000	302.000	495.000
TSDRM129	67.0000	5.00000	324.000	518.000
TSDRM130	68.0000	5.00000	324.000	518.000
TSDRM131	69.0000	5.00000	324.000	518.000
TSDRM132	70.0000	5.00000	340.000	537.000
TSDRM133	71.0000	5.00000	340.000	537.000
TSDRM134	72.0000	5.00000	340.000	537.000
TSDRM135	73.0000	5.00000	340.000	537.000
TSDRM136	74.0000	5.00000	356.000	552.000
TSDRM137	75.0000	5.00000	356.000	552.000
TSDRM138	76.0000	5.00000	356.000	552.000

## METRIC TWIST DRILLS

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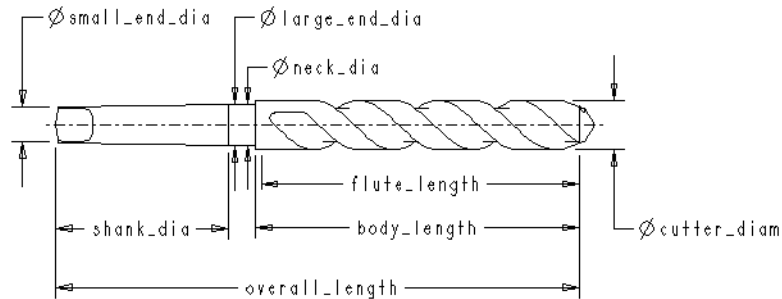
Instance Name	cutter_diam	Morse Taper	flute_length	overall_length
TSDRM139	77.0000	6.00000	371.000	622.000
TSDRM140	78.0000	6.00000	371.000	622.000

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## METRIC TWIST DRILLS

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### TAPER SHANK TWIST DRILL - SHANK SMALLER THAN REGULAR Metric Sizes



#### Generic Part Name: TSDSM

##### Notes:

1. Corresponds to standard ANSI B94.11M-1979.
2. Enter values exactly as shown.
3. All dimensions are expressed in millimeters.

Instance Name	cutter_diam	Morse Taper	flute_length	overall_length
TSDSM001	12.0000	1.00000	111.000	197.000
TSDSM002	12.2000	1.00000	111.000	197.000
TSDSM003	12.5000	1.00000	111.000	197.000
TSDSM004	12.7000	1.00000	111.000	197.000
TSDSM005	12.8000	1.00000	117.000	203.000
TSDSM006	13.0000	1.00000	117.000	203.000
TSDSM007	13.2000	1.00000	117.000	203.000
TSDSM008	13.5000	1.00000	117.000	203.000
TSDSM009	13.8000	1.00000	124.000	210.000
TSDSM010	14.0000	1.00000	124.000	210.000
TSDSM011	14.2500	1.00000	124.000	210.000
TSDSM012	20.0000	2.00000	156.000	254.000
TSDSM013	20.5000	2.00000	156.000	254.000
TSDSM014	21.0000	2.00000	156.000	254.000
TSDSM015	21.5000	2.00000	156.000	254.000
TSDSM016	22.0000	2.00000	156.000	254.000
TSDSM017	22.5000	2.00000	156.000	254.000
TSDSM018	23.0000	2.00000	156.000	254.000
TSDSM019	27.5000	3.00000	175.000	292.000
TSDSM020	28.0000	3.00000	181.000	298.000
TSDSM021	28.5000	3.00000	181.000	298.000
TSDSM022	29.0000	3.00000	184.000	302.000

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## METRIC TWIST DRILLS

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Instance Name	cutter_diam	Morse Taper	flute_length	overall_length
TSDSM023	29.5000	3.00000	187.000	305.000
TSDSM024	30.0000	3.00000	187.000	305.000
TSDSM025	30.5000	3.00000	190.000	308.000
TSDSM026	31.0000	3.00000	200.000	318.000
TSDSM027	31.5000	3.00000	200.000	318.000
TSDSM028	39.0000	4.00000	244.000	387.000
TSDSM029	40.0000	4.00000	251.000	394.000
TSDSM030	41.0000	4.00000	254.000	397.000
TSDSM031	42.0000	4.00000	257.000	400.000
TSDSM032	43.0000	4.00000	257.000	400.000
TSDSM033	44.0000	4.00000	264.000	413.000
TSDSM034	45.0000	4.00000	264.000	413.000
TSDSM035	46.0000	4.00000	264.000	413.000
TSDSM036	47.0000	4.00000	267.000	419.000
TSDSM037	48.0000	4.00000	267.000	419.000
TSDSM038	49.0000	4.00000	270.000	422.000
TSDSM039	50.0000	4.00000	270.000	422.000
TSDSM040	77.0000	5.00000	362.000	559.000
TSDSM041	78.0000	5.00000	362.000	559.000

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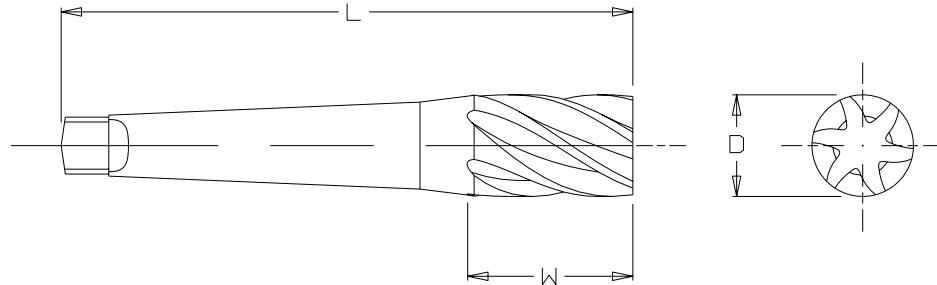
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# MILLING CUTTERS AND END MILLS

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## MULTIPLE FLUTE - HELICAL SERIES END MILL - WITH BROWN AND SHARPE TAPER

High Speed Steel



### Generic Part Name: MFBSTS

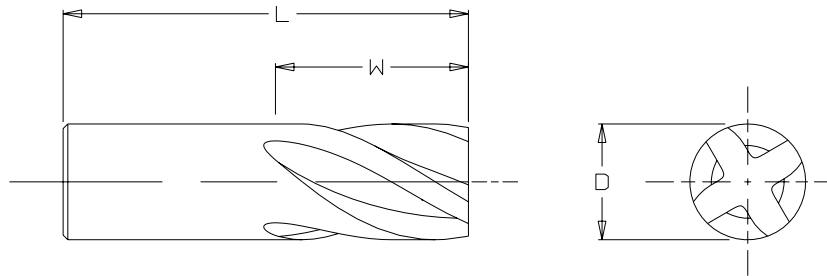
#### Notes:

1. Corresponds to standard ANSI/ASME B94.19-1985.
2. Enter values exactly as shown.

Instance Name	D Cutter Dia.	W Cutter Length	L Tool Length	Taper Number
MFBSTS1	0.5000	0.9375	4.9400	7.000
MFBSTS2	0.7500	1.2500	5.2500	7.000
MFBSTS3	1.0000	1.6250	5.6250	7.000
MFBSTS4	1.2500	2.0000	7.2500	9.000
MFBSTS5	1.5000	2.2500	7.5000	9.000
MFBSTS6	2.0000	2.7500	8.0000	9.000

## MULTIPLE FLUTE - HELICAL SERIES END MILL - PLAIN STRAIGHT SHANKS

High Speed Steel



### Generic Part Name: MFEMPSS

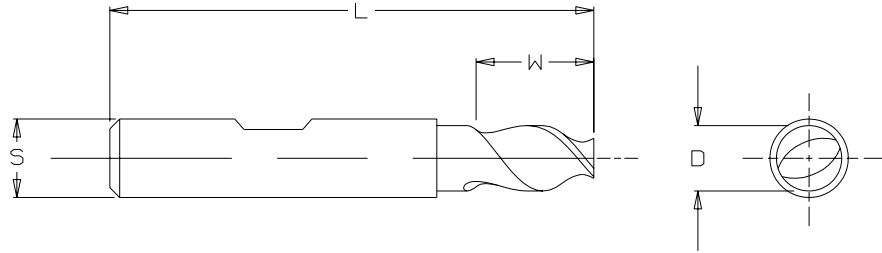
#### Notes:

1. Corresponds to standard ANSI/ASME B94.19-1985.
2. Enter values exactly as shown.

Instance Name	D Cutter Diameter	W Cutter Length	L Tool Length
MFEMPSS1	0.1250	0.3125	1.2500
MFEMPSS2	0.1875	0.5000	1.3750
MFEMPSS3	0.2500	0.6250	1.6875
MFEMPSS4	0.3750	0.7500	1.8125
MFEMPSS5	0.5000	0.9375	2.2500
MFEMPSS6	0.7500	1.2500	2.6250

## TWO FLUTE - SINGLE END - HELICAL SERIES END MILL FOR KEYWAY CUTTING WITH WELDON SHANKS

High Speed Steel



### Generic Part Name: KCTFEM

#### Notes:

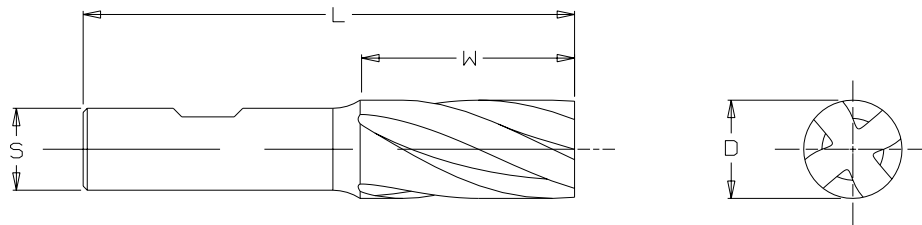
1. Corresponds to standard ANSI/ASME B94.19-1985.
2. Enter values exactly as shown.

Instance Name	D Cutter Diameter	S Shank Diameter	W Cutter Length	L Tool Length
K1	0.1250	0.3750	0.3750	2.3125
K2	0.1875	0.3750	0.4375	2.3125
K3	0.2500	0.3750	0.5000	2.3125
K4	0.3125	0.3750	0.5625	2.3125
K5	0.3750	0.3750	0.5625	2.3125
K6	0.5000	0.5000	1.0000	3.0000
K7	0.6250	0.6250	1.3125	3.4375
K8	0.7500	0.7500	1.3125	3.5625
K9	0.8750	0.8750	1.5000	3.7500
K10	1.0000	1.0000	1.6250	4.1250
K11	1.2500	1.2500	1.6250	4.1250
K12	1.5000	1.2500	1.6250	4.1250

## MILLING CUTTERS AND END MILLS

### REGULAR LENGTH - MULTIPLE FLUTE - MEDIUM HELIX - SINGLE-END END MILLS WITH WELDON SHANK

High Speed Steel



### Generic Part Name: RLMFEMWS

#### Notes:

1. Corresponds to standard ANSI/ASME B94.19-1985.
2. Enter values exactly as shown.

Instance Name	D Cutter Diameter	S Shank Diameter	W Cutter Length	L Tool Length	Number of Flutes
RLMFEMWS1	0.1250	0.3750	0.3750	2.3125	4.000
RLMFEMWS2	0.1875	0.3750	0.5000	2.3750	4.000
RLMFEMWS3	0.2500	0.3750	0.6250	2.4375	4.000
RLMFEMWS4	0.3125	0.3750	0.7500	2.5000	4.000
RLMFEMWS5	0.3750	0.3750	0.7500	2.5000	4.000
RLMFEMWS6	0.4375	0.3750	1.0000	2.6875	4.000
RLMFEMWS7	0.5000	0.3750	1.0000	2.6875	4.000
RLMFEMWS8	0.5000	0.5000	1.2500	3.2500	4.000
RLMFEMWS9	0.5625	0.5000	1.3750	3.3750	4.000
RLMFEMWS10	0.6250	0.5000	1.3750	3.3750	4.000
RLMFEMWS11	0.6875	0.5000	1.6250	3.6250	4.000
RLMFEMWS12	0.7500	0.5000	1.6250	3.6250	4.000
RLMFEMWS13	0.6250	0.6250	1.6250	3.7500	4.000
RLMFEMWS14	0.6875	0.6250	1.6250	3.7500	4.000
RLMFEMWS15	0.7500	0.6250	1.6250	3.7500	4.000
RLMFEMWS16	0.8125	0.6250	1.8750	4.0000	6.000
RLMFEMWS17	0.8750	0.6250	1.8750	4.0000	6.000
RLMFEMWS18	1.0000	0.6250	1.8750	4.0000	6.000

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## MILLING CUTTERS AND END MILLS

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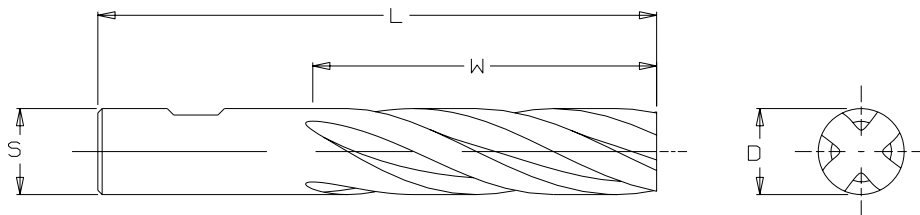
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<b>Instance Name</b>	<b>D</b> Cutter Diameter	<b>S</b> Shank Diameter	<b>W</b> Cutter Length	<b>L</b> Tool Length	<b>Number of Flutes</b>
RLMFEMWS19	0.8750	0.8750	1.8750	4.1250	4.000
RLMFEMWS20	1.0000	0.8750	1.8750	4.1250	4.000
RLMFEMWS21	1.1250	0.8750	2.0000	4.2500	6.000
RLMFEMWS22	1.2500	0.8750	2.0000	4.2500	6.000
RLMFEMWS23	1.0000	1.0000	2.0000	4.5000	4.000
RLMFEMWS24	1.1250	1.0000	2.0000	4.5000	6.000
RLMFEMWS25	1.2500	1.0000	2.0000	4.5000	6.000
RLMFEMWS26	1.3750	1.0000	2.0000	4.5000	6.000
RLMFEMWS27	1.5000	1.0000	2.0000	4.5000	6.000
RLMFEMWS28	1.2500	1.2500	2.0000	4.5000	6.000
RLMFEMWS29	1.5000	1.2500	2.0000	4.5000	6.000
RLMFEMWS30	1.7500	1.2500	2.0000	4.5000	6.000
RLMFEMWS31	2.0000	1.2500	2.0000	4.5000	8.000

## MILLING CUTTERS AND END MILLS

### LONG LENGTH - MULTIPLE FLUTE - MEDIUM HELIX - SINGLE-END END MILLS WITH WELDON SHANK

High Speed Steel



#### Generic Part Name: LLMFEMWS

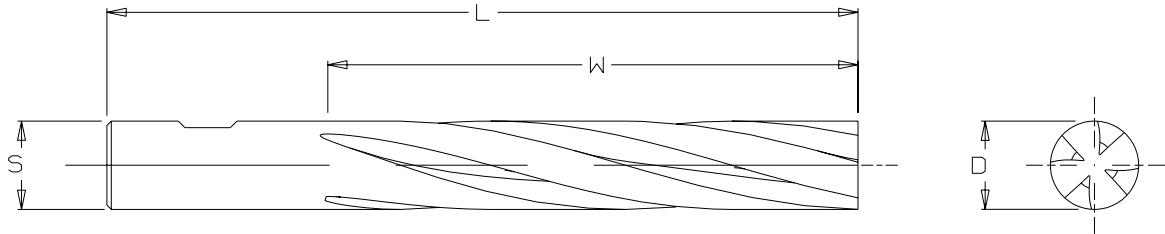
##### Notes:

1. Corresponds to standard ANSI/ASME B94.19-1985.
2. Enter values exactly as shown.

Instance Name	D Cutter Diameter	S Shank Diameter	W Cutter Length	L Tool Length	Number of Flutes
LEM1	0.2500	0.3750	1.2500	3.0625	4.000
LEM2	0.3125	0.3750	1.3750	3.1250	4.000
LEM3	0.3750	0.3750	1.5000	3.2500	4.000
LEM4	0.4375	0.5000	1.7500	3.7500	4.000
LEM5	0.5000	0.5000	2.0000	4.0000	4.000
LEM6	0.6250	0.6250	2.5000	4.6250	4.000
LEM7	0.7500	0.7500	3.0000	5.2500	4.000
LEM8	0.8750	0.8750	3.5000	5.7500	4.000
LEM9	1.0000	1.0000	4.0000	6.5000	4.000
LEM10	1.1250	1.0000	4.0000	6.5000	6.000
LEM11	1.2500	1.0000	4.0000	6.5000	6.000
LEM12	1.5000	1.0000	4.0000	6.5000	6.000
LEM13	1.2500	1.2500	4.0000	6.5000	6.000
LEM14	1.5000	1.2500	4.0000	6.5000	6.000
LEM15	1.7500	1.2500	4.0000	6.5000	6.000
LEM16	2.0000	1.2500	4.0000	6.5000	8.000

## EXTRA LONG LENGTH - MULTIPLE FLUTE - MEDIUM HELIX - SINGLE-END END MILLS WITH WELDON SHANK

High Speed Steel



### Generic Part Name: ELMFEMWS

#### Notes:

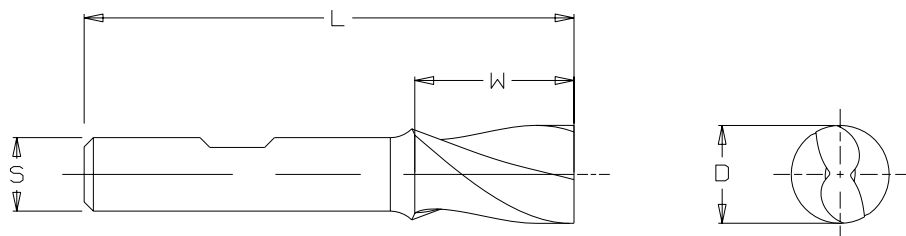
1. Corresponds to standard ANSI/ASME B94.19-1985.
2. Enter values exactly as shown.

Instance Name	D Cutter Diameter	S Shank Diameter	W Cutter Length	L Tool Length	Number of Flutes
ELEM1	0.2500	0.3750	1.7500	3.5625	4.000
ELEM2	0.3125	0.3750	2.0000	3.7500	4.000
ELEM3	0.3750	0.3750	2.5000	4.2500	4.000
ELEM4	0.5000	0.5000	3.0000	5.0000	4.000
ELEM5	0.6250	0.6250	4.0000	6.1250	4.000
ELEM6	0.7500	0.7500	4.0000	6.2500	4.000
ELEM7	0.8750	0.8750	5.0000	7.2500	4.000
ELEM8	1.0000	1.0000	6.0000	8.5000	4.000
ELEM9	1.2500	1.2500	6.0000	8.5000	6.000
ELEM10	1.5000	1.2500	8.0000	10.5000	6.000

## MILLING CUTTERS AND END MILLS

### REGULAR LENGTH - TWO FLUTE - MEDIUM HELIX - SINGLE-END END MILLS WITH WELDON SHANK

High Speed Steel



**Generic Part Name: RLTFMH**

**Notes:**

1. Corresponds to standard ANSI/ASME B94.19-1985.
2. Enter values exactly as shown.

Instance Name	D Cutter Diameter	S Shank Diameter	W Cutter Length	L Tool Length
T1	0.1250	0.3750	0.3750	2.3125
T2	0.1875	0.3750	0.4375	2.3125
T3	0.2500	0.3750	0.5000	2.3125
T4	0.3125	0.3750	0.5625	2.3125
T5	0.3750	0.3750	0.5625	2.3125
T6	0.4375	0.3750	0.8125	2.5000
T7	0.5000	0.3750	0.8125	2.5000
T8	0.5000	0.5000	1.0000	3.0000
T9	0.5625	0.5000	1.1250	3.1250
T10	0.6250	0.5000	1.1250	3.1250
T11	0.6875	0.5000	1.3125	3.3125
T12	0.7500	0.5000	1.3125	3.3125
T13	0.6250	0.6250	1.3125	3.4375
T14	0.6875	0.6250	1.3125	3.4375
T15	0.7500	0.6250	1.3125	3.4375
T16	0.8125	0.6250	1.5000	3.6250
T17	0.8750	0.6250	1.5000	3.6250

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## MILLING CUTTERS AND END MILLS

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<b>Instance Name</b>	<b>D Cutter Diameter</b>	<b>S Shank Diameter</b>	<b>W Cutter Length</b>	<b>L Tool Length</b>
T18	1.0000	0.6250	1.5000	3.6250
T19	0.8750	0.8750	1.5000	3.7500
T20	1.0000	0.8750	1.5000	3.7500
T21	1.1250	0.8750	1.6250	3.8750
T22	1.2500	0.8750	1.6250	3.8750
T23	1.0000	1.0000	1.6250	4.1250
T24	1.1250	1.0000	1.6250	4.1250
T25	1.2500	1.0000	1.6250	4.1250
T26	1.3750	1.0000	1.6250	4.1250
T27	1.5000	1.0000	1.6250	4.1250
T28	1.2500	1.2500	1.6250	4.1250
T29	1.5000	1.2500	1.6250	4.1250
T30	1.7500	1.2500	1.6250	4.1250
T31	2.0000	1.2500	1.6250	4.1250

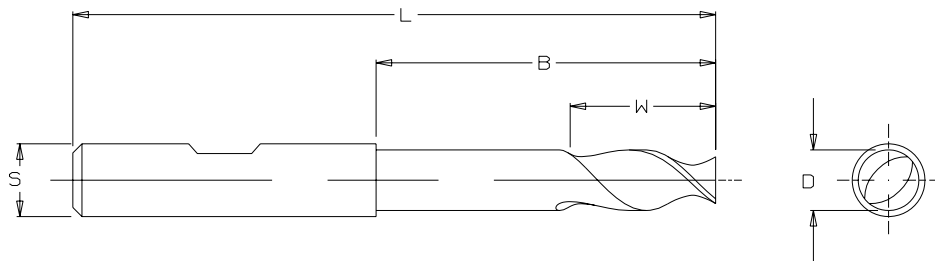
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## MILLING CUTTERS AND END MILLS

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### LONG LENGTH - TWO FLUTE - MEDIUM HELIX - SINGLE-END END MILLS WITH WELDON SHANK

High Speed Steel



#### Generic Part Name: LLTFMH

##### Notes:

1. Corresponds to standard ANSI/ASME B94.19-1985.
2. Enter values exactly as shown.

Instance Name	D Cutter Diameter	S Shank Diameter	B Length Below Shank	W Cutter Length	L Tool Length
LM1	0.2500	0.3750	1.50	0.6250	3.0625
LM2	0.3125	0.3750	1.75	0.7500	3.3125
LM3	0.3750	0.3750	1.75	0.7500	3.3125
LM4	0.5000	0.5000	2.22	1.0000	4.0000
LM5	0.6250	0.6250	2.72	1.3750	4.6250
LM6	0.7500	0.7500	3.34	1.6250	5.3750
LM7	1.0000	1.0000	4.97	2.5000	7.2500
LM8	1.2500	1.2500	4.97	3.0000	7.2500

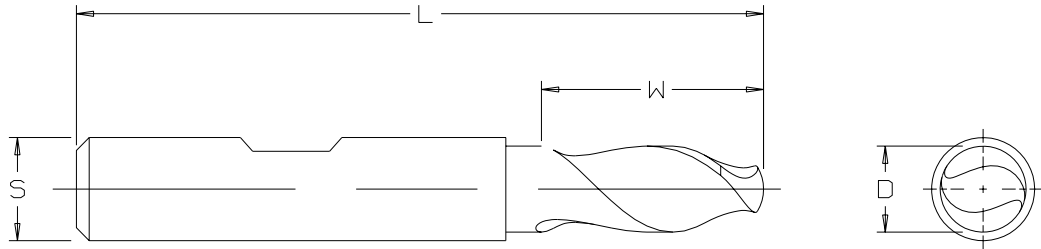
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## MILLING CUTTERS AND END MILLS

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### REGULAR LENGTH - TWO FLUTE - MEDIUM HELIX - SINGLE-END END MILLS WITH WELDON SHANK

High Speed Steel



#### Generic Part Name: RLBETF

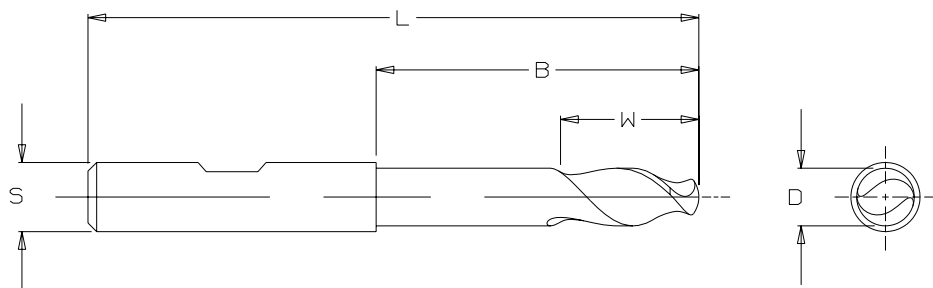
##### Notes:

1. Corresponds to standard ANSI/ASME B94.19-1985.
2. Enter values exactly as shown.

Instance Name	D Cutter Diameter	S Shank Diameter	W Cutter Length	L Tool Length
R1	0.1250	0.3750	0.3750	2.3125
R2	0.1875	0.3750	0.5000	2.3750
R3	0.1250	0.3750	0.6250	2.4375
R4	0.3125	0.3750	0.7500	2.5000
R5	0.3750	0.3750	0.7500	2.5000
R6	0.4375	0.5000	1.0000	3.0000
R7	0.5000	0.5000	1.0000	3.0000
R8	0.5625	0.5000	1.1250	3.1250
R9	0.6250	0.5000	1.1250	3.1250
R10	0.6250	0.6250	1.3750	3.5000
R11	0.7500	0.5000	1.3125	3.3125
R12	0.7500	0.7500	1.6250	3.8750
R13	0.8750	0.8750	2.0000	4.2500
R14	1.0000	1.0000	2.2500	4.7500
R15	1.1250	1.0000	2.2500	4.7500
R16	1.2500	1.2500	2.5000	5.0000
R17	1.5000	1.2500	2.5000	5.0000

## LONG LENGTH - TWO FLUTE - MEDIUM HELIX - BALL-END END MILLS WITH WELDON SHANK

High Speed Steel



**Generic Part Name: LLBETF**

### Notes:

1. Corresponds to standard ANSI/ASME B94.19-1985.
2. Enter values exactly as shown.

Instance Name	D Cutter Diameter	S Shank Diameter	B Length Below Shank	W Cutter Length	L Tool Length
L1	0.1250	0.3750	0.8125	0.3750	2.3750
L2	0.1875	0.3750	1.1250	0.5000	2.6875
L3	0.2500	0.3750	1.5000	0.6250	3.0625
L4	0.3125	0.3750	1.7500	0.7500	3.3125
L5	0.3750	0.3750	1.7500	0.7500	3.3125
L6	0.4375	0.5000	1.8750	1.0000	3.6875
L7	0.5000	0.5000	2.2500	1.0000	4.0000
L8	0.6250	0.6250	2.7500	1.3750	4.6250
L9	0.7500	0.7500	3.3750	1.6250	5.3750
L10	1.0000	1.0000	5.0000	2.5000	7.2500

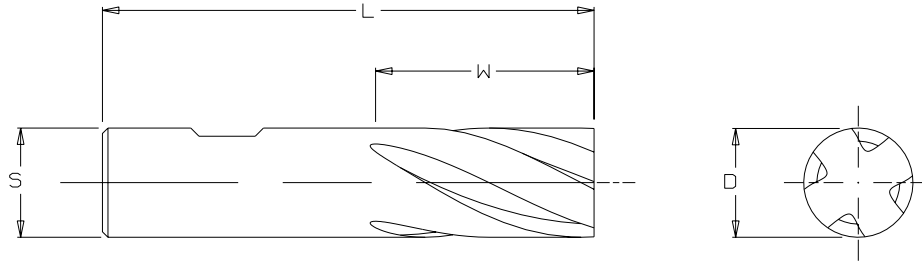
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## MILLING CUTTERS AND END MILLS

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### REGULAR LENGTH - FOUR FLUTE - MEDIUM HELIX - CENTER CUTTING - SINGLE-END END MILLS WITH WELDON SHANK

High Speed Steel



**Generic Part Name: RLFFCCWS**

**Notes:**

1. Corresponds to standard ANSI/ASME B94.19-1985.
2. Enter values exactly as shown.

Instance Name	D Cutter Diameter	S Shank Diameter	W Cutter Length	L Tool Length
RLCC1	0.1250	0.3750	0.3750	2.3125
RLCC2	0.1875	0.3750	0.5000	2.3750
RLCC3	0.2500	0.3750	0.6250	2.4375
RLCC4	0.3125	0.3750	0.7500	2.5000
RLCC5	0.3750	0.3750	0.7500	2.5000
RLCC6	0.5000	0.5000	1.2500	3.2500
RLCC7	0.6250	0.6250	1.6250	3.7500
RLCC8	0.6875	0.6250	1.6250	3.7500
RLCC9	0.7500	0.7500	1.6250	3.8750
RLCC10	0.8750	0.8750	1.8750	4.1250
RLCC11	1.0000	1.0000	2.0000	4.5000
RLCC12	1.1250	1.0000	2.0000	4.5000
RLCC13	1.2500	1.2500	2.0000	4.5000
RLCC14	1.5000	1.2500	2.0000	4.5000

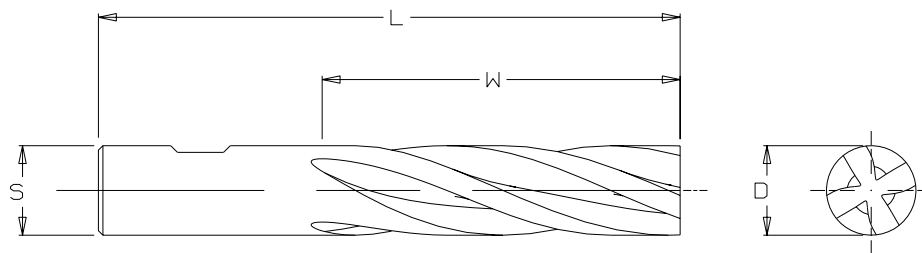
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## MILLING CUTTERS AND END MILLS

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### LONG LENGTH - FOUR FLUTE - MEDIUM HELIX - CENTER CUTTING - SINGLE-END END MILLS WITH WELDON SHANK

High Speed Steel



**Generic Part Name: LLFFCCWS**

**Notes:**

1. Corresponds to standard ANSI/ASME B94.19-1985.
2. Enter values exactly as shown.

Instance Name	D Cutter Diameter	S Shank Diameter	W Cutter Length	L Tool Length
LLCC1	0.2500	0.3750	1.2500	3.0625
LLCC2	0.3125	0.3750	1.3750	3.1250
LLCC3	0.3750	0.3750	1.5000	3.2500
LLCC4	0.5000	0.5000	2.0000	4.0000
LLCC5	0.6250	0.6250	2.5000	4.6250
LLCC6	0.7500	0.7500	3.0000	5.2500
LLCC7	0.8750	0.8750	3.5000	5.7500
LLCC8	1.0000	1.0000	4.0000	6.5000
LLCC9	1.2500	1.2500	4.0000	6.5000

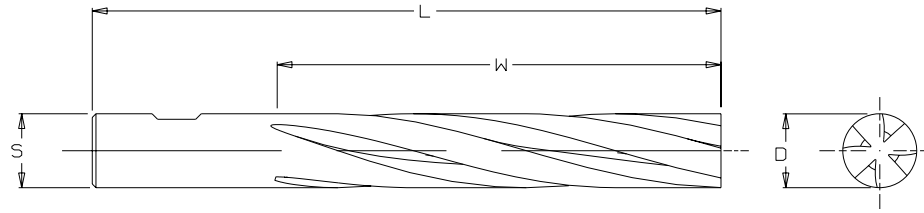
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## MILLING CUTTERS AND END MILLS

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### EXTRA LONG LENGTH - FOUR FLUTE - MEDIUM HELIX - CENTER CUTTING - SINGLE-END END MILLS WITH WELDON SHANK

High Speed Steel



**Generic Part Name: ELLFFCCWS**

**Notes:**

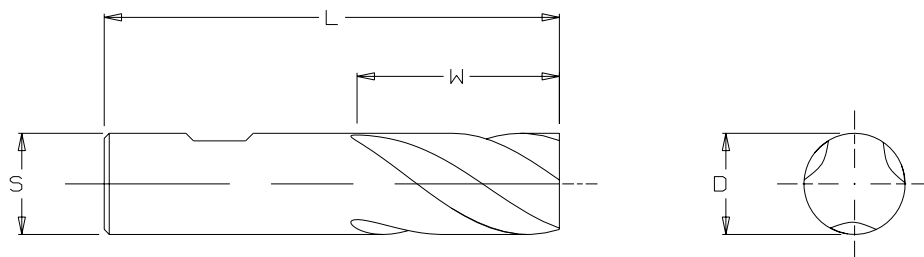
1. Corresponds to standard ANSI/ASME B94.19-1985.
2. Enter values exactly as shown.

Instance Name	D Cutter Diameter	S Shank Diameter	W Cutter Length	L Tool Length
ELLCC1	0.2500	0.3750	1.7500	3.5625
ELLCC2	0.3125	0.3750	2.0000	3.7500
ELLCC3	0.3750	0.3750	2.5000	4.2500
ELLCC4	0.5000	0.5000	3.0000	5.0000
ELLCC5	0.6250	0.6250	4.0000	6.1250
ELLCC6	0.7500	0.7500	4.0000	6.2500
ELLCC7	0.8750	0.8750	5.0000	7.2500
ELLCC8	1.0000	1.0000	6.0000	8.5000
ELLCC9	1.2500	1.2500	6.0000	8.5000

## MILLING CUTTERS AND END MILLS

### REGULAR LENGTH - THREE FLUTE - MEDIUM HELIX - CENTER CUTTING - SINGLE-END END MILLS WITH WELDON SHANK

High Speed Steel



#### Generic Part Name: RLTFCCWS

##### Notes:

1. Corresponds to standard ANSI/ASME B94.19-1985.
2. Enter values exactly as shown.

Instance Name	D Cutter Diameter	S Shank Diameter	W Cutter Length	L Tool Length
RLTF1	0.1250	0.3750	0.3750	2.3125
RLTF2	0.1875	0.3750	0.5000	2.3750
RLTF3	0.2500	0.3750	0.6250	2.4375
RLTF4	0.3125	0.3750	0.7500	2.5000
RLTF5	0.3750	0.3750	0.7500	2.5000
RLTF6	0.4375	0.3750	1.0000	2.6875
RLTF7	0.5000	0.3750	1.0000	2.6875
RLTF8	0.5000	0.5000	1.2500	3.2500
RLTF9	0.5625	0.5000	1.3750	3.3750
RLTF10	0.6250	0.5000	1.3750	3.3750
RLTF11	0.7500	0.5000	1.6250	3.6250
RLTF12	0.6250	0.6250	1.6250	3.7500
RLTF13	0.7500	0.6250	1.6250	3.7500
RLTF14	0.8750	0.6250	1.8750	4.0000
RLTF15	1.0000	0.6250	1.8750	4.0000
RLTF16	0.7500	0.7500	1.6250	3.8750
RLTF17	0.8750	0.7500	1.8750	4.1250

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## MILLING CUTTERS AND END MILLS

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<b>Instance Name</b>	<b>D Cutter Diameter</b>	<b>S Shank Diameter</b>	<b>W Cutter Length</b>	<b>L Tool Length</b>
RLTF18	1.0000	0.7500	1.8750	4.1250
RLTF19	1.0000	0.8750	1.8750	4.1250
RLTF20	1.0000	1.0000	2.0000	4.5000
RLTF21	1.1250	1.0000	2.0000	4.5000
RLTF22	1.2500	1.0000	2.0000	4.5000
RLTF23	1.5000	1.0000	2.0000	4.5000
RLTF24	1.2500	1.2500	2.0000	4.5000
RLTF25	1.5000	1.2500	2.0000	4.5000
RLTF26	1.7500	1.2500	2.0000	4.5000
RLTF27	2.0000	1.2500	2.0000	4.5000

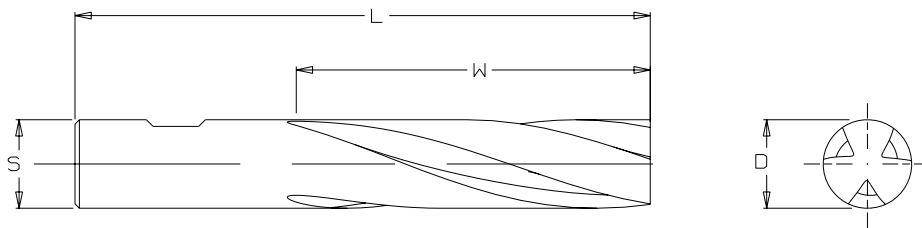
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## MILLING CUTTERS AND END MILLS

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### LONG LENGTH - THREE FLUTE - MEDIUM HELIX - CENTER CUTTING - SINGLE-END END MILLS WITH WELDON SHANK

High Speed Steel



**Generic Part Name: LLTFCCWS**

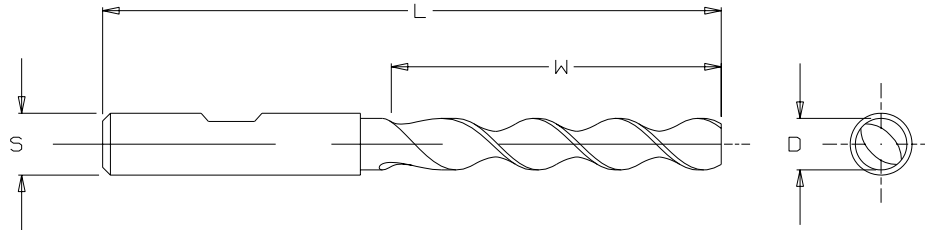
**Notes:**

1. Corresponds to standard ANSI/ASME B94.19-1985.
2. Enter values exactly as shown.

Instance Name	D Cutter Diameter	S Shank Diameter	W Cutter Length	L Tool Length
LLTF1	0.2500	0.3750	1.2500	3.0625
LLTF2	0.3125	0.3750	1.3750	3.1250
LLTF3	0.3750	0.3750	1.5000	3.2500
LLTF4	0.4375	0.5000	1.7500	3.7500
LLTF5	0.5000	0.5000	2.0000	4.0000
LLTF6	0.6250	0.6250	2.5000	4.6250
LLTF7	0.7500	0.7500	3.0000	5.2500
LLTF8	1.0000	1.0000	4.0000	6.5000
LLTF9	1.2500	1.2500	4.0000	6.5000
LLTF10	1.5000	1.2500	4.0000	6.5000
LLTF11	1.7500	1.2500	4.0000	6.5000
LLTF12	2.0000	1.2500	4.0000	6.5000

## EXTRA LONG LENGTH - TWO FLUTE - HIGH HELIX - SINGLE-END END MILLS WITH WELDON SHANK

High Speed Steel



### Generic Part Name: ELTFHH

#### Notes:

1. Corresponds to standard ANSI/ASME B94.19-1985.
2. Enter values exactly as shown.

Instance Name	D Cutter Diameter	S Shank Diameter	W Cutter Length	L Tool Length
E1	0.2500	0.3750	1.7500	3.5625
E2	0.3125	0.3750	2.0000	3.7500
E3	0.3750	0.3750	2.5000	4.2500
E4	0.5000	0.5000	3.0000	5.0000
E5	0.6250	0.6250	4.0000	6.1250
E6	0.7500	0.7500	4.0000	6.2500
E7	1.0000	1.0000	6.0000	8.5000
E8	1.2500	1.2500	6.0000	8.5000
E9	1.5000	1.2500	8.0000	10.5000

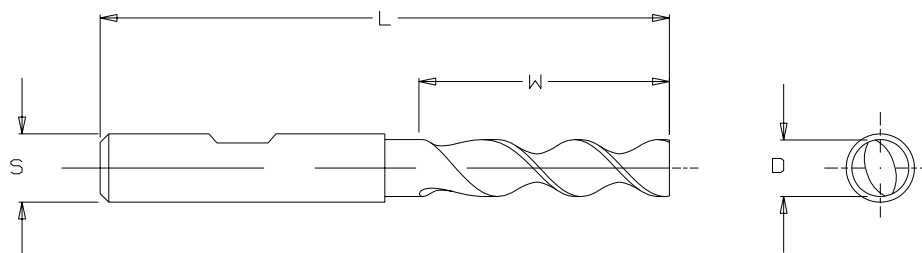
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## MILLING CUTTERS AND END MILLS

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### LONG LENGTH - TWO FLUTE - HIGH HELIX - SINGLE-END END MILLS WITH WELDON SHANK

High Speed Steel



**Generic Part Name: LLTFHH**

**Notes:**

1. Corresponds to standard ANSI/ASME B94.19-1985.
2. Enter values exactly as shown.

Instance Name	D Cutter Diameter	S Shank Diameter	W Cutter Length	L Tool Length
LH1	0.2500	0.3750	1.2500	3.0625
LH2	0.3125	0.3750	1.3750	3.1250
LH3	0.3750	0.3750	1.5000	3.2500
LH4	0.4375	0.5000	1.7500	3.7500
LH5	0.5000	0.5000	2.0000	4.0000
LH6	0.6250	0.6250	2.5000	4.6250
LH7	0.7500	0.7500	3.0000	5.2500
LH8	1.0000	1.0000	4.0000	6.5000
LH9	1.2500	1.2500	4.0000	6.5000
LH10	1.5000	1.2500	4.0000	6.5000
LH11	2.0000	1.2500	4.0000	6.5000

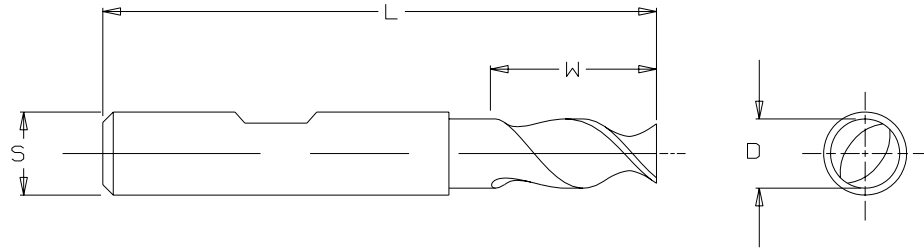
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## MILLING CUTTERS AND END MILLS

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### REGULAR LENGTH - TWO FLUTE - HIGH HELIX - SINGLE-END END MILLS WITH WELDON SHANK

High Speed Steel



#### Generic Part Name: RLTFHH

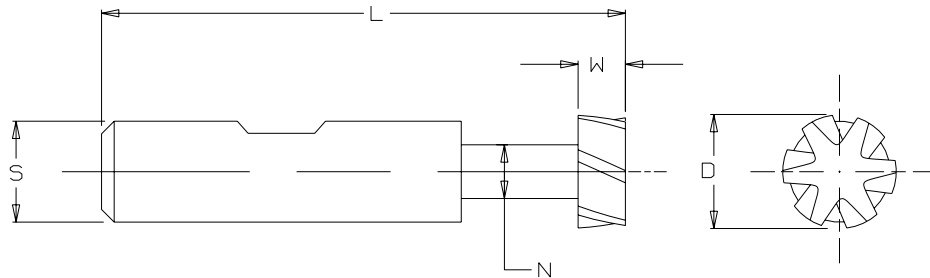
##### Notes:

1. Corresponds to standard ANSI/ASME B94.19-1985.
2. Enter values exactly as shown.

Instance Name	D Cutter Diameter	S Shank Diameter	W Cutter Length	L Tool Length
RLHH1	0.2500	0.3750	0.6250	2.4375
RLHH2	0.3125	0.3750	0.7500	2.5000
RLHH3	0.3750	0.3750	0.7500	2.5000
RLHH4	0.4375	0.3750	1.0000	2.6875
RLHH5	0.5000	0.5000	1.2500	3.2500
RLHH6	0.6250	0.6250	1.6250	3.7500
RLHH7	0.7500	0.7500	1.6250	3.8750
RLHH8	0.8750	0.8750	1.8750	4.1250
RLHH9	1.0000	1.0000	2.0000	4.5000
RLHH10	1.2500	1.2500	2.0000	4.5000
RLHH11	1.5000	1.2500	2.0000	4.5000
RLHH12	2.0000	1.2500	2.0000	4.5000

## T-SLOT MILLING CUTTERS WITH STAGGERED TEETH AND WELDON SHANKS

High Speed Steel



### Generic Part Name: TSMCWS

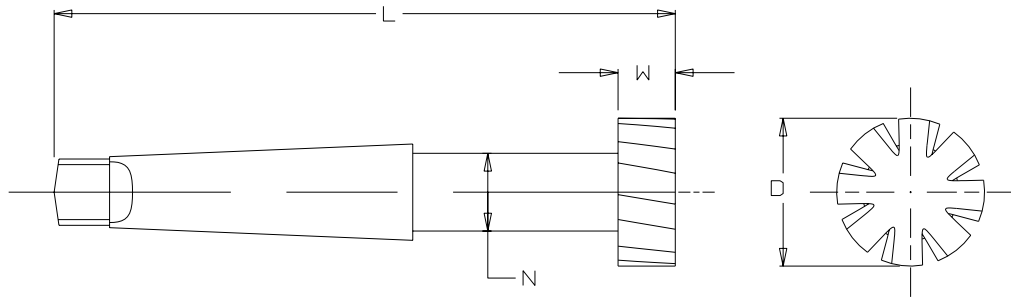
#### Notes:

1. Corresponds to standard ANSI/ASME B94.19-1985.
2. Enter values exactly as shown.

Instance Name	Bolt Size	D Cutter Diameter	S Shank Diameter	W Cutter Length	N Neck Diameter	L Tool Length
TW1	1/4	0.5625	0.5000	0.2344	0.2656	2.5938
TW2	5/16	0.6562	0.5000	0.2656	0.3281	2.6875
TW3	3/8	0.7812	0.7500	0.3281	0.4062	3.2500
TW4	1/2	0.9688	0.7500	0.3906	0.5312	3.4375
TW5	5/8	1.2500	1.0000	0.4844	0.6562	3.9375
TW6	3/4	1.4688	1.0000	0.6250	0.7812	4.4375
TW7	1	1.8438	1.2500	0.8281	1.0312	4.8125

## T-SLOT MILLING CUTTERS WITH STAGGERED TEETH AND BROWN AND SHARPE TAPER SHANKS

High Speed Steel



### Generic Part Name: TSMCBS

#### Notes:

1. Corresponds to standard ANSI/ASME B94.19-1985.
2. Enter values exactly as shown.

Instance Name	Bolt Size	D Cutter Diameter	W Cutter Length	N Neck Diameter	L Tool Length	Shank Number
TS1	1/2	0.9688	0.3906	0.5300	5.0000	7.000
TS2	5/8	1.2500	0.4844	0.6600	5.2500	7.000
TS3	3/4	1.4688	0.6250	0.7800	6.8750	9.000
TS4	1	1.8438	0.8281	1.0300	7.2500	9.000

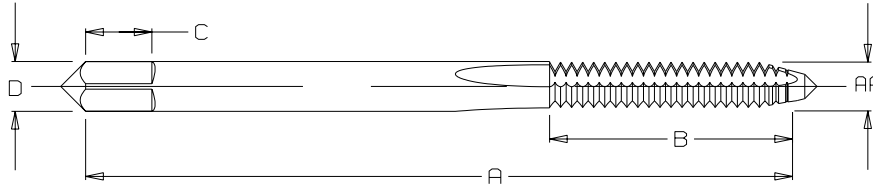
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# STANDARD TAPS - CUT AND GROUND THREADS

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## STRAIGHT FLUTED TAP - MACHINE SCREW SIZES High-Speed Steel - Ground Thread



### Generic Part Name: SFTMS

#### Notes:

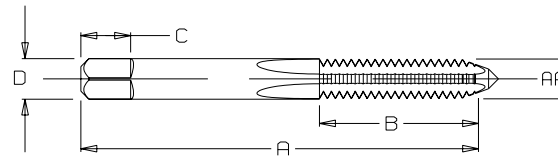
1. Corresponds to standard ANSI B94.9-1987.
2. Enter values exactly as shown.

Instance Name	Size	AA Cutter Dia.	Threads Per Inch	Thread Series	Flute Number	A Tool Length	B Thread Length	C Square Length	D Shank Dia.	Square Size
SFTMS1	0	0.0600	80	NF_UNF	2	1.6250	0.3125	0.1875	0.1410	0.110
SFTMS2	1	0.0730	64	NC_UNC	2	1.6875	0.3750	0.1875	0.1410	0.110
SFTMS3	1	0.0730	72	NF_UNF	2	1.6875	0.3750	0.1875	0.1410	0.110
SFTMS4	2	0.0860	56	NC_UNC	3	1.7500	0.4375	0.1875	0.1410	0.110
SFTMS5	2	0.0860	64	NF_UNF	3	1.7500	0.4375	0.1875	0.1410	0.110
SFTMS6	3	0.0990	48	NC_UNC	3	1.8125	0.5000	0.1875	0.1410	0.110
SFTMS7	3	0.0990	56	NF_UNF	3	1.8125	0.5000	0.1875	0.1410	0.110
SFTMS8	4	0.1120	36	NS_UNF	3	1.8750	0.5625	0.1875	0.1410	0.110
SFTMS9	4	0.1120	40	NC_UNC	3	1.8750	0.5625	0.1875	0.1410	0.110
SFTMS10	4	0.1120	48	NF_UNF	3	1.8750	0.5625	0.1875	0.1410	0.110
SFTMS11	5	0.1250	40	NC_UNC	3	1.9375	0.6250	0.1875	0.1410	0.110
SFTMS12	5	0.1250	44	NF_UNF	3	1.9375	0.6250	0.1875	0.1410	0.110
SFTMS13	6	0.1380	32	NC_UNC	3	2.0000	0.6875	0.1875	0.1410	0.110
SFTMS14	6	0.1380	40	NF_UNF	3	2.0000	0.6875	0.1875	0.1410	0.110
SFTMS15	8	0.1640	32	NC_UNC	4	2.1250	0.7500	0.2500	0.1680	0.131
SFTMS16	8	0.1640	36	NF_UNF	4	2.1250	0.7500	0.2500	0.1680	0.131
SFTMS17	10	0.1900	24	NC_UNC	4	2.3750	0.8750	0.2500	0.1940	0.152
SFTMS18	10	0.1900	32	NF_UNF	4	2.3750	0.8750	0.2500	0.1940	0.152
SFTMS19	12	0.2160	24	NC_UNC	4	2.3750	0.9375	0.2812	0.2200	0.165
SFTMS20	12	0.2160	28	NF_UNF	4	2.3750	0.9375	0.2812	0.2200	0.165

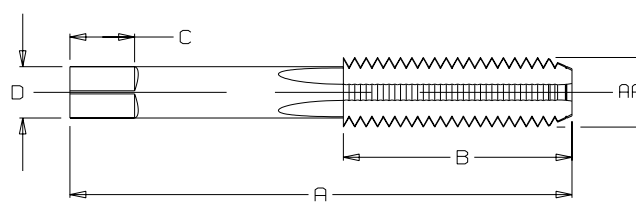
# STANDARD TAPS - CUT AND GROUND THREADS

## STRAIGHT FLUTED TAP - FRACTIONAL SIZES

### High-Speed Steel - Ground Thread



CUTTER DIA. SIZES 0.3750 AND SMALLER



CUTTER DIA. SIZES LARGER THAN 0.3750

### Generic Part Name: SFTF

#### Notes:

1. Corresponds to standard ANSI B94.9-1987
2. Enter values exactly as shown

Instance Name	AA Cutter Dia.	Threads Per Inch	Thread Series	Flute Number	A Tool Length	B Thread Length	C Square Length	D Shank Dia.	Square Size
SFTF1	0.2500	20	NC_UNC	4	2.5000	1.0000	0.3125	0.2550	0.191
SFTF2	0.2500	28	NF_UNF	4	2.5000	1.0000	0.3125	0.2550	0.191
SFTF3	0.3125	18	NC_UNC	4	2.7188	1.1250	0.3750	0.3180	0.238
SFTF4	0.3125	24	NF_UNF	4	2.7188	1.1250	0.3750	0.3180	0.238
SFTF5	0.3750	16	NC_UNC	4	2.9375	1.2500	0.4375	0.3810	0.286
SFTF6	0.3750	24	NF_UNF	4	2.9375	1.2500	0.4375	0.3810	0.286
SFTF7	0.4375	14	NC_UNC	4	3.1562	1.4375	0.4063	0.3230	0.242
SFTF8	0.5000	13	NC_UNC	4	3.3750	1.6563	0.4375	0.3670	0.275
SFTF9	0.5000	20	NF_UNF	4	3.3750	1.6563	0.4375	0.3670	0.275
SFTF10	0.5625	12	NC_UNC	4	3.5938	1.6563	0.5000	0.4290	0.322
SFTF11	0.5625	18	NF_UNF	4	3.5938	1.6563	0.5000	0.4290	0.322
SFTF12	0.6250	11	NC_UNC	4	3.8125	1.8125	0.5625	0.4800	0.360
SFTF13	0.6250	18	NF_UNF	4	3.8125	1.8125	0.5625	0.4800	0.360
SFTF14	0.6875	11	NS_UNF	4	4.0312	1.8125	0.6250	0.5420	0.406
SFTF15	0.7500	10	NC_UNC	4	4.2500	2.0000	0.6875	0.5900	0.442
SFTF16	0.7500	16	NF_UNF	4	4.2500	2.0000	0.6875	0.5900	0.442
SFTF17	0.8750	9	NC_UNC	4	4.6875	2.2188	0.7500	0.6970	0.523
SFTF18	0.8750	14	NF_UNF	4	4.6875	2.2188	0.7500	0.6970	0.523

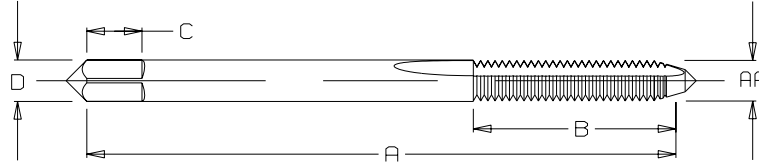
## STANDARD TAPS - CUT AND GROUND THREADS

Instance Name	AA Cutter Dia.	Threads Per Inch	Thread Series	Flute Number	A Tool Length	B Thread Length	C Square Length	D Shank Dia.	Square Size
SFTF19	1.0000	8	NC_UNC	4	5.1250	2.5000	0.8125	0.8000	0.600
SFTF20	1.0000	12	NF_UNF	4	5.1250	2.5000	0.8125	0.8000	0.600
SFTF21	1.0000	14	NS_UNF	4	5.1250	2.5000	0.8125	0.8000	0.600
SFTF22	1.1250	7	NC_UNC	4	5.4375	2.5625	0.8750	0.8960	0.672
SFTF23	1.2500	7	NC_UNC	4	5.7500	2.5625	1.0000	1.0210	0.766
SFTF24	1.3750	6	NC_UNC	4	6.0625	3.0000	1.0625	1.1080	0.831
SFTF25	1.5000	6	NC_UNC	4	6.3750	3.0000	1.1250	1.2330	0.925
SFTF26	0.6875	16	NS_UNF	4	4.0312	1.8125	0.6250	0.5420	0.406
SFTF27	1.1250	12	NF_UNF	4	5.4375	2.5625	0.8750	0.8960	0.672
SFTF28	1.2500	12	NF_UNF	4	5.7500	2.5625	1.0000	1.0210	0.766
SFTF29	1.3750	12	NF_UNF	4	6.0625	3.0000	1.0625	1.1080	0.831
SFTF30	1.5000	12	NF_UNF	4	6.3750	3.0000	1.1250	1.2330	0.925

## STANDARD TAPS - CUT AND GROUND THREADS

### STRAIGHT FLUTED TAP - OPTIONAL NUMBER OF FLUTES - MACHINE SCREW SIZES

#### High-Speed Steel - Ground Thread



#### Generic Part Name: SFTONMS

##### Notes:

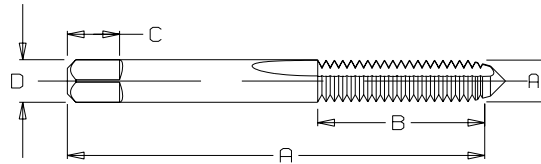
1. Corresponds to standard ANSI B94.9-1987.
2. Enter values exactly as shown.

Instance Name	Size	AA Cutter Dia.	Threads Per Inch	Thread Series	Flute Number	A Tool Length	B Thread Length	C Square Length	D Shank Dia.	Square Size
SFTONMS1	2	0.0860	56	NC UNC	2	1.7500	0.4375	0.1875	0.1410	0.110
SFTONMS2	3	0.0990	48	NC UNC	2	1.8125	0.5000	0.1875	0.1410	0.110
SFTONMS3	4	0.1120	40	NC UNC	2	1.8750	0.5625	0.1875	0.1410	0.110
SFTONMS4	5	0.1250	40	NC UNC	2	1.9375	0.6250	0.1875	0.1410	0.110
SFTONMS5	6	0.1380	32	NC UNC	2	2.0000	0.6875	0.1875	0.1410	0.110
SFTONMS6	6	0.1380	40	NF UNF	2	2.0000	0.6875	0.1875	0.1410	0.110
SFTONMS7	8	0.1640	32	NC UNC	2	2.1250	0.7500	0.2500	0.1680	0.131
SFTONMS8	8	0.1640	32	NC UNC	3	2.1250	0.7500	0.2500	0.1680	0.131
SFTONMS9	10	0.1900	24	NC UNC	2	2.3750	0.8750	0.2500	0.1940	0.152
SFTONMS10	10	0.1900	32	NF UNF	2	2.3750	0.8750	0.2500	0.1940	0.152
SFTONMS11	10	0.1900	24	NC UNC	3	2.3750	0.8750	0.2500	0.1940	0.152
SFTONMS12	10	0.1900	32	NF UNF	3	2.3750	0.8750	0.2500	0.1940	0.152

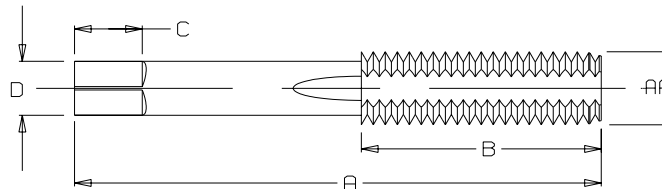
## STANDARD TAPS - CUT AND GROUND THREADS

### STRAIGHT FLUTED TAP - OPTIONAL NUMBER OF FLUTES - FRACTIONAL SIZES

#### High-Speed Steel - Ground Thread



CUTTER DIA. SIZES 0.3750 AND SMALLER



CUTTER DIA. SIZES LARGER THAN 0.3750

#### Generic Part Name: SFTONF

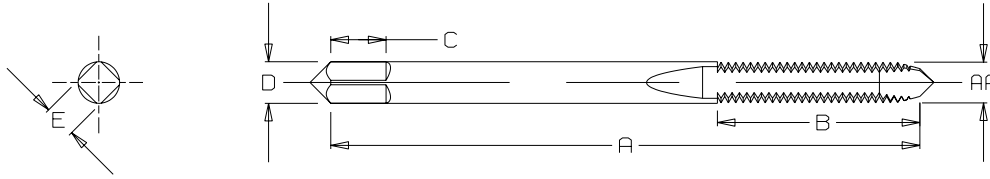
##### Notes:

1. Corresponds to standard ANSI B94.9-1987.
2. Enter values exactly as shown.

Instance Name	AA Cutter Dia.	Threads Per Inch	Thread Series	Flute Number	A Tool Length	B Thread Length	C Square Length	D Shank Dia.	Square Size
SFTONF1	0.2500	20	NC_UNC	2	2.5000	1.0000	0.3125	0.2550	0.191
SFTONF2	0.2500	20	NC_UNC	3	2.5000	1.0000	0.3125	0.2550	0.191
SFTONF3	0.2500	28	NF_UNF	2	2.5000	1.0000	0.3125	0.2550	0.191
SFTONF4	0.2500	28	NF_UNF	3	2.5000	1.0000	0.3125	0.2550	0.191
SFTONF5	0.3125	18	NC_UNC	2	2.7188	1.1250	0.3750	0.3180	0.238
SFTONF6	0.3125	18	NC_UNC	3	2.7188	1.1250	0.3750	0.3180	0.238
SFTONF7	0.3125	24	NF_UNF	3	2.7188	1.1250	0.3750	0.3180	0.238
SFTONF8	0.3750	16	NC_UNC	3	2.9375	1.2500	0.4375	0.3810	0.286
SFTONF9	0.3750	24	NF_UNF	3	2.9375	1.2500	0.4375	0.3810	0.286
SFTONF10	0.4375	14	NC_UNC	3	3.1562	1.4375	0.4062	0.3230	0.242
SFTONF11	0.4375	20	NF_UNF	3	3.1562	1.4375	0.4062	0.3230	0.242
SFTONF12	0.5000	13	NC_UNC	3	3.3750	1.6563	0.4375	0.3670	0.275
SFTONF13	0.5000	20	NF_UNF	3	3.3750	1.6563	0.4375	0.3670	0.275

## SPIRAL POINTED TAP - MACHINE SCREW SIZES

### High-Speed Steel - Ground Thread



### Generic Part Name: SPTMG

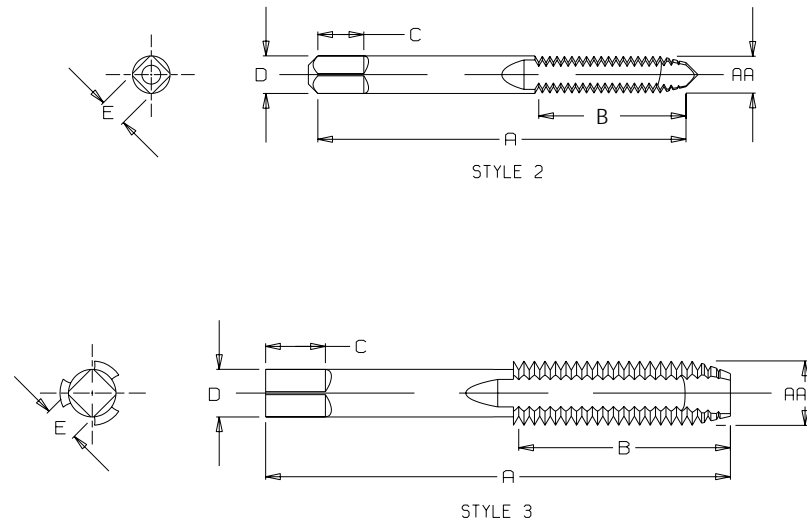
#### Notes:

1. Corresponds to standard ANSI B94.9-1987.
2. Enter values exactly as shown.

Instance Name	Size	AA Cutter Dia.	Threads Per Inch	Thread Series	Flute Number	A Tool Length	B Thread Length	C Square Length	D Shank Dia.	Square Size
SPTMG1	0	0.0600	80	NF_UNF	2	1.6250	0.3125	0.1875	0.1410	0.1100
SPTMG2	1	0.0730	64	NC UNC	2	1.6875	0.3750	0.1875	0.1410	0.1100
SPTMG3	1	0.0730	72	NF_UNF	2	1.6875	0.3750	0.1875	0.1410	0.1100
SPTMG4	2	0.0860	56	NC UNC	2	1.7500	0.4375	0.1875	0.1410	0.1100
SPTMG5	2	0.0860	64	NF_UNF	2	1.7500	0.4375	0.1875	0.1410	0.1100
SPTMG6	3	0.0990	48	NC UNC	2	1.8125	0.5000	0.1875	0.1410	0.1100
SPTMG7	3	0.0990	56	NF_UNF	2	1.8125	0.5000	0.1875	0.1410	0.1100
SPTMG8	4	0.1120	36	NS_UNF	2	1.8750	0.5625	0.1875	0.1410	0.1100
SPTMG9	4	0.1120	40	NC UNC	2	1.8750	0.5625	0.1875	0.1410	0.1100
SPTMG10	4	0.1120	48	NF_UNF	2	1.8750	0.5625	0.1875	0.1410	0.1100
SPTMG11	5	0.1250	40	NC UNC	2	1.9375	0.6250	0.1875	0.1410	0.1100
SPTMG12	5	0.1250	44	NF_UNF	2	1.9375	0.6250	0.1875	0.1410	0.1100
SPTMG13	6	0.1380	32	NC UNC	2	2.0000	0.6875	0.1875	0.1410	0.1100
SPTMG14	6	0.1380	40	NF_UNF	2	2.0000	0.6875	0.1875	0.1410	0.1100
SPTMG15	8	0.1640	32	NC UNC	2	2.1250	0.7500	0.2500	0.1680	0.1310
SPTMG16	8	0.1640	36	NF_UNF	2	2.1250	0.7500	0.2500	0.1680	0.1310
SPTMG17	10	0.1900	24	NC UNC	2	2.3750	0.8750	0.2500	0.1940	0.1520
SPTMG18	10	0.1900	32	NF_UNF	2	2.3750	0.8750	0.2500	0.1940	0.1520
SPTMG19	12	0.2160	24	NC UNC	2	2.3750	0.9375	0.2813	0.2200	0.1650
SPTMG20	12	0.2160	28	NF_UNF	2	2.3750	0.9375	0.2813	0.2200	0.1650

## SPIRAL POINTED TAP - FRACTIONAL SIZES

### High-Speed Steel - Ground Thread



### Generic Part Name: SPTFG

#### Notes:

1. Corresponds to standard ANSI B94.9-1987.
2. Enter values exactly as shown.

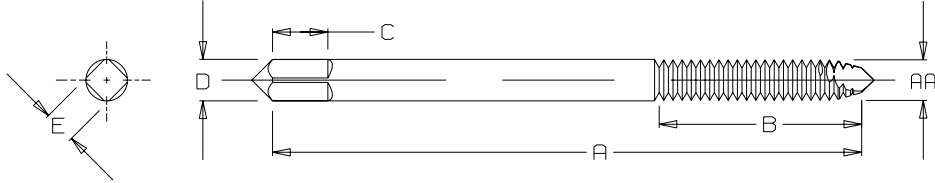
Instance Name	Tap Dia. Frac.	AA Cutter Dia.	Style Number	Threads Per Inch	Thread	Flute Number	A Tool Length	B Thread Length	C Square Length	D Shank Dia.	E Square Size
SPTIII1	1/4	0.2500	2	20	NC_UNC	2	2.5000	1.0000	0.3125	0.2550	0.1910
SPTIII2	1/4	0.2500	2	20	NC_UNC	3	2.5000	1.0000	0.3125	0.2550	0.1910
SPTIII3	1/4	0.2500	2	28	NF_UNF	2	2.5000	1.0000	0.3125	0.2550	0.1910
SPTIII4	1/4	0.2500	2	28	NF_UNF	3	2.5000	1.0000	0.3125	0.2550	0.1910
SPTIII5	5/16	0.3125	2	18	NC-UNC	2	2.7188	1.1250	0.3750	0.3180	0.2380
SPTIII6	5/16	0.3125	2	18	NC-UNC	3	2.7188	1.1250	0.3750	0.3180	0.2380
SPTIII7	5/16	0.3125	2	24	NF_UNF	2	2.7188	1.1250	0.3750	0.3180	0.2380
SPTIII8	5/16	0.3125	2	24	NF_UNF	3	2.7188	1.1250	0.3750	0.3180	0.2380
SPTIII9	3/8	0.3750	2	16	NC_UNC	3	2.9375	1.2500	0.4375	0.3810	0.2860
SPTIII10	3/8	0.3750	2	24	NF_UNF	3	2.9375	1.2500	0.4375	0.3810	0.2860
SPTIII11	7/16	0.4375	3	14	NC_UNC	3	3.1562	1.4375	0.4062	0.3230	0.2420
SPTIII12	7/16	0.4375	3	20	NF_UNF	3	3.1562	1.4375	0.4062	0.3230	0.2420
SPTIII13	1/2	0.5000	3	13	NC_UNC	3	3.3750	1.6562	0.4375	0.3670	0.2750
SPTIII14	1/2	0.5000	3	20	NC_UNC	3	3.3750	1.6562	0.4375	0.3670	0.2750
SPTIII15	5/8	0.6250	3	11	NC_UNC	3	3.8125	1.8125	0.5625	0.4800	0.3600
SPTIII16	5/8	0.6250	3	18	NF_UNF	3	3.8125	1.8125	0.5625	0.4800	0.3600
SPTIII17	3/4	0.7500	3	10	NC_UNC	3	4.2500	2.0000	0.6875	0.5900	0.4420
SPTIII18	3/4	0.7500	3	16	NF_UNF	3	4.2500	2.0000	0.6875	0.5900	0.4420

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## STANDARD TAPS - CUT AND GROUND THREADS

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### SPIRAL POINTED ONLY TAP - MACHINE SCREW SIZES High-Speed Steel - Ground Thread



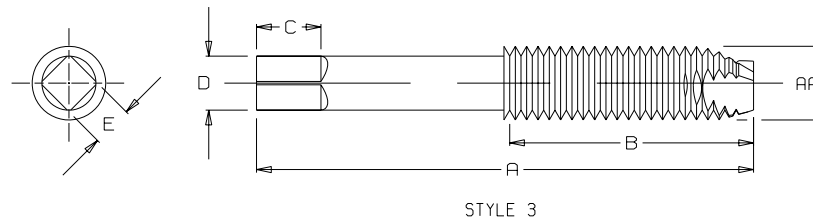
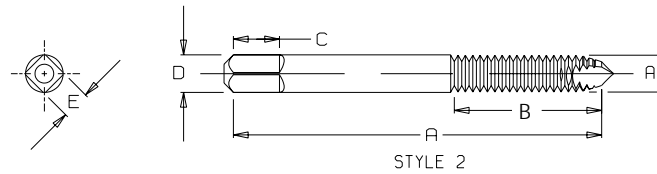
#### Generic Part Name: SPOTMG

##### Notes:

1. Corresponds to standard ANSI B94.9-1987.
2. Enter values exactly as shown.

Instance Name	Size	AA Cutter Dia.	Threads Per Inch	Thread Series	Flute Number	A Tool Length	B Thread Length	C Square Length	D Shank Dia.	E Square Size
SPTI4	4	0.1120	40	NC_UNC	2	1.8750	0.5625	0.1875	0.1410	0.1100
SPTI5	5	0.1250	40	NC_UNC	2	1.9375	0.6250	0.1875	0.1410	0.1100
SPTI6	6	0.1380	32	NC_UNC	2	2.0000	0.6875	0.1875	0.1410	0.1100
SPTI8	8	0.1640	32	NC_UNC	2	2.1250	0.7500	0.2500	0.1680	0.1310
SPTI10	10	0.1900	32	UF_UNF	2	2.3750	0.8750	0.2500	0.1940	0.1520
SPTI10_F	10	0.1900	24	NC_UNC	2	2.3750	0.8750	0.2500	0.1940	0.1520
SPTI12	1	0.2160	24	NC_UNC	2	2.3750	0.9375	0.2812	0.2200	0.1650

## SPIRAL POINTED ONLY TAP - FRACTIONAL SIZES High-Speed Steel - Ground Thread



### Generic Part Name: SPOTFG

#### Notes:

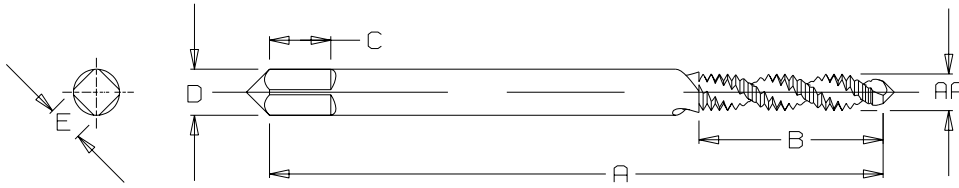
1. Corresponds to standard ANSI B94.9-1987.
2. Enter values exactly as shown.

Instance Name	Tap Dia. Frac.	AA Cutter Dia.	Style No.	Threads Per Inch	Thread Series	Spiral Point No.	A Tool Length	B Thread Length	C Square Length	D Shank Dia.	E Square Size
SPT1	1/4	0.2500	2	20	NC_UNC	2	2.5000	1.0000	0.3125	0.2550	0.1910
SPT2	5/16	0.3125	2	18	NC-UNC	2	2.7188	1.1250	0.3750	0.3180	0.2380
SPT3	3/8	0.3750	2	16	NC_UNC	3	2.9375	1.2500	0.4375	0.3180	0.2860
SPT4	1/2	0.5000	3	13	NC_UNC	3	3.3750	1.6562	0.4375	0.3670	0.2750

## STANDARD TAPS - CUT AND GROUND THREADS

### SPIRAL FLUTED TAP - MACHINE SCREW SIZES

#### High-Speed Steel - Ground Thread



#### Generic Part Name: SFTMG

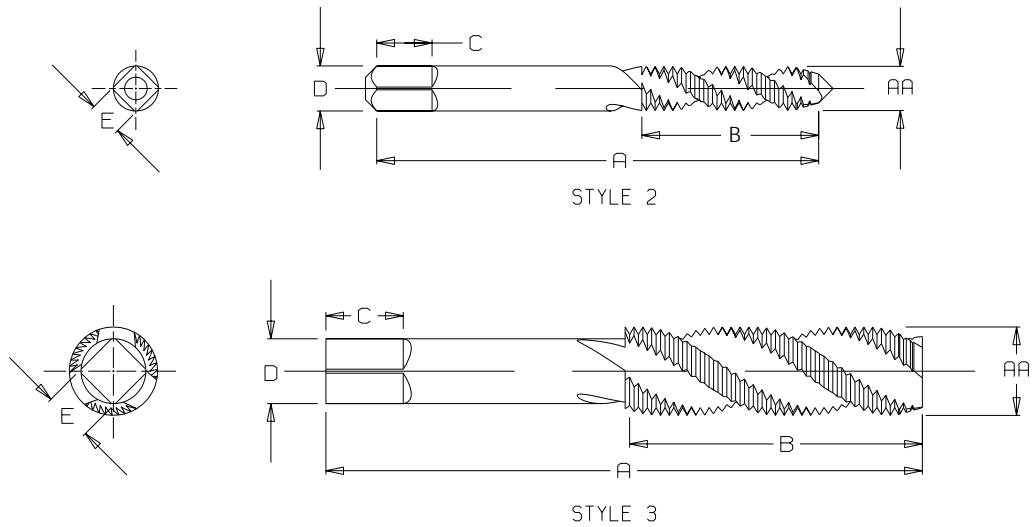
##### Notes:

1. Corresponds to standard ANSI B94.9-1987.
2. Enter values exactly as shown.

Instance Name	Size	AA Cutter Dia.	Threads Per Inch	Thread Series	Flute Number	A Tool Length	B Thread Length	C Square Length	D Shank Dia.	E Square Size
SFT4	4	0.1120	40	NC_UNC	2	1.8750	0.5625	0.1875	0.1410	0.1100
SFT5	5	0.1250	40	NC_UNC	2	1.9375	0.6250	0.1875	0.1410	0.1100
SFT6	6	0.1380	32	NC_UNC	2	2.0000	0.6875	0.1875	0.1410	0.1100
SFT8	8	0.1640	32	NC_UNC	2	2.1250	0.7500	0.2500	0.1680	0.1310
SFT9	10	0.1900	32	UF_UNF	2	2.3750	0.8750	0.2500	0.1940	0.1520
SFT10	10	0.1900	24	NC_UNC	2	2.3750	0.8750	0.2500	0.1940	0.1520

## SPIRAL FLUTED TAP - FRACTIONAL SIZES

### High-Speed Steel - Ground Thread



### Generic Part Name: SFTFG

#### Notes:

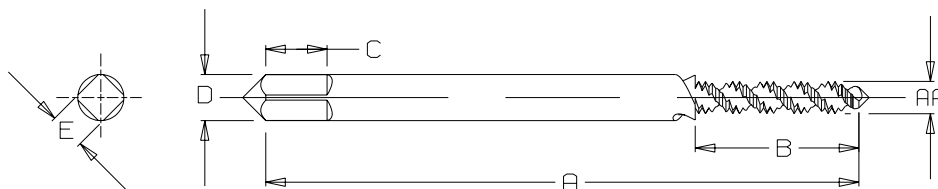
1. Corresponds to standard ANSI B94.9-1987.
2. Enter values exactly as shown.

Instance Name	AA Cutter Dia.	Style No.	Threads Per Inch	Thread Series	Flute Number	A Tool Length	B Thread Length	C Square Length	D Shank Dia.	E Square Size
S1	0.2500	2	20	NC_UNC	2	2.5000	1.0000	0.3125	0.2550	0.1910
S2	0.2500	2	28	NF_UNF	3	2.5000	1.0000	0.3125	0.2550	0.1910
S3	0.3125	2	18	NC_UNC	3	2.7188	1.1250	0.3750	0.3180	0.2380
S4	0.3125	2	24	NF_UNF	3	2.7188	1.1250	0.3750	0.3180	0.2380
S5	0.3750	2	16	NC_UNC	3	2.9375	1.2500	0.4375	0.3810	0.2860
S6	0.3750	2	24	NF_UNF	3	2.9375	1.2500	0.4375	0.3810	0.2860
S7	0.5000	3	13	NC_UNC	3	3.3750	1.6562	0.4375	0.3670	0.2750
S8	0.5000	3	20	NF_UNF	3	3.3750	1.6562	0.4375	0.3670	0.2750

## STANDARD TAPS - CUT AND GROUND THREADS

### FAST SPIRAL FLUTED TAP - MACHINE SCREW SIZES

#### High-Speed Steel - Ground Thread



#### Generic Part Name: FSFTMG

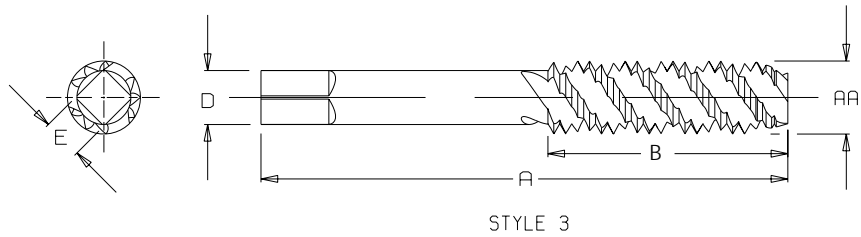
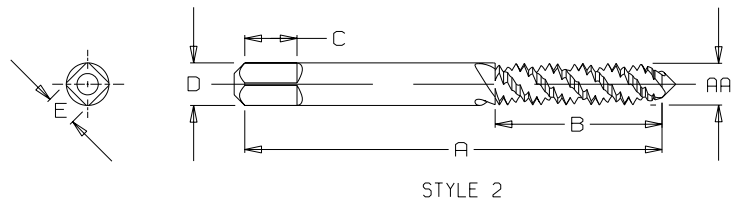
##### Notes:

1. Corresponds to standard ANSI B94.9-1987.
2. Enter values exactly as shown.

Instance Name	Size	AA Cutter Dia.	Threads Per Inch	Thread Series	Flute Number	A Tool Length	B Thread Length	C Square Length	D Shank Dia.	E Square Size
SFT3	3	0.0990	48	NC_UNC	2	1.8125	0.5000	0.1875	0.1410	0.1100
SFT4	4	0.1120	40	NC_UNC	2	1.8750	0.5625	0.1875	0.1410	0.1100
SFT5	5	0.1250	40	NC_UNC	2	1.9375	0.6250	0.1875	0.1410	0.1100
SFT6	6	0.1380	32	NC_UNC	2	2.0000	0.6875	0.1875	0.1410	0.1100
SFT8	8	0.1640	32	NC_UNC	3	2.1250	0.7500	0.2500	0.1680	0.1310
SFT9	10	0.1900	32	UF_UNF	3	2.3750	0.8750	0.2500	0.1940	0.1520
SFT10	10	0.1900	24	NC_UNC	3	2.3750	0.8750	0.2500	0.1940	0.1520
SFT12	12	0.2160	24	NC_UNC	3	2.3750	0.9375	0.2812	0.2200	0.1650

## FAST SPIRAL FLUTED TAP - FRACTIONAL SIZES

### High-Speed Steel - Ground Thread



### Generic Part Name: FSFTFG

#### Notes

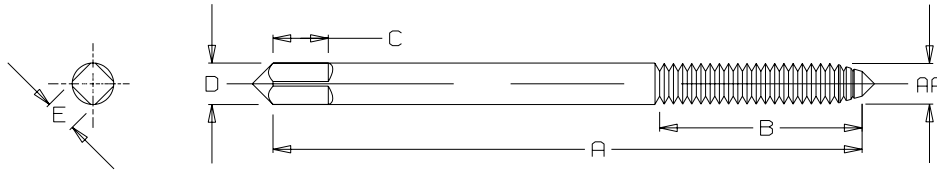
1. Corresponds to standard ANSI B94.9-1987.
2. Enter values exactly as shown.

Instance Name	AA Cutter Dia.	Style No.	Threads Per Inch	Thread Series	Flute Number	A Tool Length	B Thread Length	C Square Length	D Shank Dia.	E Square Size
FS1	0.2500	2	20	NC_UNC	3	2.5000	1.0000	0.3125	0.2550	0.1910
FS2	0.2500	2	28	NF_UNF	3	2.5000	1.0000	0.3125	0.2550	0.1910
FS3	0.3125	2	18	NC_UNC	3	2.7188	1.1250	0.3750	0.3180	0.2380
FS4	0.3125	2	24	NF_UNF	3	2.7188	1.1250	0.3750	0.3180	0.2380
FS5	0.3750	2	16	NC_UNC	3	2.9375	1.2500	0.4375	0.3810	0.2860
FS6	0.3750	2	24	NF_UNF	3	2.9375	1.2500	0.4375	0.3810	0.2860
FS7	0.4375	3	14	NC_UNC	3	3.1562	1.4375	0.4062	0.3230	0.2420
FS8	0.4375	3	20	NF_UNF	3	3.1562	1.4375	0.4062	0.3230	0.2420
FS9	0.5000	3	13	NC_UNC	3	3.3750	1.6562	0.4375	0.3670	0.2750
FS10	0.5000	3	20	NF_UNF	3	3.3750	1.6562	0.4375	0.3670	0.2750

## STANDARD TAPS - CUT AND GROUND THREADS

### THREAD FORMING TAP - MACHINE SCREW SIZE

#### High-Speed Steel - Ground Thread



#### Generic Part Name: TFTMG

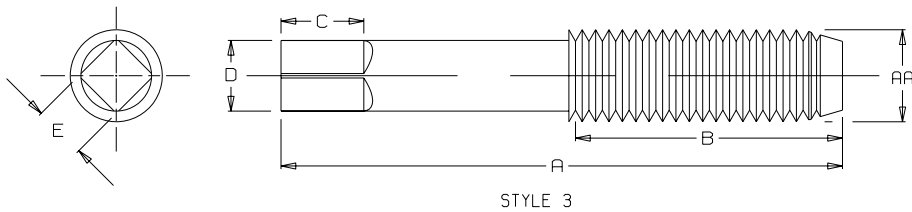
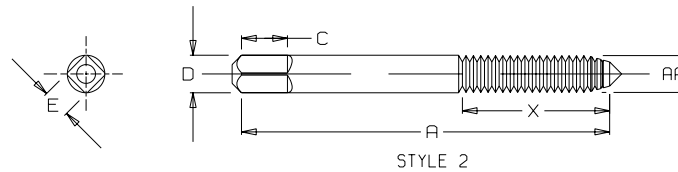
##### Notes:

1. Corresponds to standard ANSI B94.9-1987.
2. Enter values exactly as shown.

Instance Name	Size	AA Cutter Dia.	Threads Per Inch	Thread Series	A Tool Length	B Thread Length	C Square Length	D Shank Dia.	E Square Size
TFTI0_F	0	0.0600	80	NF_UNF	1.6250	0.3125	0.1875	0.1410	0.1100
TFTI1_C	1	0.0730	64	NC_UNC	1.6875	0.3750	0.1875	0.1410	0.1100
TFTI1_F	1	0.0730	72	NF_UNF	1.6875	0.3750	0.1875	0.1410	0.1100
TFTI2_C	2	0.0860	56	NC_UNC	1.7500	0.4375	0.1875	0.1410	0.1100
TFTI2_F	2	0.0860	64	NF_UNF	1.7500	0.4375	0.1875	0.1410	0.1100
TFTI3_C	3	0.0990	48	NC_UNC	1.8125	0.5000	0.1875	0.1410	0.1100
TFTI3_F	3	0.0990	56	NF_UNF	1.8125	0.5000	0.1875	0.1410	0.1100
TFTI4_C	4	0.1120	40	NC_UNC	1.8750	0.5625	0.1875	0.1410	0.1100
TFTI4_F	4	0.1120	48	NF_UNF	1.8750	0.5625	0.1875	0.1410	0.1100
TFTI5_C	5	0.1250	40	NC_UNC	1.9375	0.6250	0.1875	0.1410	0.1100
TFTI5_F	5	0.1250	44	NF_UNF	1.9375	0.6250	0.1875	0.1410	0.1100
TFTI6_C	6	0.1380	32	NC_UNC	2.0000	0.6875	0.1875	0.1410	0.1100
TFTI6_F	6	0.1380	40	NF_UNF	2.0000	0.6875	0.1875	0.1410	0.1100
TFTI8_C	8	0.1640	32	NC_UNC	2.1250	0.7500	0.2500	0.1680	0.1310
TFTI8_F	8	0.1640	36	NF_UNF	2.1250	0.7500	0.2500	0.1680	0.1310
TFTI10_C	10	0.1900	24	NC_UNC	2.3750	0.8750	0.2500	0.1940	0.1520
TFTI10_F	10	0.1900	32	NF_UNF	2.3750	0.8750	0.2500	0.1940	0.1520
TFTI12_C	12	0.2160	24	NC_UNC	2.3750	0.9375	0.2812	0.2200	0.1650
TFTI12_F	12	0.2160	28	NF_UNF	2.3750	0.9375	0.2812	0.2200	0.1650

## THREAD FORMING TAP - FRACTIONAL SIZES

### High-Speed Steel - Ground Thread



### Generic Part Name: TFTFG

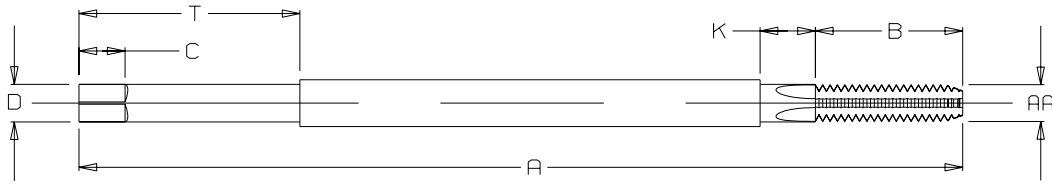
#### Notes:

1. Corresponds to standard ANSI B94.9-1987.
2. Enter values exactly as shown.

Instance Name	Tap Dia. Frac.	AA Cutter Dia.	Style Number	Threads Per Inch	Thread Series	A Tool Length	B Thread Length	C Square Length	D Shank Dia.	E Square Size
T1_C	1/4	0.2500	2.000	20.000	NC_UNC	2.5000	1.0000	0.3125	0.2550	0.1910
T1_F	1/4	0.2500	2.000	28.000	NF_UNF	2.5000	1.0000	0.3125	0.2550	0.1910
T2_C	5/16	0.3125	2.000	18.000	NC_UNC	2.7188	1.1250	0.3750	0.3180	0.2380
T2_F	5/16	0.3125	2.000	24.000	NF_UNF	2.7188	1.1250	0.3750	0.3180	0.2380
T3_C	3/8	0.3750	2.000	16.000	NC_UNC	2.9375	1.2500	0.4375	0.3810	0.2860
T3_F	3/8	0.3750	2.000	24.000	NF_UNF	2.9375	1.2500	0.4375	0.3810	0.2860
T4_C	7/16	0.4375	3.000	14.000	NC_UNC	3.1563	1.4375	0.4063	0.3230	0.2420
T4_F	7/16	0.4375	3.000	20.000	NF_UNF	3.1563	1.4375	0.4063	0.3230	0.2420
T5_C	1/2	0.5000	3.000	13.000	NC_UNC	3.3750	1.6562	0.4375	0.3670	0.2750
T5_F	1/2	0.5000	3.000	20.000	NF_UNF	3.3750	1.6562	0.4375	0.3670	0.2750
T6_C	9/16	0.5625	3.000	12.000	NC_UNC	3.5938	1.6562	0.5000	0.4290	0.3220
T6_F	9/16	0.5625	3.000	18.000	NF_UNF	3.5938	1.6562	0.5000	0.4290	0.3220
T7_C	5/8	0.6250	3.000	11.000	NC_UNC	3.8125	1.8125	0.5625	0.4800	0.3600
T7_F	5/8	0.6250	3.000	18.000	NF_UNF	3.8125	1.8125	0.5625	0.4800	0.3600
T8_C	3/4	0.7500	3.000	10.000	NC_UNC	4.2500	2.0000	0.6875	0.5900	0.4420
T8_F	3/4	0.7500	3.000	16.000	NF_UNF	4.2500	2.0000	0.6875	0.5900	0.4420

## STANDARD TAPS - CUT AND GROUND THREADS

### PULLEY TAP - FRACTIONAL SIZES High-Speed Steel - Ground Thread



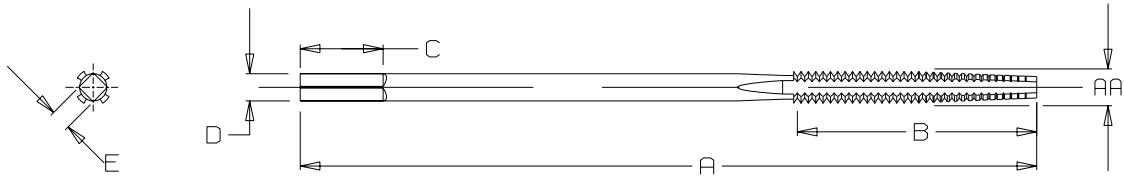
#### Generic Part Name: PTF

##### Notes:

1. Corresponds to standard ANSI B94.9-1987.
2. Enter values exactly as shown.

Instance Name	AA Cutter Dia.	Threads Per Inch	Thread Series	Flute Number	A Tool Length	B Thread Length	C Square Length	D Shank Dia.	Square Size	T Close Tol. Lng.	K Neck Length
PTF1	0.2500	20	NC_UNC	4	6.0000	1.0000	0.3125	0.2550	0.191	1.5000	0.3750
PTF2	0.3125	18	NC_UNC	4	6.0000	1.1250	0.3750	0.3180	0.238	1.5625	0.3750
PTF3	0.3750	16	NC_UNC	4	6.0000	1.2500	0.4375	0.3810	0.286	1.6250	0.3750
PTF4	0.4375	14	NC_UNC	4	6.0000	1.4375	0.5000	0.4440	0.333	1.6875	0.4325
PTF5	0.5000	13	NC_UNC	4	6.0000	1.6563	0.5625	0.5070	0.380	1.6875	0.5000
PTF6	0.6250	11	NC_UNC	4	6.0000	1.8125	0.6875	0.6330	0.475	2.0000	0.6250
PTF7	0.7500	10	NC_UNC	4	10.0000	2.0000	0.7500	0.7590	0.569	2.2500	0.7500
PTF8	0.2500	20	NC_UNC	4	8.0000	1.0000	0.3125	0.2550	0.191	1.5000	0.3750
PTF9	0.3125	18	NC_UNC	4	8.0000	1.1250	0.3750	0.3180	0.238	1.5625	0.3750
PTF10	0.3750	16	NC_UNC	4	8.0000	1.2500	0.4375	0.3810	0.286	1.6250	0.3750
PTF11	0.4375	14	NC_UNC	4	8.0000	1.4375	0.5000	0.4440	0.333	1.6875	0.4325
PTF12	0.5000	13	NC_UNC	4	8.0000	1.6563	0.5625	0.5070	0.380	1.6875	0.5000
PTF13	0.6250	11	NC_UNC	4	8.0000	1.8125	0.6875	0.6330	0.475	2.0000	0.6250
PTF14	0.3750	16	NC_UNC	4	10.0000	1.2500	0.4375	0.3810	0.286	1.6250	0.3750
PTF15	0.5000	13	NC_UNC	4	10.0000	1.6563	0.5625	0.5070	0.380	1.6875	0.5000
PTF16	0.6250	11	NC_UNC	4	10.0000	1.8125	0.6875	0.6330	0.475	2.0000	0.6250
PTF17	0.5000	13	NC_UNC	4	12.0000	1.6563	0.5625	0.5070	0.380	1.6875	0.5000

## NUT TAP - FRACTIONAL MEASUREMENT High-Speed Steel - Ground Thread



### Generic Part Name: NTFG

#### Notes:

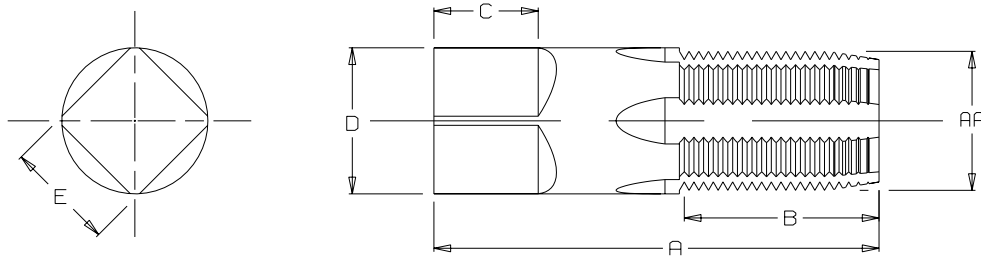
1. Corresponds to standard ANSI B94.9-1987.
2. Enter values exactly as shown.

Instance Name	Tap Dia. Frac.	AA Cutter Dia.	Threads Per Inch	Thread Series	Flute Number	A Tool Length	B Thread Length	C Square Length	D Shank Dia.	E Square Size
NP1	1/4	0.2500	20	NC UNC	4	5.0000	1.6250	0.5625	0.1850	0.1390
NP2	5/16	0.3125	18	NC UNC	4	5.5000	1.8125	0.6250	0.2400	0.1800
NP3	3/8	0.3750	16	NC UNC	4	6.0000	2.0000	0.6875	0.2940	0.2200
NP4	1/2	0.5000	13	NC UNC	4	7.0000	2.5000	0.8750	4.0000	0.3000

# STANDARD TAPS - CUT AND GROUND THREADS

## TAPER PIPE TAP - FRACTIONAL SIZES

### High-Speed Steel - Ground Thread



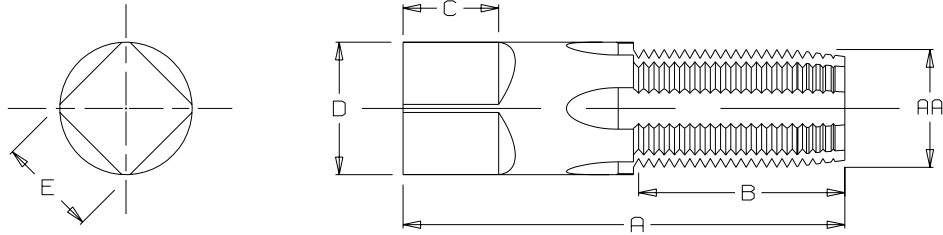
### Generic Part Name: TPTFG

#### Notes:

1. Corresponds to standard ANSI B94.9-1987.
2. Enter values exactly as shown.

Instance Name	Tap Dia. Frac.	AA Cutter Dia.	Threads Per Inch	Flute Number	Thread	A Tool Length	B Thread Length	C Square Length	D Shank Dia.	E Square Size
TPT1	1/16	0.28750	27	4	RT	2.1250	0.6875	0.3750	0.3125	0.2340
TPT2	1/8	0.38000	27	4	RT	2.1250	0.7500	0.3750	0.3125	0.2340
TPT3	1/8	0.38000	27	5	IT	2.1250	0.7500	0.3750	0.3125	0.2340
TPT4	1/8	0.38000	27	4	RT	2.1250	0.7500	0.3750	0.4375	0.3280
TPT5	1/8	0.38000	27	5	IT	2.1250	0.7500	0.3750	0.4375	0.3280
TPT6	1/4	0.50250	18	4	RT	2.4375	1.0625	0.4375	0.5625	0.4210
TPT7	1/4	0.50250	18	5	IT	2.4375	1.0625	0.4375	0.5625	0.4210
TPT8	3/8	0.63750	18	4	RT	2.5625	1.0625	0.5000	0.7000	0.5310
TPT9	3/8	0.63750	18	5	IT	2.5625	1.0625	0.5000	0.7000	0.5310
TPT10	1/2	0.79180	14	4	RT	3.1250	1.3750	0.6250	0.6875	0.5150
TPT11	1/2	0.79180	14	5	IT	3.1250	1.3750	0.6250	0.6875	0.5150
TPT12	3/4	1.00180	14	5	RT	3.2500	1.3750	0.6875	0.9063	0.6790
TPT13	3/4	1.00180	14	5	IT	3.2500	1.3750	0.6875	0.9063	0.6790
TPT14	1	1.25630	11.5	5	RT	3.7500	1.7500	0.8125	1.1250	0.8430
TPT15	1	1.25630	11.5	5	IT	3.7500	1.7500	0.8125	1.1250	0.8430
TPT16	1-1/4	1.60130	11.5	5	RT	4.0000	1.7500	0.9375	1.3125	0.9840
TPT17	1-1/4	1.60130	11.5	5	IT	4.0000	1.7500	0.9375	1.3125	0.9840
TPT18	1-1/2	1.84130	11.5	7	RT	4.2500	1.7500	1.0000	1.5000	1.1250
TPT19	1-1/2	1.84130	11.5	7	IT	4.2500	1.7500	1.0000	1.5000	1.1250
TPT20	2	2.31630	11.5	7	RT	4.5000	1.7500	1.1250	1.8750	1.4060
TPT21	2	2.31630	11.5	7	IT	4.5000	1.7500	1.1250	1.8750	1.4060

## STRAIGHT PIPE TAP - FRACTIONAL SIZES - NPS High-Speed Steel - Ground Thread



### Generic Part Name: SPTNPSG

#### Notes:

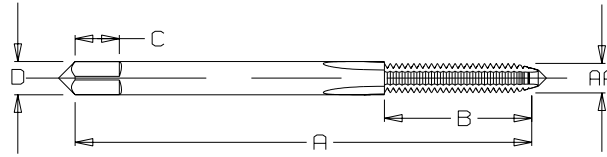
1. Corresponds to standard ANSI B94.9-1987.
2. Enter values exactly as shown.

Instance Name	Tap Dia. Frac.	AA Cutter Dia.	Threads Per Inch	Flute Number	A Tool Length	B Thread Length	C Square Length	D Shank Dia.	E Square Size
SPTG1	1/8	0.37650	27	4	2.1250	0.7500	0.3750	0.3125	0.2340
SPTG2	1/8	0.37650	27	4	2.1250	0.7500	0.3750	0.4375	0.3280
SPTG3	1/4	0.49450	18	4	2.4375	1.0625	0.4375	0.5625	0.4210
SPTG4	3/8	0.63000	18	4	2.5625	1.0625	0.5000	0.7000	0.5310
SPTG5	1/2	0.78180	14	4	3.1250	1.3750	0.6250	0.6875	0.5150
SPTG6	3/4	0.99230	14	5	3.2500	1.3750	0.6875	0.9063	0.6790
SPTG7	1	1.24230	11.5	5	3.7500	1.7500	0.8125	1.1250	0.8430

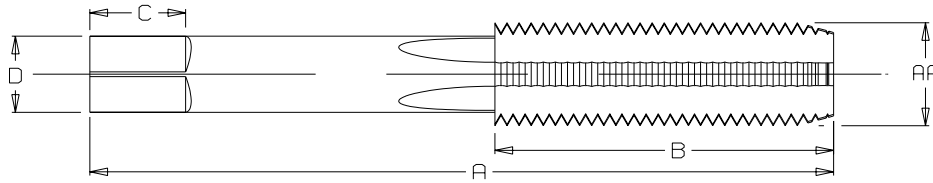
## STANDARD TAPS - CUT AND GROUND THREADS

### STRAIGHT FLUTED TAP - FRACTIONAL SIZES

#### Carbon Steel - Cut Thread and High-Speed Steel - Cut Thread



CUTTER DIA. SIZES 0.3750 AND SMALLER



CUTTER DIA. SIZES LARGER THAN 0.3750

### Generic Part Name: SFTFCS

#### Notes:

1. Corresponds to standard ANSI B94.9-1987.
2. Enter values exactly as shown.

Instance Name	AA Cutter Dia.	Threads Per Inch	Thread Series	Steel	Flute Number	A Tool Length	B Thread Length	C Square Length	D Shank Dia.	Square Size
SFTFCS1	0.1250	40	NS_UNF	CARBON	3	1.9375	0.6250	0.1875	0.1410	0.110
SFTFCS2	0.1562	32	NS_UNF	CARBON	4	2.1250	0.7500	0.2500	0.1680	0.131
SFTFCS3	0.1875	24	NS_UNF	CARBON	4	2.3750	0.8750	0.2500	0.1940	0.152
SFTFCS4	0.1875	32	NS_UNF	CARBON	4	2.3750	0.8750	0.2500	0.1940	0.152
SFTFCS5	0.2500	20	NC_UNF	CARBON	4	2.5000	1.0000	0.3125	0.2550	0.191
SFTFCS6	0.2500	28	NF_UNF	CARBON	4	2.5000	1.0000	0.3125	0.2550	0.191
SFTFCS7	0.3125	18	NC_UNF	CARBON	4	2.7188	1.1250	0.3750	0.3180	0.238
SFTFCS8	0.3125	24	NF_UNF	CARBON	4	2.7188	1.1250	0.3750	0.3180	0.238
SFTFCS9	0.3750	16	NC_UNF	CARBON	4	2.9375	1.2500	0.4375	0.3810	0.286
SFTFCS10	0.3750	24	NF_UNF	CARBON	4	2.9375	1.2500	0.4375	0.3810	0.286
SFTFCS11	0.4375	14	NC_UNF	CARBON	4	3.1563	1.4375	0.4063	0.3230	0.242
SFTFCS12	0.4375	20	NF_UNF	CARBON	4	3.1563	1.4375	0.4063	0.3230	0.242
SFTFCS13	0.5000	13	NC_UNF	CARBON	4	3.3750	1.6563	0.4375	0.3670	0.275
SFTFCS14	0.5000	20	NF_UNF	CARBON	4	3.3750	1.6563	0.4375	0.3670	0.275
SFTFCS15	0.5625	12	NC_UNF	CARBON	4	3.5938	1.6563	0.5000	0.4290	0.322
SFTFCS16	0.5625	18	NF_UNF	CARBON	4	3.5938	1.6563	0.5000	0.4290	0.322
SFTFCS17	0.6250	11	NC_UNF	CARBON	4	3.8125	1.8125	0.5625	0.4800	0.360

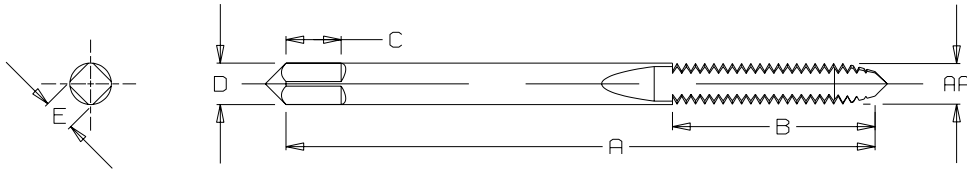
## STANDARD TAPS - CUT AND GROUND THREADS

Instance Name	AA Cutter Dia.	Threads Per Inch	Thread Series	Steel	Flute Number	A Tool Length	B Thread Length	C Square Length	D Shank Dia.	Square Size
SFTFCS18	0.6250	18	NF_UNF	CARBON	4	3.8125	1.8125	0.5625	0.4800	0.360
SFTFCS19	0.7500	10	NC_UNC	CARBON	4	4.2500	2.0000	0.6875	0.5900	0.442
SFTFCS20	0.7500	16	NF_UNF	CARBON	4	4.2500	2.0000	0.6875	0.5900	0.442
SFTFCS21	0.8750	9	NC_UNC	CARBON	4	4.6875	2.2188	0.7500	0.6970	0.523
SFTFCS22	0.8750	14	NF_UNF	CARBON	4	4.6875	2.2188	0.7500	0.6970	0.523
SFTFCS23	1.0000	8	NC_UNC	CARBON	4	5.1250	2.5000	0.8125	0.8000	0.600
SFTFCS24	1.0000	14	NS_UNF	CARBON	4	5.1250	2.5000	0.8125	0.8000	0.600
SFTFCS25	1.1250	7	NC_UNC	CARBON	4	5.4375	2.5625	0.8750	0.8960	0.672
SFTFCS26	1.1250	12	NF_UNF	CARBON	4	5.4375	2.5625	0.8750	0.8960	0.672
SFTFCS27	1.2500	7	NC_UNC	CARBON	4	5.7500	2.5625	1.0000	1.0210	0.766
SFTFCS28	1.2500	12	NF_UNF	CARBON	4	5.7500	2.5625	1.0000	1.0210	0.766
SFTFCS29	1.3750	6	NC_UNC	CARBON	4	6.0625	3.0000	1.0625	1.1080	0.831
SFTFCS30	1.3750	12	NF_UNF	CARBON	4	6.0625	3.0000	1.0625	1.1080	0.831
SFTFCS31	1.5000	6	NC_UNC	CARBON	4	6.3750	3.0000	1.1250	1.2330	0.925
SFTFCS32	1.5000	12	NF_UNF	CARBON	4	6.3750	3.0000	1.1250	1.2330	0.925
SFTFCS33	1.7500	5	NC_UNC	CARBON	6	7.0000	3.1875	1.2500	1.4300	1.072
SFTFCS34	2.0000	4.5	NC_UNC	CARBON	6	7.6250	3.5625	1.3750	1.6440	1.233
SFTFCS35	0.2500	20	NC_UNC	HS	4	2.5000	1.0000	0.3125	0.2550	0.191
SFTFCS36	0.2500	28	NF_UNF	HS	4	2.5000	1.0000	0.3125	0.2550	0.191
SFTFCS37	0.3125	18	NC_UNC	HS	4	2.7188	1.1250	0.3750	0.3180	0.238
SFTFCS38	0.3125	24	NF_UNF	HS	4	2.7188	1.1250	0.3750	0.3180	0.238
SFTFCS39	0.3750	16	NC_UNC	HS	4	2.9375	1.2500	0.4375	0.3810	0.286
SFTFCS40	0.3750	24	NF_UNF	HS	4	2.9375	1.2500	0.4375	0.3810	0.286
SFTFCS41	0.4375	14	NC_UNC	HS	4	3.1563	1.4375	0.4063	0.3230	0.242
SFTFCS42	0.4375	20	NF_UNF	HS	4	3.1563	1.4375	0.4063	0.3230	0.242
SFTFCS43	0.5000	13	NC_UNC	HS	4	3.3750	1.6563	0.4375	0.3670	0.275
SFTFCS44	0.5000	20	NF_UNF	HS	4	3.3750	1.6563	0.4375	0.3670	0.275
SFTFCS45	0.5625	12	NC_UNC	HS	4	3.5938	1.6563	0.5000	0.4290	0.322
SFTFCS47	0.6250	11	NC_UNC	HS	4	3.8125	1.8125	0.5625	0.4800	0.360
SFTFCS48	0.6250	18	NF_UNF	HS	4	3.8125	1.8125	0.5625	0.4800	0.360
SFTFCS49	0.7500	10	NC_UNC	HS	4	4.2500	2.0000	0.6875	0.5900	0.442
SFTFCS50	0.7500	16	NF_UNF	HS	4	4.2500	2.0000	0.6875	0.5900	0.442
SFTFCS51	0.8750	9	NC_UNC	HS	4	4.6875	2.2188	0.7500	0.6970	0.523
SFTFCS52	0.8750	14	NF_UNF	HS	4	4.6875	2.2188	0.7500	0.6970	0.523
SFTFCS53	1.0000	8	NC_UNC	HS	4	5.1250	2.5000	0.8125	0.8000	0.600

## STANDARD TAPS - CUT AND GROUND THREADS

### SPIRAL POINTED TAP - MACHINE SCREW SIZES

#### Carbon Steel - Cut Thread and High-Speed Steel - Cut Thread



#### Generic Part Name: SPTMC

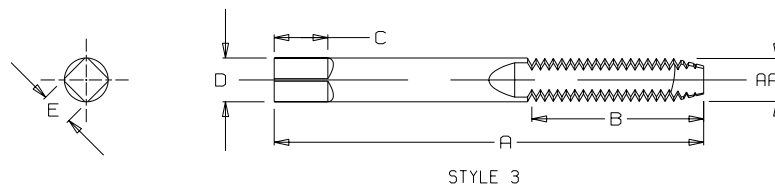
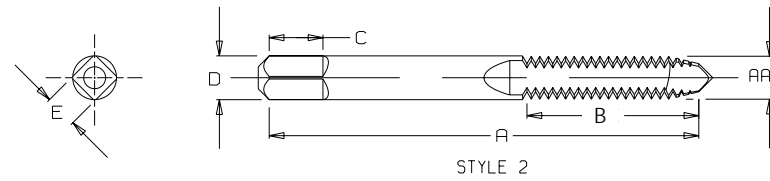
##### Notes:

1. Corresponds to standard ANSI B94.9-1987.
2. Enter values exactly as shown.

Instance Name	Size	AA Cutter Dia.	Threads Per Inch	Thread Series	Steel	Flute Number	A Tool Length	B Thread Length	C Square Length	D Shank Dia.	E Square Size
SPTMC1	4	0.1120	40	NC UNC	HS	2	1.8750	0.5625	0.1875	0.1410	0.1100
SPTMC2	5	0.1250	40	NC UNC	HS	2	1.9375	0.6250	0.1875	0.1410	0.1100
SPTMC3	6	0.1380	32	NC UNC	CARBON	2	2.0000	0.6875	0.1875	0.1410	0.1100
SPTMC4	6	0.1380	32	NC UNC	HS	2	2.0000	0.6875	0.1875	0.1410	0.1100
SPTMC5	8	0.1640	32	NC UNC	CARBON	2	2.1250	0.7500	0.2500	0.1680	0.1310
SPTMC6	8	0.1640	32	NC UNC	HS	2	2.1250	0.7500	0.2500	0.1680	0.1310
SPTMC7	10	0.1900	24	NC UNC	CARBON	2	2.3750	0.8750	0.2500	0.1940	0.1520
SPTMC8	10	0.1900	32	NF UNF	CARBON	2	2.3750	0.8750	0.2500	0.1940	0.1520
SPTMC9	10	0.1900	24	NC UNC	HS	2	2.3750	0.8750	0.2500	0.1940	0.1520
SPTMC10	10	0.1900	32	NF UNF	HS	2	2.3750	0.8750	0.2500	0.1940	0.1520
SPTMC11	12	0.2160	24	NC UNC	HS	2	2.3750	0.9375	0.2813	0.2200	0.1650

## SPIRAL POINTED TAP - FRACTIONAL SIZES

### High-Speed Steel - Cut Thread



### Generic Part Name: SPTFC

#### Notes:

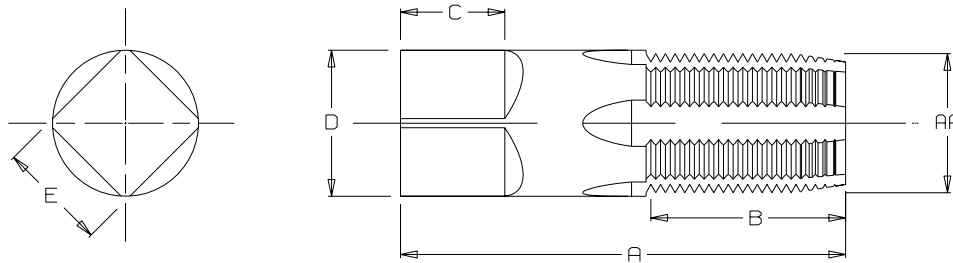
1. Corresponds to standard ANSI B94.9-1987.
2. Enter values exactly as shown.

Instance Name	Tap Dia. Frac.	AA Cutter Dia.	Style Number	Threads Per Inch	Thread Series	Flute Number	A Tool Length	B Thread Length	C Square Length	D Shank Dia.	E Square Size
SPTI1	1/4	0.2500	2	20	NC_UNC	2	2.5000	1.0000	0.3125	0.2550	0.1910
SPTI2	1/4	0.2500	3	20	NC_UNC	2	2.5000	1.0000	0.3125	0.2550	0.1910
SPTI3	1/4	0.2500	2	28	NF_UNF	2	2.5000	1.0000	0.3125	0.2550	0.1910
SPTI4	1/4	0.2500	3	28	NF_UNF	2	2.5000	1.0000	0.3125	0.2550	0.1910
SPTI5	5/16	0.3125	2	18	NC-UNC	2	2.7188	1.1250	0.3750	0.3180	0.2380
SPTI6	5/16	0.3125	3	18	NC-UNC	2	2.7188	1.1250	0.3750	0.3180	0.2380
SPTI7	5/16	0.3125	2	24	NF_UNF	2	2.7188	1.1250	0.3750	0.3180	0.2380
SPTI8	5/16	0.3125	3	24	NF_UNF	2	2.7188	1.1250	0.3750	0.3180	0.2380
SPTI9	3/8	0.3750	2	16	NC_UNC	3	2.9375	1.2500	0.4375	0.3810	0.2860
SPTI10	3/8	0.3750	3	16	NC_UNC	3	2.9375	1.2500	0.4375	0.3810	0.2860
SPTI11	3/8	0.3750	2	24	NF_UNF	3	2.9375	1.2500	0.4375	0.3810	0.2860
SPTI12	3/8	0.3750	3	24	NF_UNF	3	2.9375	1.2500	0.4375	0.3810	0.2860
SPTI13	1/2	0.5000	3	13	NC_UNC	3	3.3750	1.6562	0.4375	0.3670	0.2750

# STANDARD TAPS - CUT AND GROUND THREADS

## TAPER PIPE TAP - FRACTIONAL SIZES - NPT

### Carbon Steel - Cut Thread



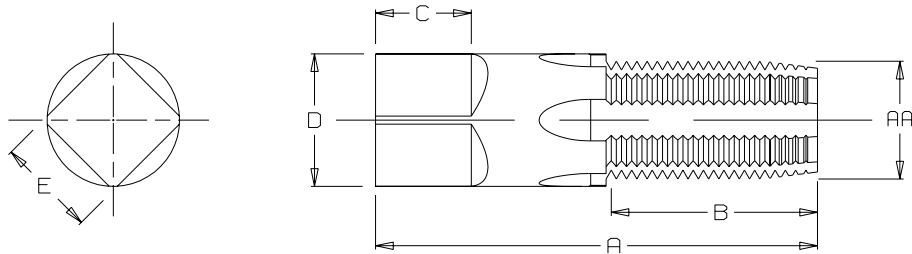
### Generic Part Name - TPTFC

#### Notes:

1. Corresponds to standard ANSI B94.9-1987.
2. Enter values exactly as shown.

Instance Name	Tap Dia. Frac.	AA Cutter Dia.	Threads Per Inch	Flute Number	Thread	A Tool Length	B Thread Length	C Square Length	D Shank Dia.	E Square Size
TPTC1	1/8	0.38000	27	4	RT	2.1250	0.7500	0.3750	0.3125	0.2340
TPTC2	1/8	0.38000	27	5	IT	2.1250	0.7500	0.3750	0.3125	0.2340
TPTC3	1/8	0.38000	27	4	RT	2.1250	0.7500	0.3750	0.4375	0.3280
TPTC4	1/8	0.38000	27	5	IT	2.1250	0.7500	0.3750	0.4375	0.3280
TPTC5	1/4	0.50250	18	4	RT	2.4375	1.0625	0.4375	0.5625	0.4210
TPTC6	1/4	0.50250	18	5	IT	2.4375	1.0625	0.4375	0.5625	0.4210
TPTC7	3/8	0.63750	18	4	RT	2.5625	1.0625	0.5000	0.7000	0.5310
TPTC8	3/8	0.63750	18	5	IT	2.5625	1.0625	0.5000	0.7000	0.5310
TPTC9	1/2	0.79180	14	4	RT	3.1250	1.3750	0.6250	0.6875	0.5150
TPTC10	1/2	0.79180	14	5	IT	3.1250	1.3750	0.6250	0.6875	0.5150
TPTC11	3/4	1.00180	14	5	RT	3.2500	1.3750	0.6875	0.9063	0.6790
TPTC12	3/4	1.00180	14	5	IT	3.2500	1.3750	0.6875	0.9063	0.6790
TPTC13	1	1.25630	11.500	5	RT	3.7500	1.7500	0.8125	1.1250	0.8430
TPTC14	1	1.25630	11.500	5	IT	3.7500	1.7500	0.8125	1.1250	0.8430
TPTC15	1-1/4	1.60130	11.500	5	RT	4.0000	1.7500	0.9375	1.3125	0.9840
TPTC16	1-1/4	1.60130	11.500	5	IT	4.0000	1.7500	0.9375	1.3125	0.9840
TPTC17	1-1/2	1.84130	11.500	7	RT	4.2500	1.7500	1.0000	1.5000	1.1250
TPTC18	2	2.31630	11.500	7	RT	4.5000	1.7500	1.1250	1.8750	1.4060
TPTC19	2-1/2	2.79060	8	8	RT	5.5000	2.5625	1.2500	2.2500	1.6870
TPTC20	3	3.41560	8	8	RT	6.0000	2.6250	1.3750	2.6250	1.9680

## STRAIGHT PIPE TAP - FRACTIONAL SIZES - NPS High-Speed Steel - Cut Thread



### Generic Part Name: SPTNPSC

#### Notes:

1. Corresponds to standard ANSI B94.9-1987.
2. Enter values exactly as shown.

Instance Name	Tap Dia. Frac.	AA Cutter Dia.	Threads Per Inch	Flute Number	A Tool Length	B Thread Length	C Square Length	D Shank Dia.	E Square Size
SPTC1	1/8	0.37650	27.000	4.000	2.1250	0.7500	0.3750	0.4375	0.3280
SPTC2	1/4	0.49450	18.000	4.000	2.4375	1.0625	0.4375	0.5625	0.4210
SPTC3	3/8	0.63000	18.000	4.000	2.5625	1.0625	0.5000	0.7000	0.5310
SPTC4	1/2	0.78180	14.000	4.000	3.1250	1.3750	0.6250	0.6875	0.5150
SPTC5	3/4	0.99230	14.000	5.000	3.2500	1.3750	0.6875	0.9063	0.6790
SPTC6	1	1.24230	11.500	5.000	3.7500	1.7500	0.8125	1.1250	0.8430

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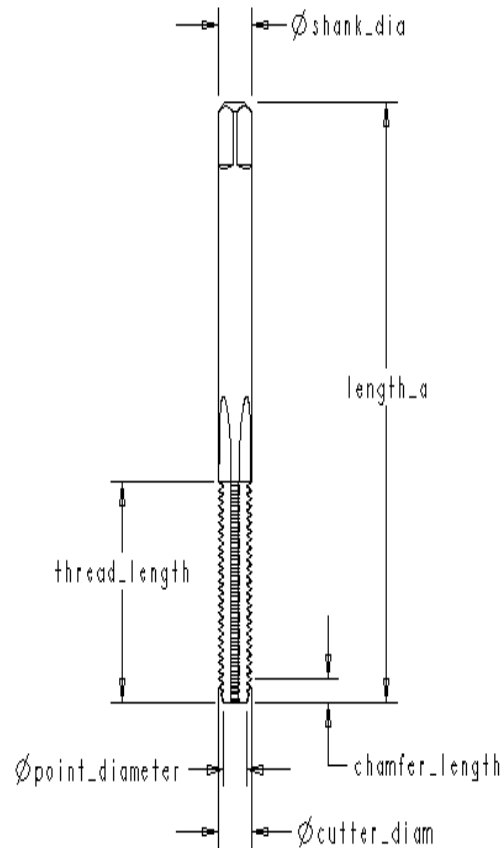
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# METRIC TAPS - CUT AND GROUND THREADS

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## SPIRAL FLUTED TAP - METRIC SIZES

### High-Speed Steel - Ground Thread



### Generic Part Name: MSFTHS

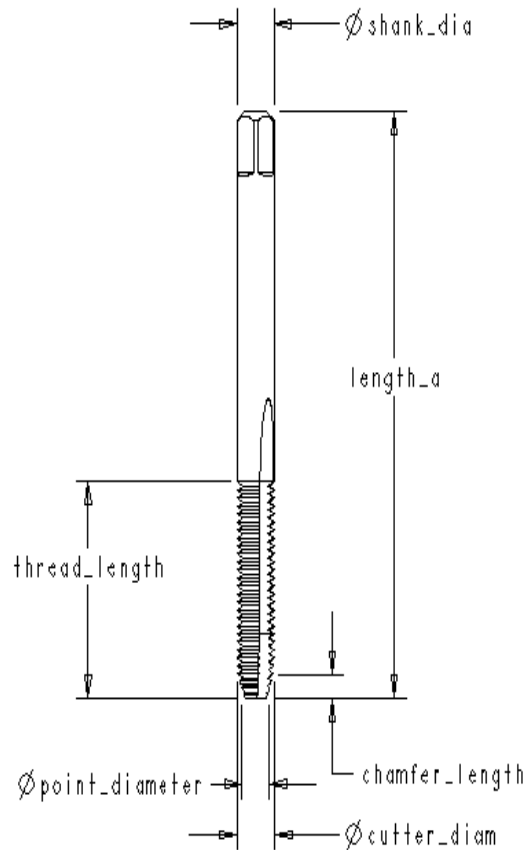
#### Notes:

1. Corresponds to standard ANSI B94.9-1987.
2. Enter values exactly as shown.
3. All dimensions are given in millimeters.
4. The material is HSS.
5. The table of dimensions for this part is presented on the next page.

## METRIC TAPS - CUT AND GROUND THREADS

Instance Name	cutter_diam	Pitch	Style Num.	Flutes	length_a	thread_length	Length of Square	shank_dia	Size of Square	F7962 Cut	F8068 Cut	F16633 Cut
MSFTHS01	1.600	0.350	1	2	41.275	7.940	4.7625	3.5814	2.7940	N	N	N
MSFTHS02	2.000	0.400	1	3	44.450	11.110	4.7625	3.5814	2.7940	N	N	N
MSFTHS03	2.500	0.450	1	3	46.040	12.700	4.7625	3.5814	2.7940	N	N	N
MSFTHS04	3.000	0.500	1	3	49.210	15.880	4.7625	3.5814	2.7940	N	N	N
MSFTHS05	3.500	0.600	1	3	50.800	17.460	4.7625	3.5814	2.7940	N	N	N
MSFTHS06	4.000	0.700	1	4	53.980	19.050	6.3500	4.2700	3.3300	N	N	N
MSFTHS07	4.500	0.700	1	4	60.325	22.225	6.3500	4.9280	3.8600	N	N	N
MSFTHS08	5.000	0.800	1	4	60.325	22.225	6.3500	4.9280	3.8600	N	N	N
MSFTHS09	6.000	1.000	2	4	63.500	25.400	7.9375	6.4800	4.8500	Y	N	Y
MSFTHS10	7.000	1.000	2	4	69.060	28.580	9.5250	8.0800	6.0450	Y	N	Y
MSFTHS11	8.000	1.250	2	4	69.060	28.580	9.5250	8.0800	6.0450	Y	N	Y
MSFTHS12	10.000	1.500	2	4	74.610	31.750	11.1100	9.6800	7.2600	Y	N	Y
MSFTHS13	12.000	1.750	3	4	85.730	42.070	11.1125	9.3200	6.9900	Y	Y	N
MSFTHS14	14.000	2.000	3	4	91.280	42.070	12.7000	10.9000	8.1800	Y	Y	N
MSFTHS15	16.000	2.000	3	4	96.840	46.040	14.2900	12.1900	9.1400	Y	Y	N
MSFTHS16	20.000	2.500	3	4	113.510	50.800	17.4600	16.5600	12.4200	Y	Y	N
MSFTHS17	24.000	3.000	3	4	124.620	56.360	19.0500	19.3000	14.4800	Y	Y	N
MSFTHS18	30.000	3.500	3	4	138.110	65.090	25.4000	25.9300	19.4600	Y	Y	N
MSFTHS19	36.000	4.000	3	4	153.990	76.200	28.5800	31.3200	23.5000	Y	Y	N

**SPIRAL POINTED TAP - METRIC SIZES**  
**High-Speed Steel - Ground Thread**



**Generic Part Name: MSPTHS**

**Notes:**

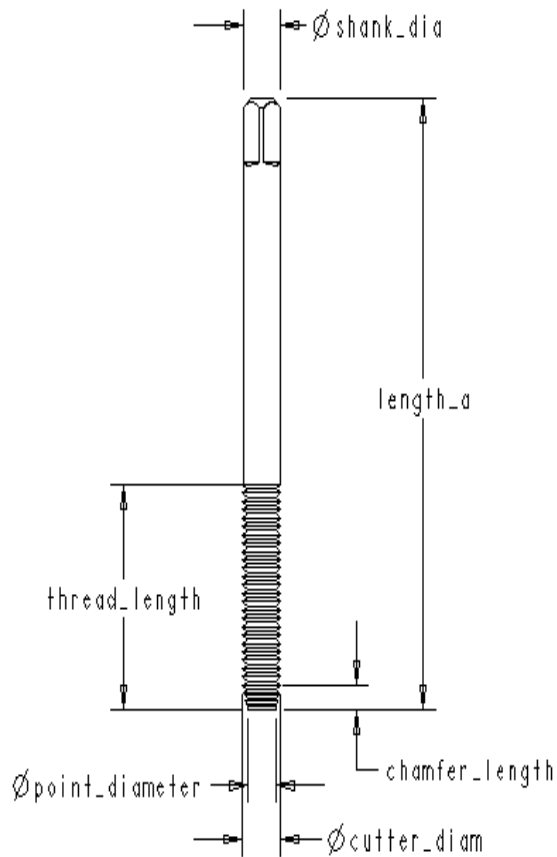
1. Corresponds to standard ANSI B94.9-1987.
2. Enter values exactly as shown.
3. All dimensions are given in millimeters.
4. The material is HSS.
5. The table of dimensions for this part is presented on the next page.

## METRIC TAPS - CUT AND GROUND THREADS

Instance Name	cutter_diam	Pitch	Style Num.	Flutes	length_a	thread_length	Length of Square	shank_dia	Size of Square	F7962 Cut	F8068 Cut	F16633 Cut
MSPTHS01	1.600	0.350	1	2	41.275	7.9400	4.7625	3.5814	2.7940	N	N	N
MSPTHS02	2.000	0.400	1	2	44.450	11.110	4.7625	3.5814	2.7940	N	N	N
MSPTHS03	2.500	0.450	1	2	46.040	12.700	4.7625	3.5814	2.7940	N	N	N
MSPTHS04	3.000	0.500	1	2	49.210	15.880	4.7625	3.5814	2.7940	N	N	N
MSPTHS05	3.500	0.600	1	2	50.800	17.460	4.7625	3.5814	2.7940	N	N	N
MSPTHS06	4.000	0.700	1	2	53.980	19.050	6.3500	4.2700	3.3300	N	N	N
MSPTHS07	5.000	0.800	1	2	60.325	22.220	6.3500	4.9280	3.8600	N	N	N
MSPTHS08	6.000	1.000	2	2	63.500	25.400	7.9375	6.4800	4.8500	Y	N	Y
MSPTHS09	8.000	1.250	2	2	69.060	28.580	9.5250	8.0800	6.0450	Y	N	Y
MSPTHS10	10.000	1.500	2	3	74.610	31.750	11.1100	9.6800	7.2600	Y	N	Y
MSPTHS11	12.000	1.750	3	3	85.730	42.070	11.1125	9.3200	6.9900	Y	Y	N
MSPTHS12	14.000	2.000	3	3	91.280	42.070	12.7000	10.9000	8.1800	Y	Y	N
MSPTHS13	16.000	2.000	3	3	96.840	46.040	14.2900	12.1900	9.1400	Y	Y	N
MSPTHS14	20.000	2.500	3	3	113.510	50.800	17.4600	16.5600	12.4200	Y	Y	N

## THREAD FORMING TAP - METRIC SIZES

### High-Speed Steel - Ground Thread



### Generic Part Name: MSPTHS

#### Notes:

1. Corresponds to standard ANSI B94.9-1987.
2. Enter values exactly as shown.
3. All dimensions are given in millimeters.
4. The material is HSS.
5. The table of dimensions for this part is presented on the next page.

## METRIC TAPS - CUT AND GROUND THREADS

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Instance Name	cutter_diam	Size of Square	Pitch	Style Num.	length_a	thread_length	Length of Square	shank_dia	Size of Square	F7962 Cut	F7962 Cut	F8068 Cut	F16633 Cut
MTFTHS01	3.000	2.7940	0.500	1	49.210	15.880	4.7625	3.5814	2.794	N	N	N	N
MTFTHS02	4.000	3.3300	0.700	1	53.980	19.050	6.3500	4.2700	3.330	N	N	N	N
MTFTHS03	5.000	3.8600	0.800	1	60.320	22.220	6.3500	4.9280	3.860	N	N	N	N
MTFTHS04	6.000	4.8500	1.000	2	63.500	25.400	7.9375	6.4800	4.850	Y	Y	N	Y
MTFTHS05	8.000	6.0450	1.250	2	69.060	28.580	9.5250	8.0800	6.040	Y	Y	N	Y
MTFTHS06	10.000	7.2600	1.500	2	74.610	31.750	11.1100	9.6800	7.260	Y	Y	N	Y
MTFTHS07	12.000	6.9900	1.750	3	85.700	42.070	11.1125	9.3200	6.990	Y	Y	Y	N

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# TURNING TOOLS

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A directory of default turning tools is located in the **/turn\_tools** directory. The directory structure is set up as follows:

- */either\_hand*
- */left\_hand*
- */right\_hand*

All the turning tool models have dimensions and parameters for Pro/MANUFACTURING that are designated as symbols for retrieval in Pro/PDM. The parameters are as follows:

- ***MACH\_CLASS***—Indicates the type of machine with which a tool is used (for example, a lathe).
- ***TOOL\_CLASS***—Indicates the style of tool (such as drill, mill turning).
- ***TOOL\_MATERIAL***—Indicates the material the tool is made of (such as High Speed Steel or carbon).
- ***HOLDER\_TYPE***—Indicates the type of holder, including whether it is left- or right-handed. This parameter applies to turning tools only.
- ***INSERT\_SHAPE***—Indicates the shape of the insert (such as 35 diamond, 55 diamond, 80 diamond, triangular, or square). This applies to turning tools only.
- ***SHANK\_ORIENT***—Allows you to set the Z-direction of the turning tool holder along the shank axis or across the tool width. The system presents you with a instantiation option where you select the orientation. The possible values are the X-axis and the Z-axis (the default value).

The following sections describes the turning tools located in the directories */either\_hand*, *left\_hand*, and *right\_hand*.

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## TURNING TOOLS

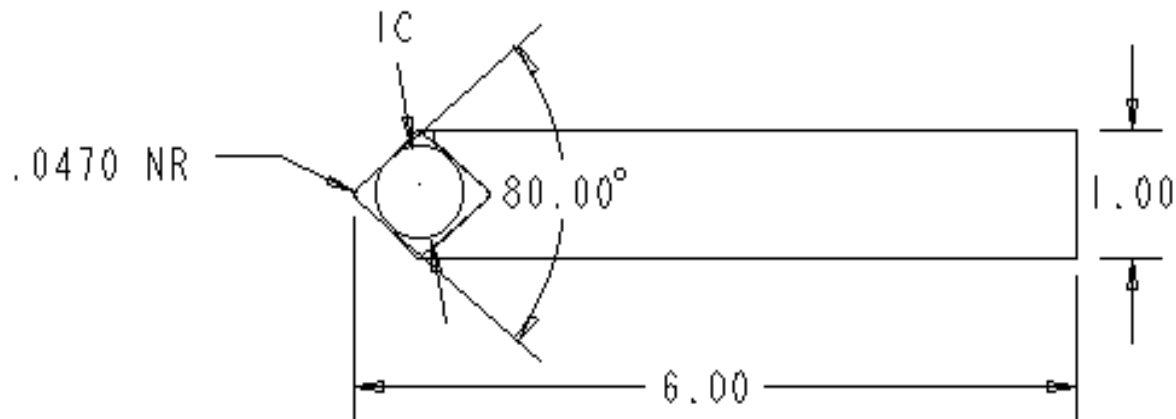
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### EITHER HAND TURNING TOOLS

#### 80 DEGREE DIAMOND INSERT TOOL

An 80 degree diamond insert tool with the following:

- .5 through .75 IC
- 3/64 inch nose radius



**Generic Part Name: CCDPN\_16**

Instance Name	IC
CCDPN16_4DZ	0.5000
CCDPN16_5DZ	0.6250
CCDPN16_6DZ	0.7500

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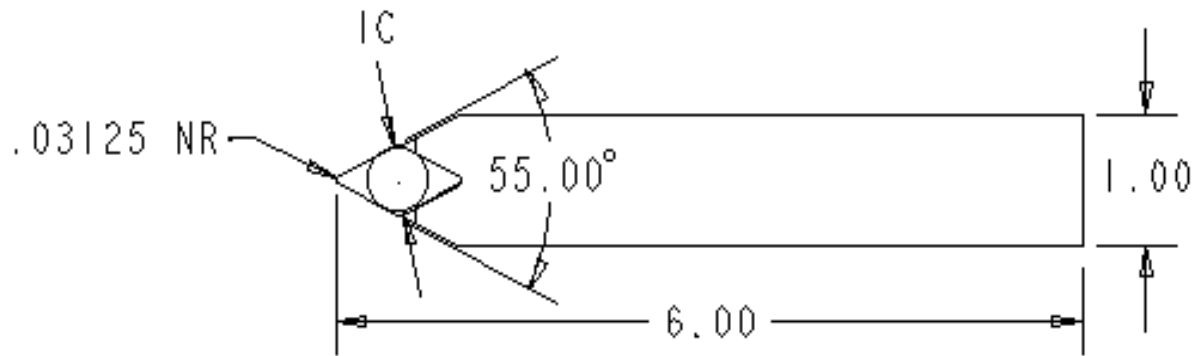
## TURNING TOOLS

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### 80 DEGREE DIAMOND INSERT TOOL

An 80 degree diamond insert tool with the following:

- .375 through .625 IC
- 1/32 inch nose radius



**Generic Part Name: CDPNN\_16**

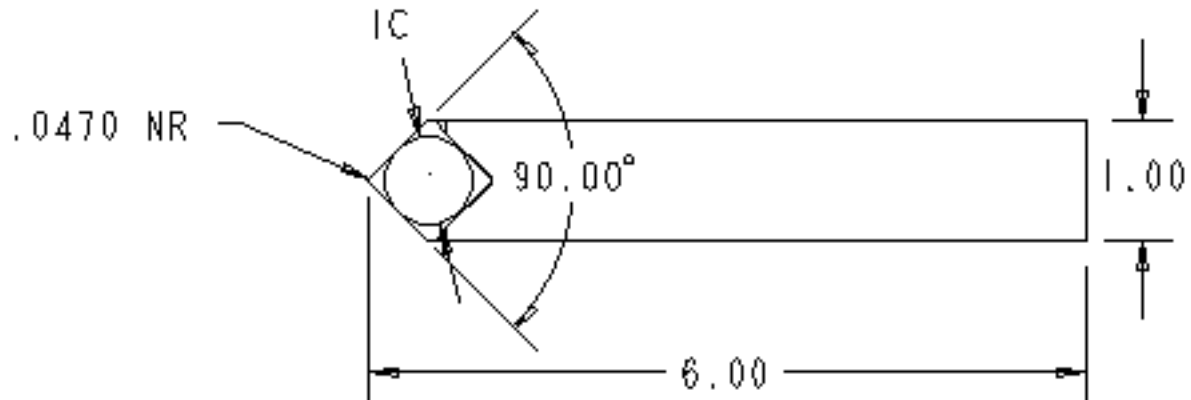
Instance Name	IC
CDPNN16_3DZ	0.3750
CDPNN16_4DZ	0.5000
CDPNN16_5DZ	0.6250

## TURNING TOOLS

### SQUARE INSERT TOOL

A square insert tool with the following:

- .5 through .75 IC
- 3/64 inch nose radius



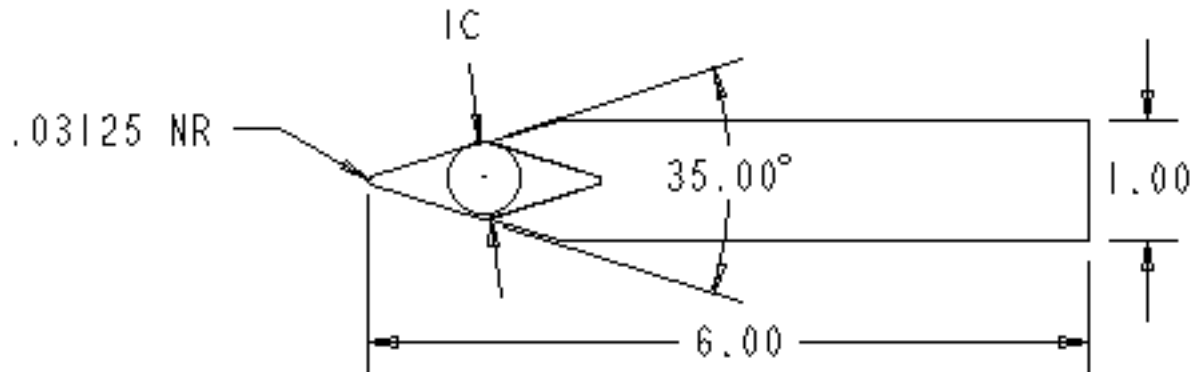
**Generic Part Name: CSDPN\_16**

Instance Name	IC
CSDPN16_4DZ	0.5000
CSDPN16_5DZ	0.6250
CSDPN16_6DZ	0.7500

### 35 DEGREE DIAMOND INSERT TOOL

A 35 degree diamond insert tool with the following:

- .375 through .625 IC
- 1/32 inch nose radius



**Generic Part Name: CVVNN\_16**

Instance Name	IC
CVVNN16_3DZ	0.3750
CVVNN16_4DZ	0.5000
CVVNN16_5DZ	0.6250

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## TURNING TOOLS

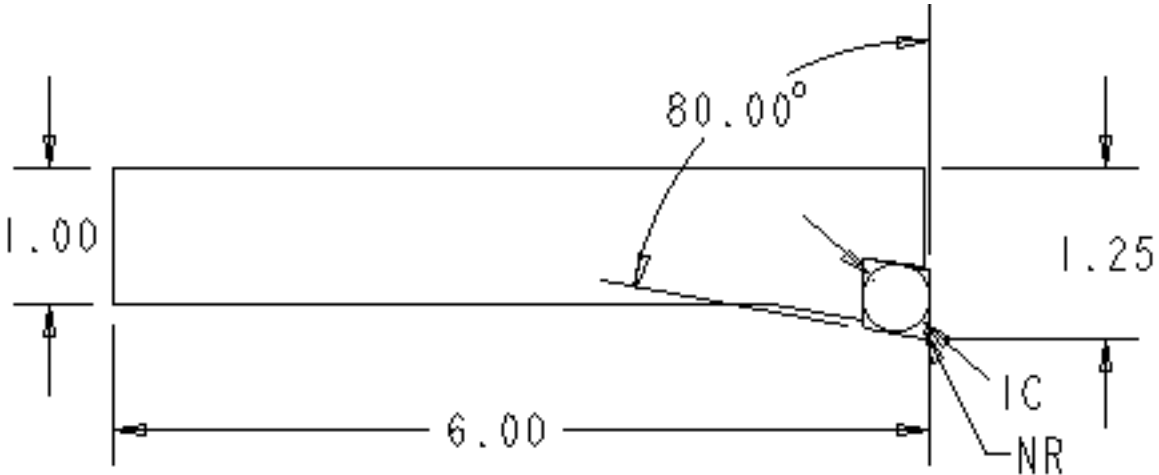
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### LEFT-HAND TOOLS

#### 80 DEGREE DIAMOND INSERT TOOL

An 80 degree diamond insert tool with the following:

- .5 through .75 IC
- 1/32 and 3/64 inch nose radius



**Generic Part Name: CCFNL\_16**

Instance Name	IC	Nose Radius	Shank Orient
CCFNL16_4DZ	0.500	0.03125	Z AXIS
CCFNL16_6DZ	0.750	0.04688	Z AXIS
CCFNL16_4DX	0.500	0.03125	X AXIS
CCFNL16_6DX	0.750	0.04688	X AXIS

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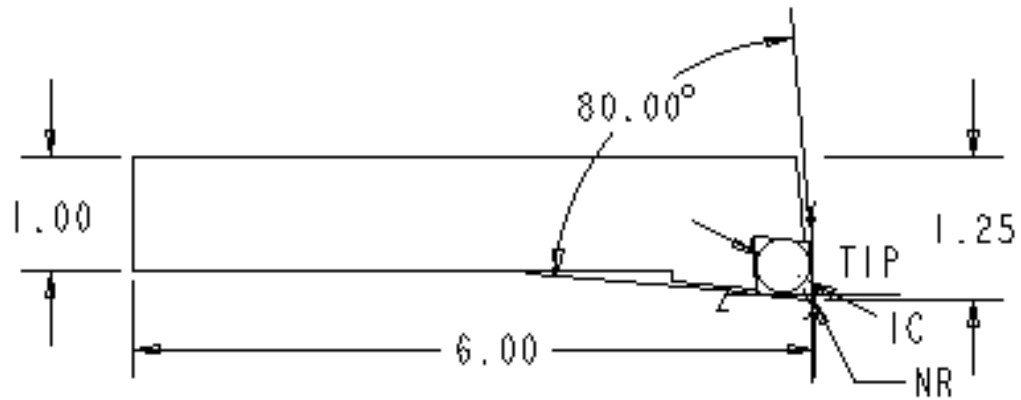
## TURNING TOOLS

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### 80 DEGREE DIAMOND INSERT TOOL

An 80 degree diamond insert tool with the following:

- .5 through .75 IC
- 1/32 and 3/64 inch nose radius



**Generic Part Name: CCLNL\_16**

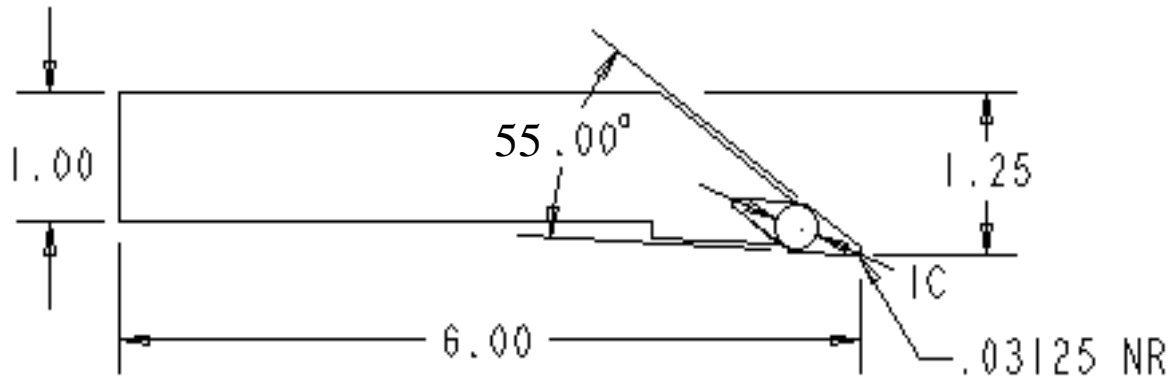
Instance Name	IC	Nose Radius	Shank Orient
CCLNL16_4DZ	0.500	0.03125	Z AXIS
CCLNL16_6DZ	0.750	0.04688	Z AXIS
CCLNL16_4DX	0.500	0.03125	X AXIS
CCLNL16_6DX	0.750	0.04688	X AXIS

## TURNING TOOLS

### 55 DEGREE DIAMOND INSERT TOOL

A 55 degree diamond insert tool with the following:

- .5 IC
- 1/32 inch nose radius



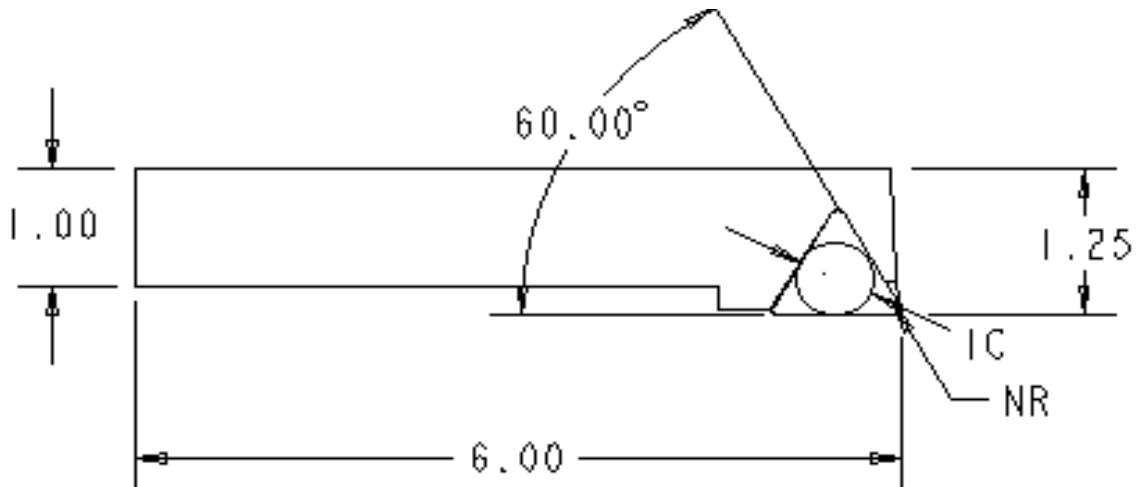
**Generic Part Name: CDJNL\_16**

Instance Name	Shank Orient
CDJNL16_4DZ	Z AXIS
CDJNL16_4DX	X AXIS

## TRIANGULAR INSERT TOOL

A triangular insert tool with the following:

- .375 through .625 IC
- 1/32 inch nose radius



**Generic Part Name: CTGPL\_16**

Instance Name	IC	Nose Radius	Shank Orient
CTGPL16_3DZ	0.3750	0.0312	Z AXIS
CTGPL16_4DZ	0.5000	0.0312	Z AXIS
CTGPL16_5DZ	0.6250	0.0470	Z AXIS
CTGPL16_3DX	0.3750	0.0312	X AXIS
CTGPL16_4DX	0.5000	0.0312	X AXIS
CTGPL16_5DX	0.6250	0.0470	X AXIS

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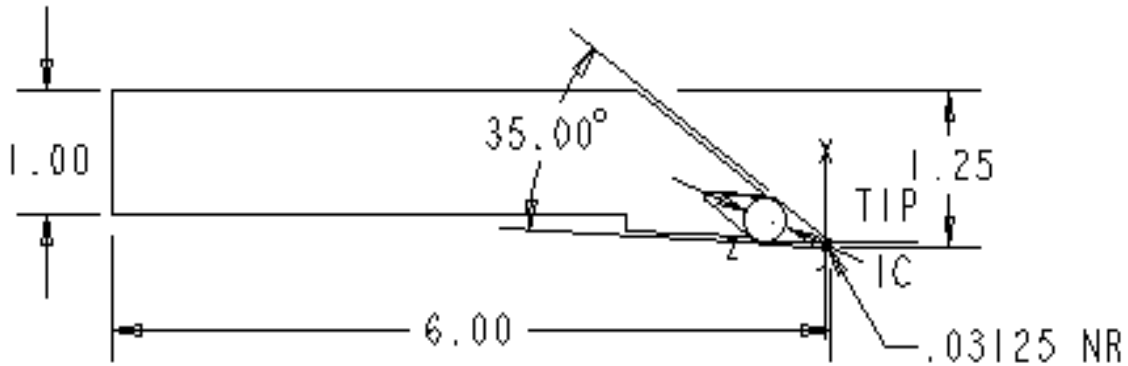
## TURNING TOOLS

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### 35 DEGREE DIAMOND INSERT TOOL

A 35 degree diamond insert tool with the following:

- .375 and .5 IC
- 1/32 inch nose radius



**Generic Part Name: CVJNL\_16**

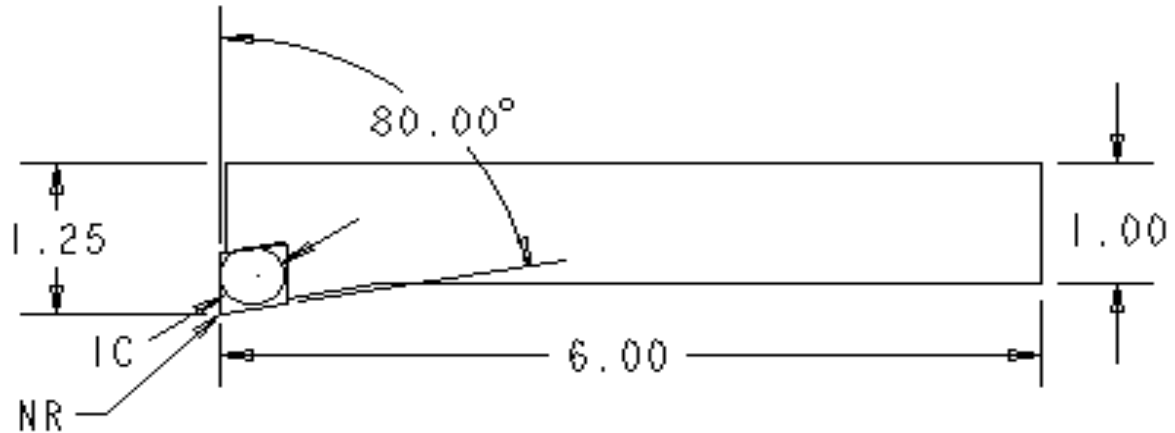
Instance Name	IC	Shank Orient
CVJNL16_3DZ	0.375	Z AXIS
CVJNL16_4DZ	0.500	Z AXIS
CVJNL16_3DX	0.375	X AXIS
CVJNL16_4DX	0.500	X AXIS

## RIGHT-HAND TOOLS

### 80 DEGREE DIAMOND INSERT TOOL

An 80 degree diamond insert tool with the following:

- .5 and .75 IC
- 1/32 and 3/64 inch nose radius



**Generic Part Name: CCFNR\_16**

Instance Name	IC	Nose Radius	Shank Orient
CCFNR16_4DZ	0.500	0.03125	Z AXIS
CCFNR16_6DZ	0.750	0.04687	Z AXIS
CCFNR16_4DX	0.500	0.03125	X AXIS
CCFNR16_6DX	0.750	0.04687	X AXIS

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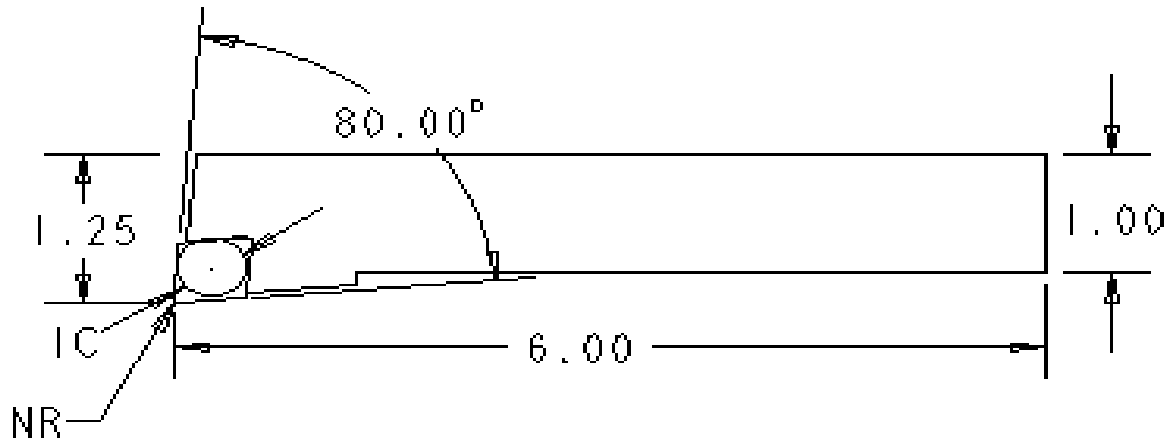
## TURNING TOOLS

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### 80 DEGREE DIAMOND INSERT TOOL

An 80 degree diamond insert tool with the following:

- .5 and .75 IC
- 1/32 and 3/64 inch nose radius



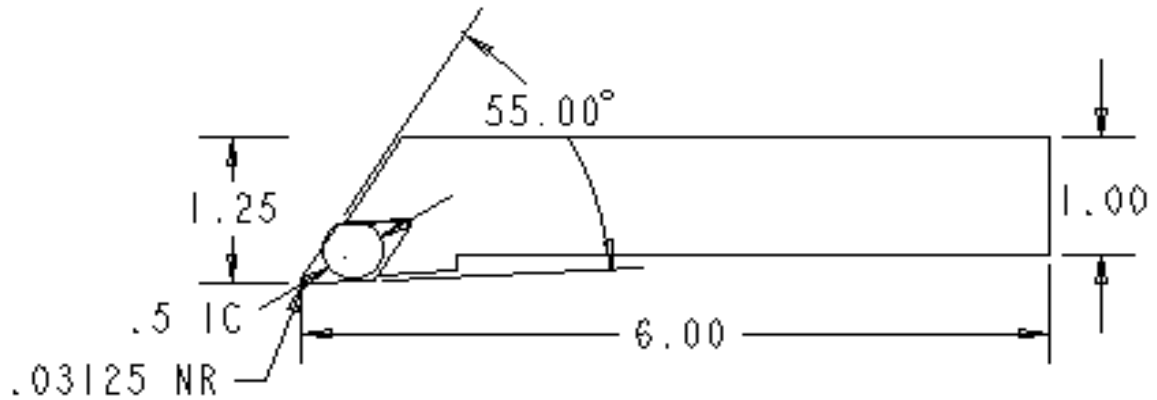
**Generic Part Name: CCLNR\_16**

Instance Name	IC	Nose Radius	Shank Orient
CCLNR16_4DZ	0.500	0.03125	Z AXIS
CCLNR16_6DZ	0.750	0.04687	Z AXIS
CCLNR16_4DX	0.500	0.03125	X AXIS
CCLNR16_6DX	0.750	0.04687	X AXIS

## 55 DEGREE DIAMOND INSERT TOOL

A 55 degree diamond insert tool with the following:

- .5 IC
- 1/32 inch nose radius



**Generic Part Name: CDJNR\_16**

Instance Name	Shank Orient
CDJNR16_4DZ	Z AXIS
CDJNR16_4DX	X AXIS

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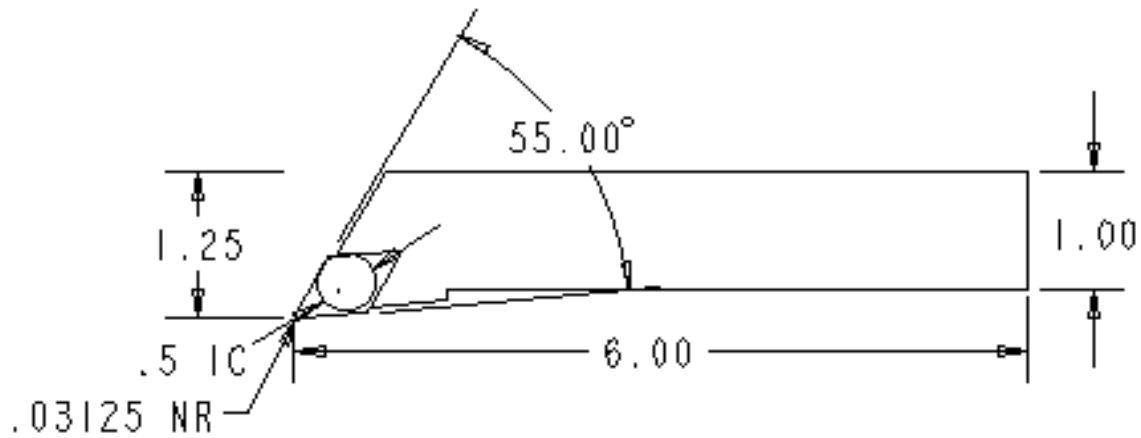
## TURNING TOOLS

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### 55 DEGREE DIAMOND INSERT TOOL

A 55 degree diamond insert tool with the following:

- .5 IC
- 1/32 inch nose radius



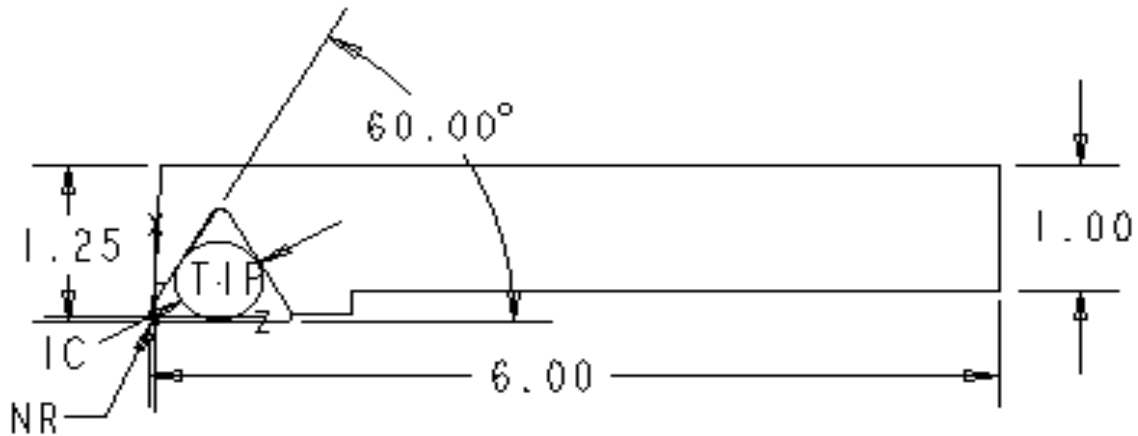
**Generic Part Name: CDLNR\_16**

Instance Name	Shank Orient
CDLNR16_4DZ	Z AXIS
CDLNR16_4DX	X AXIS

## TRIANGULAR INSERT TOOL

A triangular insert tool with the following:

- .375 through .625 IC
- 1/32 and 3/64 inch nose radius



**Generic Part Name: CTGPR\_16**

Instance Name	IC	Nose Radius	Shank Orient
CTGPR16_3DZ	0.3750	0.0310	Z AXIS
CTGPR16_4DZ	0.5000	0.0310	Z AXIS
CTGPR16_5DZ	0.6250	0.0470	Z AXIS
CTGPR16_3DX	0.3750	0.3100	X AXIS
CTGPR16_4DX	0.5000	0.3100	X AXIS
CTGPR16_5DX	0.6250	0.6250	X AXIS

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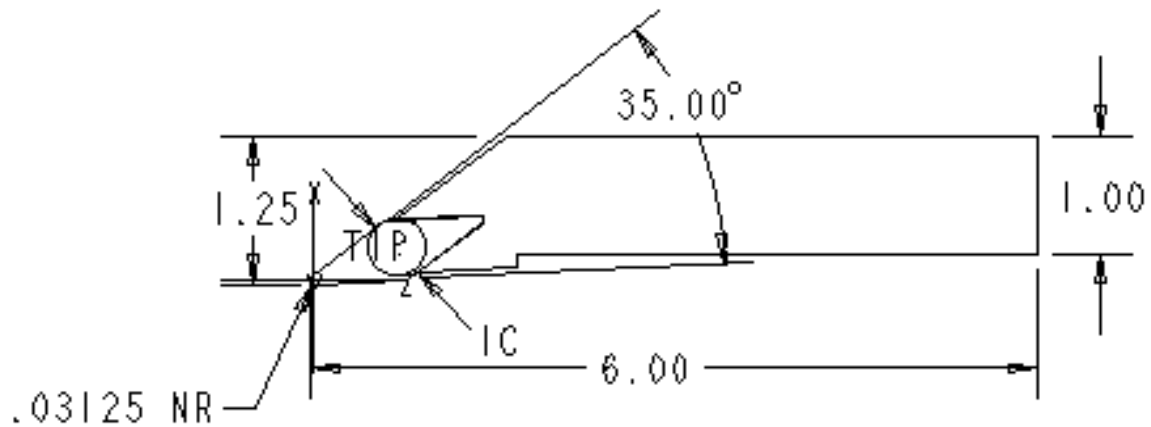
## TURNING TOOLS

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### 35 DEGREE DIAMOND INSERT TOOL

A 35 degree diamond insert tool with the following:

- .375 and .5 IC
- 1/32 inch nose radius

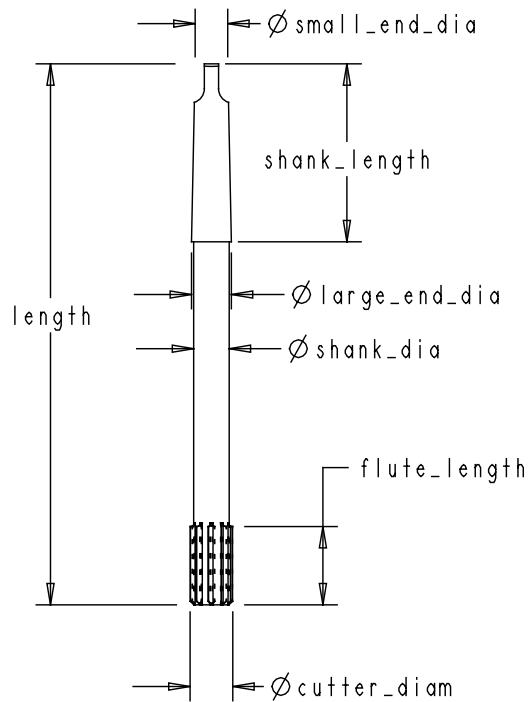


**Generic Part Name: CVJNR\_16**

Instance Name	IC	Shank Orient
CVJNR16_3DZ	0.375	Z AXIS
CVJNR16_4DZ	0.500	Z AXIS
CVJNR16_3DX	0.375	X AXIS
CVJNR16_4DX	0.500	X AXIS

# REAMERS

## EXPANSION CHUCKING REAMER—TAPERED SHANK



### Generic Part Name: RCHTS

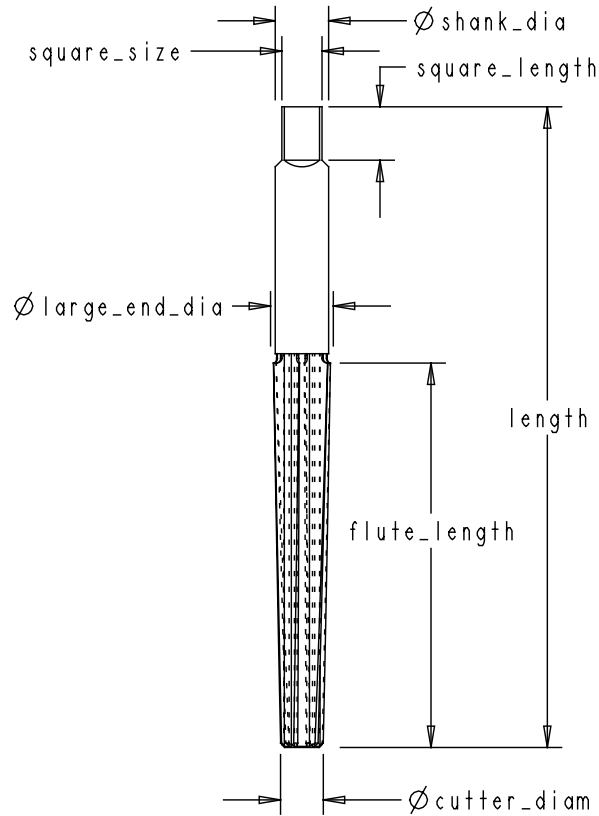
Instance Name	Reamer Diameter	cutter_dia	Morse Taper	length	flute_length	shank_dia
RCHTS01	3/8	0.37500	1.00000	7.0000	0.75000	0.31050
RCHTS02	13/32	0.40630	1.00000	7.0000	0.75000	0.31050
RCHTS03	7/16	0.43750	1.00000	7.0000	0.87500	0.37300
RCHTS04	15/32	0.46880	1.00000	7.0000	0.87500	0.37300
RCHTS05	1/2	0.50000	1.00000	8.0000	1.00000	0.43550
RCHTS06	17/32	0.53130	1.00000	8.0000	1.00000	0.43550
RCHTS07	9/16	0.56250	1.00000	8.0000	1.12500	0.43550
RCHTS08	19/32	0.59380	1.00000	8.0000	1.12500	0.43550
RCHTS09	5/8	0.62500	2.00000	9.0000	1.25000	0.56200
RCHTS10	21/32	0.65630	2.00000	9.0000	1.25000	0.56200
RCHTS11	11/16	0.68750	2.00000	9.0000	1.25000	0.56200
RCHTS12	23/32	0.71880	2.00000	9.0000	1.25000	0.56200

## REAMERS

Instance Name	Reamer Diameter	cutter_diam	Morse Taper	length	flute_length	shank_dia
RCHTS13	3/4	0.75000	2.00000	9.5000	1.37500	0.62450
RCHTS14	25/32	0.78130	2.00000	9.5000	1.37500	0.62450
RCHTS15	13/16	0.81250	2.00000	9.5000	1.37500	0.62450
RCHTS16	27/32	0.84380	2.00000	9.5000	1.37500	0.62450
RCHTS17	7/8	0.87500	2.00000	10.0000	1.50000	0.74950
RCHTS18	29/32	0.90630	2.00000	10.0000	1.50000	0.74950
RCHTS19	15/16	0.93750	3.00000	10.0000	1.50000	0.74950
RCHTS20	31/32	0.96880	3.00000	10.0000	1.50000	0.74950
RCHTS21	1	1.00000	3.00000	10.5000	1.62500	0.87450
RCHTS22	1-1/32	1.03130	3.00000	10.5000	1.62500	0.87450
RCHTS23	1-1/16	1.06250	3.00000	10.5000	1.62500	0.87450
RCHTS24	1-3/32	1.09380	3.00000	10.5000	1.62500	0.87450
RCHTS25	1-1/8	1.12500	3.00000	11.0000	1.75000	0.87450
RCHTS26	1-5/32	1.15630	3.00000	11.0000	1.75000	0.87450
RCHTS27	1-3/16	1.18750	3.00000	11.0000	1.75000	0.99950
RCHTS28	1-7/32	1.21880	3.00000	11.0000	1.75000	0.99950
RCHTS29	1-1/4	1.25000	4.00000	11.5000	1.87500	0.99950
RCHTS30	1-5/16	1.31250	4.00000	11.5000	1.87500	0.99950
RCHTS31	1-3/8	1.37500	4.00000	12.0000	2.00000	0.99950
RCHTS32	1-7/16	1.43750	4.00000	12.0000	2.00000	1.24950
RCHTS33	1-1/2	1.50000	4.00000	12.5000	2.12500	1.24950
RCHTS34	1-5/8	1.62500	4.00000	13.0000	2.25000	1.24950
RCHTS35	1-3/4	1.75000	5.00000	13.5000	2.37500	1.24950
RCHTS36	1-7/8	1.87500	5.00000	14.0000	2.50000	1.49950
RCHTS37	2	2.00000	5.00000	14.0000	2.50000	1.49950
RCHTS38	2-1/8	2.12500	5.00000	14.5000	2.75000	1.74950
RCHTS39	2-1/4	2.25000	5.00000	14.5000	2.75000	1.74950
RCHTS40	2-3/8	2.37500	5.00000	15.0000	3.00000	1.74950
RCHTS41	2-1/2	2.50000	5.00000	15.0000	3.00000	1.74950

## REAMERS

### MORSE TAPER FINISHING REAMER—SQUARED SHANK

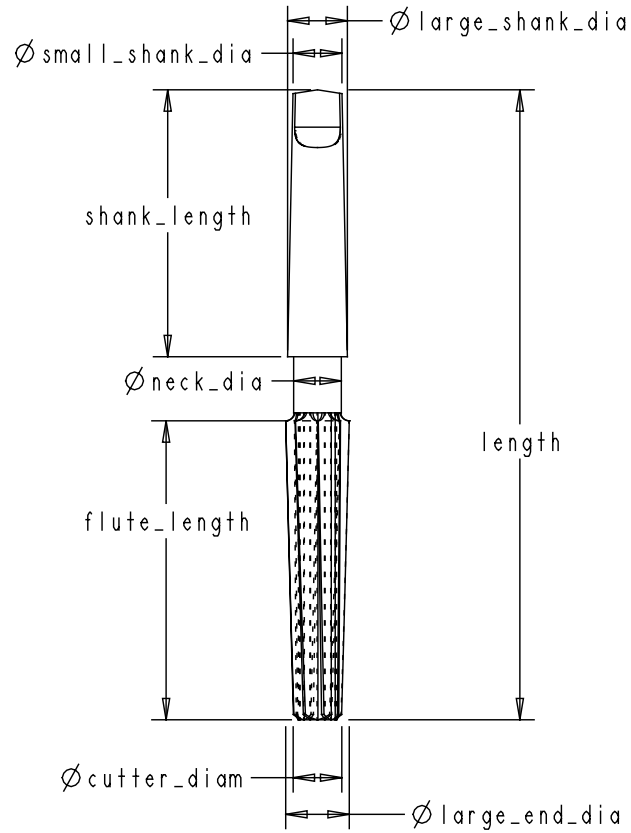


#### Generic Part Name: RMTFS

Instance Name	Taper No,	cutter_diam	large_end_diam	length	flute_length	shank_dia	square_length	square_size	flute_no.
RMTFS01	0	0.25030	0.36740	3.7500	2.2500	0.31250	0.31250	0.23500	6.0000
RMTFS02	1	0.36740	0.51700	5.0000	3.0000	0.43750	0.43750	0.33000	8.0000
RMTFS03	2	0.56960	0.74440	6.0000	3.5000	0.62500	0.62500	0.47000	8.0000
RMTFS04	3	0.77480	0.98810	7.2500	4.2500	0.87500	0.87500	0.65500	10.0000
RMTFS05	4	1.01670	1.28930	8.5000	5.2500	1.12500	1.00000	0.84500	10.0000
RMTFS06	5	1.47170	1.80050	9.7500	6.2500	1.50000	1.12500	1.12500	12.0000

## REAMERS

### MORSE TAPER FINISHING REAMER—TAPERED SHANK

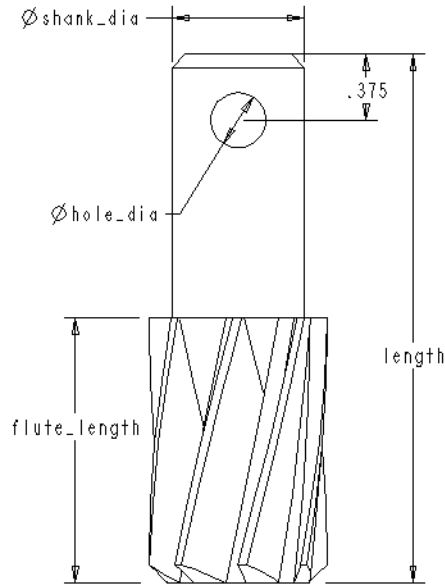


#### Generic Part Name: RMTFT

Instance Name	Taper No.	cutter_dia	large_end_dia	length	flute_length	Morse Taper	flute_number
RMTFT01	0	0.25030	0.36740	5.3438	2.25000	0.00000	6.0000
RMTFT02	1	0.36740	0.51700	6.3125	3.00000	1.00000	8.0000
RMTFT03	2	0.56960	0.74440	7.3750	3.50000	2.00000	8.0000
RMTFT04	3	0.77480	0.98810	8.8750	4.25000	3.00000	10.0000
RMTFT05	4	1.01670	1.28930	10.8750	5.25000	4.00000	10.0000
RMTFT06	5	1.47170	1.80050	13.1250	6.25000	5.00000	12.0000

## REAMERS

### STUB SCREW MACHINE REAMER—HELICAL FLUTE



#### Generic Part Name: RSMHF

Instance Name	Series No.	Reamer Diameter Range	cutter_diam	flute number	length	flute_length	shank_diam	hole_diam
RSMHF01	00	.060-.066	0.06600	4.00000	1.75000	0.50000	0.12500	0.06250
RSHMF02	0	.0661-.074	0.07400	4.00000	1.75000	0.50000	0.12500	0.06250
RSMHF03	1	.0741-.084	0.08400	4.00000	1.75000	0.50000	0.12500	0.06250
RSHMF04	2	.0841-.096	0.09600	4.00000	1.75000	0.50000	0.12500	0.06250
RSMHF05	3	.0961-.126	0.12600	4.00000	2.00000	0.75000	0.12500	0.06250
RSHMF06	4	.1261-.158	0.15800	4.00000	2.25000	1.00000	0.25000	0.09375
RSMHF07	5	.1581-.188	0.18800	4.00000	2.25000	1.00000	0.25000	0.09375
RSHMF08	6	.1881-.219	0.21900	6.00000	2.25000	1.00000	0.25000	0.09375
RSMHF09	7	.2191-.251	0.25100	6.00000	2.25000	1.00000	0.25000	0.09375
RSHMF10	8	.2511-.282	0.28200	6.00000	2.25000	1.00000	0.37500	0.12500
RSMHF11	9	.2821-.313	0.31300	6.00000	2.25000	1.00000	0.37500	0.12500
RSHMF12	10	.3131-.344	0.34400	6.00000	2.50000	1.25000	0.37500	0.12500
RSMHF13	11	.3441-.376	0.37600	6.00000	2.50000	1.25000	0.37500	0.12500
RSHMF14	12	.3761-.407	0.40700	6.00000	2.50000	1.25000	0.50000	0.18750

## REAMERS

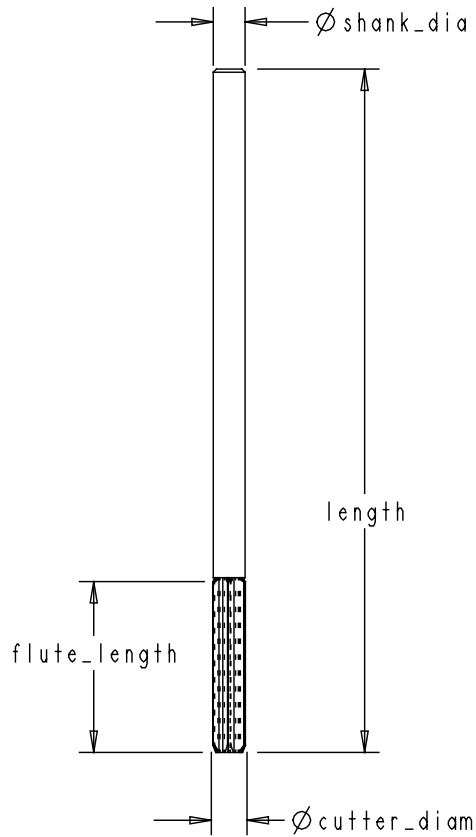
Instance Name	Series No.	Reamer Diameter Range	cutter_diam	flute number	length	flute_length	shank_diam	hole_diam
RSMHF15	13	.4071-.439	0.43900	6.00000	2.50000	1.25000	0.50000	0.18750
RSHMF16	14	.4391-.470	0.47000	6.00000	2.50000	1.25000	0.50000	0.18750
RSMHF17	15	.4701-.505	0.50500	6.00000	2.50000	1.25000	0.50000	0.18750
RSHMF18	16	.5051-.567	0.56700	6.00000	3.00000	1.50000	0.62500	2.50000
RSMHF19	17	.5671-.630	0.63000	6.00000	3.00000	1.50000	0.62500	2.50000
RSHMF20	18	.6301-.692	0.69200	6.00000	3.00000	1.50000	0.62500	2.50000
RSMHF21	19	.6921-.755	0.75500	8.00000	3.00000	1.50000	0.75000	0.31250
RSHMF22	20	.7551-.817	0.81700	8.00000	3.00000	1.50000	0.75000	0.31250
RSMHF23	21	.8171-.880	0.88000	8.00000	3.00000	1.50000	0.75000	0.31250
RSHMF24	22	.8801-.942	0.94200	8.00000	3.00000	1.50000	0.75000	0.31250
RSMHF25	23	.9421-1.010	1.01000	8.00000	3.00000	1.50000	0.75000	0.31250

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## REAMERS

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### STRAIGHT SHANK CHUCKING REAMER—STRAIGHT FLUTE, DECIMAL SIZES



#### Generic Part Name: RSSCD

Instance Name	cutter_diam	length	flute_length	shank_diam	flute_number
RSSCD01	0.12400	3.50000	0.87500	0.11900	6.00000
RSSCD02	0.12600	3.50000	0.87500	0.11900	6.00000
RSSCD03	0.18650	4.50000	1.12500	0.18050	6.00000
RSSCD04	0.18850	4.50000	1.12500	0.18050	6.00000
RSSCD05	0.24900	6.00000	1.50000	0.24050	6.00000
RSSCD06	0.25100	6.00000	1.50000	0.24050	6.00000
RSSCD07	0.31150	6.00000	1.50000	0.27920	6.00000
RSSCD08	0.31350	6.00000	1.50000	0.27920	6.00000
RSSCD09	0.37400	7.00000	1.75000	0.31050	8.00000
RSSCD10	0.37600	7.00000	1.75000	0.31050	8.00000

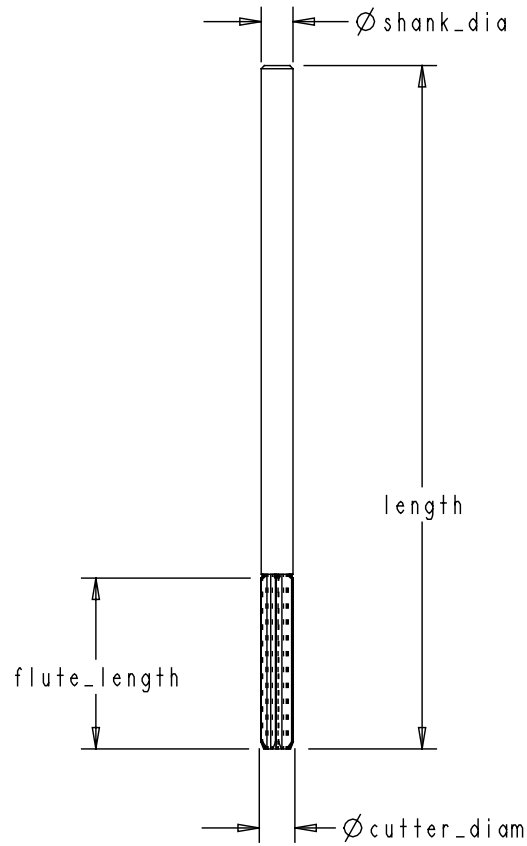
## REAMERS

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<b>Instance Name</b>	<b>cutter_ diam</b>	<b>length</b>	<b>flute_ length</b>	<b>shank_ diam</b>	<b>flute_ number</b>
RSSCD11	0.43650	7.00000	1.75000	0.37300	8.00000
RSSCD12	0.43850	7.00000	1.75000	0.37300	8.00000
RSSCD13	0.49900	8.00000	2.00000	0.43550	8.00000
RSSCD14	0.50100	8.00000	2.00000	0.43550	8.00000

## REAMERS

### STRAIGHT SHANK CHUCKING REAMER—STRAIGHT FLUTE, FRACTIONAL SIZES



#### Generic Part Name: RSSCF

Instance Name	Reamer Diameter	cutter_diam	length	flute_length	shank_diam	flute_number
RSSCF01	3/64	0.04688	2.5000	0.50000	0.04550	4.0000
RSSCF02	1/16	0.06250	2.5000	0.50000	0.05850	4.0000
RSSCF03	5/64	0.07812	3.0000	0.75000	0.07200	4.0000
RSSCF04	3/32	0.09375	3.0000	0.75000	0.08800	4.0000
RSSCF05	7/64	0.10938	3.5000	0.87500	0.10300	4.0000
RSSCF06	1/8	0.12500	3.5000	0.87500	0.11900	6.0000
RSSCF07	9/64	0.14062	4.0000	1.00000	0.13500	6.0000
RSSCF08	5/32	0.15625	4.0000	1.00000	0.15100	6.0000
RSSCF09	11/64	0.17188	4.5000	1.12500	0.16450	6.0000
RSSCF10	3/16	0.18750	4.5000	1.12500	0.18050	6.0000
RSSCF11	13/64	0.20312	5.0000	1.25000	0.19450	6.0000

## REAMERS

Instance Name	Reamer Diameter	cutter_diam	length	flute_length	shank_diam	flute_number
RSSCF12	7/32	0.21875	5.0000	1.25000	0.20750	6.0000
RSSCF13	15/64	0.23438	6.0000	1.50000	0.22650	6.0000
RSSCF14	1/4	0.25000	6.0000	1.50000	0.24050	6.0000
RSSCF15	17/64	0.26562	6.0000	1.50000	0.24850	6.0000
RSSCF16	9/32	0.28125	6.0000	1.50000	0.24850	6.0000
RSSCF17	19/64	0.29688	6.0000	1.50000	0.27920	6.0000
RSSCF18	5/16	0.31250	6.0000	1.50000	0.27920	6.0000
RSSCF19	21/64	0.32812	6.0000	1.50000	0.27920	6.0000
RSSCF20	11/32	0.34375	6.0000	1.50000	0.27920	6.0000
RSSCF21	23/64	0.35938	7.0000	1.75000	0.31050	6.0000
RSSCF22	3/8	0.37500	7.0000	1.75000	0.31050	6.0000
RSSCF23	25/64	0.39062	7.0000	1.75000	0.31050	6.0000
RSSCF24	13/32	0.40625	7.0000	1.75000	0.31050	6.0000
RSSCF25	27/64	0.42188	7.0000	1.75000	0.37300	8.0000
RSSCF26	7/16	0.43750	7.0000	1.75000	0.37300	8.0000
RSSCF27	29/64	0.45312	7.0000	1.75000	0.37300	8.0000
RSSCF28	15/32	0.46875	7.0000	1.75000	0.37300	8.0000
RSSCF29	31/64	0.48438	8.0000	2.00000	0.43550	8.0000
RSSCF30	1/2	0.50000	8.0000	2.00000	0.43550	8.0000
RSSCF31	17/32	0.53125	8.0000	2.00000	0.43550	8.0000
RSSCF32	9/16	0.56250	8.0000	2.00000	0.43550	8.0000
RSSCF33	19/32	0.59375	8.0000	2.00000	0.43550	8.0000
RSSCF34	5/8	0.62500	9.0000	2.25000	0.56200	8.0000
RSSCF35	21/32	0.65625	9.0000	2.25000	0.56200	8.0000
RSSCF36	11/16	0.68750	9.0000	2.25000	0.56200	8.0000
RSSCF37	23/32	0.71875	9.0000	2.25000	0.56200	8.0000
RSSCF38	3/4	0.75000	9.5000	2.50000	0.62450	8.0000
RSSCF39	25/32	0.78125	9.5000	2.50000	0.62450	10.0000
RSSCF40	13/16	0.81250	9.5000	2.50000	0.62450	10.0000
RSSCF41	27/32	0.84375	9.5000	2.50000	0.62450	10.0000

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## REAMERS

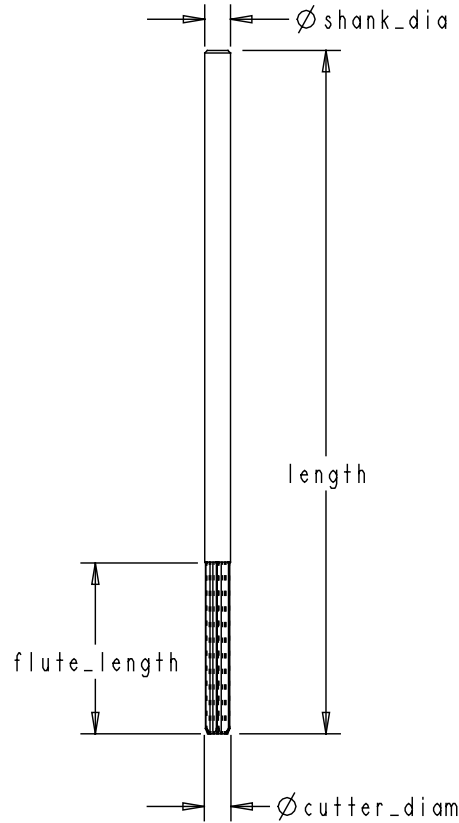
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Instance Name	Reamer Diameter	cutter_diam	length	flute_length	shank_diam	flute_number
RSSCF42	7/8	0.87500	10.0000	2.62500	0.74950	10.0000
RSSCF43	29/32	0.90625	10.0000	2.62500	0.74950	10.0000
RSSCF44	15/16	0.93750	10.0000	2.62500	0.74950	10.0000
RSSCF45	31/32	0.96875	10.0000	2.62500	0.74950	10.0000
RSSCF46	1	1.00000	10.5000	2.75000	0.87450	10.0000
RSSCF47	1-1/16	1.06250	10.5000	2.75000	0.87450	12.0000
RSSCF48	1-1/8	1.12500	11.0000	2.87500	0.87450	12.0000
RSSCF49	1-3/16	1.18750	11.0000	2.87500	0.99950	12.0000
RSSCF50	1-1/4	1.25000	11.5000	3.00000	0.99950	12.0000
RSSCF51	1-5/16	1.31250	11.5000	3.00000	0.99950	12.0000
RSSCF52	1-3/8	1.37500	12.0000	3.25000	0.99950	12.0000
RSSCF53	1-7/16	1.43750	12.0000	3.25000	1.24950	12.0000
RSSCF54	1-1/2	1.50000	12.5000	3.50000	1.24950	12.0000

## REAMERS

### STRAIGHT SHANK CHUCKING REAMER—STRAIGHT FLUTE, LETTER DESIGNATED SIZES



### Generic Part Name: RSSCL

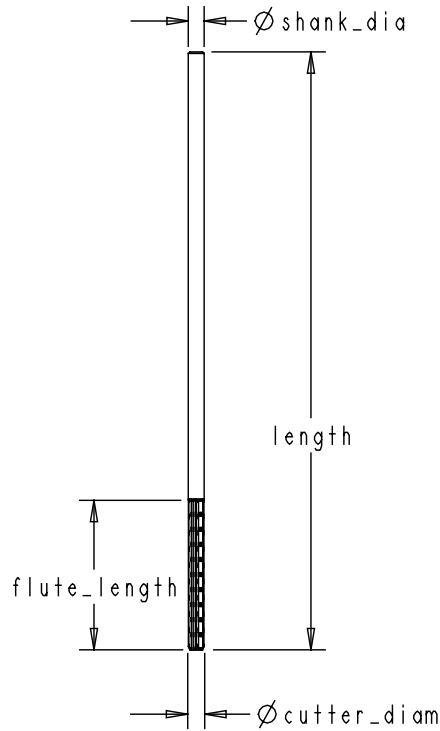
Instance Name	Reamer Diameter Letter Designation	cutter_dia	length	flute_length	shank_dia	flute_number
RSSCL01	A	0.23400	6.00000	1.50000	0.22650	6.00000
RSSCL02	B	0.23800	6.00000	1.50000	0.23290	6.00000
RSSCL03	C	0.24200	6.00000	1.50000	0.23290	6.00000
RSSCL04	D	0.24600	6.00000	1.50000	0.23290	6.00000
RSSCL05	E	0.25000	6.00000	1.50000	0.24050	6.00000
RSSCL06	F	0.25700	6.00000	1.50000	0.24850	6.00000
RSSCL07	G	0.26100	6.00000	1.50000	0.24850	6.00000
RSSCL08	H	0.26600	6.00000	1.50000	0.24850	6.00000
RSSCL09	I	0.27200	6.00000	1.50000	0.24850	6.00000
RSSCL10	J	0.27700	6.00000	1.50000	0.24850	6.00000

## REAMERS

<b>Instance Name</b>	<b>Reamer Diameter Letter Designation</b>	<b>cutter_diam</b>	<b>length</b>	<b>flute_length</b>	<b>shank_dia</b>	<b>flute_number</b>
RSSCL11	K	0.28100	6.00000	1.50000	0.24850	6.00000
RSSCL12	L	0.29000	6.00000	1.50000	0.27920	6.00000
RSSCL13	M	0.29500	6.00000	1.50000	0.27920	6.00000
RSSCL14	N	0.30200	6.00000	1.50000	0.27920	6.00000
RSSCL15	O	0.31600	6.00000	1.50000	0.27920	6.00000
RSSCL16	P	0.32300	6.00000	1.50000	0.27920	6.00000
RSSCL17	Q	0.33200	6.00000	1.50000	0.27920	6.00000
RSSCL18	R	0.33900	6.00000	1.50000	0.27920	6.00000
RSSCL19	S	0.34800	7.00000	1.75000	0.31050	6.00000
RSSCL20	T	0.35800	7.00000	1.75000	0.31050	6.00000
RSSCL21	U	0.36800	7.00000	1.75000	0.31050	6.00000
RSSCL22	V	0.37700	7.00000	1.75000	0.31050	6.00000
RSSCL23	W	0.38600	7.00000	1.75000	0.31050	6.00000
RSSCL24	X	0.39700	7.00000	1.75000	0.31050	6.00000
RSSCL25	Y	0.40400	7.00000	1.75000	0.31050	6.00000
RSSCL26	Z	0.41300	7.00000	1.75000	0.37300	8.00000

## REAMERS

### STRAIGHT SHANK CHUCKING REAMER—STRAIGHT FLUTE, WIRE GAUGE SIZES



#### Generic Part Name: RSSCW

Instance Name	Wire Gauge	cutter_diam	length	flute_length	shank_diam	flute_number
RSSCW01	60.0000	0.04000	2.50000	0.50000	0.03900	4.00000
RSSCW02	59.0000	0.04100	2.50000	0.50000	0.03900	4.00000
RSSCW03	58.0000	0.04200	2.50000	0.50000	0.03900	4.00000
RSSCW04	57.0000	0.04300	2.50000	0.50000	0.03900	4.00000
RSSCW05	56.0000	0.04650	2.50000	0.50000	0.04550	4.00000
RSSCW06	55.0000	0.05200	2.50000	0.50000	0.05100	4.00000
RSSCW07	54.0000	0.05500	2.50000	0.50000	0.05100	4.00000
RSSCW08	53.0000	0.05950	2.50000	0.50000	0.05850	4.00000
RSSCW09	52.0000	0.06350	2.50000	0.50000	0.05850	4.00000
RSSCW10	51.0000	0.06700	3.00000	0.75000	0.06600	4.00000
RSSCW11	50.0000	0.07000	3.00000	0.75000	0.06600	4.00000
RSSCW12	49.0000	0.07300	3.00000	0.75000	0.06600	4.00000
RSSCW13	48.0000	0.07600	3.00000	0.75000	0.07200	4.00000

## REAMERS

Instance Name	Wire Gauge	cutter_diam	length	flute_length	shank_diam	flute_number
RSSCW14	47.0000	0.07850	3.00000	0.75000	0.07200	4.00000
RSSCW15	46.0000	0.08100	3.00000	0.75000	0.07710	4.00000
RSSCW16	45.0000	0.08200	3.00000	0.75000	0.07710	4.00000
RSSCW17	44.0000	0.08600	3.00000	0.75000	0.08100	4.00000
RSSCW18	43.0000	0.08900	3.00000	0.75000	0.08100	4.00000
RSSCW19	42.0000	0.09350	3.00000	0.75000	0.08800	4.00000
RSSCW20	41.0000	0.09600	3.50000	0.87500	0.09280	6.00000
RSSCW21	40.0000	0.09800	3.50000	0.87500	0.09280	6.00000
RSSCW22	39.0000	0.09950	3.50000	0.87500	0.09280	6.00000
RSSCW23	38.0000	0.10150	3.50000	0.87500	0.09500	6.00000
RSSCW24	37.0000	0.10400	3.50000	0.87500	0.09500	6.00000
RSSCW25	36.0000	0.10650	3.50000	0.87500	0.10300	6.00000
RSSCW26	35.0000	0.11000	3.50000	0.87500	0.10300	6.00000
RSSCW27	34.0000	0.11100	3.50000	0.87500	0.10550	6.00000
RSSCW28	33.0000	0.11300	3.50000	0.87500	0.10550	6.00000
RSSCW29	32.0000	0.11600	3.50000	0.87500	0.11200	6.00000
RSSCW30	31.0000	0.12000	3.50000	0.87500	0.11200	6.00000
RSSCW31	30.0000	0.12850	3.50000	0.87500	0.11900	6.00000
RSSCW32	29.0000	0.13600	4.00000	1.00000	0.12750	6.00000
RSSCW33	28.0000	0.14050	4.00000	1.00000	0.13500	6.00000
RSSCW34	27.0000	0.14400	4.00000	1.00000	0.13500	6.00000
RSSCW35	26.0000	0.14700	4.00000	1.00000	0.14300	6.00000
RSSCW36	25.0000	0.14950	4.00000	1.00000	0.14300	6.00000
RSSCW37	24.0000	0.15200	4.00000	1.00000	0.14600	6.00000
RSSCW38	23.0000	0.15400	4.00000	1.00000	0.14600	6.00000
RSSCW39	22.0000	0.15700	4.00000	1.00000	0.15100	6.00000
RSSCW40	21.0000	0.15900	4.50000	1.12500	0.15300	6.00000
RSSCW41	20.0000	0.16100	4.50000	1.12500	0.15300	6.00000
RSSCW42	19.0000	0.16600	4.50000	1.12500	0.15950	6.00000
RSSCW43	18.0000	0.16950	4.50000	1.12500	0.15950	6.00000

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## REAMERS

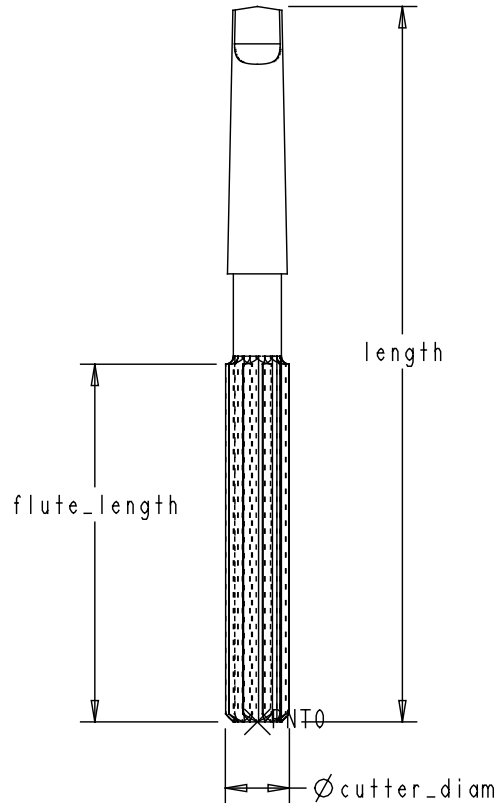
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Instance Name	Wire Gauge	cutter_diam	length	flute_length	shank_diam	flute_number
RSSCW44	17.0000	0.17300	4.50000	1.12500	0.16450	6.00000
RSSCW45	16.0000	0.17700	4.50000	1.12500	0.17040	6.00000
RSSCW46	15.0000	0.18000	4.50000	1.12500	0.17550	6.00000
RSSCW47	14.0000	0.18200	4.50000	1.12500	0.17550	6.00000
RSSCW48	13.0000	0.18500	4.50000	1.12500	0.18050	6.00000
RSSCW49	12.0000	0.18900	4.50000	1.12500	0.18050	6.00000
RSSCW50	11.0000	0.19100	5.00000	1.25000	0.18600	6.00000
RSSCW51	10.0000	0.19350	5.00000	1.25000	0.18600	6.00000
RSSCW52	9.0000	0.19600	5.00000	1.25000	0.18950	6.00000
RSSCW53	8.0000	0.19900	5.00000	1.25000	0.18950	6.00000
RSSCW54	7.0000	0.20100	5.00000	1.25000	0.19450	6.00000
RSSCW55	6.0000	0.20400	5.00000	1.25000	0.19450	6.00000
RSSCW56	5.0000	0.20550	5.00000	1.25000	0.20160	6.00000
RSSCW57	4.0000	0.20900	5.00000	1.25000	0.20160	6.00000
RSSCW58	3.0000	0.21300	5.00000	1.25000	0.20750	6.00000
RSSCW59	2.0000	0.22100	6.00000	1.50000	0.21730	6.00000
RSSCW60	1.0000	0.22800	6.00000	1.50000	0.21730	6.00000

## REAMERS

### STRAIGHT SHANK CHUCKING REAMER—STRAIGHT FLUTE, WIRE GAUGE SIZES



#### Generic Part Name: RTJSF

Instance Name	Reamer Diameter	cutter_diam	Morse Taper	length	flute_length	flute_number
RTJSF01	1/4	0.25000	1.00000	5.1875	2.00000	8.0000
RTJSF02	5/16	0.31250	1.00000	5.5000	2.25000	8.0000
RTJSF03	3/8	0.37500	1.00000	5.8125	2.50000	8.0000
RTJSF04	7/16	0.43750	1.00000	6.1250	2.75000	8.0000
RTJSF05	1/2	0.50000	1.00000	6.4375	3.00000	8.0000
RTJSF06	9/16	0.56250	1.00000	6.7500	3.25000	8.0000
RTJSF07	5/8	0.62500	2.00000	7.5625	3.50000	8.0000
RTJSF08	11/16	0.68750	2.00000	8.0000	3.87500	10.0000
RTJSF09	3/4	0.75000	2.00000	8.3750	4.18750	10.0000
RTJSF10	13/16	0.81250	2.00000	8.8125	4.56250	10.0000
RTJSF11	7/8	0.87500	2.00000	9.1875	4.87500	10.0000

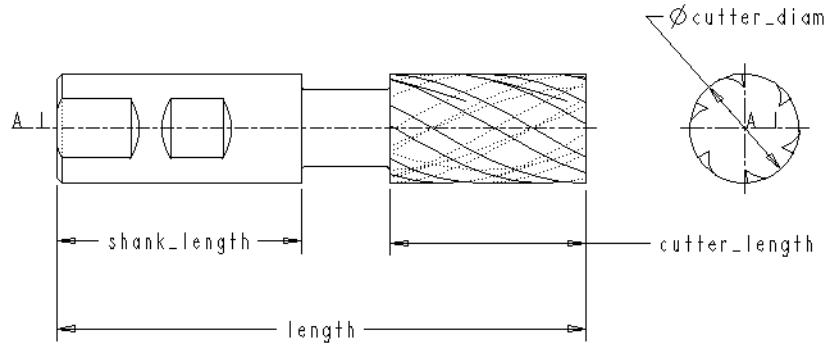
## REAMERS

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Instance Name	Reamer Diameter	cutter_diam	Morse Taper	length	flute_length	flute_number
RTJSF12	15/16	0.93750	3.00000	10.0000	5.12500	10.0000
RTJSF13	1	1.00000	3.00000	10.3750	5.43750	10.0000
RTJSF14	1-1/16	1.06250	3.00000	10.6250	5.62500	10.0000
RTJSF15	1-1/8	1.12500	3.00000	10.8750	5.81250	10.0000
RTJSF16	1-3/16	1.18750	3.00000	11.1250	6.00000	12.0000
RTJSF17	1-1/4	1.25000	4.00000	12.5625	6.12500	12.0000
RTJSF18	1-3/8	1.37500	4.00000	12.8125	6.31250	12.0000
RTJSF19	1-1/2	1.50000	4.00000	13.1250	6.50000	12.0000

# ISO MILLS

## FLAT END MILLS, PARALLEL SHANKS, STANDARD AND LONG SERIES



### Generic Part Name: IMCPS

#### Notes:

1. Corresponds to standard ISO 1641/ I-1978.
2. When a range of lengths is indicated, the range is expressed as “from to incremented by.”

Instance Name	cutter_diam	cutter_length	length	shank_length
IMCPS01	2.0000	4.000	36.000	28.0000
IMCPS02	2.5000	5.000	37.000	28.0000
IMCPS03	3.0000	5.000	37.000	28.0000
IMCPS04	3.5000	6.000	38.000	28.0000
IMCPS05	4.0000	7.000	39.000	28.0000
IMCPS06	5.0000	8.000	42.000	28.0000
IMCPS07	6.0000	8.000	52.000	36.0000
IMCPS08	7.0000	10.000	54.000	36.0000
IMCPS09	8.0000	11.000	55.000	36.0000
IMCPS10	9.0000	11.000	61.000	40.0000
IMCPS11	10.0000	13.000	63.000	40.0000
IMCPS12	11.0000	13.000	70.000	45.0000
IMCPS13	12.0000	16.000	73.000	45.0000
IMCPS14	14.0000	16.000	73.000	45.0000
IMCPS15	16.0000	19.000	79.000	48.0000

## ISO MILLS

Instance Name	cutter_diam	cutter_length	length	shank_length
IMCPS16	18.0000	19.000	79.000	48.0000
IMCPS17	20.0000	22.000	88.000	50.0000
IMCPS18	22.0000	22.000	88.000	50.0000
IMCPS19	25.0000	26.000	102.000	56.0000
IMCPS20	28.0000	26.000	102.000	56.0000
IMCPS21	32.0000	32.000	112.000	60.0000
IMCPS22	36.0000	32.000	112.000	60.0000
IMCPS23	40.0000	38.000	130.000	70.0000
IMCPS24	45.0000	38.000	130.000	70.0000
IMCPS25	50.0000	45.000	147.000	80.0000
IMCPS26	56.0000	45.000	147.000	80.0000
IMCPS27	63.0000	53.000	155.000	80.0000
IMCPS28	71.0000	53.000	165.000	90.0000
IMCPS29	2.0000	7.000	39.000	28.0000
IMCPS30	2.5000	8.000	40.000	28.0000
IMCPS31	3.0000	8.000	40.000	28.0000
IMCPS32	3.5000	10.000	42.000	28.0000
IMCPS33	4.0000	11.000	43.000	28.0000
IMCPS34	5.0000	13.000	47.000	28.0000
IMCPS35	6.0000	13.000	57.000	36.0000
IMCPS36	7.0000	16.000	60.000	36.0000
IMCPS37	8.0000	19.000	63.000	36.0000
IMCPS38	9.0000	19.000	69.000	40.0000
IMCPS39	10.0000	22.000	72.000	40.0000
IMCPS40	11.0000	22.000	79.000	45.0000
IMCPS41	12.0000	26.000	83.000	45.0000
IMCPS42	14.0000	26.000	83.000	45.0000
IMCPS43	16.0000	32.000	92.000	48.0000
IMCPS44	18.0000	32.000	92.000	48.0000
IMCPS45	20.0000	38.000	104.000	50.0000

## ISO MILLS

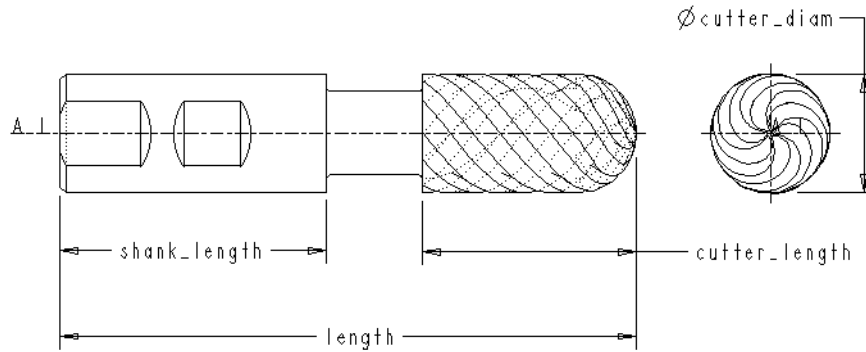
Instance Name	cutter_diam	cutter_length	length	shank_length
IMCPS46	22.0000	38.000	104.000	50.0000
IMCPS47	25.0000	45.000	121.000	56.0000
IMCPS48	28.0000	45.000	121.000	56.0000
IMCPS49	32.0000	53.000	133.000	60.0000
IMCPS50	36.0000	53.000	133.000	60.0000
IMCPS51	40.0000	63.000	155.000	70.0000
IMCPS52	45.0000	63.000	155.000	70.0000
IMCPS53	50.0000	75.000	177.000	80.0000
IMCPS54	56.0000	75.000	177.000	80.0000
IMCPS55	63.0000	90.000	192.000	80.0000
IMCPS56	71.0000	90.000	202.000	90.0000
IMCPS57	2.0000	10.000	42.000	28.0000
IMCPS58	2.5000	12.000	44.000	28.0000
IMCPS59	3.0000	12.000	44.000	28.0000
IMCPS60	3.5000	15.000	47.000	28.0000
IMCPS61	4.0000	19.000	51.000	28.0000
IMCPS62	5.0000	24.000	58.000	28.0000
IMCPS63	6.0000	24.000	68.000	36.0000
IMCPS64	7.0000	30.000	74.000	36.0000
IMCPS65	8.0000	38.000	82.000	36.0000
IMCPS66	9.0000	38.000	88.000	40.0000
IMCPS67	10.0000	45.000	95.000	40.0000
IMCPS68	11.0000	45.000	102.000	45.0000
IMCPS69	12.0000	53.000	110.000	45.0000
IMCPS70	14.0000	53.000	110.000	45.0000
IMCPS71	16.0000	63.000	123.000	48.0000
IMCPS72	18.0000	63.000	123.000	48.0000
IMCPS73	20.0000	75.000	141.000	50.0000
IMCPS74	22.0000	75.000	141.000	50.0000
IMCPS75	25.0000	90.000	166.000	56.0000

## ISO MILLS

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<b>Instance Name</b>	<b>cutter_diam</b>	<b>cutter_length</b>	<b>length</b>	<b>shank_length</b>
IMCPS76	28.0000	90.000	166.000	56.0000
IMCPS77	32.0000	106.000	186.000	60.0000
IMCPS78	36.0000	106.000	186.000	60.0000
IMCPS79	40.0000	125.000	217.000	70.0000
IMCPS80	45.0000	125.000	217.000	70.0000
IMCPS81	50.0000	150.000	252.000	80.0000
IMCPS82	56.0000	150.000	252.000	80.0000
IMCPS83	63.0000	180.000	282.000	80.0000
IMCPS84	71.0000	180.000	292.000	90.0000

## BALL END MILLS, PARALLEL SHANKS, STANDARD AND LONG SERIES



### Generic Part Name: IMBPS

#### Notes:

1. Corresponds to standard ISO 1641/I-1978.
2. When a range of lengths is indicated, the range is expressed as “from to incremented by.”

Instance Name	cutter_diam	length	cutter_length	shank_length
IMBPS01	2.0000	36.000	4.000	28.0000
IMBPS02	2.5000	37.000	5.000	28.0000
IMBPS03	3.0000	37.000	5.000	28.0000
IMBPS04	3.5000	38.000	6.000	28.0000
IMBPS05	4.0000	39.000	7.000	28.0000
IMBPS06	5.0000	42.000	8.000	28.0000
IMBPS07	6.0000	52.000	8.000	36.0000
IMBPS08	7.0000	54.000	10.000	36.0000
IMBPS09	8.0000	55.000	11.000	36.0000
IMBPS10	9.0000	61.000	11.000	40.0000
IMBPS11	10.0000	63.000	13.000	40.0000
IMBPS12	11.0000	70.000	13.000	45.0000
IMBPS13	12.0000	73.000	16.000	45.0000
IMBPS14	14.0000	73.000	16.000	45.0000
IMBPS15	16.0000	79.000	19.000	48.0000
IMBPS16	18.0000	79.000	19.000	48.0000

## ISO MILLS

Instance Name	cutter_diam	length	cutter_length	shank_length
IMBPS17	20.0000	88.000	22.000	50.0000
IMBPS18	22.0000	88.000	22.000	50.0000
IMBPS19	25.0000	102.000	26.000	56.0000
IMBPS20	28.0000	102.000	26.000	56.0000
IMBPS21	32.0000	112.000	32.000	60.0000
IMBPS22	36.0000	112.000	32.000	60.0000
IMBPS23	40.0000	130.000	38.000	70.0000
IMBPS24	45.0000	130.000	38.000	70.0000
IMBPS25	50.0000	147.000	45.000	80.0000
IMBPS26	56.0000	147.000	45.000	80.0000
IMBPS27	63.0000	155.000	53.000	80.0000
IMBPS28	71.0000	165.000	53.000	90.0000
IMBPS29	2.0000	39.000	7.000	28.0000
IMBPS30	2.5000	40.000	8.000	28.0000
IMBPS31	3.0000	40.000	8.000	28.0000
IMBPS32	3.5000	42.000	10.000	28.0000
IMBPS33	4.0000	43.000	11.000	28.0000
IMBPS34	5.0000	47.000	13.000	28.0000
IMBPS35	6.0000	57.000	13.000	36.0000
IMBPS36	7.0000	60.000	16.000	36.0000
IMBPS37	8.0000	63.000	19.000	36.0000
IMBPS38	9.0000	69.000	19.000	40.0000
IMBPS39	10.0000	72.000	22.000	40.0000
IMBPS40	11.0000	79.000	22.000	45.0000
IMBPS41	12.0000	83.000	26.000	45.0000
IMBPS42	14.0000	83.000	26.000	45.0000
IMBPS43	16.0000	92.000	32.000	48.0000
IMBPS44	18.0000	92.000	32.000	48.0000
IMBPS45	20.0000	104.000	38.000	50.0000
IMBPS46	22.0000	104.000	38.000	50.0000

## ISO MILLS

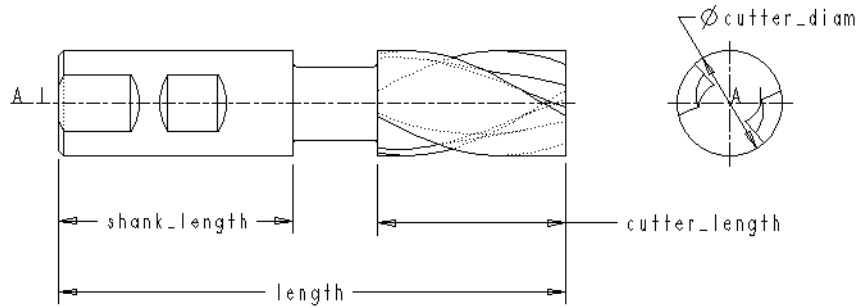
Instance Name	cutter_diam	length	cutter_length	shank_length
IMBPS47	25.0000	121.000	45.000	56.0000
IMBPS48	28.0000	121.000	45.000	56.0000
IMBPS49	32.0000	133.000	53.000	60.0000
IMBPS50	36.0000	133.000	53.000	60.0000
IMBPS51	40.0000	155.000	63.000	70.0000
IMBPS52	45.0000	155.000	63.000	70.0000
IMBPS53	50.0000	177.000	75.000	80.0000
IMBPS54	56.0000	177.000	75.000	80.0000
IMBPS55	63.0000	192.000	90.000	80.0000
IMBPS56	71.0000	202.000	90.000	90.0000
IMBPS57	2.0000	42.000	10.000	28.0000
IMBPS58	2.5000	44.000	12.000	28.0000
IMBPS59	3.0000	44.000	12.000	28.0000
IMBPS60	3.5000	47.000	15.000	28.0000
IMBPS61	4.0000	51.000	19.000	28.0000
IMBPS62	5.0000	58.000	24.000	28.0000
IMBPS63	6.0000	68.000	24.000	36.0000
IMBPS64	7.0000	74.000	30.000	36.0000
IMBPS65	8.0000	82.000	38.000	36.0000
IMBPS66	9.0000	88.000	38.000	40.0000
IMBPS67	10.0000	95.000	45.000	40.0000
IMBPS68	11.0000	102.000	45.000	45.0000
IMBPS69	12.0000	110.000	53.000	45.0000
IMBPS70	14.0000	110.000	53.000	45.0000
IMBPS71	16.0000	123.000	63.000	48.0000
IMBPS72	18.0000	123.000	63.000	48.0000
IMBPS73	20.0000	141.000	75.000	50.0000
IMBPS74	22.0000	141.000	75.000	50.0000
IMBPS75	25.0000	166.000	90.000	56.0000
IMBPS76	28.0000	166.000	90.000	56.0000

## ISO MILLS

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<b>Instance Name</b>	<b>cutter_diam</b>	<b>length</b>	<b>cutter_length</b>	<b>shank_length</b>
IMBPS77	32.0000	186.000	106.000	60.0000
IMBPS78	36.0000	186.000	106.000	60.0000
IMBPS79	40.0000	217.000	125.000	70.0000
IMBPS80	45.0000	217.000	125.000	70.0000
IMBPS81	50.0000	252.000	150.000	80.0000
IMBPS82	56.0000	252.000	150.000	80.0000
IMBPS83	63.0000	282.000	180.000	80.0000
IMBPS84	71.0000	292.000	180.000	90.0000

## SLOT DRILLS, PARALLEL SHANKS, STANDARD AND SHORT SERIES



### Generic Part Name: IMSDP

#### Notes:

1. Corresponds to standard ISO 1641/I-1978.
2. When a range of lengths is indicated, the range is expressed as “from to incremented by.”

Instance Name	cutter_diam	cutter_length	length	shank_length
IMSDP01	2.0000	4.000	36.000	28.0000
IMSDP02	2.5000	5.000	37.000	28.0000
IMSDP03	3.0000	5.000	37.000	28.0000
IMSDP04	3.5000	6.000	38.000	28.0000
IMSDP05	4.0000	7.000	39.000	28.0000
IMSDP06	5.0000	8.000	42.000	28.0000
IMSDP07	6.0000	8.000	52.000	36.0000
IMSDP08	7.0000	10.000	54.000	36.0000
IMSDP09	8.0000	11.000	55.000	36.0000
IMSDP10	9.0000	11.000	61.000	40.0000
IMSDP11	10.0000	13.000	63.000	40.0000
IMSDP12	11.0000	13.000	70.000	45.0000
IMSDP13	12.0000	16.000	73.000	45.0000
IMSDP14	14.0000	16.000	73.000	45.0000
IMSDP15	16.0000	19.000	79.000	48.0000
IMSDP16	18.0000	19.000	79.000	48.0000

## ISO MILLS

Instance Name	cutter_diam	cutter_length	length	shank_length
IMSDP17	20.0000	22.000	88.000	50.0000
IMSDP18	22.0000	22.000	88.000	50.0000
IMSDP19	25.0000	26.000	102.000	56.0000
IMSDP20	28.0000	26.000	102.000	56.0000
IMSDP21	32.0000	32.000	112.000	60.0000
IMSDP22	36.0000	32.000	112.000	60.0000
IMSDP23	40.0000	38.000	130.000	70.0000
IMSDP24	45.0000	38.000	130.000	70.0000
IMSDP25	50.0000	45.000	147.000	80.0000
IMSDP26	56.0000	45.000	147.000	80.0000
IMSDP27	63.0000	53.000	155.000	80.0000
IMSDP28	71.0000	53.000	165.000	90.0000
IMSDP29	2.0000	7.000	39.000	28.0000
IMSDP30	2.5000	8.000	40.000	28.0000
IMSDP31	3.0000	8.000	40.000	28.0000
IMSDP32	3.5000	10.000	42.000	28.0000
IMSDP33	4.0000	11.000	43.000	28.0000
IMSDP34	5.0000	13.000	47.000	28.0000
IMSDP35	6.0000	13.000	57.000	36.0000
IMSDP36	7.0000	16.000	60.000	36.0000
IMSDP37	8.0000	19.000	63.000	36.0000
IMSDP38	9.0000	19.000	69.000	40.0000
IMSDP39	10.0000	22.000	72.000	40.0000
IMSDP40	11.0000	22.000	79.000	45.0000
IMSDP41	12.0000	26.000	83.000	45.0000
IMSDP42	14.0000	26.000	83.000	45.0000
IMSDP43	16.0000	32.000	92.000	48.0000
IMSDP44	18.0000	32.000	92.000	48.0000
IMSDP45	20.0000	38.000	104.000	50.0000
IMSDP46	22.0000	38.000	104.000	50.0000

## ISO MILLS

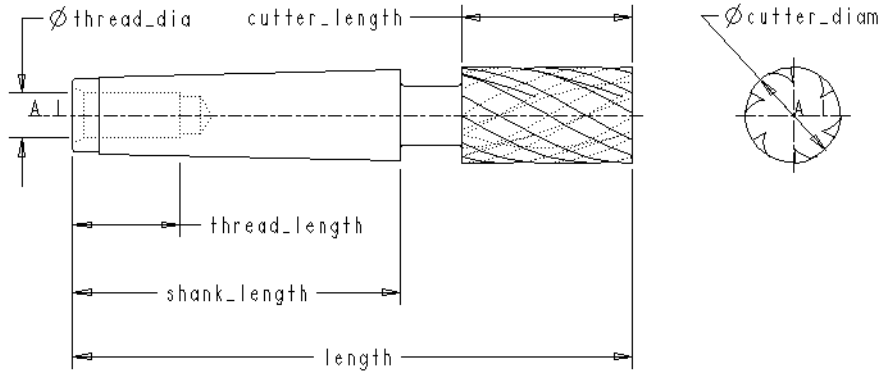
Instance Name	cutter_diam	cutter_length	length	shank_length
IMSDP47	25.0000	45.000	121.000	56.0000
IMSDP48	28.0000	45.000	121.000	56.0000
IMSDP49	32.0000	53.000	133.000	60.0000
IMSDP50	36.0000	53.000	133.000	60.0000
IMSDP51	40.0000	63.000	155.000	70.0000
IMSDP52	45.0000	63.000	155.000	70.0000
IMSDP53	50.0000	75.000	177.000	80.0000
IMSDP54	56.0000	75.000	177.000	80.0000
IMSDP55	63.0000	90.000	192.000	80.0000
IMSDP56	71.0000	90.000	202.000	90.0000
IMSDP57	2.0000	10.000	42.000	28.0000
IMSDP58	2.5000	12.000	44.000	28.0000
IMSDP59	3.0000	12.000	44.000	28.0000
IMSDP60	3.5000	15.000	47.000	28.0000
IMSDP61	4.0000	19.000	51.000	28.0000
IMSDP62	5.0000	24.000	58.000	28.0000
IMSDP63	6.0000	24.000	68.000	36.0000
IMSDP64	7.0000	30.000	74.000	36.0000
IMSDP65	8.0000	38.000	82.000	36.0000
IMSDP66	9.0000	38.000	88.000	40.0000
IMSDP67	10.0000	45.000	95.000	40.0000
IMSDP68	11.0000	45.000	102.000	45.0000
IMSDP69	12.0000	53.000	110.000	45.0000
IMSDP70	14.0000	53.000	110.000	45.0000
IMSDP71	16.0000	63.000	123.000	48.0000
IMSDP72	18.0000	63.000	123.000	48.0000
IMSDP73	20.0000	75.000	141.000	50.0000
IMSDP74	22.0000	75.000	141.000	50.0000
IMSDP75	25.0000	90.000	166.000	56.0000
IMSDP76	28.0000	90.000	166.000	56.0000

## ISO MILLS

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<b>Instance Name</b>	<b>cutter_diam</b>	<b>cutter_length</b>	<b>length</b>	<b>shank_length</b>
IMSDP77	32.0000	106.000	186.000	60.0000
IMSDP78	36.0000	106.000	186.000	60.0000
IMSDP79	40.0000	125.000	217.000	70.0000
IMSDP80	45.0000	125.000	217.000	70.0000
IMSDP81	50.0000	150.000	252.000	80.0000
IMSDP82	56.0000	150.000	252.000	80.0000
IMSDP83	63.0000	180.000	282.000	80.0000
IMSDP84	71.0000	180.000	292.000	90.0000

## FLAT END MILLS, MORSE TAPER SHANKS, STANDARD AND LONG SERIES



### Generic Part Name: IMCMS

#### Notes:

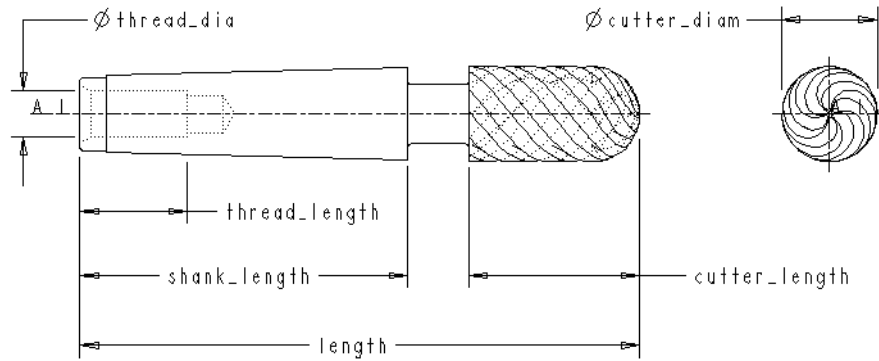
1. Corresponds to standard ISO 1641/II-1978.
2. When a range of lengths is indicated, the range is expressed as "from to incremented by."

Instance Name	cutter_diam	cutter_length	length	shank_length	thread_dia	thread_length
IMCMS01	6.0000	13.000	83.000	57.000	6.0000	16.0000
IMCMS02	7.0000	16.000	86.000	57.000	6.0000	16.0000
IMCMS03	8.0000	19.000	89.000	57.000	6.0000	16.0000
IMCMS04	9.0000	19.000	89.000	57.000	6.0000	16.0000
IMCMS05	10.0000	22.000	92.000	57.000	6.0000	16.0000
IMCMS06	11.0000	22.000	92.000	57.000	6.0000	16.0000
IMCMS07	12.0000	26.000	96.000	57.000	6.0000	16.0000
IMCMS08	14.0000	26.000	96.000	57.000	6.0000	16.0000
IMCMS09	16.0000	32.000	117.000	69.000	10.0000	24.0000
IMCMS10	18.0000	32.000	117.000	69.000	10.0000	24.0000
IMCMS11	20.0000	38.000	123.000	69.000	10.0000	24.0000
IMCMS12	22.0000	38.000	123.000	69.000	10.0000	24.0000
IMCMS13	25.0000	45.000	147.000	86.000	12.0000	28.0000
IMCMS14	28.0000	45.000	147.000	86.000	12.0000	28.0000
IMCMS15	32.0000	53.000	155.000	86.000	12.0000	28.0000

## ISO MILLS

Instance Name	cutter_diam	cutter_length	length	shank_length	thread_dia	thread_length
IMCMS16	36.0000	53.000	155.000	86.000	12.0000	28.0000
IMCMS17	40.0000	63.000	188.000	109.000	16.0000	32.0000
IMCMS18	45.0000	63.000	188.000	109.000	16.0000	32.0000
IMCMS19	50.0000	75.000	200.000	109.000	16.0000	32.0000
IMCMS20	56.0000	75.000	200.000	109.000	16.0000	32.0000
IMCMS21	63.0000	90.000	248.000	136.000	20.0000	40.0000
IMCMS22	6.0000	24.000	94.000	57.000	6.0000	16.0000
IMCMS23	7.0000	30.000	100.000	57.000	6.0000	16.0000
IMCMS24	8.0000	38.000	108.000	57.000	6.0000	16.0000
IMCMS25	9.0000	38.000	108.000	57.000	6.0000	16.0000
IMCMS26	10.0000	45.000	115.000	57.000	6.0000	16.0000
IMCMS27	11.0000	45.000	115.000	57.000	6.0000	16.0000
IMCMS28	12.0000	53.000	123.000	57.000	6.0000	16.0000
IMCMS29	14.0000	53.000	123.000	57.000	6.0000	16.0000
IMCMS30	16.0000	63.000	148.000	69.000	10.0000	24.0000
IMCMS31	18.0000	63.000	148.000	69.000	10.0000	24.0000
IMCMS32	20.0000	75.000	160.000	69.000	10.0000	24.0000
IMCMS33	22.0000	75.000	160.000	69.000	10.0000	24.0000
IMCMS34	25.0000	90.000	192.000	86.000	12.0000	28.0000
IMCMS35	28.0000	90.000	192.000	86.000	12.0000	28.0000
IMCMS36	32.0000	106.000	208.000	86.000	12.0000	28.0000
IMCMS37	36.0000	106.000	208.000	86.000	12.0000	28.0000
IMCMS38	40.0000	125.000	250.000	109.000	16.0000	32.0000
IMCMS39	45.0000	125.000	250.000	109.000	16.0000	32.0000
IMCMS40	50.0000	150.000	275.000	109.000	16.0000	32.0000
IMCMS41	56.0000	150.000	275.000	109.000	16.0000	32.0000
IMCMS42	63.0000	180.000	338.000	136.000	20.0000	40.0000

## BALL END MILLS, MORSE TAPER SHANKS, STANDARD AND LONG SERIES



### Generic Part Name: IMBMS

#### Notes:

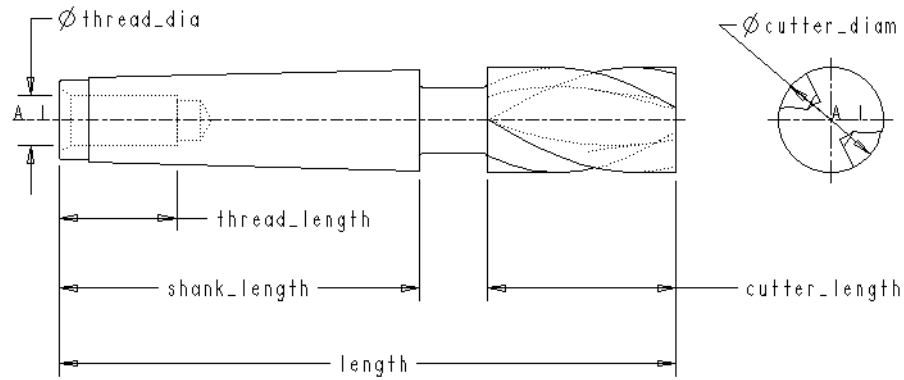
1. Corresponds to standard ISO 1641/II-1978.
2. When a range of lengths is indicated, the range is expressed as "from to incremented by."

Instance Name	cutter_diam	cutter_length	length	shank_length	thread_dia	thread_length
IMBMS01	6.0000	13.000	83.000	57.000	6.0000	16.0000
IMBMS02	7.0000	16.000	86.000	57.000	6.0000	16.0000
IMBMS03	8.0000	19.000	89.000	57.000	6.0000	16.0000
IMBMS04	9.0000	19.000	89.000	57.000	6.0000	16.0000
IMBMS05	10.0000	22.000	92.000	57.000	6.0000	16.0000
IMBMS06	11.0000	22.000	92.000	57.000	6.0000	16.0000
IMBMS07	12.0000	26.000	96.000	57.000	6.0000	16.0000
IMBMS08	14.0000	26.000	96.000	57.000	6.0000	16.0000
IMBMS09	16.0000	32.000	117.000	69.000	10.0000	24.0000
IMBMS10	18.0000	32.000	117.000	69.000	10.0000	24.0000
IMBMS11	20.0000	38.000	123.000	69.000	10.0000	24.0000
IMBMS12	22.0000	38.000	123.000	69.000	10.0000	24.0000
IMBMS13	25.0000	45.000	147.000	86.000	12.0000	28.0000
IMBMS14	28.0000	45.000	147.000	86.000	12.0000	28.0000
IMBMS15	32.0000	53.000	155.000	86.000	12.0000	28.0000

## ISO MILLS

Instance Name	cutter_diam	cutter_length	length	shank_length	thread_dia	thread_length
IMBMS16	36.0000	53.000	155.000	86.000	12.0000	28.0000
IMBMS17	40.0000	63.000	188.000	109.000	16.0000	32.0000
IMBMS18	45.0000	63.000	188.000	109.000	16.0000	32.0000
IMBMS19	50.0000	75.000	200.000	109.000	16.0000	32.0000
IMBMS20	56.0000	75.000	200.000	109.000	16.0000	32.0000
IMBMS21	63.0000	90.000	248.000	136.000	20.0000	40.0000
IMBMS22	6.0000	24.000	94.000	57.000	6.0000	16.0000
IMBMS23	7.0000	30.000	100.000	57.000	6.0000	16.0000
IMBMS24	8.0000	38.000	108.000	57.000	6.0000	16.0000
IMBMS25	9.0000	38.000	108.000	57.000	6.0000	16.0000
IMBMS26	10.0000	45.000	115.000	57.000	6.0000	16.0000
IMBMS27	11.0000	45.000	115.000	57.000	6.0000	16.0000
IMBMS28	12.0000	53.000	123.000	57.000	6.0000	16.0000
IMBMS29	14.0000	53.000	123.000	57.000	6.0000	16.0000
IMBMS30	16.0000	63.000	148.000	69.000	10.0000	24.0000
IMBMS31	18.0000	63.000	148.000	69.000	10.0000	24.0000
IMBMS32	20.0000	75.000	160.000	69.000	10.0000	24.0000
IMBMS33	22.0000	75.000	160.000	69.000	10.0000	24.0000
IMBMS34	25.0000	90.000	192.000	86.000	12.0000	28.0000
IMBMS35	28.0000	90.000	192.000	86.000	12.0000	28.0000
IMBMS36	32.0000	106.000	208.000	86.000	12.0000	28.0000
IMBMS37	36.0000	106.000	208.000	86.000	12.0000	28.0000
IMBMS38	40.0000	125.000	250.000	109.000	16.0000	32.0000
IMBMS39	45.0000	125.000	250.000	109.000	16.0000	32.0000
IMBMS40	50.0000	150.000	275.000	109.000	16.0000	32.0000
IMBMS41	56.0000	150.000	275.000	109.000	16.0000	32.0000
IMBMS42	63.0000	180.000	338.000	136.000	20.0000	40.0000

## SLOT DRILLS, MORSE TAPER SHANKS, STANDARD AND SHORT SERIES



### Generic Part Name: IMSDM

#### Notes:

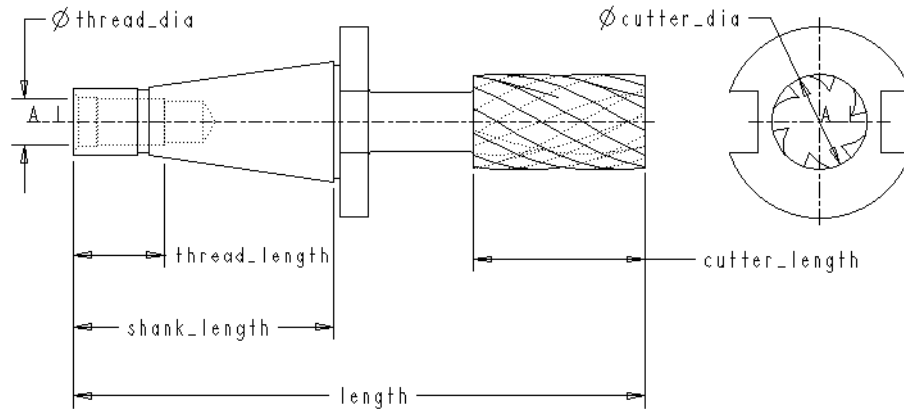
1. Corresponds to standard ISO 1641/II-1978.
2. When a range of lengths is indicated, the range is expressed as “from to incremented by.”

Instance Name	cutter_diam	cutter_length	length	shank_length	thread_dia	thread_length
IMSDM01	6.0000	13.0000	83.000	57.000	6.0000	16.0000
IMSDM02	7.0000	16.0000	86.000	57.000	6.0000	16.0000
IMSDM03	8.0000	19.0000	89.000	57.000	6.0000	16.0000
IMSDM04	9.0000	19.0000	89.000	57.000	6.0000	16.0000
IMSDM05	10.0000	22.0000	92.000	57.000	6.0000	16.0000
IMSDM06	11.0000	22.0000	92.000	57.000	6.0000	16.0000
IMSDM07	12.0000	26.0000	96.000	57.000	6.0000	16.0000
IMSDM08	14.0000	26.0000	96.000	57.000	6.0000	16.0000
IMSDM09	16.0000	32.0000	117.000	69.000	10.0000	24.0000
IMSDM10	18.0000	32.0000	117.000	69.000	10.0000	24.0000
IMSDM11	20.0000	38.0000	123.000	69.000	10.0000	24.0000
IMSDM12	22.0000	38.0000	123.000	69.000	10.0000	24.0000
IMSDM13	25.0000	45.0000	147.000	86.000	12.0000	28.0000
IMSDM14	28.0000	45.0000	147.000	86.000	12.0000	28.0000
IMSDM15	32.0000	53.0000	155.000	86.000	12.0000	28.0000

## ISO MILLS

Instance Name	cutter_diam	cutter_length	length	shank_length	thread_dia	thread_length
IMSDM16	36.0000	53.0000	155.000	86.000	12.0000	28.0000
IMSDM17	40.0000	63.0000	188.000	109.000	16.0000	32.0000
IMSDM18	45.0000	63.0000	188.000	109.000	16.0000	32.0000
IMSDM19	50.0000	75.0000	200.000	109.000	16.0000	32.0000
IMSDM20	56.0000	75.0000	200.000	109.000	16.0000	32.0000
IMSDM21	63.0000	90.0000	248.000	136.000	20.0000	40.0000
IMSDM22	6.0000	8.0000	78.000	57.000	6.0000	16.0000
IMSDM23	7.0000	10.0000	80.000	57.000	6.0000	16.0000
IMSDM24	8.0000	11.0000	81.000	57.000	6.0000	16.0000
IMSDM25	9.0000	11.0000	81.000	57.000	6.0000	16.0000
IMSDM26	10.0000	13.0000	83.000	57.000	6.0000	16.0000
IMSDM27	11.0000	13.0000	83.000	57.000	6.0000	16.0000
IMSDM28	12.0000	16.0000	86.000	57.000	6.0000	16.0000
IMSDM29	14.0000	16.0000	86.000	57.000	6.0000	16.0000
IMSDM30	16.0000	19.0000	104.000	69.000	10.0000	24.0000
IMSDM31	18.0000	19.0000	104.000	69.000	10.0000	24.0000
IMSDM32	20.0000	22.0000	107.000	69.000	10.0000	24.0000
IMSDM33	22.0000	22.0000	107.000	69.000	10.0000	24.0000
IMSDM34	25.0000	26.0000	128.000	86.000	12.0000	28.0000
IMSDM35	28.0000	26.0000	128.000	86.000	12.0000	28.0000
IMSDM36	32.0000	32.0000	134.000	86.000	12.0000	28.0000
IMSDM37	36.0000	32.0000	134.000	86.000	12.0000	28.0000
IMSDM38	40.0000	38.0000	163.000	109.000	16.0000	32.0000
IMSDM39	45.0000	38.0000	163.000	109.000	16.0000	32.0000
IMSDM40	50.0000	45.0000	170.000	109.000	16.0000	32.0000
IMSDM41	56.0000	45.0000	170.000	109.000	16.0000	32.0000
IMSDM42	63.0000	53.0000	211.000	136.000	20.0000	40.0000

## FLAT END MILLS, 7/24 TAPER SHANKS, STANDARD AND LONG SERIES



### Generic Part Name: IMCMT

#### Notes:

1. Corresponds to standard ISO 1641-III-1978.
2. When a range of lengths is indicated, the range is expressed as "from to incremented by."

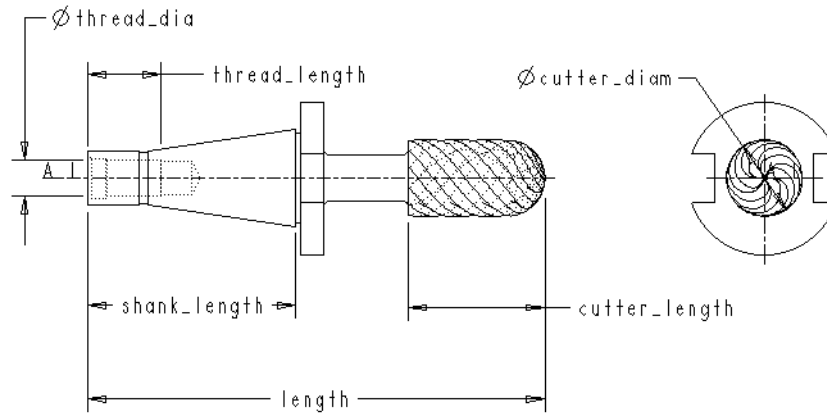
Instance Name	cutter_dia	cutter_length	length	shank_length	thread_dia	thread_length
IMCMT01	25.0000	45.000	150.000	68.400	12.0000	24.0000
IMCMT02	28.0000	45.000	150.000	68.400	12.0000	24.0000
IMCMT03	32.0000	53.000	158.000	68.400	12.0000	24.0000
IMCMT04	36.0000	53.000	158.000	68.400	12.0000	24.0000
IMCMT05	40.0000	63.000	198.000	93.400	16.0000	32.0000
IMCMT06	45.0000	63.000	198.000	93.400	16.0000	32.0000
IMCMT07	50.0000	75.000	210.000	93.400	16.0000	32.0000
IMCMT08	56.0000	75.000	210.000	93.400	16.0000	32.0000
IMCMT09	63.0000	90.000	245.000	106.800	20.0000	40.0000
IMCMT10	71.0000	90.000	245.000	106.800	20.0000	40.0000
IMCMT11	80.0000	106.000	283.000	126.800	24.0000	47.0000
IMCMT12	25.0000	90.000	195.000	68.400	12.0000	24.0000
IMCMT13	28.0000	90.000	195.000	68.400	12.0000	24.0000
IMCMT14	32.0000	106.000	211.000	68.400	12.0000	24.0000
IMCMT15	36.0000	106.000	211.000	68.400	12.0000	24.0000

## ISO MILLS

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<b>Instance Name</b>	<b>cutter_dia</b>	<b>cutter_ length</b>	<b>length</b>	<b>shank_ length</b>	<b>thread_ dia</b>	<b>thread_ length</b>
IMCMT16	40.0000	125.000	260.000	93.400	16.0000	32.0000
IMCMT17	45.0000	125.000	260.000	93.400	16.0000	32.0000
IMCMT18	50.0000	150.000	285.000	93.400	16.0000	32.0000
IMCMT19	56.0000	150.000	285.000	93.400	16.0000	32.0000
IMCMT20	63.0000	180.000	335.000	106.800	20.0000	40.0000
IMCMT21	71.0000	180.000	335.000	106.800	20.0000	40.0000
IMCMT22	80.0000	212.000	389.000	126.800	24.0000	47.0000

## BALL END MILLS, 7/24 TAPER SHANKS, STANDARD AND LONG SERIES



### Generic Part Name: IMBMT

#### Notes:

1. Corresponds to standard ISO 1641-III-1978.
2. When a range of lengths is indicated, the range is expressed as "from to incremented by."

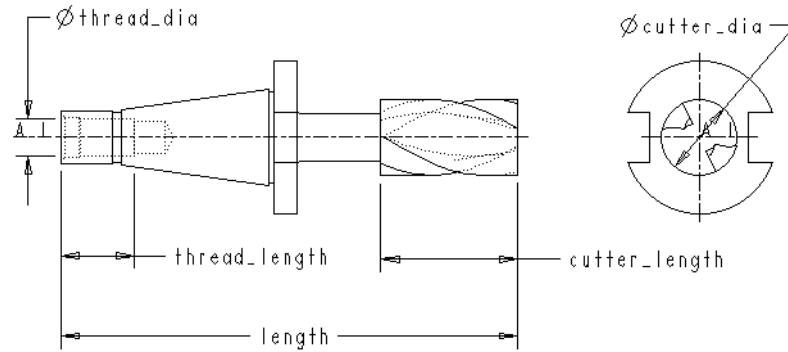
Instance Name	cutter_diam	length	cutter_length	shank_length	thread_dia	thread_length
IMBMT01	25.0000	150.000	45.000	68.400	12.0000	24.0000
IMBMT02	28.0000	150.000	45.000	68.400	12.0000	24.0000
IMBMT03	32.0000	158.000	53.000	68.400	12.0000	24.0000
IMBMT04	36.0000	158.000	53.000	68.400	12.0000	24.0000
IMBMT05	40.0000	198.000	63.000	93.400	16.0000	32.0000
IMBMT06	45.0000	198.000	63.000	93.400	16.0000	32.0000
IMBMT07	50.0000	210.000	75.000	93.400	16.0000	32.0000
IMBMT08	56.0000	210.000	75.000	93.400	16.0000	32.0000
IMBMT09	63.0000	245.000	90.000	106.800	20.0000	40.0000
IMBMT10	71.0000	245.000	90.000	106.800	20.0000	40.0000
IMBMT11	80.0000	283.000	106.000	126.800	24.0000	47.0000
IMBMT12	25.0000	195.000	90.000	68.400	12.0000	24.0000
IMBMT13	28.0000	195.000	90.000	68.400	12.0000	24.0000
IMBMT14	32.0000	211.000	106.000	68.400	12.0000	24.0000
IMBMT15	36.0000	211.000	106.000	68.400	12.0000	24.0000

## ISO MILLS

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<b>Instance Name</b>	<b>cutter_ diam</b>	<b>length</b>	<b>cutter_ length</b>	<b>shank_ length</b>	<b>thread_ dia</b>	<b>thread_ length</b>
IMBMT16	40.0000	260.000	125.000	93.400	16.0000	32.0000
IMBMT17	45.0000	260.000	125.000	93.400	16.0000	32.0000
IMBMT18	50.0000	285.000	150.000	93.400	16.0000	32.0000
IMBMT19	56.0000	285.000	150.000	93.400	16.0000	32.0000
IMBMT20	63.0000	335.000	180.000	106.800	20.0000	40.0000
IMBMT21	71.0000	335.000	180.000	106.800	20.0000	40.0000
IMBMT22	80.0000	389.000	212.000	126.800	24.0000	47.0000

## SLOT DRILLS, 7/24 TAPER SHANKS, STANDARD AND SHORT SERIES



### Generic Part Name: IMSDT

#### Notes:

1. Corresponds to standard ISO 1641-III-1978.
2. When a range of lengths is indicated, the range is expressed as "from to incremented by."

Instance Name	cutter_dia	cutter_length	length	thread_dia	thread_length
IMSDT01	25.0000	45.000	150.000	31.7500	12.0000
IMSDT02	28.0000	45.000	150.000	31.7500	12.0000
IMSDT03	32.0000	53.000	158.000	31.7500	12.0000
IMSDT04	36.0000	53.000	158.000	31.7500	12.0000
IMSDT05	40.0000	63.000	198.000	44.4500	16.0000
IMSDT06	45.0000	63.000	198.000	44.4500	16.0000
IMSDT07	50.0000	75.000	210.000	44.4500	16.0000
IMSDT08	56.0000	75.000	210.000	44.4500	16.0000
IMSDT09	63.0000	90.000	245.000	57.1500	20.0000
IMSDT10	71.0000	90.000	245.000	57.1500	20.0000
IMSDT11	80.0000	106.000	283.000	69.8500	24.0000
IMSDT12	25.0000	26.000	131.000	31.7500	12.0000
IMSDT13	28.0000	26.000	131.000	31.7500	12.0000
IMSDT14	32.0000	32.000	137.000	31.7500	12.0000
IMSDT15	36.0000	32.000	137.000	31.7500	12.0000

## ISO MILLS

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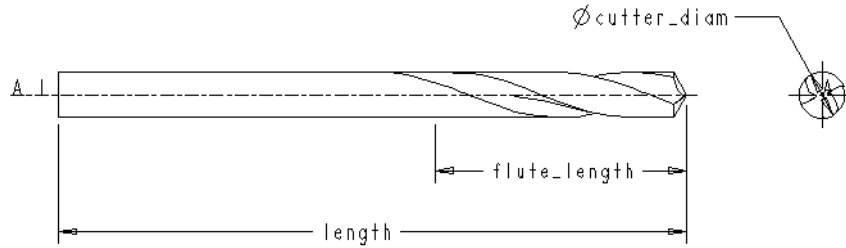
<b>Instance Name</b>	<b>cutter_dia</b>	<b>cutter_ length</b>	<b>length</b>	<b>thread_ dia</b>	<b>thread_ length</b>
IMSDT16	40.0000	38.000	173.000	44.4500	16.0000
IMSDT17	45.0000	38.000	173.000	44.4500	16.0000
IMSDT18	50.0000	45.000	180.000	44.4500	16.0000
IMSDT19	56.0000	45.000	180.000	44.4500	16.0000
IMSDT20	63.0000	53.000	208.000	57.1500	20.0000
IMSDT21	71.0000	53.000	208.000	57.1500	20.0000
IMSDT22	80.0000	63.000	240.000	69.8500	24.0000

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# ISO DRILLS

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## PARALLEL SHANK TWIST DRILLS, STUB SERIES



### Generic Part Name: IDTSS

#### Notes:

1. Corresponds to standard ISO 235 - 1980 (E).
2. When a range of lengths is indicated, the range is expressed as “from to incremented by.”

Instance Name	cutter_diam	flute_length	length
IDTSS001	0.5000	3.000	20.000
IDTSS002	0.8000	5.000	24.000
IDTSS003	1.0000	6.000	26.000
IDTSS004	1.2000	8.000	30.000
IDTSS005	1.5000	9.000	32.000
IDTSS006	1.8000	11.000	36.000
IDTSS007	2.0000	12.000	38.000
IDTSS008	2.2000	13.000	40.000
IDTSS009	2.5000	14.000	43.000
IDTSS010	2.8000	16.000	46.000
IDTSS011	3.0000	16.000	46.000
IDTSS012	3.2000	18.000	49.000
IDTSS013	3.5000	20.000	52.000
IDTSS014	3.8000	22.000	55.000
IDTSS015	4.0000	22.000	55.000
IDTSS016	4.2000	22.000	55.000
IDTSS017	4.5000	24.000	58.000

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## ISO DRILLS

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Instance Name	cutter_diam	flute_length	length
IDTSS018	4.8000	26.000	62.000
IDTSS019	5.0000	26.000	62.000
IDTSS020	5.2000	26.000	62.000
IDTSS021	5.5000	28.000	66.000
IDTSS022	5.8000	28.000	66.000
IDTSS023	6.0000	28.000	66.000
IDTSS024	6.2000	31.000	70.000
IDTSS025	6.5000	31.000	70.000
IDTSS026	6.8000	34.000	74.000
IDTSS027	7.0000	34.000	74.000
IDTSS028	7.2000	34.000	74.000
IDTSS029	7.5000	34.000	74.000
IDTSS030	7.8000	37.000	79.000
IDTSS031	8.0000	37.000	79.000
IDTSS032	8.2000	37.000	79.000
IDTSS033	8.5000	37.000	79.000
IDTSS034	8.8000	40.000	84.000
IDTSS035	9.0000	40.000	84.000
IDTSS036	9.2000	40.000	84.000
IDTSS037	9.5000	40.000	84.000
IDTSS038	9.8000	43.000	89.000
IDTSS039	10.0000	43.000	89.000
IDTSS040	10.2000	43.000	89.000
IDTSS041	10.5000	43.000	89.000
IDTSS042	10.8000	47.000	95.000
IDTSS043	11.0000	47.000	95.000
IDTSS044	11.2000	47.000	95.000
IDTSS045	11.5000	47.000	95.000
IDTSS046	11.8000	47.000	95.000
IDTSS047	12.0000	51.000	102.000

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## ISO DRILLS

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Instance Name	cutter_diam	flute_length	length
IDTSS048	12.2000	51.000	102.000
IDTSS049	12.5000	51.000	102.000
IDTSS050	12.8000	51.000	102.000
IDTSS051	13.0000	51.000	102.000
IDTSS052	13.2000	51.000	102.000
IDTSS053	13.5000	54.000	107.000
IDTSS054	13.8000	54.000	107.000
IDTSS055	14.0000	54.000	107.000
IDTSS056	14.2500	56.000	111.000
IDTSS057	14.5000	56.000	111.000
IDTSS058	14.7500	56.000	111.000
IDTSS059	15.0000	56.000	111.000
IDTSS060	15.2500	58.000	115.000
IDTSS061	15.5000	58.000	115.000
IDTSS062	15.7500	58.000	115.000
IDTSS063	16.0000	58.000	115.000
IDTSS064	16.2500	60.000	119.000
IDTSS065	16.5000	60.000	119.000
IDTSS066	16.7500	60.000	119.000
IDTSS067	17.0000	60.000	119.000
IDTSS068	17.2500	62.000	123.000
IDTSS069	17.5000	62.000	123.000
IDTSS070	17.7500	62.000	123.000
IDTSS071	18.0000	62.000	123.000
IDTSS072	18.2500	64.000	127.000
IDTSS073	18.5000	64.000	127.000
IDTSS074	18.7500	64.000	127.000
IDTSS075	19.0000	64.000	127.000
IDTSS076	19.2500	66.000	131.000
IDTSS077	19.5000	66.000	131.000

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## ISO DRILLS

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Instance Name	cutter_diam	flute_length	length
IDTSS078	19.7500	66.000	131.000
IDTSS079	20.0000	66.000	131.000
IDTSS080	20.2500	68.000	136.000
IDTSS081	20.5000	68.000	136.000
IDTSS082	20.7500	68.000	136.000
IDTSS083	21.0000	68.000	136.000
IDTSS084	21.2500	70.000	141.000
IDTSS085	21.5000	70.000	141.000
IDTSS086	21.7500	70.000	141.000
IDTSS087	22.0000	70.000	141.000
IDTSS088	22.2500	70.000	141.000
IDTSS089	22.5000	72.000	146.000
IDTSS090	22.7500	72.000	146.000
IDTSS091	23.0000	72.000	146.000
IDTSS092	23.2500	72.000	146.000
IDTSS093	23.5000	72.000	146.000
IDTSS094	23.7500	75.000	151.000
IDTSS095	24.0000	75.000	151.000
IDTSS096	24.2500	75.000	151.000
IDTSS097	24.5000	75.000	151.000
IDTSS098	24.7500	75.000	151.000
IDTSS099	25.0000	75.000	151.000
IDTSS100	25.2500	78.000	156.000
IDTSS101	25.5000	78.000	156.000
IDTSS102	25.7500	78.000	156.000
IDTSS103	26.0000	78.000	156.000
IDTSS104	26.2500	78.000	156.000
IDTSS105	26.5000	78.000	156.000
IDTSS106	26.7500	81.000	162.000
IDTSS107	27.0000	81.000	162.000

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## ISO DRILLS

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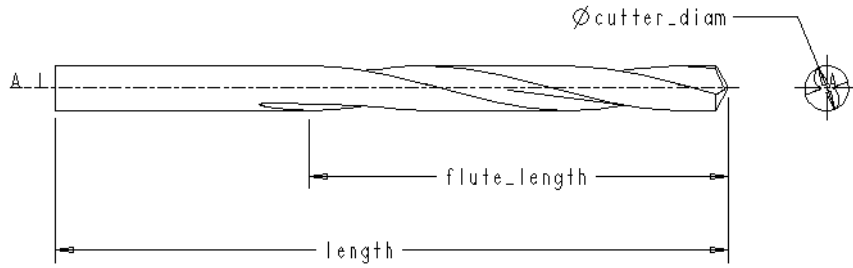
Instance Name	cutter_diam	flute_length	length
IDTSS108	27.2500	81.000	162.000
IDTSS109	27.5000	81.000	162.000
IDTSS110	27.7500	81.000	162.000
IDTSS111	28.0000	81.000	162.000
IDTSS112	28.2500	84.000	168.000
IDTSS113	28.5000	84.000	168.000
IDTSS114	28.7500	84.000	168.000
IDTSS115	29.0000	84.000	168.000
IDTSS116	29.2500	84.000	168.000
IDTSS117	29.5000	84.000	168.000
IDTSS118	29.7500	84.000	168.000
IDTSS119	30.0000	84.000	168.000
IDTSS120	30.2500	87.000	174.000
IDTSS121	30.5000	87.000	174.000
IDTSS122	30.7500	87.000	174.000
IDTSS123	31.0000	87.000	174.000
IDTSS124	31.2500	87.000	174.000
IDTSS125	31.5000	87.000	174.000
IDTSS126	31.7500	90.000	180.000
IDTSS127	32.0000	90.000	180.000
IDTSS128	32.5000	90.000	180.000
IDTSS129	33.0000	90.000	180.000
IDTSS130	33.5000	90.000	180.000
IDTSS131	34.0000	93.000	186.000
IDTSS132	34.5000	93.000	186.000
IDTSS133	35.0000	93.000	186.000
IDTSS134	35.5000	93.000	186.000
IDTSS135	36.0000	96.000	193.000
IDTSS136	36.5000	96.000	193.000
IDTSS137	37.0000	96.000	193.000

## ISO DRILLS

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<b>Instance Name</b>	<b>cutter_diam</b>	<b>flute_length</b>	<b>length</b>
IDTSS138	37.5000	96.000	193.000
IDTSS139	38.0000	100.000	200.000
IDTSS140	38.5000	100.000	200.000
IDTSS141	39.0000	100.000	200.000
IDTSS142	39.5000	100.000	200.000
IDTSS143	40.0000	100.000	200.000

## PARALLEL SHANK TWIST DRILLS, JOBBER SERIES



### Generic Part Name: IDTJS

#### Notes:

1. Corresponds to standard ISO 235 - 1980 (E).
2. When a range of lengths is indicated, the range is expressed as “from to incremented by.”

Instance Name	cutter_diam	flute_length	length
IDTJS001	0.2000	2.500	30.000
IDTJS002	0.2200	2.500	30.000
IDTJS003	0.2500	3.000	30.000
IDTJS004	0.2800	3.000	30.000
IDTJS005	0.3000	3.000	30.000
IDTJS006	0.3200	4.000	30.000
IDTJS007	0.3500	4.000	30.000
IDTJS008	0.3800	4.000	30.000
IDTJS009	0.4000	5.000	20.000
IDTJS010	0.4200	5.000	20.000
IDTJS011	0.4500	5.000	20.000
IDTJS012	0.4800	5.000	20.000
IDTJS013	0.5000	6.000	22.000
IDTJS014	0.5200	6.000	22.000
IDTJS015	0.5500	7.000	24.000
IDTJS016	0.5800	7.000	24.000
IDTJS017	0.6000	7.000	24.000
IDTJS018	0.6200	8.000	26.000

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## ISO DRILLS

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Instance Name	cutter_diam	flute_length	length
IDTJS019	0.6500	8.000	26.000
IDTJS020	0.6800	9.000	28.000
IDTJS021	0.7000	9.000	28.000
IDTJS022	0.7200	9.000	28.000
IDTJS023	0.7500	9.000	28.000
IDTJS024	0.7800	10.000	30.000
IDTJS025	0.8000	10.000	30.000
IDTJS026	0.8200	10.000	30.000
IDTJS027	0.8500	10.000	30.000
IDTJS028	0.8800	11.000	32.000
IDTJS029	0.9000	11.000	32.000
IDTJS030	0.9200	11.000	32.000
IDTJS031	0.9500	11.000	32.000
IDTJS032	0.9800	12.000	34.000
IDTJS033	1.0000	12.000	34.000
IDTJS034	1.0500	12.000	34.000
IDTJS035	1.1000	14.000	36.000
IDTJS036	1.1500	14.000	36.000
IDTJS037	1.2000	16.000	38.000
IDTJS038	1.2500	16.000	38.000
IDTJS039	1.3000	16.000	38.000
IDTJS040	1.3500	18.000	40.000
IDTJS041	1.4000	18.000	40.000
IDTJS042	1.4500	18.000	40.000
IDTJS043	1.5000	18.000	40.000
IDTJS044	1.5500	20.000	43.000
IDTJS045	1.6000	20.000	43.000
IDTJS046	1.6500	20.000	43.000
IDTJS047	1.7000	20.000	43.000
IDTJS048	1.7500	22.000	46.000

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## ISO DRILLS

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Instance Name	cutter_diam	flute_length	length
IDTJS049	1.8000	22.000	46.000
IDTJS050	1.8500	22.000	46.000
IDTJS051	1.9000	22.000	46.000
IDTJS052	1.9500	24.000	49.000
IDTJS053	2.0000	24.000	49.000
IDTJS054	2.0500	24.000	49.000
IDTJS055	2.1000	24.000	49.000
IDTJS056	2.1500	27.000	53.000
IDTJS057	2.2000	27.000	53.000
IDTJS058	2.2500	27.000	53.000
IDTJS059	2.3000	27.000	53.000
IDTJS060	2.3500	27.000	53.000
IDTJS061	2.4000	30.000	57.000
IDTJS062	2.4500	30.000	57.000
IDTJS063	2.5000	30.000	57.000
IDTJS064	2.5500	30.000	57.000
IDTJS065	2.6000	30.000	57.000
IDTJS066	2.6500	30.000	57.000
IDTJS067	2.7000	33.000	61.000
IDTJS068	2.7500	33.000	61.000
IDTJS069	2.8000	33.000	61.000
IDTJS070	2.8500	33.000	61.000
IDTJS071	2.9000	33.000	61.000
IDTJS072	2.9500	33.000	61.000
IDTJS073	3.0000	33.000	61.000
IDTJS074	3.1000	36.000	65.000
IDTJS075	3.2000	36.000	65.000
IDTJS076	3.3000	36.000	65.000
IDTJS077	3.4000	39.000	70.000
IDTJS078	3.5000	39.000	70.000

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## ISO DRILLS

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Instance Name	cutter_diam	flute_length	length
IDTJS079	3.6000	39.000	70.000
IDTJS080	3.7000	39.000	70.000
IDTJS081	3.8000	43.000	75.000
IDTJS082	3.9000	43.000	75.000
IDTJS083	4.0000	43.000	75.000
IDTJS084	4.1000	43.000	75.000
IDTJS085	4.2000	43.000	75.000
IDTJS086	4.3000	47.000	80.000
IDTJS087	4.4000	47.000	80.000
IDTJS088	4.5000	47.000	80.000
IDTJS089	4.6000	47.000	80.000
IDTJS090	4.7000	47.000	80.000
IDTJS091	4.8000	52.000	86.000
IDTJS092	4.9000	52.000	86.000
IDTJS093	5.0000	52.000	86.000
IDTJS094	5.1000	52.000	86.000
IDTJS095	5.2000	52.000	86.000
IDTJS096	5.3000	52.000	86.000
IDTJS097	5.4000	57.000	93.000
IDTJS098	5.5000	57.000	93.000
IDTJS099	5.6000	57.000	93.000
IDTJS100	5.7000	57.000	93.000
IDTJS101	5.8000	57.000	93.000
IDTJS102	5.9000	57.000	93.000
IDTJS103	6.0000	57.000	93.000
IDTJS104	6.1000	63.000	101.000
IDTJS105	6.2000	63.000	101.000
IDTJS106	6.3000	63.000	101.000
IDTJS107	6.4000	63.000	101.000
IDTJS108	6.5000	63.000	101.000

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## ISO DRILLS

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Instance Name	cutter_diam	flute_length	length
IDTJS109	6.6000	63.000	101.000
IDTJS110	6.7000	63.000	101.000
IDTJS111	6.8000	69.000	109.000
IDTJS112	6.9000	69.000	109.000
IDTJS113	7.0000	69.000	109.000
IDTJS114	7.1000	69.000	109.000
IDTJS115	7.2000	69.000	109.000
IDTJS116	7.3000	69.000	109.000
IDTJS117	7.4000	69.000	109.000
IDTJS118	7.5000	69.000	109.000
IDTJS119	7.6000	75.000	117.000
IDTJS120	7.7000	75.000	117.000
IDTJS121	7.8000	75.000	117.000
IDTJS122	7.9000	75.000	117.000
IDTJS123	8.0000	75.000	117.000
IDTJS124	8.1000	75.000	117.000
IDTJS125	8.2000	75.000	117.000
IDTJS126	8.3000	75.000	117.000
IDTJS127	8.4000	75.000	117.000
IDTJS128	8.5000	75.000	117.000
IDTJS129	8.6000	81.000	125.000
IDTJS130	8.7000	81.000	125.000
IDTJS131	8.8000	81.000	125.000
IDTJS132	8.9000	81.000	125.000
IDTJS133	9.0000	81.000	125.000
IDTJS134	9.1000	81.000	125.000
IDTJS135	9.2000	81.000	125.000
IDTJS136	9.3000	81.000	125.000
IDTJS137	9.4000	81.000	125.000
IDTJS138	9.5000	81.000	125.000

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## ISO DRILLS

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Instance Name	cutter_diam	flute_length	length
IDTJS139	9.6000	87.000	133.000
IDTJS140	9.7000	87.000	133.000
IDTJS141	9.8000	87.000	133.000
IDTJS142	9.9000	87.000	133.000
IDTJS143	10.0000	87.000	133.000
IDTJS144	10.1000	87.000	133.000
IDTJS145	10.2000	87.000	133.000
IDTJS146	10.3000	87.000	133.000
IDTJS147	10.4000	87.000	133.000
IDTJS148	10.5000	87.000	133.000
IDTJS149	10.6000	87.000	133.000
IDTJS150	10.7000	94.000	142.000
IDTJS151	10.8000	94.000	142.000
IDTJS152	10.9000	94.000	142.000
IDTJS153	11.0000	94.000	142.000
IDTJS154	11.1000	94.000	142.000
IDTJS155	11.2000	94.000	142.000
IDTJS156	11.3000	94.000	142.000
IDTJS157	11.4000	94.000	142.000
IDTJS158	11.5000	94.000	142.000
IDTJS159	11.6000	94.000	142.000
IDTJS160	11.7000	94.000	142.000
IDTJS161	11.8000	94.000	142.000
IDTJS162	11.9000	101.000	151.000
IDTJS163	12.0000	101.000	151.000
IDTJS164	12.1000	101.000	151.000
IDTJS165	12.2000	101.000	151.000
IDTJS166	12.3000	101.000	151.000
IDTJS167	12.4000	101.000	151.000
IDTJS168	12.5000	101.000	151.000

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## ISO DRILLS

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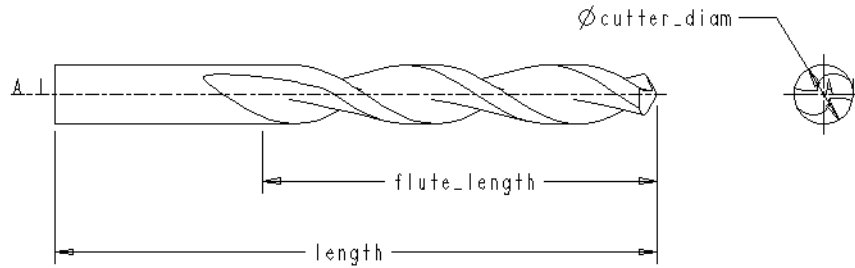
Instance Name	cutter_diam	flute_length	length
IDTJS169	12.6000	101.000	151.000
IDTJS170	12.7000	101.000	151.000
IDTJS171	12.8000	101.000	151.000
IDTJS172	12.9000	101.000	151.000
IDTJS173	13.0000	101.000	151.000
IDTJS174	13.1000	101.000	151.000
IDTJS175	13.2000	101.000	151.000
IDTJS176	13.3000	108.000	160.000
IDTJS177	13.4000	108.000	160.000
IDTJS178	13.5000	108.000	160.000
IDTJS179	13.6000	108.000	160.000
IDTJS180	13.7000	108.000	160.000
IDTJS181	13.8000	108.000	160.000
IDTJS182	13.9000	108.000	160.000
IDTJS183	14.0000	108.000	160.000
IDTJS184	14.2500	114.000	169.000
IDTJS185	14.5000	114.000	169.000
IDTJS186	14.7500	114.000	169.000
IDTJS187	15.0000	114.000	169.000
IDTJS188	15.2500	120.000	178.000
IDTJS189	15.5000	120.000	178.000
IDTJS190	15.7500	120.000	178.000
IDTJS191	16.0000	120.000	178.000
IDTJS192	16.5000	125.000	184.000
IDTJS193	17.0000	125.000	184.000
IDTJS194	17.5000	130.000	191.000
IDTJS195	18.0000	130.000	191.000
IDTJS196	18.5000	135.000	198.000
IDTJS197	19.0000	135.000	198.000

## ISO DRILLS

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<b>Instance Name</b>	<b>cutter_diam</b>	<b>flute_length</b>	<b>length</b>
IDTJS198	19.5000	140.000	205.000
IDTJS199	20.0000	140.000	205.000

## PARALLEL SHANK TWIST DRILLS, LONG SERIES



### Generic Part Name: IDTLS

#### Notes:

1. Corresponds to standard ISO 235 - 1980 (E).
2. When a range of lengths is indicated, the range is expressed as “from to incremented by.”

Instance Name	cutter_diam	flute_length	length
IDTLS001	1.0000	33.000	56.000
IDTLS002	1.1000	37.000	60.000
IDTLS003	1.2000	41.000	65.000
IDTLS004	1.3000	41.000	65.000
IDTLS005	1.4000	45.000	70.000
IDTLS006	1.5000	45.000	70.000
IDTLS007	1.6000	50.000	76.000
IDTLS008	1.7000	50.000	76.000
IDTLS009	1.8000	53.000	80.000
IDTLS010	1.9000	53.000	80.000
IDTLS011	2.0000	56.000	85.000
IDTLS012	2.1000	56.000	85.000
IDTLS013	2.2000	59.000	90.000
IDTLS014	2.3000	59.000	90.000
IDTLS015	2.4000	62.000	95.000
IDTLS016	2.5000	62.000	95.000
IDTLS017	2.6000	62.000	95.000
IDTLS018	2.7000	66.000	100.000

## ISO DRILLS

Instance Name	cutter_diam	flute_length	length
IDTLS019	2.8000	66.000	100.000
IDTLS020	2.9000	66.000	100.000
IDTLS021	3.0000	66.000	100.000
IDTLS022	3.1000	69.000	106.000
IDTLS023	3.2000	69.000	106.000
IDTLS024	3.3000	69.000	106.000
IDTLS025	3.4000	73.000	112.000
IDTLS026	3.5000	73.000	112.000
IDTLS027	3.6000	73.000	112.000
IDTLS028	3.7000	73.000	112.000
IDTLS029	3.8000	78.000	119.000
IDTLS030	3.9000	78.000	119.000
IDTLS031	4.0000	78.000	119.000
IDTLS032	4.1000	78.000	119.000
IDTLS033	4.2000	78.000	119.000
IDTLS034	4.3000	82.000	126.000
IDTLS035	4.4000	82.000	126.000
IDTLS036	4.5000	82.000	126.000
IDTLS037	4.6000	82.000	126.000
IDTLS038	4.7000	82.000	126.000
IDTLS039	4.8000	87.000	132.000
IDTLS040	4.9000	87.000	132.000
IDTLS041	5.0000	87.000	132.000
IDTLS042	5.1000	87.000	132.000
IDTLS043	5.2000	87.000	132.000
IDTLS044	5.3000	87.000	132.000
IDTLS045	5.4000	91.000	139.000
IDTLS046	5.5000	91.000	139.000
IDTLS047	5.6000	91.000	139.000
IDTLS048	5.7000	91.000	139.000

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## ISO DRILLS

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Instance Name	cutter_diam	flute_length	length
IDTLS049	5.8000	91.000	139.000
IDTLS050	5.9000	91.000	139.000
IDTLS051	6.0000	91.000	139.000
IDTLS052	6.1000	97.000	148.000
IDTLS053	6.2000	97.000	148.000
IDTLS054	6.3000	97.000	148.000
IDTLS055	6.4000	97.000	148.000
IDTLS056	6.5000	97.000	148.000
IDTLS057	6.6000	97.000	148.000
IDTLS058	6.7000	97.000	148.000
IDTLS059	6.8000	102.000	156.000
IDTLS060	6.9000	102.000	156.000
IDTLS061	7.0000	102.000	156.000
IDTLS062	7.1000	102.000	156.000
IDTLS063	7.2000	102.000	156.000
IDTLS064	7.3000	102.000	156.000
IDTLS065	7.4000	102.000	156.000
IDTLS066	7.5000	102.000	156.000
IDTLS067	7.6000	109.000	165.000
IDTLS068	7.7000	109.000	165.000
IDTLS069	7.8000	109.000	165.000
IDTLS070	7.9000	109.000	165.000
IDTLS071	8.0000	109.000	165.000
IDTLS072	8.1000	109.000	165.000
IDTLS073	8.2000	109.000	165.000
IDTLS074	8.3000	109.000	165.000
IDTLS075	8.4000	109.000	165.000
IDTLS076	8.5000	109.000	165.000
IDTLS077	8.6000	115.000	175.000
IDTLS078	8.7000	115.000	175.000

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## ISO DRILLS

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Instance Name	cutter_diam	flute_length	length
IDTLS079	8.8000	115.000	175.000
IDTLS080	8.9000	115.000	175.000
IDTLS081	9.0000	115.000	175.000
IDTLS082	9.1000	115.000	175.000
IDTLS083	9.2000	115.000	175.000
IDTLS084	9.3000	115.000	175.000
IDTLS085	9.4000	115.000	175.000
IDTLS086	9.5000	115.000	175.000
IDTLS087	9.6000	121.000	184.000
IDTLS088	9.7000	121.000	184.000
IDTLS089	9.8000	121.000	184.000
IDTLS090	9.9000	121.000	184.000
IDTLS091	10.0000	121.000	184.000
IDTLS092	10.1000	121.000	184.000
IDTLS093	10.2000	121.000	184.000
IDTLS094	10.3000	121.000	184.000
IDTLS095	10.4000	121.000	184.000
IDTLS096	10.5000	121.000	184.000
IDTLS097	10.6000	121.000	184.000
IDTLS098	10.7000	128.000	195.000
IDTLS099	10.8000	128.000	195.000
IDTLS100	10.9000	128.000	195.000
IDTLS101	11.0000	128.000	195.000
IDTLS102	11.1000	128.000	195.000
IDTLS103	11.2000	128.000	195.000
IDTLS104	11.3000	128.000	195.000
IDTLS105	11.4000	128.000	195.000
IDTLS106	11.5000	128.000	195.000
IDTLS107	11.6000	128.000	195.000
IDTLS108	11.7000	128.000	195.000

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## ISO DRILLS

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Instance Name	cutter_diam	flute_length	length
IDTLS109	11.8000	128.000	195.000
IDTLS110	11.9000	134.000	205.000
IDTLS111	12.0000	134.000	205.000
IDTLS112	12.1000	134.000	205.000
IDTLS113	12.2000	134.000	205.000
IDTLS114	12.3000	134.000	205.000
IDTLS115	12.4000	134.000	205.000
IDTLS116	12.5000	134.000	205.000
IDTLS117	12.6000	134.000	205.000
IDTLS118	12.7000	134.000	205.000
IDTLS119	12.8000	134.000	205.000
IDTLS120	12.9000	134.000	205.000
IDTLS121	13.0000	134.000	205.000
IDTLS122	13.1000	134.000	205.000
IDTLS123	13.2000	134.000	205.000
IDTLS124	13.3000	140.000	214.000
IDTLS125	13.4000	140.000	214.000
IDTLS126	13.5000	140.000	214.000
IDTLS127	13.6000	140.000	214.000
IDTLS128	13.7000	140.000	214.000
IDTLS129	13.8000	140.000	214.000
IDTLS130	13.9000	140.000	214.000
IDTLS131	14.0000	140.000	214.000
IDTLS132	14.2500	144.000	220.000
IDTLS133	14.5000	144.000	220.000
IDTLS134	14.7500	144.000	220.000
IDTLS135	15.0000	144.000	220.000
IDTLS136	15.2500	149.000	227.000
IDTLS137	15.5000	149.000	227.000
IDTLS138	15.7500	149.000	227.000

## ISO DRILLS

Instance Name	cutter_diam	flute_length	length
IDTLS139	16.0000	149.000	227.000
IDTLS140	16.2500	154.000	235.000
IDTLS141	16.5000	154.000	235.000
IDTLS142	16.7500	154.000	235.000
IDTLS143	17.0000	154.000	235.000
IDTLS144	17.2500	158.000	241.000
IDTLS145	17.5000	158.000	241.000
IDTLS146	17.7500	158.000	241.000
IDTLS147	18.0000	158.000	241.000
IDTLS148	18.2500	162.000	247.000
IDTLS149	18.5000	162.000	247.000
IDTLS150	18.7500	162.000	247.000
IDTLS151	19.0000	162.000	247.000
IDTLS152	19.2500	166.000	254.000
IDTLS153	19.5000	166.000	254.000
IDTLS154	19.7500	166.000	254.000
IDTLS155	20.0000	166.000	254.000
IDTLS156	20.2500	171.000	261.000
IDTLS157	20.5000	171.000	261.000
IDTLS158	20.7500	171.000	261.000
IDTLS159	21.0000	171.000	261.000
IDTLS160	21.2500	176.000	268.000
IDTLS161	21.5000	176.000	268.000
IDTLS162	21.7500	176.000	268.000
IDTLS163	22.0000	176.000	268.000
IDTLS164	22.2500	176.000	268.000
IDTLS165	22.5000	180.000	275.000
IDTLS166	22.7500	180.000	275.000
IDTLS167	23.0000	180.000	275.000
IDTLS168	23.2500	180.000	275.000

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## ISO DRILLS

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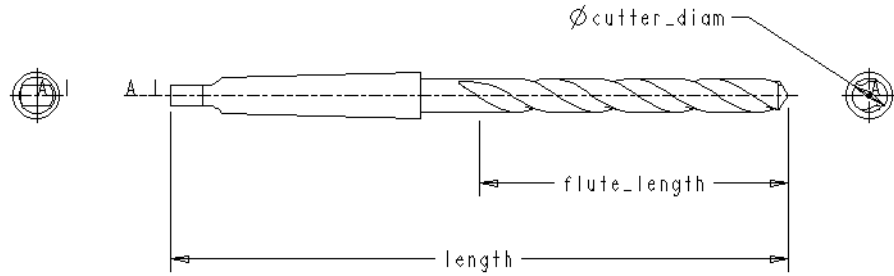
Instance Name	cutter_diam	flute_length	length
IDTLS169	23.5000	180.000	275.000
IDTLS170	23.7500	185.000	282.000
IDTLS171	24.0000	185.000	282.000
IDTLS172	24.2500	185.000	282.000
IDTLS173	24.5000	185.000	282.000
IDTLS174	24.7500	185.000	282.000
IDTLS175	25.0000	185.000	282.000
IDTLS176	25.2500	190.000	290.000
IDTLS177	25.5000	190.000	290.000
IDTLS178	25.7500	190.000	290.000
IDTLS179	26.0000	190.000	290.000
IDTLS180	26.2500	190.000	290.000
IDTLS181	26.5000	190.000	290.000
IDTLS182	26.7500	195.000	298.000
IDTLS183	27.0000	195.000	298.000
IDTLS184	27.2500	195.000	298.000
IDTLS185	27.5000	195.000	298.000
IDTLS186	27.7500	195.000	298.000
IDTLS187	28.0000	195.000	298.000
IDTLS188	28.2500	201.000	307.000
IDTLS189	28.5000	201.000	307.000
IDTLS190	28.7500	201.000	307.000
IDTLS191	29.0000	201.000	307.000
IDTLS192	29.2500	201.000	307.000
IDTLS193	29.5000	201.000	307.000
IDTLS194	29.7500	201.000	307.000
IDTLS195	30.0000	201.000	307.000
IDTLS196	30.2500	207.000	316.000
IDTLS197	30.5000	207.000	316.000
IDTLS198	30.7500	207.000	316.000

## ISO DRILLS

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<b>Instance Name</b>	<b>cutter_diam</b>	<b>flute_length</b>	<b>length</b>
IDTLS199	31.0000	207.000	316.000
IDTLS200	31.2500	207.000	316.000
IDTLS201	31.5000	207.000	316.000

## MORSE TAPER SHANK TWIST DRILLS



### Generic Part Name: IDTMT

#### Notes:

1. Corresponds to standard ISO 235 - 1980 (E).
2. When a range of lengths is indicated, the range is expressed as “from to incremented by.”

Instance Name	cutter_diam	flute_length	length
IDTMT001	3.000	33.000	114.000
IDTMT002	3.200	36.000	117.000
IDTMT003	3.500	39.000	120.000
IDTMT004	3.800	43.000	124.000
IDTMT005	4.000	43.000	124.000
IDTMT006	4.200	43.000	124.000
IDTMT007	4.500	47.000	128.000
IDTMT008	4.800	52.000	133.000
IDTMT009	5.000	52.000	133.000
IDTMT010	5.200	52.000	133.000
IDTMT011	5.500	57.000	138.000
IDTMT012	5.800	57.000	138.000
IDTMT013	6.000	57.000	138.000
IDTMT014	6.200	63.000	144.000
IDTMT015	6.500	63.000	144.000
IDTMT016	6.800	69.000	150.000
IDTMT017	7.000	69.000	150.000
IDTMT018	7.200	69.000	150.000

## ISO DRILLS

Instance Name	cutter_diam	flute_length	length
IDTMT019	7.500	69.000	150.000
IDTMT020	7.800	75.000	156.000
IDTMT021	8.000	75.000	156.000
IDTMT022	8.200	75.000	156.000
IDTMT023	8.500	75.000	156.000
IDTMT024	8.800	81.000	162.000
IDTMT025	9.000	81.000	162.000
IDTMT026	9.200	81.000	162.000
IDTMT027	9.500	81.000	162.000
IDTMT028	9.800	87.000	168.000
IDTMT029	10.000	87.000	168.000
IDTMT030	10.200	87.000	168.000
IDTMT031	10.500	87.000	168.000
IDTMT032	10.800	94.000	175.000
IDTMT033	11.000	94.000	175.000
IDTMT034	11.200	94.000	175.000
IDTMT035	11.500	94.000	175.000
IDTMT036	11.800	94.000	175.000
IDTMT037	12.000	101.000	182.000
IDTMT038	12.200	101.000	182.000
IDTMT039	12.500	101.000	182.000
IDTMT040	12.800	101.000	182.000
IDTMT041	13.000	101.000	182.000
IDTMT042	13.200	101.000	182.000
IDTMT043	13.500	108.000	189.000
IDTMT044	13.800	108.000	189.000
IDTMT045	14.000	108.000	189.000
IDTMT046	14.250	114.000	212.000
IDTMT047	14.500	114.000	212.000
IDTMT048	14.750	114.000	212.000

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## ISO DRILLS

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Instance Name	cutter_diam	flute_length	length
IDTMT049	15.000	114.000	212.000
IDTMT050	15.250	120.000	218.000
IDTMT051	15.500	120.000	218.000
IDTMT052	15.750	120.000	218.000
IDTMT053	16.000	120.000	218.000
IDTMT054	16.250	125.000	223.000
IDTMT055	16.500	125.000	223.000
IDTMT056	16.750	125.000	223.000
IDTMT057	17.000	125.000	223.000
IDTMT058	17.250	130.000	228.000
IDTMT059	17.500	130.000	228.000
IDTMT060	17.750	130.000	228.000
IDTMT061	18.000	130.000	228.000
IDTMT062	18.250	135.000	233.000
IDTMT063	18.500	135.000	233.000
IDTMT064	18.750	135.000	233.000
IDTMT065	19.000	135.000	233.000
IDTMT066	19.250	140.000	238.000
IDTMT067	19.500	140.000	238.000
IDTMT068	19.750	140.000	238.000
IDTMT069	20.000	140.000	238.000
IDTMT070	20.250	145.000	243.000
IDTMT071	20.500	145.000	243.000
IDTMT072	20.750	145.000	243.000
IDTMT073	21.000	145.000	243.000
IDTMT074	21.250	150.000	248.000
IDTMT075	21.500	150.000	248.000
IDTMT076	21.750	150.000	248.000
IDTMT077	22.000	150.000	248.000
IDTMT078	22.250	150.000	248.000

## ISO DRILLS

Instance Name	cutter_diam	flute_length	length
IDTMT079	22.500	155.000	253.000
IDTMT080	22.750	155.000	253.000
IDTMT081	23.000	155.000	253.000
IDTMT082	23.250	155.000	276.000
IDTMT083	23.500	155.000	276.000
IDTMT084	23.750	160.000	281.000
IDTMT085	24.000	160.000	281.000
IDTMT086	24.250	160.000	281.000
IDTMT087	24.500	160.000	281.000
IDTMT088	24.750	160.000	281.000
IDTMT089	25.000	160.000	281.000
IDTMT090	25.250	165.000	286.000
IDTMT091	25.500	165.000	286.000
IDTMT092	25.750	165.000	286.000
IDTMT093	26.000	165.000	286.000
IDTMT094	26.250	165.000	286.000
IDTMT095	26.500	165.000	286.000
IDTMT096	26.750	170.000	291.000
IDTMT097	27.000	170.000	291.000
IDTMT098	27.250	170.000	291.000
IDTMT099	27.500	170.000	291.000
IDTMT100	27.750	170.000	291.000
IDTMT101	28.000	170.000	291.000
IDTMT102	28.250	175.000	296.000
IDTMT103	28.500	175.000	296.000
IDTMT104	28.750	175.000	296.000
IDTMT105	29.000	175.000	296.000
IDTMT106	29.250	175.000	296.000
IDTMT107	29.500	175.000	296.000
IDTMT108	29.750	175.000	296.000

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## ISO DRILLS

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Instance Name	cutter_diam	flute_length	length
IDTMT109	30.000	175.000	296.000
IDTMT110	30.250	180.000	301.000
IDTMT111	30.500	180.000	301.000
IDTMT112	30.750	180.000	301.000
IDTMT113	31.000	180.000	301.000
IDTMT114	31.250	180.000	301.000
IDTMT115	31.500	180.000	301.000
IDTMT116	31.750	185.000	306.000
IDTMT117	32.000	185.000	334.000
IDTMT118	32.500	185.000	334.000
IDTMT119	33.000	185.000	334.000
IDTMT120	33.500	185.000	334.000
IDTMT121	34.000	190.000	339.000
IDTMT122	34.500	190.000	339.000
IDTMT123	35.000	190.000	339.000
IDTMT124	35.500	190.000	339.000
IDTMT125	36.000	195.000	344.000
IDTMT126	36.500	195.000	344.000
IDTMT127	37.000	195.000	344.000
IDTMT128	37.500	195.000	344.000
IDTMT129	38.000	200.000	349.000
IDTMT130	38.500	200.000	349.000
IDTMT131	39.000	200.000	349.000
IDTMT132	39.500	200.000	349.000
IDTMT133	40.000	200.000	349.000
IDTMT134	40.500	205.000	354.000
IDTMT135	41.000	205.000	354.000
IDTMT136	41.500	205.000	354.000
IDTMT137	42.000	205.000	354.000
IDTMT138	42.500	205.000	354.000

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## ISO DRILLS

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Instance Name	cutter_diam	flute_length	length
IDTMT139	43.000	210.000	359.000
IDTMT140	43.500	210.000	359.000
IDTMT141	44.000	210.000	359.000
IDTMT142	44.500	210.000	359.000
IDTMT143	45.000	210.000	359.000
IDTMT144	45.500	215.000	364.000
IDTMT145	46.000	215.000	364.000
IDTMT146	46.500	215.000	364.000
IDTMT147	47.000	215.000	364.000
IDTMT148	47.500	215.000	364.000
IDTMT149	48.000	220.000	369.000
IDTMT150	48.500	220.000	369.000
IDTMT151	49.000	220.000	369.000
IDTMT152	49.500	220.000	369.000
IDTMT153	50.000	220.000	369.000
IDTMT154	50.500	225.000	374.000
IDTMT155	51.000	225.000	412.000
IDTMT156	52.000	225.000	412.000
IDTMT157	53.000	225.000	412.000
IDTMT158	54.000	230.000	417.000
IDTMT159	55.000	230.000	417.000
IDTMT160	56.000	230.000	417.000
IDTMT161	57.000	235.000	422.000
IDTMT162	58.000	235.000	422.000
IDTMT163	59.000	235.000	422.000
IDTMT164	60.000	235.000	422.000
IDTMT165	61.000	240.000	427.000
IDTMT166	62.000	240.000	427.000
IDTMT167	63.000	240.000	427.000
IDTMT168	64.000	245.000	432.000

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## ISO DRILLS

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Instance Name	cutter_diam	flute_length	length
IDTMT169	65.000	245.000	432.000
IDTMT170	66.000	245.000	432.000
IDTMT171	67.000	245.000	432.000
IDTMT172	68.000	250.000	437.000
IDTMT173	69.000	250.000	437.000
IDTMT174	70.000	250.000	437.000
IDTMT175	71.000	250.000	437.000
IDTMT176	72.000	255.000	442.000
IDTMT177	73.000	255.000	442.000
IDTMT178	74.000	255.000	442.000
IDTMT179	75.000	255.000	442.000
IDTMT180	76.000	260.000	447.000
IDTMT181	77.000	260.000	514.000
IDTMT182	78.000	260.000	514.000
IDTMT183	79.000	260.000	514.000
IDTMT184	80.000	260.000	514.000
IDTMT185	81.000	265.000	519.000
IDTMT186	82.000	265.000	519.000
IDTMT187	83.000	265.000	519.000
IDTMT188	84.000	265.000	519.000
IDTMT189	85.000	265.000	519.000
IDTMT190	86.000	270.000	524.000
IDTMT191	87.000	270.000	524.000
IDTMT192	88.000	270.000	524.000
IDTMT193	89.000	270.000	524.000
IDTMT194	90.000	270.000	524.000
IDTMT195	91.000	275.000	529.000
IDTMT196	92.000	275.000	529.000
IDTMT197	93.000	275.000	529.000
IDTMT198	94.000	275.000	529.000

## ISO DRILLS

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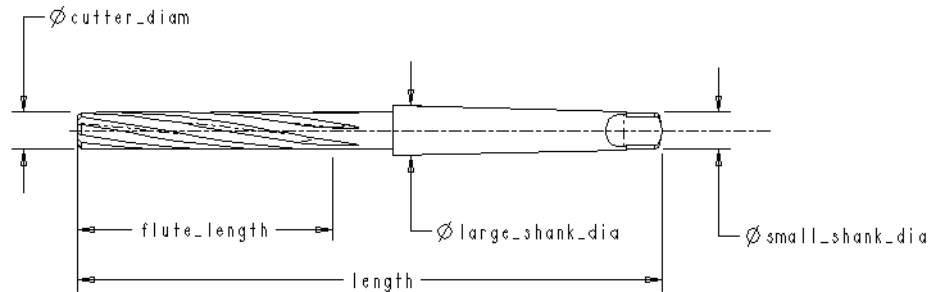
<b>Instance Name</b>	<b>cutter_diam</b>	<b>flute_length</b>	<b>length</b>
IDTMT199	95.000	275.000	529.000
IDTMT200	96.000	280.000	534.000
IDTMT201	97.000	280.000	534.000
IDTMT202	98.000	280.000	534.000
IDTMT203	99.000	280.000	534.000
IDTMT204	100.000	280.000	534.000

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# ISO REAMERS

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## LONG, FLUTED MACHINE REAMERS, MORSE TAPER SHANKS, METRIC SERIES



### Generic Part Name: IRLMM

#### Notes:

1. Corresponds to standard ISO 236 / II - 1976.

Instance Name	cutter_diam	flute_length	length	large_shank_dia	small_shank_dia
IRLMM01	7.0000	54.000	134.000	12.2000	9.0000
IRLMM02	8.0000	58.000	138.000	12.2000	9.0000
IRLMM03	9.0000	62.000	142.000	12.2000	9.0000
IRLMM04	10.0000	66.000	146.000	12.2000	9.0000
IRLMM05	11.0000	71.000	151.000	12.2000	9.0000
IRLMM06	12.0000	76.000	156.000	12.2000	9.0000
IRLMM07	14.0000	81.000	161.000	12.2000	9.0000
IRLMM08	16.0000	87.000	187.000	18.0000	14.0000
IRLMM09	18.0000	93.000	193.000	18.0000	14.0000
IRLMM10	20.0000	100.000	200.000	18.0000	14.0000
IRLMM11	22.0000	107.000	207.000	18.0000	14.0000
IRLMM12	25.0000	115.000	242.000	24.1000	19.1000
IRLMM13	28.0000	124.000	251.000	24.1000	19.1000
IRLMM14	32.0000	133.000	293.000	31.6000	25.2000
IRLMM15	36.0000	142.000	302.000	31.6000	25.2000

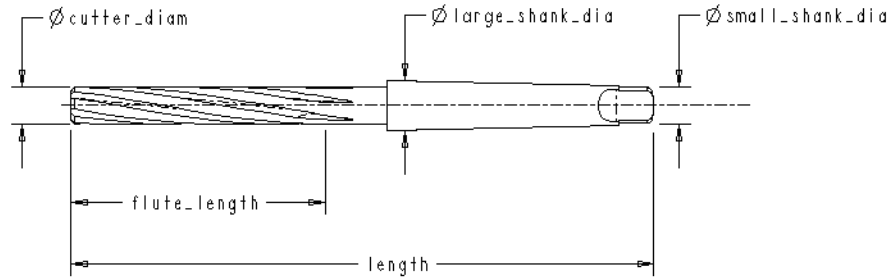
## ISO REAMERS

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<b>Instance Name</b>	<b>cutter_ diam</b>	<b>flute_ length</b>	<b>length</b>	<b>large_ shank_ dia</b>	<b>small_ shank_ dia</b>
IRLMM16	40.0000	152.000	312.000	31.6000	25.2000
IRLMM17	45.0000	163.000	323.000	31.6000	25.2000
IRLMM18	50.0000	174.000	334.000	31.6000	25.2000
IRLMM19	56.0000	184.000	381.000	44.7000	36.5000
IRLMM20	63.0000	194.000	391.000	44.7000	36.5000
IRLMM21	67.0000	194.000	391.000	44.7000	36.5000
IRLMM22	71.0000	203.000	400.000	44.7000	36.5000

## ISO REAMERS

### LONG, FLUTED MACHINE REAMERS, MORSE TAPER SHANKS, INCH SERIES



#### Generic Part Name: IRLMI

##### Notes:

1. Corresponds to standard ISO 236 / II - 1976.

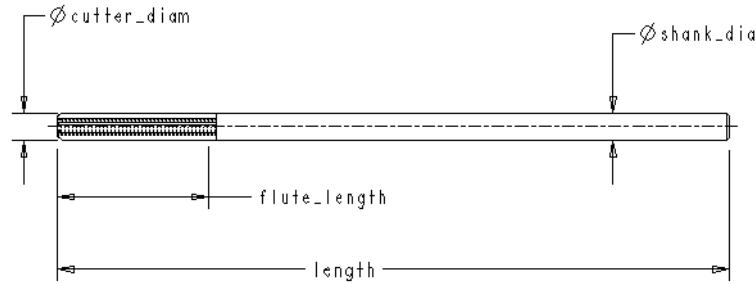
Instance Name	cutter_diam	flute_length	length	large_shank_dia	small_shank_dia
IRLMI01	0.25000	2.00000	5.1250	0.48031	0.35433
IRLMI02	0.28125	2.12500	5.2500	0.48031	0.35433
IRLMI03	0.31250	2.50000	5.3750	0.48031	0.35433
IRLMI04	0.34375	2.43750	5.5625	0.48031	0.35433
IRLMI05	0.37500	2.62500	5.7500	0.48031	0.35433
IRLMI06	0.43750	2.81250	5.9375	0.48031	0.35433
IRLMI07	0.50000	3.00000	6.1250	0.48031	0.35433
IRLMI08	0.56250	3.18750	7.1250	0.70866	0.55118
IRLMI09	0.62500	3.43750	7.3750	0.70866	0.55118
IRLMI10	0.68750	3.68750	7.6250	0.70866	0.55118
IRLMI11	0.75000	3.93750	7.8750	0.70866	0.55118
IRLMI12	0.87500	4.18750	8.1250	0.70866	0.55118
IRLMI13	1.00000	4.50000	9.5000	0.94882	0.75197
IRLMI14	1.12500	4.87500	9.8750	0.94882	0.75197
IRLMI15	1.25000	5.25000	10.2500	0.94882	0.75197
IRLMI16	1.37500	5.62500	11.9375	1.24409	0.99213

## ISO REAMERS

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<b>Instance Name</b>	<b>cutter_ diam</b>	<b>flute_ length</b>	<b>length</b>	<b>large_ shank_ dia</b>	<b>small_ shank_ dia</b>
IRLMI17	1.50000	6.00000	12.3125	1.24409	0.99213
IRLMI18	1.75000	6.43750	12.7500	1.24409	0.99213
IRLMI19	2.00000	6.87500	13.1875	1.24409	0.99213
IRLMI20	2.25000	7.25000	15.0000	1.75984	1.43701
IRLMI21	2.50000	7.62500	15.3750	1.75984	1.43701
IRLMI22	3.00000	8.37500	16.1250	1.75984	1.43701

## MACHINE CHUCKING REAMERS, PARALLEL SHANKS



### Generic Part Name: IRMPS

#### Notes:

1. Corresponds to standard ISO 521 - 1975.

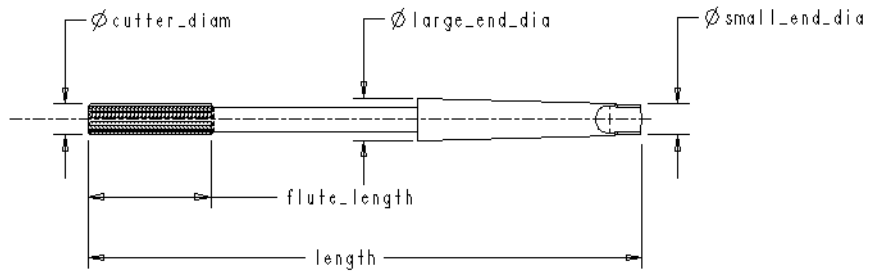
Instance Name	cutter_diam	length	flute_length	shank_dia
IRMPS01	1.4000	40.000	8.0000	1.4000
IRMPS02	1.6000	43.000	9.0000	1.6000
IRMPS03	1.8000	46.000	10.0000	1.8000
IRMPS04	2.0000	49.000	11.0000	2.0000
IRMPS05	2.2000	53.000	12.0000	2.2000
IRMPS06	2.5000	57.000	14.0000	2.5000
IRMPS07	2.8000	61.000	15.0000	2.8000
IRMPS08	3.0000	61.000	15.0000	3.0000
IRMPS09	3.2000	65.000	16.0000	3.2000
IRMPS10	3.5000	70.000	18.0000	3.5000
IRMPS11	4.0000	75.000	19.0000	4.0000
IRMPS12	4.5000	80.000	21.0000	4.5000
IRMPS13	5.0000	86.000	23.0000	5.0000
IRMPS14	5.5000	93.000	26.0000	5.6000
IRMPS15	6.0000	93.000	26.0000	5.6000
IRMPS16	7.0000	109.000	31.0000	7.1000
IRMPS17	8.0000	117.000	33.0000	8.0000
IRMPS18	9.0000	125.000	36.0000	9.0000

## ISO REAMERS

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<b>Instance Name</b>	<b>cutter_ diam</b>	<b>length</b>	<b>flute_ length</b>	<b>shank_ dia</b>
IRMPS19	10.0000	133.000	38.0000	10.0000
IRMPS20	11.0000	142.000	41.0000	10.0000
IRMPS21	12.0000	151.000	44.0000	10.0000
IRMPS22	14.0000	160.000	47.0000	12.5000
IRMPS23	16.0000	170.000	52.0000	12.5000
IRMPS24	18.0000	182.000	56.0000	14.0000
IRMPS25	20.0000	195.000	60.0000	16.0000

## MACHINE CHUCKING REAMERS, MORSE TAPER SHANKS



### Generic Part Name: IRMMS

#### Notes:

1. Corresponds to standard ISO 521 - 1976.

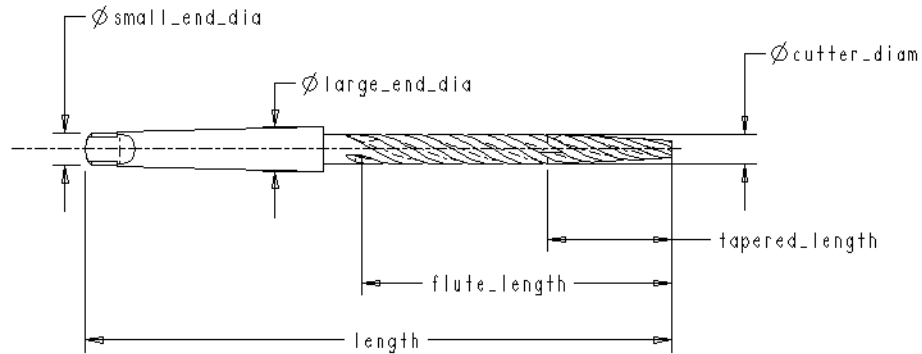
Instance Name	cutter_diam	length	flute_length	large_end_dia	small_end_dia
IRMMS01	5.5000	138.000	26.0000	12.2000	9.0000
IRMMS02	6.0000	138.000	26.0000	12.2000	9.0000
IRMMS03	7.0000	150.000	31.0000	12.2000	9.0000
IRMMS04	8.0000	156.000	33.0000	12.2000	9.0000
IRMMS05	9.0000	162.000	36.0000	12.2000	9.0000
IRMMS06	10.0000	168.000	38.0000	12.2000	9.0000
IRMMS07	11.0000	175.000	41.0000	12.2000	9.0000
IRMMS08	12.0000	182.000	44.0000	12.2000	9.0000
IRMMS09	14.0000	189.000	47.0000	12.2000	9.0000
IRMMS10	15.0000	204.000	50.0000	18.0000	14.0000
IRMMS11	16.0000	210.000	52.0000	18.0000	14.0000
IRMMS12	18.0000	219.000	56.0000	18.0000	14.0000
IRMMS13	20.0000	228.000	60.0000	18.0000	14.0000
IRMMS14	22.0000	237.000	64.0000	18.0000	14.0000
IRMMS15	25.0000	268.000	68.0000	24.1000	19.1000
IRMMS16	28.0000	277.000	71.0000	24.1000	19.1000
IRMMS17	32.0000	317.000	77.0000	31.6000	25.2000
IRMMS18	36.0000	325.000	79.0000	31.6000	25.2000

## ISO REAMERS

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<b>Instance Name</b>	<b>cutter_ diam</b>	<b>length</b>	<b>flute_ length</b>	<b>large_ end_dia</b>	<b>small_ end_dia</b>
IRMMS19	40.0000	329.000	81.0000	31.6000	25.2000
IRMMS20	45.0000	336.000	83.0000	31.6000	25.2000
IRMMS21	50.0000	344.000	86.0000	31.6000	25.2000

## MACHINE BRIDGE REAMERS, MORSE TAPER SHANKS



### Generic Part Name: IRBMS

#### Notes:

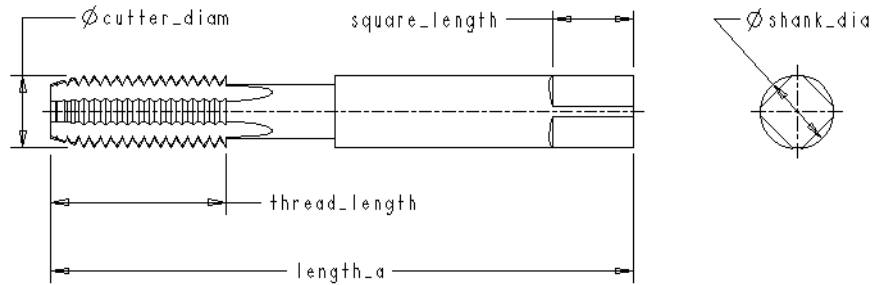
1. Corresponds to standard ISO 2238 - 1972.

Instance Name	cutter_diam	flute_length	length	tapered_length	large_end_dia	small_end_dia
IRBMS01	6.4000	75.000	151.000	30.0000	12.2000	9.0000
IRBMS02	8.4000	85.000	161.000	34.0000	12.2000	9.0000
IRBMS03	11.0000	100.000	176.000	40.0000	12.2000	9.0000
IRBMS04	13.0000	105.000	199.000	42.0000	18.0000	14.0000
IRBMS05	17.0000	135.000	251.000	54.0000	24.1000	19.1000
IRBMS06	21.0000	155.000	271.000	62.0000	24.1000	19.1000
IRBMS07	25.0000	180.000	296.000	72.0000	24.1000	19.1000
IRBMS08	31.0000	210.000	326.000	84.0000	24.1000	19.1000
IRBMS09	37.0000	220.000	364.000	88.0000	31.6000	25.2000

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# ISO TAPS

## FULL-DIAMETER BRITISH STANDARD SHANK TAPS WITH RECESS



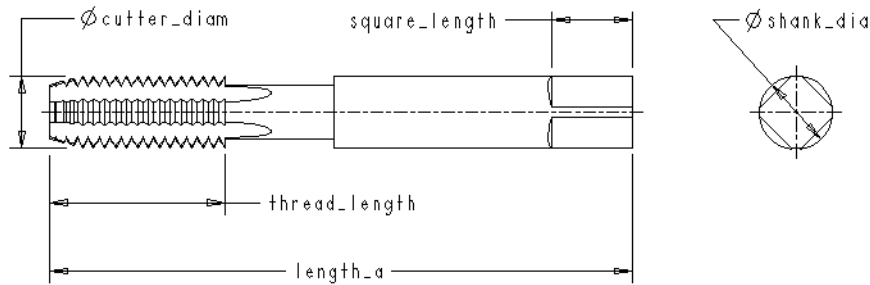
### Generic Part Name: ITFBWR

#### Notes:

1. Corresponds to standard ISO 529 - 1975 (E).

Instance Name	DESIGNATION	cutter_diam	shank_dia	thread_length	length_a	square_length
ITFBWR01	1/8-40-BSW	3.17500	3.1500	11.0000	48.0000	5.0000
ITFBWR02	3/16-24-BSW	4.76200	5.0000	16.0000	58.0000	7.0000
ITFBWR03	1/4-20-BSW	6.35000	6.3000	19.0000	66.0000	8.0000
ITFBWR04	5/16-18-BSW	7.93800	8.0000	22.0000	72.0000	9.0000
ITFBWR05	3/8-16-BSW	9.52500	10.0000	24.0000	80.0000	11.0000
ITFBWR06	3/16-32-BSF	4.76200	5.0000	16.0000	58.0000	7.0000
ITFBWR07	7/32-28-BSF	5.55600	5.6000	17.0000	62.0000	7.0000
ITFBWR08	1/4-26-BSF	6.35000	6.3000	19.0000	66.0000	8.0000
ITFBWR09	9/32-26-BSF	7.14400	7.1000	19.0000	66.0000	8.0000
ITFBWR10	5/16-22-BSF	7.93800	8.0000	22.0000	72.0000	9.0000
ITFBWR11	3/8-20-BSF	9.52500	10.0000	24.0000	80.0000	11.0000

## FULL-DIAMETER UNIFIED COURSE (UNC) THREADS SHANK TAPS WITH RECESS



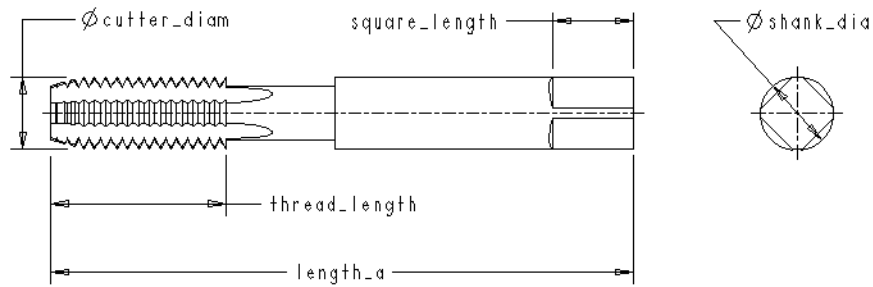
### Generic Part Name: ITFDSR

#### Notes:

1. Corresponds to standard ISO 529 - 1975 (E).

Instance Name	DESIGNATION	cutter_diam	shank_dia	thread_length	length_a	square_length
ITFDSR01	NO.4-40-UNC	2.84500	3.1500	11.0000	48.0000	5.0000
ITFDSR02	NO.5-40-UNC	3.17500	3.1500	11.0000	48.0000	5.0000
ITFDSR03	NO.6-32-UNC	3.50500	3.5500	13.0000	50.0000	5.0000
ITFDSR04	NO.8-32-UNC	4.16600	4.5000	13.0000	53.0000	6.0000
ITFDSR05	NO.10-24-UNC	4.82600	5.0000	16.0000	58.0000	7.0000
ITFDSR06	NO.12-24-UNC	5.48600	5.6000	17.0000	62.0000	7.0000
ITFDSR07	1/4-20-UNC	6.35000	6.3000	19.0000	66.0000	8.0000
ITFDSR08	5/16-18-UNC	7.93800	8.0000	22.0000	72.0000	9.0000
ITFDSR09	3/8-16-UNC	9.52500	10.0000	24.0000	80.0000	11.0000

# **FULL-DIAMETER COARSE PITCH METRIC THREADS SHANK TAPS WITH RECESS**



## **Generic Part Name: ITFDWR**

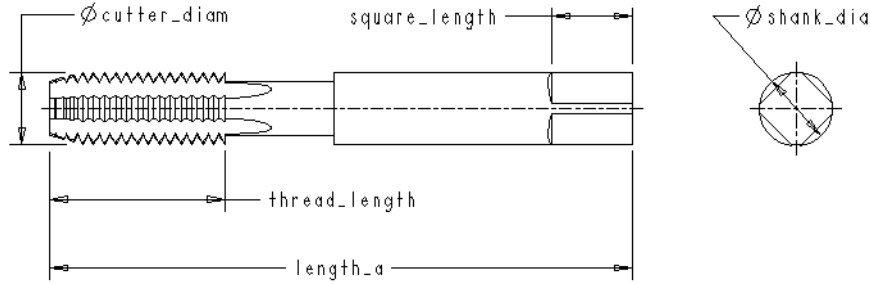
### **Notes:**

1. Corresponds to standard ISO 529 - 1975 (E).

Instance Name	DESIGNATION	cutter_diam	shank_dia	thread_length	length_a	square_length
ITFDWR01	M3	3.0000	3.1500	11.0000	48.0000	5.0000
ITFDWR02	M3.5	3.5000	3.5500	13.0000	50.0000	5.0000
ITFDWR03	M4	4.0000	4.0000	13.0000	53.0000	6.0000
ITFDWR04	M4.5	4.5000	4.5000	13.0000	53.0000	6.0000
ITFDWR05	M5	5.0000	5.0000	16.0000	58.0000	7.0000
ITFDWR06	M6	6.0000	6.3000	19.0000	66.0000	8.0000
ITFDWR07	M7	7.0000	7.1000	19.0000	66.0000	8.0000
ITFDWR08	M8	8.0000	8.0000	22.0000	72.0000	9.0000
ITFDWR09	M9	9.0000	9.0000	22.0000	72.0000	10.0000
ITFDWR10	M10	10.0000	10.0000	24.0000	80.0000	11.0000

## ISO TAPS

### FULL-DIAMETER UNIFIED FINE (UNF) THREADS SHANK TAPS WITH RECESS



#### Generic Part Name: ITFSTR

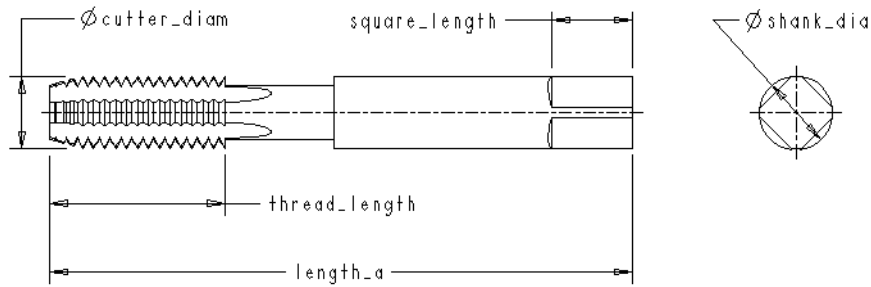
##### Notes:

1. Corresponds to standard ISO 529 - 1975 (E).

Instance Name	DESIGNATION	cutter_diam	shank_dia	thread_length	length_a	square_length
ITFSTR01	NO.4-48-UNF	2.84500	3.1500	11.0000	48.0000	5.0000
ITFSTR02	NO.5-44-UNF	3.17500	3.1500	11.0000	48.0000	5.0000
ITFSTR03	NO.6-40-UNF	3.50500	3.5500	13.0000	50.0000	5.0000
ITFSTR04	NO.8-36-UNF	4.16600	4.5000	13.0000	53.0000	6.0000
ITFSTR05	NO.10-32-UNF	4.82600	5.0000	16.0000	58.0000	7.0000
ITFSTR06	NO.12-28-UNF	5.48600	5.6000	17.0000	62.0000	7.0000
ITFSTR07	1/4-28-UNF	6.35000	6.3000	19.0000	66.0000	8.0000
ITFSTR08	5/16-24-UNF	7.93800	8.0000	19.0000	69.0000	9.0000
ITFSTR09	3/8-24-UNF	9.52500	10.0000	20.0000	76.0000	11.0000

## ISO TAPS

### FULL-DIAMETER FINE PITCH METRIC THREADS SHANK TAPS WITH RECESS



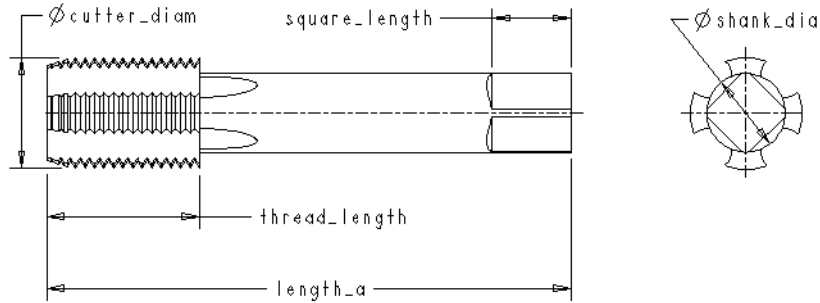
#### Generic Part Name: ITFSWR

##### Notes:

1. Corresponds to standard ISO 529 - 1975 (E).

Instance Name	DESIGNATION	cutter_diam	shank_dia	thread_length	length_a	square_length
ITFSWR01	M3X0.35	3.0000	3.1500	11.0000	48.0000	5.0000
ITFSWR02	M3.5X0.35	3.5000	3.5500	13.0000	50.0000	5.0000
ITFSWR03	M4X0.5	4.0000	4.0000	13.0000	53.0000	6.0000
ITFSWR04	M4.5X0.5	4.5000	4.5000	13.0000	53.0000	6.0000
ITFSWR05	M5X0.5	5.0000	5.0000	16.0000	58.0000	7.0000
ITFSWR06	M5.5X0.5	5.5000	5.6000	17.0000	62.0000	7.0000
ITFSWR07	M6X0.75	6.0000	6.3000	19.0000	66.0000	8.0000
ITFSWR08	M7X0.75	7.0000	7.1000	19.0000	66.0000	8.0000
ITFSWR09	M8X1	8.0000	8.0000	19.0000	69.0000	9.0000
ITFSWR10	M9X1	9.0000	9.0000	19.0000	69.0000	10.0000
ITFSWR11	M10X1	10.0000	10.0000	20.0000	76.0000	11.0000
ITFSWR12	M10X1.25	10.0000	10.0000	20.0000	76.0000	11.0000

## UNIFIED FINE (UNF) THREADS RELIEVED-SHANK TAPS



### Generic Part Name: ITRDSH

#### Notes:

1. Corresponds to standard ISO 529 - 1975 (E).

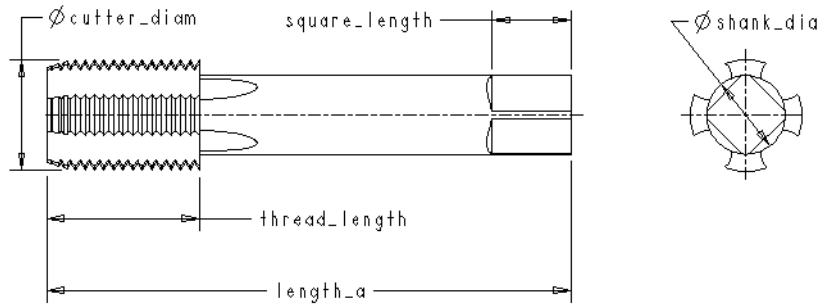
Instance Name	DESIGNATION	cutter_diam	shank_dia	thread_length	length_a	square_length
ITRDSH01	NO.5-44-UNF	3.1750	2.240	11.000	48.000	4.0000
ITRDSH02	NO.6-40-UNF	3.5050	2.500	13.000	50.000	4.0000
ITRDSH03	NO.8-36-UNF	4.1660	3.150	13.000	53.000	5.0000
ITRDSH04	NO.10-32-UNF	4.8260	3.550	16.000	58.000	5.0000
ITRDSH05	NO.12-28-UNF	5.4860	4.000	17.000	62.000	6.0000
ITRDSH06	1/4-28-UNF	6.3500	4.500	19.000	66.000	6.0000
ITRDSH07	5/16-24-UNF	7.9380	6.300	19.000	69.000	8.0000
ITRDSH08	3/8-24-UNF	9.5250	7.100	20.000	76.000	8.0000
ITRDSH09	7/16-20-UNF	11.112	8.000	22.000	82.000	9.0000
ITRDSH10	1/2-20-UNF	12.700	9.000	24.000	84.000	10.0000
ITRDSH11	9/16-18-UNF	14.288	11.200	25.000	90.000	12.0000
ITRDSH12	5/8-18-UNF	15.875	12.500	25.000	95.000	13.0000
ITRDSH13	3/4-16-UNF	19.050	14.000	29.000	104.00	14.0000
ITRDSH14	7/8-14-UNF	22.225	16.000	33.000	113.00	16.0000
ITRDSH15	1-12-UNF	25.400	18.000	35.000	120.00	18.0000
ITRDSH16	1-1/8-12-UNF	28.575	20.000	37.000	127.00	20.0000
ITRDSH17	1-1/4-12-UNF	31.750	22.400	37.000	137.00	22.0000

## ISO TAPS

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Instance Name	DESIGNATION	cutter_diam	shank_dia	thread_length	length_a	square_length
ITRDSH18	1-3/8-12-UNF	34.925	25.000	39.000	144.00	24.0000
ITRDSH19	1-1/2-12-UNF	38.100	28.000	39.000	149.00	26.0000

## BRITISH ASSOCIATION THREADS RELIEVED-SHANK TAPS



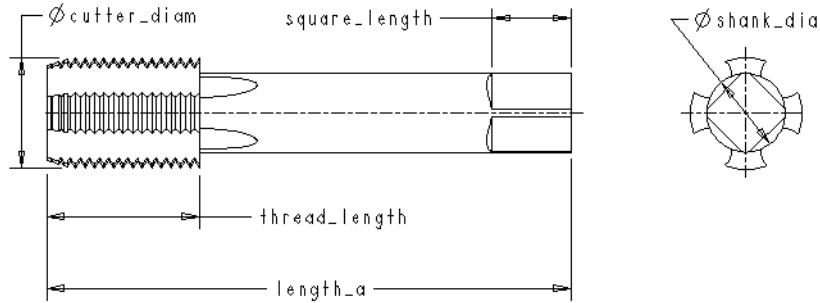
### Generic Part Name: ITRDSK

#### Notes:

1. Corresponds to standard ISO 529 - 1975 (E).

Instance Name	DESIGNATION	cutter_diam	shank_dia	thread_length	length_a	square_length
ITRDSK01	BA NO. 5	3.20000	2.24000	11.0000	48.0000	4.00000
ITRDSK02	BA NO. 4	3.60000	2.50000	13.0000	50.0000	4.00000
ITRDSK03	BA NO. 3	4.10000	3.15000	13.0000	53.0000	5.00000
ITRDSK04	BA NO. 2	4.70000	3.55000	16.0000	58.0000	5.00000
ITRDSK05	BA NO. 1	5.30000	4.00000	17.0000	62.0000	6.00000
ITRDSK06	BA NO. 0	6.00000	4.50000	19.0000	66.0000	6.00000

## BRITISH STANDARD RELIEVED-SHANK TAPS



### Generic Part Name: ITRLDS

#### Notes:

1. Corresponds to standard ISO 529 - 1975 (E).

Instance Name	DESIGNATION	cutter_diam	shank_dia	thread_length	length_a	square_length
ITRLDS01	1/8-40-BSW	3.175	2.2400	11.0000	48.000	4.0000
ITRLDS02	3/16-24-BSW	4.762	3.5500	16.0000	58.000	5.0000
ITRLDS03	1/4-20-BSW	6.350	4.5000	19.0000	66.000	6.0000
ITRLDS04	5/16-18-BSW	7.938	6.3000	22.0000	72.000	8.0000
ITRLDS05	3/8-16-BSW	9.525	7.1000	24.0000	80.000	8.0000
ITRLDS06	7/16-14-BSW	11.112	8.0000	25.0000	85.000	9.0000
ITRLDS07	1/2-12-BSW	12.700	9.0000	29.0000	89.000	10.0000
ITRLDS08	9/16-12-BSW	14.288	11.2000	30.0000	95.000	12.0000
ITRLDS09	5/8-11-BSW	15.875	12.5000	32.0000	102.000	13.0000
ITRLDS10	11/16-11-BSW	17.462	14.0000	37.0000	112.000	14.0000
ITRLDS11	3/4-10-BSW	19.050	14.0000	37.0000	112.000	14.0000
ITRLDS12	7/8-9-BSW	22.225	16.0000	38.0000	118.000	16.0000
ITRLDS13	1-8-BSW	25.400	18.0000	45.0000	130.000	18.0000
ITRLDS14	1-1/8-7-BSW	28.575	20.0000	48.0000	138.000	20.0000
ITRLDS15	1-1/4-7-BSW	31.750	22.4000	51.0000	151.000	22.0000
ITRLDS16	1-1/2-6-BSW	38.100	28.0000	60.0000	170.000	26.0000
ITRLDS17	1-3/4-5-BSW	44.450	31.5000	67.0000	187.000	28.0000
ITRLDS18	2-4-1/2-BSW	44.450	31.5000	67.0000	187.000	28.0000

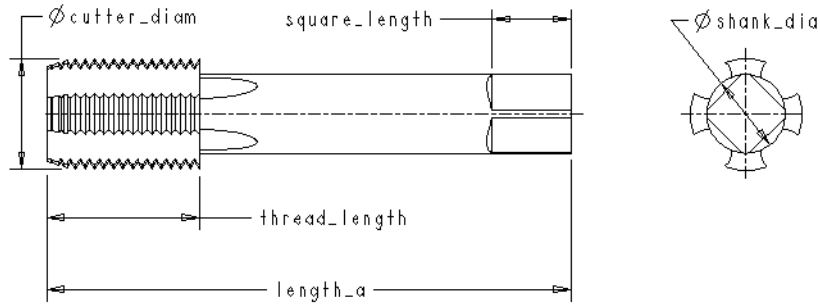
# ISO TAPS

Instance Name	DESIGNATION	cutter_diam	shank_dia	thread_length	length_a	square_length
ITRLDS19	2-1/4-4-BSW	57.150	40.0000	76.0000	221.000	34.0000
ITRLDS20	2-1/2-4-BSW	63.500	40.0000	79.0000	224.000	34.0000
ITRLDS21	2-3/4-3-1/2-BSW	69.850	45.0000	79.0000	234.000	38.0000
ITRLDS22	3-3-1/2-BSW	76.200	50.0000	83.0000	258.000	42.0000
ITRLDS23	3-1/4-3-1/4-BSW	82.550	50.0000	86.0000	261.000	42.0000
ITRLDS24	3-1/2-3-1/4-BSW	88.900	50.0000	86.0000	261.000	42.0000
ITRLDS25	3-3/4-3-BSW	95.250	56.0000	89.0000	279.000	46.0000
ITRLDS26	4-3-BSW	101.600	56.0000	89.0000	279.000	46.0000
ITRLDS27	3/16-32-BSF	4.762	3.5500	16.0000	58.000	5.0000
ITRLDS28	7/32-28-BSF	5.556	4.0000	17.0000	62.000	6.0000
ITRLDS29	1/4-26-BSF"	6.350	4.5000	19.0000	66.000	6.0000
ITRLDS30	9/32-26-BSF"	7.144	5.6000	19.0000	66.000	7.0000
ITRLDS31	5/16-22-BSF	7.938	6.3000	22.0000	72.000	8.0000
ITRLDS32	3/8-20-BSF	9.525	7.1000	24.0000	80.000	8.0000
ITRLDS33	7/16-18-BSF	11.112	8.0000	25.0000	85.000	9.0000
ITRLDS34	1/2-16-BSF	12.700	9.0000	29.0000	89.000	10.0000
ITRLDS35	9/16-16-BSF	14.288	11.2000	30.0000	95.000	12.0000
ITRLDS36	5/8-14-BSF	15.875	12.5000	32.0000	102.000	13.0000
ITRLDS37	11/16-14-BSF	17.462	14.0000	37.0000	112.000	14.0000
ITRLDS38	3/4-12-BSF	19.050	14.0000	37.0000	112.000	14.0000
ITRLDS39	7/8-11-BSF	22.225	16.0000	38.0000	118.000	16.0000
ITRLDS40	1-10-BSF	25.400	18.0000	45.0000	130.000	18.0000
ITRLDS41	1-1/8-9-BSF	28.575	20.0000	48.0000	138.000	20.0000
ITRLDS42	1-1/4-9-BSF	31.750	22.4000	51.0000	151.000	22.0000
ITRLDS43	1-3/8-8-BSF	34.925	25.0000	57.0000	162.000	24.0000
ITRLDS44	1-1/2-8-BSF	38.100	28.0000	60.0000	170.000	26.0000
ITRLDS45	1-5/8-8-BSF	41.275	28.0000	60.0000	170.000	26.0000
ITRLDS46	1-3/4-7-BSF	44.450	31.5000	67.0000	187.000	28.0000
ITRLDS47	2-7-BSF	50.800	35.5000	70.0000	200.000	31.0000
ITRLDS48	2-1/4-6-BSF	57.150	40.0000	76.0000	221.000	34.0000

## ISO TAPS

Instance Name	DESIGNATION	cutter_diam	shank_dia	thread_length	length_a	square_length
ITRLDS49	2-1/2-6-BSF	63.500	40.0000	79.0000	224.000	34.0000
ITRLDS50	2-3/4-6-BSF	69.850	45.0000	79.0000	234.000	38.0000
ITRLDS51	3-5-BSF	76.200	50.0000	83.0000	258.000	42.0000
ITRLDS52	3-1/4-5-BSF	82.550	50.0000	86.0000	261.000	42.0000
ITRLDS53	3-1/2-4-1/2-BSF	88.900	50.0000	86.0000	261.000	42.0000
ITRLDS54	3-3/4-4-1/2-BSF	95.250	56.0000	89.0000	279.000	46.0000
ITRLDS55	4-4-1/2-BSF	101.600	56.0000	89.0000	279.000	46.0000

## FINE PITCH METRIC THREADS RELIEVED-SHANK TAPS



### Generic Part Name: ITRLSH

#### Notes:

1. Corresponds to standard ISO 529 - 1975 (E).

Instance Name	DESIGNATION	cutter_diam	shank_dia	thread_length	length_a	square_length
ITRLSH01	M3X0.35	3.000	2.2400	11.0000	48.000	4.0000
ITRLSH02	M3.5X0.35	3.500	2.5000	13.0000	50.000	4.0000
ITRLSH03	M4X0.5	4.000	3.1500	13.0000	53.000	5.0000
ITRLSH04	M4.5X0.5	4.500	3.5500	13.0000	53.000	5.0000
ITRLSH05	M5X0.5	5.000	4.0000	16.0000	58.000	6.0000
ITRLSH06	M5.5X0.5	5.500	4.0000	17.0000	62.000	6.0000
ITRLSH07	M6X0.75	6.000	4.5000	19.0000	66.000	6.0000
ITRLSH08	M7X0.75	7.000	5.6000	19.0000	66.000	7.0000
ITRLSH09	M8X1	8.000	6.3000	19.0000	69.000	8.0000
ITRLSH10	M9X1	9.000	7.1000	19.0000	69.000	8.0000
ITRLSH11	M10X1	10.000	8.0000	20.0000	76.000	9.0000
ITRLSH12	M10X1.25	10.000	8.0000	20.0000	76.000	9.0000
ITRLSH13	M12X1.25	12.000	9.0000	24.0000	84.000	10.0000
ITRLSH14	M12X1.5	12.000	9.0000	29.0000	89.000	10.0000
ITRLSH15	M14X1.25	14.000	11.2000	25.0000	90.000	12.0000
ITRLSH16	M14X1.5	14.000	11.2000	30.0000	95.000	12.0000
ITRLSH17	M15X1.5	15.000	11.2000	30.0000	95.000	12.0000

## ISO TAPS

Instance Name	DESIGNATION	cutter_diam	shank_dia	thread_length	length_a	square_length
ITRLSH18	M16X1.5	16.000	12.5000	32.0000	102.000	13.0000
ITRLSH19	M17X1.5	17.000	12.5000	32.0000	102.000	13.0000
ITRLSH20	M18X1.5	18.000	14.0000	29.0000	104.000	14.0000
ITRLSH21	M18X2	18.000	14.0000	37.0000	112.000	14.0000
ITRLSH22	M20X1.5	20.000	14.0000	29.0000	104.000	14.0000
ITRLSH23	M20X2	20.000	14.0000	37.0000	112.000	14.0000
ITRLSH24	M22X1.5	22.000	16.0000	33.0000	113.000	16.0000
ITRLSH25	M22X2	22.000	16.0000	38.0000	118.000	16.0000
ITRLSH26	M24X1.5	24.000	18.0000	35.0000	120.000	18.0000
ITRLSH27	M24X2	24.000	18.0000	35.0000	120.000	18.0000
ITRLSH28	M25X1.5	25.000	18.0000	35.0000	120.000	18.0000
ITRLSH29	M25X2	25.000	18.0000	35.0000	120.000	18.0000
ITRLSH30	M27X1.5	27.000	20.0000	37.0000	127.000	20.0000
ITRLSH31	M27X2	27.000	20.0000	37.0000	127.000	20.0000
ITRLSH32	M28X1.5	28.000	20.0000	37.0000	127.000	20.0000
ITRLSH33	M28X2	28.000	20.0000	37.0000	127.000	20.0000
ITRLSH34	M30X1.5	30.000	20.0000	37.0000	127.000	20.0000
ITRLSH35	M30X2	30.000	20.0000	37.0000	127.000	20.0000
ITRLSH36	M30X3	30.000	20.0000	48.0000	138.000	20.0000
ITRLSH37	M32X1.5	32.000	22.4000	37.0000	137.000	22.0000
ITRLSH38	M32X2	32.000	22.4000	37.0000	137.000	22.0000
ITRLSH39	M33X1.5	33.000	22.4000	37.0000	137.000	22.0000
ITRLSH40	M33X2	33.000	22.4000	37.0000	137.000	22.0000
ITRLSH41	M33X3	33.000	22.4000	51.0000	151.000	22.0000
ITRLSH42	M35X1.5	35.000	25.0000	39.0000	144.000	24.0000
ITRLSH43	M36X1.5	36.000	25.0000	39.0000	144.000	24.0000
ITRLSH44	M36X2	36.000	25.0000	39.0000	144.000	24.0000
ITRLSH45	M36X3	36.000	25.0000	57.0000	162.000	24.0000
ITRLSH46	M39X1.5	39.000	28.0000	39.0000	149.000	26.0000
ITRLSH47	M39X2	39.000	28.0000	39.0000	149.000	26.0000

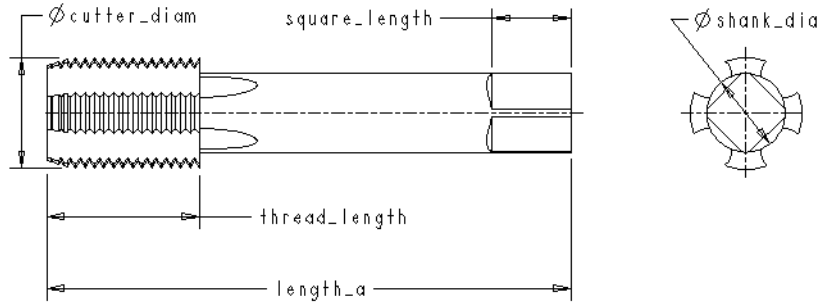
## ISO TAPS

Instance Name	DESIGNATION	cutter_diam	shank_dia	thread_length	length_a	square_length
ITRLSH48	M39X3	39.000	28.0000	60.0000	170.000	26.0000
ITRLSH49	M40X1.5	40.000	28.0000	39.0000	149.000	26.0000
ITRLSH50	M40X2	40.000	28.0000	39.0000	149.000	26.0000
ITRLSH51	M40X3	40.000	28.0000	60.0000	170.000	26.0000
ITRLSH52	M42X1.5	42.000	28.0000	39.0000	149.000	26.0000
ITRLSH53	M42X2	42.000	28.0000	39.0000	149.000	26.0000
ITRLSH54	M42X3	42.000	28.0000	60.0000	170.000	26.0000
ITRLSH55	M42X4	42.000	28.0000	60.0000	170.000	26.0000
ITRLSH56	M45X1.5	45.000	31.5000	45.0000	165.000	28.0000
ITRLSH57	M45X2	45.000	31.5000	45.0000	165.000	28.0000
ITRLSH58	M45X3	45.000	31.5000	67.0000	187.000	28.0000
ITRLSH59	M45X4	45.000	31.5000	67.0000	187.000	28.0000
ITRLSH60	M48X1.5	48.000	31.5000	45.0000	165.000	28.0000
ITRLSH61	M48X2	48.000	31.5000	45.0000	165.000	28.0000
ITRLSH62	M48X3	48.000	31.5000	67.0000	187.000	28.0000
ITRLSH63	M48X4	48.000	31.5000	67.0000	187.000	28.0000
ITRLSH64	M50X1.5	50.000	31.5000	45.0000	165.000	28.0000
ITRLSH65	M50X2	50.000	31.5000	45.0000	165.000	28.0000
ITRLSH66	M50X3	50.000	31.5000	67.0000	187.000	28.0000
ITRLSH67	M52X1.5	52.000	35.5000	45.0000	175.000	31.0000
ITRLSH68	M52X2	52.000	35.5000	45.0000	175.000	31.0000
ITRLSH69	M52X3	52.000	35.5000	70.0000	200.000	31.0000
ITRLSH70	M52X4	52.000	35.5000	70.0000	200.000	31.0000
ITRLSH71	M55X1.5	55.000	35.5000	45.0000	175.000	31.0000
ITRLSH72	M55X2	55.000	35.5000	45.0000	175.000	31.0000
ITRLSH73	M55X3	55.000	35.5000	70.0000	200.000	31.0000
ITRLSH74	M55X4	55.000	35.5000	70.0000	200.000	31.0000
ITRLSH75	M56X1.5	56.000	35.5000	45.0000	175.000	31.0000
ITRLSH76	M56X2	56.000	35.5000	45.0000	175.000	31.0000
ITRLSH77	M56X3	56.000	35.5000	70.0000	200.000	31.0000

## ISO TAPS

Instance Name	DESIGNATION	cutter_diam	shank_dia	thread_length	length_a	square_length
ITRLSH78	M56X4	56.000	35.5000	70.0000	200.000	31.0000
ITRLSH79	M70X6	70.000	45.0000	79.0000	234.000	38.0000
ITRLSH80	M72X6	72.000	45.0000	79.0000	234.000	38.0000
ITRLSH81	M75X6	75.000	45.0000	79.0000	234.000	38.0000
ITRLSH82	M76X6	76.000	50.0000	83.0000	258.000	42.0000
ITRLSH83	M80X6	80.000	50.0000	83.0000	258.000	42.0000
ITRLSH84	M85X6	85.000	50.0000	86.0000	261.000	42.0000
ITRLSH85	M90X6	90.000	50.0000	86.0000	261.000	42.0000
ITRLSH86	M95X6	95.000	56.0000	89.0000	279.000	46.0000
ITRLSH87	M100X6	100.000	56.0000	89.0000	279.000	46.0000

## COARSE PITCH METRIC THREADS RELIEVED-SHANK TAPS



### Generic Part Name: ITRLVT

#### Notes:

1. Corresponds to standard ISO 529 - 1975 (E).

Instance Name	DESIGNATION	cutter_diam	shank_dia	thread_length	length_a	square_length
ITRLVT01	1/8-40-BSW	3.175	2.2400	11.0000	48.000	4.0000
ITRLVT02	3/16-24-BSW	4.762	3.5500	16.0000	58.000	5.0000
ITRLVT03	1/4-20-BSW	6.350	4.5000	19.0000	66.000	6.0000
ITRLVT04	5/16-18-BSW	7.938	6.3000	22.0000	72.000	8.0000
ITRLVT05	3/8-16-BSW	9.525	7.1000	24.0000	80.000	8.0000
ITRLVT06	7/16-14-BSW	11.112	8.0000	25.0000	85.000	9.0000
ITRLVT07	1/2-12-BSW	12.700	9.0000	29.0000	89.000	10.0000
ITRLVT08	9/16-12-BSW	14.288	11.2000	30.0000	95.000	12.0000
ITRLVT09	5/8-11-BSW	15.875	12.5000	32.0000	102.000	13.0000
ITRLVT10	11/16-11-BSW	17.462	14.0000	37.0000	112.000	14.0000
ITRLVT11"	3/4-10-BSW	19.050	14.0000	37.0000	112.000	14.0000
ITRLVT12	7/8-9-BSW	22.225	16.0000	38.0000	118.000	16.0000
ITRLVT13	1-8-BSW	25.400	18.0000	45.0000	130.000	18.0000
ITRLVT14	1-1/8-7-BSW	28.575	20.0000	48.0000	138.000	20.0000
ITRLVT15	1-1/4-7-BSW	31.750	22.4000	51.0000	151.000	22.0000
ITRLVT16	1-1/2-6-BSW	38.100	28.0000	60.0000	170.000	26.0000
ITRLVT17	1-3/4-5-BSW	44.450	31.5000	67.0000	187.000	28.0000
ITRLVT18	2-4-1/2-BSW	44.450	31.5000	67.0000	187.000	28.0000

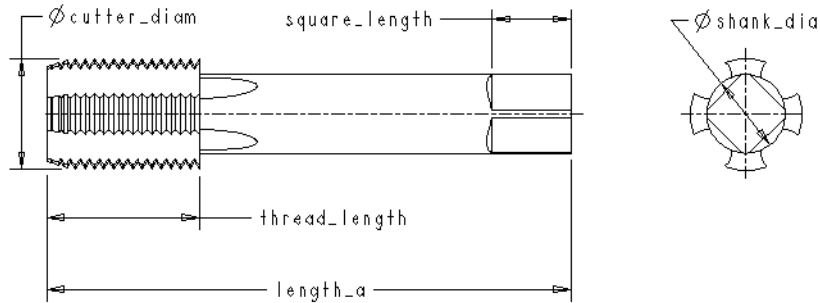
## ISO TAPS

Instance Name	DESIGNATION	cutter_diam	shank_dia	thread_length	length_a	square_length
ITRLVT19	2-1/4-4-BSW	57.150	40.0000	76.0000	221.000	34.0000
ITRLVT20	2-1/2-4-BSW	63.500	40.0000	79.0000	224.000	34.0000
ITRLVT21	2-3/4-3-1/2-BSW	69.850	45.0000	79.0000	234.000	38.0000
ITRLVT22	3-3-1/2-BSW	76.200	50.0000	83.0000	258.000	42.0000
ITRLVT23	3-1/4-3-1/4-BSW	82.550	50.0000	86.0000	261.000	42.0000
ITRLVT24	3-1/2-3-1/4-BSW	88.900	50.0000	86.0000	261.000	42.0000
ITRLVT25	3-3/4-3-BSW	95.250	56.0000	89.0000	279.000	46.0000
ITRLVT26	4-3-BSW	101.600	56.0000	89.0000	279.000	46.0000
ITRLVT27	3/16-32-BSF	4.762	3.5500	16.0000	58.000	5.0000
ITRLVT28	7/32-28-BSF	5.556	4.0000	17.0000	62.000	6.0000
ITRLVT29	1/4-26-BSF	6.350	4.5000	19.0000	66.000	6.0000
ITRLVT30	9/32-26-BSF	7.144	5.6000	19.0000	66.000	7.0000
ITRLVT31	5/16-22-BSF	7.938	6.3000	22.0000	72.000	8.0000
ITRLVT32	3/8-20-BSF	9.525	7.1000	24.0000	80.000	8.0000
ITRLVT33	7/16-18-BSF	11.112	8.0000	25.0000	85.000	9.0000
ITRLVT34	1/2-16-BSF	12.700	9.0000	29.0000	89.000	10.0000
ITRLVT35	9/16-16-BSF	14.288	11.2000	30.0000	95.000	12.0000
ITRLVT36	5/8-14-BSF	15.875	12.5000	32.0000	102.000	13.0000
ITRLVT37	11/16-14-BSF	17.462	14.0000	37.0000	112.000	14.0000
ITRLVT38	3/4-12-BSF	19.050	14.0000	37.0000	112.000	14.0000
ITRLVT39	7/8-11-BSF	22.225	16.0000	38.0000	118.000	16.0000
ITRLVT40	1-10-BSF	25.400	18.0000	45.0000	130.000	18.0000
ITRLVT41	1-1/8-9-BSF	28.575	20.0000	48.0000	138.000	20.0000
ITRLVT42	1-1/4-9-BSF	31.750	22.4000	51.0000	151.000	22.0000
ITRLVT43	1-3/8-8-BSF	34.925	25.0000	57.0000	162.000	24.0000
ITRLVT44	1-1/2-8-BSF	38.100	28.0000	60.0000	170.000	26.0000
ITRLVT45	1-5/8-8-BSF	41.275	28.0000	60.0000	170.000	26.0000
ITRLVT46	1-3/4-7-BSF	44.450	31.5000	67.0000	187.000	28.0000
ITRLVT47	2-7-BSF	50.800	35.5000	70.0000	200.000	31.0000
ITRLVT48	2-1/4-6-BSF	57.150	40.0000	76.0000	221.000	34.0000

## ISO TAPS

Instance Name	DESIGNATION	cutter_diam	shank_dia	thread_length	length_a	square_length
ITRLVT49	2-1/2-6-BSF	63.500	40.0000	79.0000	224.000	34.0000
ITRLVT50	2-3/4-6-BSF	69.850	45.0000	79.0000	234.000	38.0000
ITRLVT51	3-5-BSF	76.200	50.0000	83.0000	258.000	42.0000
ITRLVT52	3-1/4-5-BSF	82.550	50.0000	86.0000	261.000	42.0000
ITRLVT53	3-1/2-4-1/2-BSF	88.900	50.0000	86.0000	261.000	42.0000
ITRLVT54	3-3/4-4-1/2-BSF	95.250	56.0000	89.0000	279.000	46.0000
ITRLVT55	4-4-1/2-BSF	101.600	56.0000	89.0000	279.000	46.0000

## UNIFIED COARSE (UNC) THREADS RELIEVED-SHANK TAPS



### Generic Part Name: ITRSHK

#### Notes:

1. Corresponds to standard ISO 529 - 1975 (E).

Instance Name	DESIGNATION	cutter_diam	shank_dia	thread_length	length_a	square_length
ITRSHK01	1/8-40-BSW	3.175	2.2400	11.0000	48.000	4.0000
ITRSHK02	3/16-24-BSW	4.762	3.5500	16.0000	58.000	5.0000
ITRSHK03	1/4-20-BSW	6.350	4.5000	19.0000	66.000	6.0000
ITRSHK04	5/16-18-BSW	7.938	6.3000	22.0000	72.000	8.0000
ITRSHK05	3/8-16-BSW	9.525	7.1000	24.0000	80.000	8.0000
ITRSHK06	7/16-14-BSW	11.112	8.0000	25.0000	85.000	9.0000
ITRSHK07	1/2-12-BSW	12.700	9.0000	29.0000	89.000	10.0000
ITRSHK08	9/16-12-BSW	14.288	11.2000	30.0000	95.000	12.0000
ITRSHK09	5/8-11-BSW	15.875	12.5000	32.0000	102.000	13.0000
ITRSHK10	11/16-11-BSW	17.462	14.0000	37.0000	112.000	14.0000
ITRSHK11	3/4-10-BSW	19.050	14.0000	37.0000	112.000	14.0000
ITRSHK12	7/8-9-BSW	22.225	16.0000	38.0000	118.000	16.0000
ITRSHK13	1-8-BSW	25.400	18.0000	45.0000	130.000	18.0000
ITRSHK14	1-1/8-7-BSW	28.575	20.0000	48.0000	138.000	20.0000
ITRSHK15	1-1/4-7-BSW	31.750	22.4000	51.0000	151.000	22.0000
ITRSHK16	1-1/2-6-BSW	38.100	28.0000	60.0000	170.000	26.0000
ITRSHK17	1-3/4-5-BSW	44.450	31.5000	67.0000	187.000	28.0000

## ISO TAPS

Instance Name	DESIGNATION	cutter_diam	shank_dia	thread_length	length_a	square_length
ITRSHK18	2-4-1/2-BSW	44.450	31.5000	67.0000	187.000	28.0000
ITRSHK19	2-1/4-4-BSW	57.150	40.0000	76.0000	221.000	34.0000
ITRSHK20	2-1/2-4-BSW	63.500	40.0000	79.0000	224.000	34.0000
ITRSHK21	2-3/4-3-1/2-BSW	69.850	45.0000	79.0000	234.000	38.0000
ITRSHK22	3-3-1/2-BSW	76.200	50.0000	83.0000	258.000	42.0000
ITRSHK23	3-1/4-3-1/4-BSW	82.550	50.0000	86.0000	261.000	42.0000
ITRSHK24	3-1/2-3-1/4-BSW	88.900	50.0000	86.0000	261.000	42.0000
ITRSHK25	3-3/4-3-BSW	95.250	56.0000	89.0000	279.000	46.0000
ITRSHK26	4-3-BSW	101.600	56.0000	89.0000	279.000	46.0000
ITRSHK27	3/16-32-BSF	4.762	3.5500	16.0000	58.000	5.0000
ITRSHK28	7/32-28-BSF	5.556	4.0000	17.0000	62.000	6.0000
ITRSHK29	1/4-26-BSF	6.350	4.5000	19.0000	66.000	6.0000
ITRSHK30	9/32-26-BSF	7.144	5.6000	19.0000	66.000	7.0000
ITRSHK31	5/16-22-BSF	7.938	6.3000	22.0000	72.000	8.0000
ITRSHK32	3/8-20-BSF	9.525	7.1000	24.0000	80.000	8.0000
ITRSHK33	7/16-18-BSF	11.112	8.0000	25.0000	85.000	9.0000
ITRSHK34	1/2-16-BSF	12.700	9.0000	29.0000	89.000	10.0000
ITRSHK35	9/16-16-BSF	14.288	11.2000	30.0000	95.000	12.0000
ITRSHK36	5/8-14-BSF	15.875	12.5000	32.0000	102.000	13.0000
ITRSHK37	11/16-14-BSF	17.462	14.0000	37.0000	112.000	14.0000
ITRSHK38	3/4-12-BSF	19.050	14.0000	37.0000	112.000	14.0000
ITRSHK39	7/8-11-BSF	22.225	16.0000	38.0000	118.000	16.0000
ITRSHK40	1-10-BSF	25.400	18.0000	45.0000	130.000	18.0000
ITRSHK41	1-1/8-9-BSF	28.575	20.0000	48.0000	138.000	20.0000
ITRSHK42	1-1/4-9-BSF	31.750	22.4000	51.0000	151.000	22.0000
ITRSHK43	1-3/8-8-BSF	34.925	25.0000	57.0000	162.000	24.0000
ITRSHK44	1-1/2-8-BSF	38.100	28.0000	60.0000	170.000	26.0000
ITRSHK45	1-5/8-8-BSF	41.275	28.0000	60.0000	170.000	26.0000
ITRSHK46	1-3/4-7-BSF	44.450	31.5000	67.0000	187.000	28.0000
ITRSHK47	2-7-BSF	50.800	35.5000	70.0000	200.000	31.0000

## ISO TAPS

Instance Name	DESIGNATION	cutter_diam	shank_dia	thread_length	length_a	square_length
ITRSHK48	2-1/4-6-BSF	57.150	40.0000	76.0000	221.000	34.0000
ITRSHK49	2-1/2-6-BSF	63.500	40.0000	79.0000	224.000	34.0000
ITRSHK50	2-3/4-6-BSF	69.850	45.0000	79.0000	234.000	38.0000
ITRSHK51	3-5-BSF	76.200	50.0000	83.0000	258.000	42.0000
ITRSHK52	3-1/4-5-BSF	82.550	50.0000	86.0000	261.000	42.0000
ITRSHK53	3-1/2-4-1/2-BSF	88.900	50.0000	86.0000	261.000	42.0000
ITRSHK54	3-3/4-4-1/2-BSF	95.250	56.0000	89.0000	279.000	46.0000
ITRSHK55	4-4-1/2-BSF	101.600	56.0000	89.0000	279.000	46.0000

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**SECTION II**  
**FIXTURES LIBRARY**

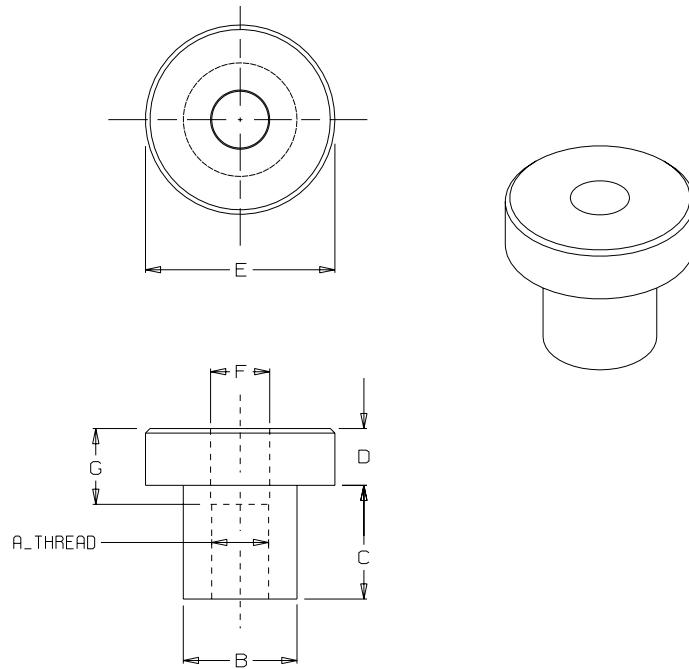
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# KNOBS

## KNURLED KNOB



## Generic Part Name: KK

### Notes:

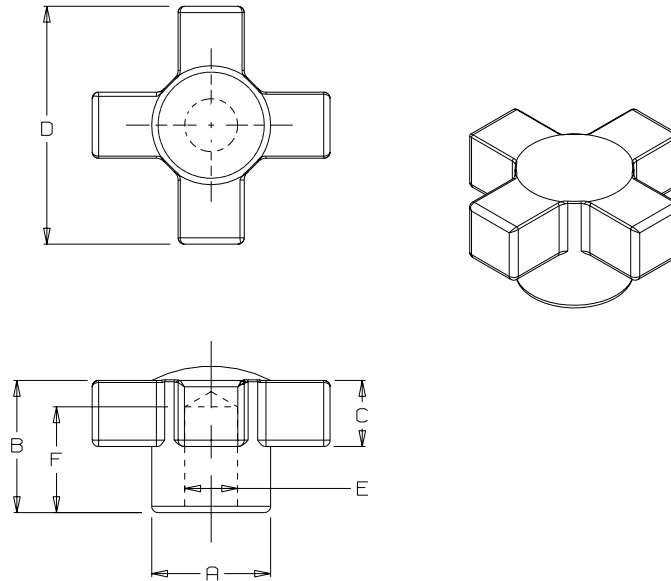
1. “\*” denotes a non-existent value.

Instance Name	A_THREAD Thread Diameter	Threads Per Inch	B Knob Dia.	C Knob Height	D Head Height	E Head Dia.	F Cbore Dia.	G Cbore Height	Cut
KK1	0.1900	24	0.3750	0.2500	0.1875	0.5000	*	*	N (blank)
KK2	0.1900	24	0.3750	0.5000	0.1875	0.5000	0.2031	0.2500	Y (tapped)
KK3	0.1900	24	0.3750	0.2500	0.1875	1.0000	*	*	N (blank)
KK4	0.1900	24	0.3750	0.5000	0.1875	1.0000	0.2031	0.2500	Y (tapped)
KK5	0.1900	32	0.3750	0.2500	0.1875	0.5000	*	*	N (blank)
KK6	0.1900	32	0.3750	0.5000	0.1875	0.5000	0.2031	0.2500	Y (tapped)
KK7	0.1900	32	0.3750	0.2500	0.1875	1.0000	*	*	N (blank)
KK8	0.1900	32	0.3750	0.5000	0.1875	1.0000	0.2031	0.2500	Y (tapped)
KK9	0.2500	20	0.5000	0.2500	0.2500	0.7500	*	*	N (blank)
KK10	0.2500	20	0.5000	0.2500	0.2500	1.0000	*	*	N (blank)
KK11	0.2500	20	0.5000	0.5000	0.2500	1.0000	0.2656	0.2500	Y (tapped)
KK12	0.2500	20	0.5000	0.7500	0.2500	1.0000	0.2656	0.5000	Y (tapped)
KK13	0.3125	18	0.6250	0.5000	0.3125	1.2500	0.3281	0.2500	Y (tapped)
KK14	0.3125	18	0.6250	0.7500	0.3125	1.2500	0.3281	0.5000	Y (tapped)

## KNOBS

<b>Instance Name</b>	<b>A_THREAD</b> Thread Diameter	<b>Threads Per Inch</b>	<b>B</b> Knob Dia.	<b>C</b> Knob Height	<b>D</b> Head Height	<b>E</b> Head Dia.	<b>F</b> Cbore Dia.	<b>G</b> Cbore Height	<b>Cut</b>
KK15	0.3750	16	0.7500	0.5000	0.3750	1.2500	0.3906	0.2500	Y (tapped)
KK16	0.3750	16	0.7500	0.7500	0.3750	1.2500	0.3906	0.5000	Y (tapped)

## HAND KNOB



### Generic Part Name: HK

#### Notes:

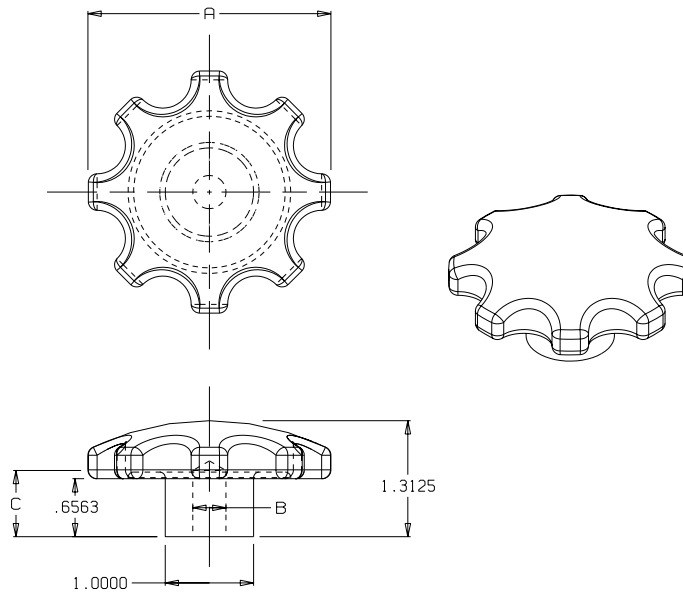
1. “\*” denotes a non-existent value.

Instance Name	A Knob Dia.	B Knob Height	C Wing Height	D Knob Width	E Thread Dia.	F Thread Height	G Thread/Inch	Cut
HK1	0.5625	0.6250	0.3125	1.1250	*	*	0	N (blank)
HK2	0.5625	0.6250	0.3125	1.1250	0.2500	1.0000	20	Y (tapped)
HK3	0.5625	0.6250	0.3125	1.1250	0.2500	0.5000	20	Y (tapped)
HK4	0.5625	0.6250	0.3125	1.1250	0.2500	0.5000	0	Y (reamed)
HK5	0.7500	0.8750	0.3750	1.7500	*	*	0	N (blank)
HK6	0.7500	0.8750	0.3750	1.7500	0.2500	1.5000	20	Y (tapped)
HK7	0.7500	0.8750	0.3750	1.7500	0.2500	0.8750	20	Y (tapped)
HK8	0.7500	0.8750	0.3750	1.7500	0.2500	0.8750	0	Y (reamed)
HK9	0.7500	0.8750	0.3750	1.7500	0.3125	1.5000	18	Y (tapped)
HK10	0.7500	0.8750	0.3750	1.7500	0.3125	0.8750	18	Y (tapped)
HK11	0.7500	0.8750	0.3750	1.7500	0.3125	0.8750	0	Y (reamed)
HK12	1.0000	1.0625	0.4375	2.2500	*	*	0	N (blank)
HK13	1.0000	1.0625	0.4375	2.2500	0.3750	2.0000	16	Y (tapped)
HK14	1.0000	1.0625	0.4375	2.2500	0.3750	1.0000	16	Y (tapped)
HK15	1.0000	1.0625	0.4375	2.2500	0.3750	0.8500	0	Y (reamed)
HK16	1.0000	1.0625	0.4375	2.2500	0.5000	2.0000	13	Y (tapped)

## KNOBS

<b>Instance Name</b>	<b>A</b> Knob Dia.	<b>B</b> Knob Height	<b>C</b> Wing Height	<b>D</b> Knob Width	<b>E</b> Thread Dia.	<b>F</b> Thread Height	<b>G</b> Thread/ Inch	<b>Cut</b>
HK17	1.0000	1.0625	0.4375	2.2500	0.5000	1.0000	13	Y (tapped)
HK18	1.0000	1.0625	0.4375	2.2500	0.5000	1.0000	0	Y (reamed)
HK19	1.1250	1.5000	0.5000	2.5000	*	*	0	N (blank)
HK20	1.1250	1.5000	0.5000	2.5000	0.5000	1.2000	13	Y (tapped)
HK21	1.1250	1.5000	0.5000	2.5000	0.5000	1.2500	13	Y (tapped)
HK22	1.1250	1.5000	0.5000	2.5000	0.5000	1.2500	0	Y (reamed)
HK23	1.1250	1.5000	0.5000	2.5000	0.6250	2.0000	11	Y (tapped)
HK24	1.1250	1.5000	0.5000	2.5000	0.6250	1.2500	11	Y (tapped)
HK25	1.1250	1.5000	0.5000	2.5000	0.6250	1.2000	0	Y (reamed)
HK26	1.2500	1.2500	0.5000	2.7500	*	*	0	N (blank)
HK27	1.2500	1.2500	0.5000	2.7500	0.6250	2.0000	11	Y (tapped)
HK28	1.2500	1.2500	0.5000	2.7500	0.6250	1.1250	11	Y (tapped)
HK29	1.2500	1.2500	0.5000	2.7500	0.6250	1.1250	0	Y (reamed)
HK30	1.2500	1.2500	0.5000	2.7500	0.7500	2.0000	10	Y (tapped)
HK31	1.2500	1.2500	0.5000	2.7500	0.7500	1.1250	10	Y (tapped)
HK32	1.2500	1.2500	0.5000	2.7500	0.7500	1.1250	0	Y (reamed)

## PALM GRIP HAND KNOB



### Generic Part Name: PGHK

#### Notes:

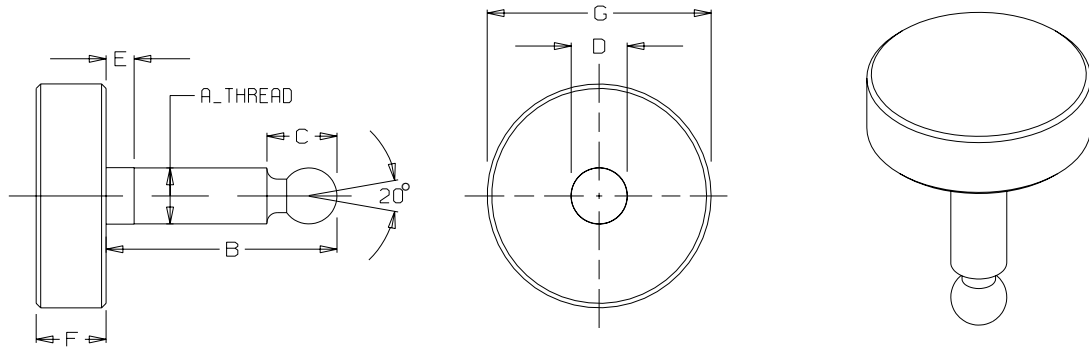
1. “\*” denotes a non-existent value.

Instance Name	A Knob Dia.	B Thread Dia.	C Thread Depth	Cut	Threads Per Inch
PGHK1	2.7500	*	*	N (blank)	*
PGHK2	2.7500	0.3750	0.7500	Y (tapped)	16
PGHK3	2.7500	0.3750	0.8750	Y (reamed)	0
PGHK4	2.7500	0.5000	0.7500	Y (tapped)	13
PGHK5	2.7500	0.5000	0.8750	Y (reamed)	0
PGHK6	3.1250	*	*	N (blank)	*
PGHK7	3.1250	0.5000	0.7500	Y (tapped)	13
PGHK8	3.1250	0.5000	0.8750	Y (reamed)	0
PGHK9	3.1250	0.6250	0.7500	Y (tapped)	11
PGHK10	3.1250	0.6250	1.0000	Y (reamed)	0

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# SWIVEL HEAD SCREWS

## BALL FOOT SWIVEL HEAD SCREW



### Generic Part Name: BF

#### Notes:

1. “\*” denotes a non-existent value.

Instance Name	A_THREAD Thread Dia.	Threads Per Inch	B Foot Length	C Ball Distance	D Ball Dia.	E Thread Distance	F Head Height	G Head Dia.
BF1	0.2500	20	1.0313	0.3125	0.2500	0.1250	0.3125	1.0000
BF2	*	*	1.5312	*	*	*	*	*
BF3	*	*	2.0313	*	*	*	*	*
BF4	*	*	3.0938	*	*	*	*	*
BF5	0.3125	18	1.0156	0.3594	0.3125	0.1875	0.3750	1.1250
BF6	0.3125	18	1.5156	0.3594	0.3125	0.1875	0.3750	1.1250
BF7	0.3125	18	2.0156	0.3594	0.3125	0.1875	0.3750	1.1250
BF8	0.3125	18	3.0156	0.3594	0.3125	0.1875	0.3750	1.1250
BF9	0.3750	16	1.5625	0.4375	0.3750	0.1875	0.4375	1.2500
BF10	0.3750	16	2.0625	0.4375	0.3750	0.1875	0.4375	1.2500
BF11	0.3750	16	3.0625	0.4375	0.3750	0.1875	0.4375	1.2500
BF12	0.3750	16	4.0625	0.4375	0.3750	0.1875	0.4375	1.2500
BF13	0.5000	13	1.5938	0.5625	0.5000	0.1875	0.5000	1.2500
BF14	0.5000	13	2.0938	0.5625	0.5000	0.1875	0.5000	1.2500
BF15	0.5000	13	3.0938	0.5625	0.5000	0.1875	0.5000	1.2500
BF16	0.5000	13	4.0938	0.5625	0.5000	0.1875	0.5000	1.2500
BF17	0.6250	11	2.1250	0.6875	0.6250	0.1875	0.5000	1.2500
BF18	0.6250	11	3.1250	0.6875	0.6250	0.1875	0.5000	1.2500
BF19	0.6250	11	4.1250	0.6875	0.6250	0.1875	0.5000	1.2500
BF20	0.6250	11	5.1250	0.6875	0.6250	0.1875	0.5000	1.2500

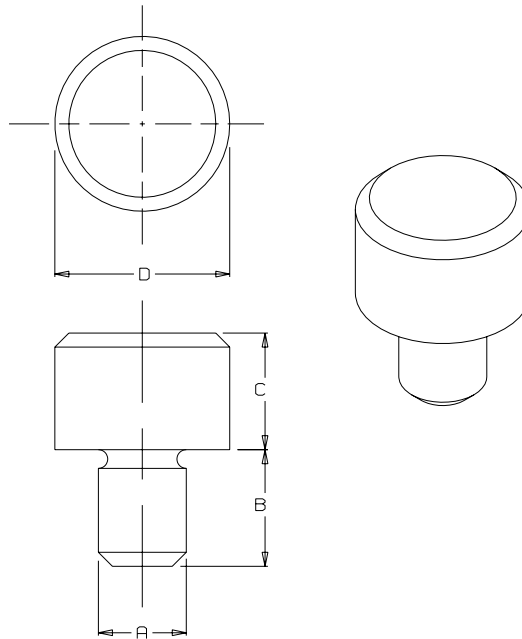
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# BUTTONS AND JACKS

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## REST BUTTONS



### Generic Part Name: RB

Instance Name	A Button Dia.	B Button Height	C Head Height	D Head Dia.
RB1	0.1885	0.2500	0.2500	0.3750
RB2	0.1885	0.3750	0.2500	0.3750
RB3	0.1885	0.2500	0.3750	0.3750
RB4	0.1885	0.3750	0.3750	0.3750
RB5	0.1885	0.2500	0.5000	0.3750
RB6	0.1885	0.3750	0.5000	0.3750
RB7	0.2510	0.3125	0.2500	0.5000
RB8	0.2510	0.5000	0.2500	0.5000
RB9	0.2510	0.5000	0.3750	0.5000
RB10	0.2510	0.5000	0.5000	0.5000
RB11	0.3135	0.3125	0.7500	0.5000
RB12	0.3760	0.6250	0.2500	0.6250
RB13	0.3760	0.6250	0.3750	0.6250
RB14	0.3760	0.6250	0.5000	0.6250
RB15	0.3760	0.6250	0.6250	0.6250

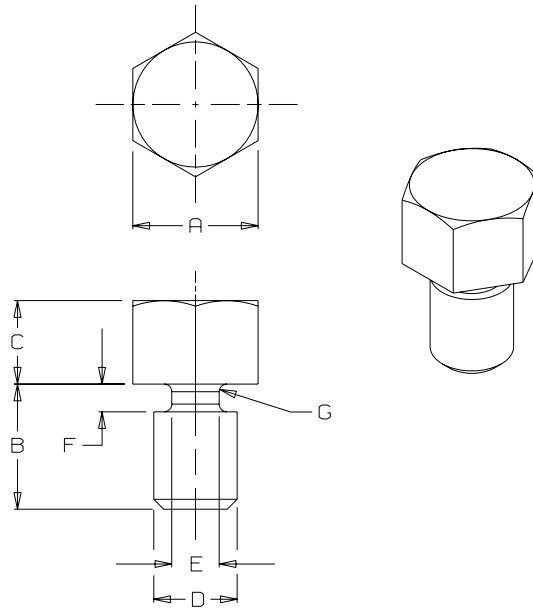
## BUTTONS AND JACKS

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<b>Instance Name</b>	<b>A Button Dia.</b>	<b>B Button Height</b>	<b>C Head Height</b>	<b>D Head Dia.</b>
RB16	0.3760	0.6250	0.7500	0.6250
RB17	0.5010	0.6250	0.3750	0.8750
RB18	0.5010	0.6250	0.5000	0.8750
RB19	0.5010	0.6250	0.6250	0.8750
RB20	0.6260	0.7500	0.3750	1.0000
RB21	0.6260	0.7500	0.5000	1.0000
RB22	0.6260	0.7500	0.7500	1.0000
RB23	0.7515	0.8750	0.5000	1.2500
RB24	0.7515	0.8750	0.6250	1.2500

## BUTTONS AND JACKS

### SCREW REST BUTTON

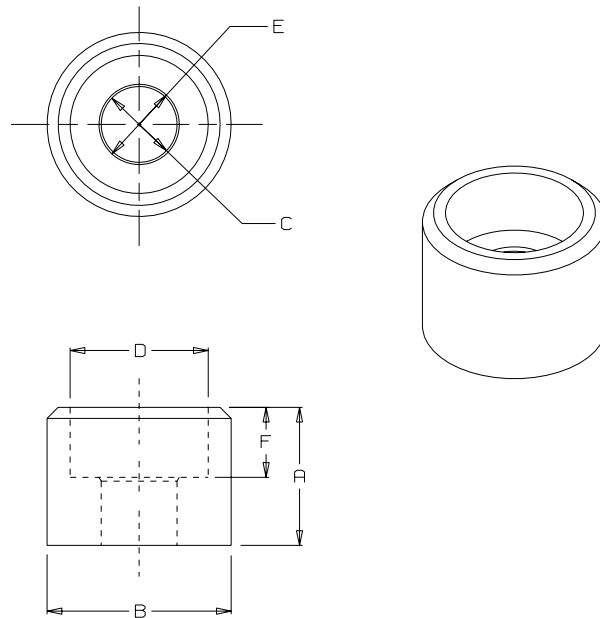


**Generic Part Name: SRB**

Instance Name	A Flat	B Thread Height	C Hex Height	D Thread Dia.	E Neck Dia.	F Neck Width	G Neck Fillet	Threads Per Inch
SRB1	0.3750	0.3750	0.2500	0.2500	0.1420	0.0830	0.0230	20
SRB2	0.3750	0.3750	0.3750	0.2500	0.1420	0.0830	0.0230	20
SRB3	0.3750	0.3750	0.5000	0.2500	0.1420	0.0830	0.0230	20
SRB4	0.3750	0.3750	0.7500	0.2500	0.1420	0.0830	0.0230	20
SRB5	0.3750	0.3750	1.0000	0.2500	0.1420	0.0830	0.0230	20
SRB6	0.5000	0.5000	0.2500	0.3750	0.2490	0.1110	0.0310	16
SRB7	0.5000	0.5000	0.3750	0.3750	0.2490	0.1110	0.0310	16
SRB8	0.5000	0.5000	0.5000	0.3750	0.2490	0.1110	0.0310	16
SRB9	0.5000	0.5000	0.7500	0.3750	0.2490	0.1110	0.0310	16
SRB10	0.5000	0.5000	1.0000	0.3750	0.2490	0.1110	0.0310	16
SRB11	0.6250	0.6250	0.2500	0.5000	0.3040	0.1250	0.0350	13
SRB12	0.6250	0.6250	0.3750	0.5000	0.3040	0.1250	0.0350	13
SRB13	0.6250	0.6250	0.5000	0.5000	0.3040	0.1250	0.0350	13
SRB14	0.6250	0.6250	0.6250	0.5000	0.3040	0.1250	0.0350	13
SRB15	0.6250	0.6250	0.7500	0.5000	0.3040	0.1250	0.0350	13
SRB16	0.6250	0.6250	1.0000	0.5000	0.3040	0.1250	0.0350	13

# BUTTONS AND JACKS

## JIG REST BUTTON

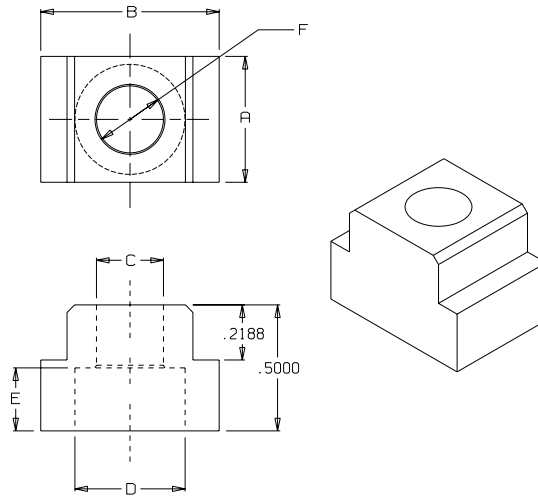


### Generic Part Name: JRB

Instance Name	A Button Height	B Button Diameter	C Socket Diameter	D Counterbore Diameter	E Countersink Diameter	F Counterbore Height
JRB1	0.3750	0.5000	0.2060	0.3750	0.2180	0.1900
JRB2	0.5000	0.5000	0.2060	0.3750	0.2180	0.1900
JRB3	0.2500	0.6250	0.2060	0.3750	0.2180	0.1900
JRB4	0.3750	0.6250	0.2660	0.4375	0.2780	0.2500
JRB5	0.5000	0.6250	0.2660	0.4375	0.2780	0.2500
JRB6	0.6250	0.6250	0.2660	0.4375	0.2780	0.2500
JRB7	0.7500	0.6250	0.2660	0.4375	0.2780	0.2500
JRB8	1.0000	0.6250	0.2660	0.4375	0.2780	0.2500
JRB9	0.3750	0.8750	0.2660	0.4375	0.2780	0.2500
JRB10	0.5000	0.8750	0.3280	0.5312	0.3460	0.3120
JRB11	0.6250	0.8750	0.3280	0.5312	0.3460	0.3120
JRB12	0.7500	0.8750	0.3280	0.5312	0.3460	0.3120
JRB13	1.0000	0.8750	0.3280	0.5312	0.3460	0.3120
JRB14	0.7500	1.2500	0.3910	0.6250	0.4150	0.3750
JRB15	1.0000	1.2500	0.3910	0.6250	0.4150	0.3750
JRB16	1.5000	1.2500	0.3910	0.6250	0.4150	0.3750
JRB17	2.0000	1.2500	0.3910	0.6250	0.4150	0.3750

# KEYS AND PINS

## STEP FIXTURE KEY



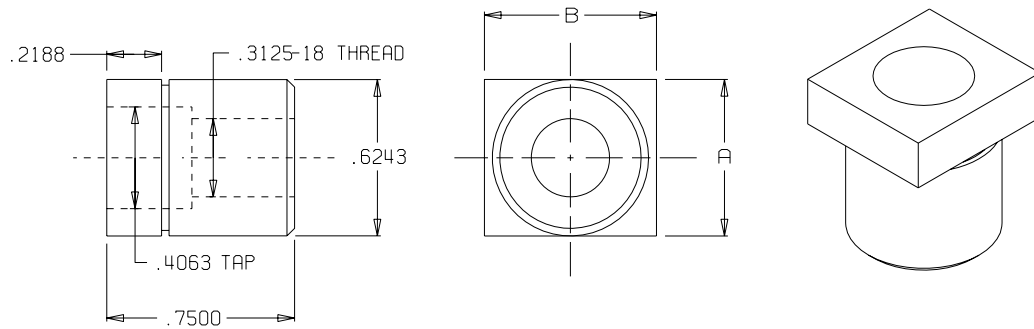
**Generic Part Name: SFK**

Instance Name	Fix. Slot (Inch)	Fix. Slot (mm)	Table Slot (Inch)	Table Slot (mm)	Basic Screw Dia.	A Fix. Length	B Fix. Width	C Nom. Hole Size	D Cbore Dia.	E Cbore Depth	F Csink Dia.
SFK1	0.500	12.700	0.438	11.113	0.250	0.5000	0.4375	0.2660	0.4375	0.2500	0.2780
SFK2	0.500	12.700	0.563	14.287	0.250	0.5000	0.5625	0.2660	0.4375	0.2500	0.2780
SFK3	0.500	12.700	0.625	15.875	0.250	0.5000	0.6250	0.2660	0.4375	0.2500	0.2780
SFK4	0.500	12.700	0.688	17.462	0.250	0.5000	0.6875	0.2660	0.4375	0.2500	0.2780
SFK5	0.500	12.700	0.472	12.000	0.250	0.5000	0.4724	0.2660	0.4375	0.2500	0.2780
SFK6	0.500	12.700	0.551	14.000	0.250	0.5000	0.5512	0.2660	0.4375	0.2500	0.2780
SFK7	0.500	12.700	0.630	16.000	0.250	0.5000	0.6299	0.2660	0.4375	0.2500	0.2780
SFK8	0.500	12.700	0.709	18.000	0.250	0.5000	0.7087	0.2660	0.4375	0.2500	0.2780
SFK9	0.563	14.287	0.438	11.113	0.250	0.5625	0.4375	0.2660	0.4375	0.2500	0.2780
SFK10	0.563	14.287	0.500	12.700	0.250	0.5625	0.5000	0.2660	0.4375	0.2500	0.2780
SFK11	0.563	14.287	0.688	17.462	0.250	0.5625	0.6250	0.2660	0.4375	0.2500	0.2780
SFK12	0.563	14.287	0.472	12.000	0.250	0.5625	0.4724	0.2660	0.4375	0.2500	0.2780
SFK13	0.563	14.287	0.551	14.000	0.250	0.5625	0.5512	0.2660	0.4375	0.2500	0.2780
SFK14	0.563	14.287	0.630	16.000	0.250	0.5625	0.6299	0.2660	0.4375	0.2500	0.2780
SFK15	0.625	15.875	0.500	12.700	0.313	0.6250	0.5000	0.3280	0.5312	0.3120	0.3460
SFK16	0.625	15.875	0.563	14.287	0.313	0.6250	0.5625	0.3280	0.5312	0.3120	0.3460
SFK17	0.625	15.875	0.688	17.462	0.313	0.6250	0.6875	0.3280	0.5312	0.3120	0.3460
SFK18	0.625	15.875	0.750	19.050	0.313	0.6250	0.7500	0.3280	0.5312	0.3120	0.3460

## KEYS AND PINS

Instance Name	Fix. Slot (Inch)	Fix. Slot (mm)	Table Slot (Inch)	Table Slot (mm)	Basic Screw Dia.	A Fix. Length	B Fix. Width	C Nom. Hole Size	D Cbore Dia.	E Cbore Depth	F Csink Dia.
SFK19	0.625	15.875	0.813	20.637	0.313	0.6250	0.8125	0.3280	0.5312	0.3120	0.3460
SFK20	0.625	15.875	0.472	12.000	0.313	0.6250	0.4724	0.3280	0.5312	0.3120	0.3460
SFK21	0.625	15.875	0.551	14.000	0.313	0.6250	0.5512	0.3280	0.5312	0.3120	0.3460
SFK22	0.625	15.875	0.630	16.000	0.313	0.6250	0.6299	0.3280	0.5312	0.3120	0.3460
SFK23	0.625	15.875	0.709	18.000	0.313	0.6250	0.7087	0.3280	0.5312	0.3120	0.3460
SFK24	0.625	15.875	0.787	20.000	0.313	0.6250	0.7874	0.3280	0.5312	0.3120	0.3460
SFK25	0.688	17.462	0.563	14.287	0.313	0.6875	0.5625	0.3280	0.5312	0.3120	0.3460
SFK26	0.688	17.462	0.625	15.875	0.313	0.6875	0.6250	0.3280	0.5312	0.3120	0.3460
SFK27	0.688	17.462	0.750	19.050	0.313	0.6875	0.7500	0.3280	0.5312	0.3120	0.3460
SFK28	0.688	17.462	0.813	20.637	0.313	0.6875	0.8125	0.3280	0.5312	0.3120	0.3460
SFK29	0.688	17.462	0.630	16.000	0.313	0.6875	0.6299	0.3280	0.5312	0.3120	0.3460
SFK30	0.688	17.462	0.709	18.000	0.313	0.6875	0.7087	0.3280	0.5312	0.3120	0.3460
SFK31	0.688	17.462	0.787	20.000	0.313	0.6875	0.7874	0.3280	0.5312	0.3120	0.3460
SFK32	0.750	19.050	0.625	15.875	0.313	0.7500	0.6250	0.3280	0.5312	0.3120	0.3460
SFK33	0.750	19.050	0.688	17.462	0.313	0.7500	0.6875	0.3280	0.5312	0.3120	0.3460
SFK34	0.750	19.050	0.813	20.637	0.313	0.7500	0.8125	0.3280	0.5312	0.3120	0.3460
SFK35	0.750	19.050	0.709	18.000	0.313	0.7500	0.7087	0.3280	0.5312	0.3120	0.3460
SFK36	0.750	19.050	0.787	20.000	0.313	0.7500	0.7874	0.3280	0.5312	0.3120	0.3460
SFK37	0.813	20.637	0.688	17.462	0.313	0.8125	0.6875	0.3280	0.5312	0.3120	0.3460
SFK38	0.813	20.637	0.750	19.050	0.313	0.8125	0.7500	0.3280	0.5312	0.3120	0.3460
SFK39	0.813	20.637	0.709	18.000	0.313	0.8125	0.7087	0.3280	0.5312	0.3120	0.3460
SFK40	0.813	20.637	0.787	20.000	0.313	0.8125	0.7874	0.3280	0.5312	0.3120	0.3460
SFK41	0.787	20.000	0.500	12.700	0.236	0.7874	0.5000	0.2520	0.4429	0.2362	0.2677
SFK42	0.787	20.000	0.563	14.287	0.236	0.7874	0.5625	0.2520	0.4429	0.2362	0.2677
SFK43	0.787	20.000	0.625	15.875	0.236	0.7874	0.6250	0.2520	0.4429	0.2362	0.2677
SFK44	0.787	20.000	0.688	17.462	0.236	0.7874	0.6875	0.2520	0.4429	0.2362	0.2677
SFK45	0.787	20.000	0.750	19.050	0.236	0.7874	0.7500	0.2520	0.4429	0.2362	0.2677
SFK46	0.787	20.000	0.813	20.637	0.236	0.7874	0.8125	0.2520	0.4429	0.2362	0.2677
SFK47	0.787	20.000	0.630	16.000	0.236	0.7874	0.6299	0.2520	0.4429	0.2362	0.2677
SFK48	0.787	20.000	0.709	18.000	0.236	0.7874	0.7087	0.2520	0.4429	0.2362	0.2677

## REAMED HOLE FIXTURE KEY

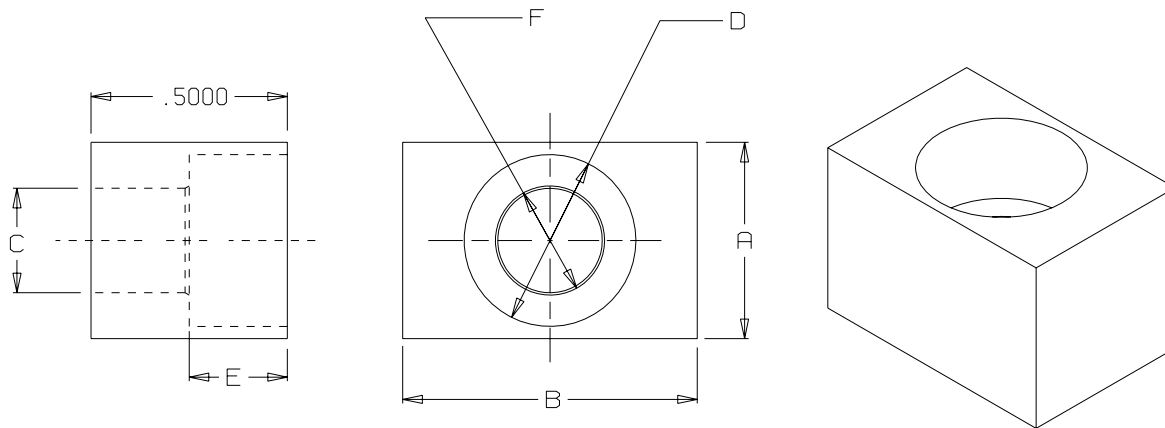


**Generic Part Name: RHFK**

Instance Name	A Fixture Width	B Fixture Length	Threads Per Inch
RHFK1	0.6250	0.6875	18
RHFK2	0.6250	0.7500	18
RHFK3	0.6250	0.8125	18
RHFK4	0.6875	0.7500	18
RHFK5	0.6875	0.8125	18
RHFK6	0.7500	0.8125	18

## KEYS AND PINS

### FIXTURE KEY

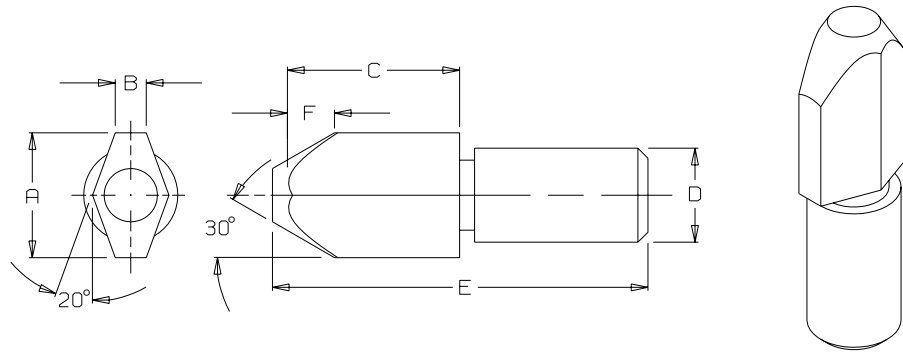


### Generic Part Name: FK

Instance Name	NOM. SCREW DIA.	A Fixture Length	B Fixture Width	C Nominal Hole Dia.	D Counterbore Diameter	E Counterbore Depth	F Countersink Diameter
FK1	0.250	0.5000	0.7500	0.2660	0.4375	0.2500	0.2780
FK2	0.250	0.5625	0.7500	0.2660	0.4375	0.2500	0.2780
FK3	0.313	0.6250	0.7500	0.3280	0.5312	0.3120	0.3460
FK4	0.313	0.6875	1.0000	0.3280	0.5312	0.3120	0.3460
FK5	0.313	0.7500	1.2500	0.3280	0.5312	0.3120	0.3460
FK6	0.313	0.8125	1.2500	0.3280	0.5312	0.3120	0.3460
FK7	0.313	1.0625	1.2500	0.3280	0.5312	0.3120	0.3460

## KEYS AND PINS

### DIAMOND PIN



### Generic Part Name: DP

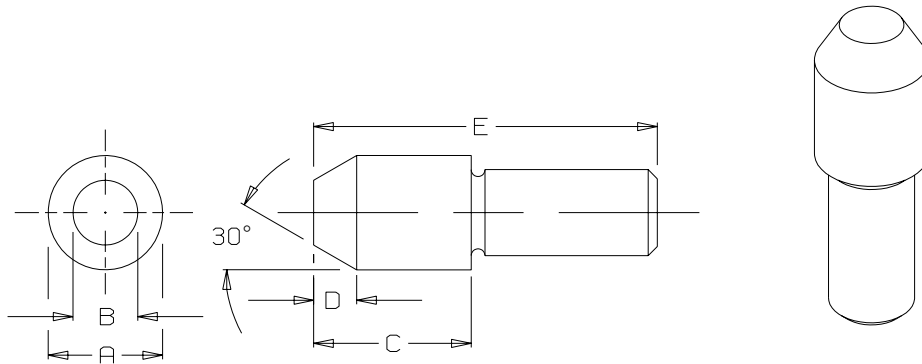
Instance Name	NOMINAL HOLE SIZE	A Diamond Length	B Diamond Width	C Diamond Height	D Pin Diameter	E Pin Height	F Cut Height
DP1	0.250	0.2493	0.0620	0.3438	0.1878	0.7500	0.0938
DP2	0.313	0.3118	0.0780	0.4062	0.2503	0.8750	0.0938
DP3	0.375	0.3743	0.0930	0.5000	0.3128	1.0000	0.1250
DP4	0.438	0.4368	0.1090	0.5938	0.3753	1.2500	0.1563
DP5	0.500	0.4993	0.1250	0.6563	0.4378	1.3750	0.1563
DP6	0.563	0.5615	0.1400	0.7500	0.5003	1.5000	0.1875
DP7	0.625	0.6240	0.1560	0.8438	0.5628	1.7500	0.2188
DP8	0.688	0.6865	0.1720	0.9063	0.6253	2.0000	0.2188
DP9	0.750	0.7490	0.1870	1.0000	0.6885	2.1250	0.2500
DP10	0.813	0.8115	0.2030	1.0938	0.7510	1.2500	0.2813
DP11	0.875	0.8740	0.2190	1.1563	0.8135	2.5000	0.2813
DP12	0.938	0.9365	0.2340	1.2500	0.8760	2.7500	0.3125
DP13	1.000	0.9980	0.2500	1.3125	0.9385	2.8750	0.3125

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## KEYS AND PINS

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### ROUND PIN

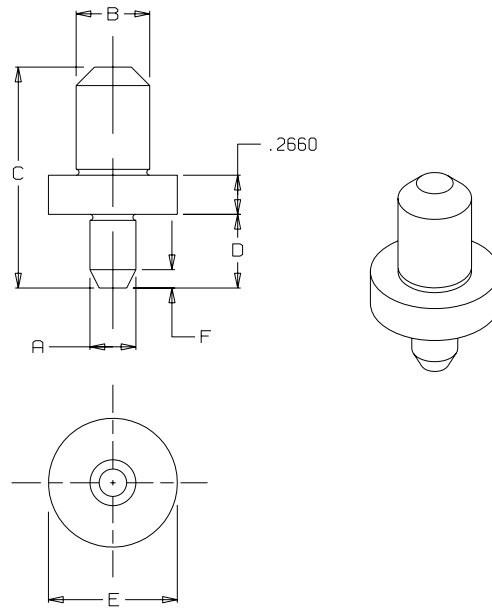


### Generic Part Name: RP

Instance Name	NOMINAL HOLE SIZE	A Pin Diameter	B Shaft Diameter	C Cap Height	D Cut Height	E Pin Height
RP1	0.250	0.2495	0.1878	0.3438	0.0938	0.7500
RP2	0.313	0.3120	0.2503	0.4063	0.0938	0.8750
RP3	0.375	0.3745	0.3128	0.5000	0.1250	1.0000
RP4	0.438	0.4370	0.3753	0.5938	0.1563	1.2500
RP5	0.500	0.4995	0.4378	0.6563	0.1563	1.3750
RP6	0.563	0.5620	0.5003	0.7500	0.1875	1.5000
RP7	0.625	0.6240	0.5628	0.8438	0.2188	1.7500
RP8	0.688	0.6865	0.6253	0.9063	0.2188	2.0000
RP9	0.750	0.7490	0.6885	1.0000	0.2500	2.1250
RP10	0.813	0.8115	0.7510	1.0938	0.2813	1.2500
RP11	0.875	0.8740	0.8135	1.1563	0.2813	2.5000
RP12	0.938	0.9365	0.8760	1.2500	0.3125	2.7500
RP13	1.000	0.9985	0.9385	1.3125	0.3125	2.8750

## KEYS AND PINS

### ROUND LOCATING PIN



### Generic Part Name: RLP

Instance Name	A Shaft Diameter	B Cap Diameter	C Pin Height	D Shaft Height	E Pin Diameter	F Cut Height
RLP1	0.1235	0.3125	1.1875	0.4375	0.6250	0.0938
RLP2	0.1245	0.3125	1.1875	0.4375	0.6250	0.0938
RLP3	0.1548	0.3125	1.1875	0.4375	0.6250	0.0938
RLP4	0.1558	0.3125	1.1875	0.4375	0.6250	0.0938
RLP5	0.1860	0.3125	1.1875	0.4375	0.6250	0.0938
RLP6	0.1870	0.3125	1.1875	0.4375	0.6250	0.0938
RLP7	0.2173	0.3125	1.1875	0.4375	0.6250	0.0938
RLP8	0.2183	0.3125	1.1875	0.4375	0.6250	0.0938
RLP9	0.2485	0.3125	1.1875	0.4375	0.6250	0.0938
RLP10	0.2495	0.3125	1.1875	0.4375	0.6250	0.0938
RLP11	0.2798	0.3125	1.1875	0.4375	0.6250	0.0938
RLP12	0.2808	0.3125	1.1875	0.4375	0.6250	0.0938
RLP13	0.3110	0.3125	1.1875	0.4375	0.6250	0.0938
RLP14	0.3120	0.3125	1.1875	0.4375	0.6250	0.0938
RLP15	0.3105	0.5000	1.5000	0.5000	0.8750	0.1250
RLP16	0.3115	0.5000	1.5000	0.5000	0.8750	0.1250
RLP17	0.3418	0.5000	1.5000	0.5000	0.8750	0.1250
RLP18	0.3428	0.5000	1.5000	0.5000	0.8750	0.1250

## KEYS AND PINS

Instance Name	A Shaft Diameter	B Cap Diameter	C Pin Height	D Shaft Height	E Pin Diameter	F Cut Height
RLP19	0.3730	0.5000	1.5000	0.5000	0.8750	0.1250
RLP20	0.3740	0.5000	1.5000	0.5000	0.8750	0.1250
RLP21	0.4043	0.5000	1.5000	0.5000	0.8750	0.1250
RLP22	0.4053	0.5000	1.5000	0.5000	0.8750	0.1250
RLP23	0.4355	0.5000	1.5000	0.5000	0.8750	0.1250
RLP24	0.4365	0.5000	1.5000	0.5000	0.8750	0.1250
RLP25	0.4668	0.5000	1.5000	0.5000	0.8750	0.1250
RLP26	0.4678	0.5000	1.5000	0.5000	0.8750	0.1250
RLP27	0.4980	0.5000	1.5000	0.5000	0.8750	0.1250
RLP28	0.4990	0.5000	1.5000	0.5000	0.8750	0.1250
RLP29	0.4980	0.7500	1.9375	0.6875	1.1250	0.1875
RLP30	0.4990	0.7500	1.9375	0.6875	1.1250	0.1875
RLP31	0.5293	0.7500	1.9375	0.6875	1.1250	0.1875
RLP32	0.5303	0.7500	1.9375	0.6875	1.1250	0.1875
RLP33	0.5605	0.7500	1.9375	0.6875	1.1250	0.1875
RLP34	0.5615	0.7500	1.9375	0.6875	1.1250	0.1875
RLP35	0.5918	0.7500	1.9375	0.6875	1.1250	0.1875
RLP36	0.5928	0.7500	1.9375	0.6875	1.1250	0.1875
RLP37	0.6230	0.7500	1.9375	0.6875	1.1250	0.1875
RLP38	0.6240	0.7500	1.9375	0.6875	1.1250	0.1875
RLP39	0.6543	0.7500	1.9375	0.6875	1.1250	0.1875
RLP40	0.6553	0.7500	1.9375	0.6875	1.1250	0.1875
RLP41	0.6855	0.7500	1.9375	0.6875	1.1250	0.1875
RLP42	0.6865	0.7500	1.9375	0.6875	1.1250	0.1875
RLP43	0.7168	0.7500	1.9375	0.6875	1.1250	0.1875
RLP44	0.7178	0.7500	1.9375	0.6875	1.1250	0.1875
RLP45	0.7480	0.7500	1.9375	0.6875	1.1250	0.1875
RLP46	0.7490	0.7500	1.9375	0.6875	1.1250	0.1875
RLP47	0.7480	1.0000	2.6250	1.0000	1.5000	0.2813
RLP48	0.7490	1.0000	2.6250	1.0000	1.5000	0.2813
RLP49	0.7793	1.0000	2.6250	1.0000	1.5000	0.2813
RLP50	0.7803	1.0000	2.6250	1.0000	1.5000	0.2813
RLP51	0.8105	1.0000	2.6250	1.0000	1.5000	0.2813
RLP52	0.8115	1.0000	2.6250	1.0000	1.5000	0.2813
RLP53	0.8418	1.0000	2.6250	1.0000	1.5000	0.2813
RLP54	0.8428	1.0000	2.6250	1.0000	1.5000	0.2813
RLP55	0.8730	1.0000	2.6250	1.0000	1.5000	0.2813
RLP56	0.8740	1.0000	2.6250	1.0000	1.5000	0.2813

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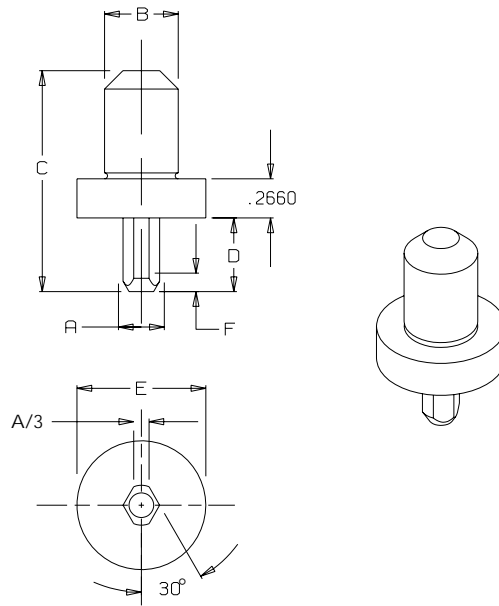
## KEYS AND PINS

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<b>Instance Name</b>	<b>A</b> Shaft Diameter	<b>B</b> Cap Diameter	<b>C</b> Pin Height	<b>D</b> Shaft Height	<b>E</b> Pin Diameter	<b>F</b> Cut Height
RLP57	0.9043	1.0000	2.6250	1.0000	1.5000	0.2813
RLP58	0.9053	1.0000	2.6250	1.0000	1.5000	0.2813
RLP59	0.9355	1.0000	2.6250	1.0000	1.5000	0.2813
RLP60	0.9365	1.0000	2.6250	1.0000	1.5000	0.2813
RLP61	0.9668	1.0000	2.6250	1.0000	1.5000	0.2813
RLP62	0.9678	1.0000	2.6250	1.0000	1.5000	0.2813
RLP63	0.9980	1.0000	2.6250	1.0000	1.5000	0.2813
RLP64	0.9990	1.0000	2.6250	1.0000	1.5000	0.2813

## KEYS AND PINS

### DIAMOND LOCATING PIN



### Generic Part Name: RDP

Instance Name	A Shaft Diameter	B Cap Diameter	C Pin Height	D Shaft Height	E Pin Diameter	F Cut Height
RDP1	0.1235	0.3125	1.1875	0.4375	0.6250	0.0938
RDP2	0.1245	0.3125	1.1875	0.4375	0.6250	0.0938
RDP3	0.1548	0.3125	1.1875	0.4375	0.6250	0.0938
RDP4	0.1558	0.3125	1.1875	0.4375	0.6250	0.0938
RDP5	0.1860	0.3125	1.1875	0.4375	0.6250	0.0938
RDP6	0.1870	0.3125	1.1875	0.4375	0.6250	0.0938
RDP7	0.2173	0.3125	1.1875	0.4375	0.6250	0.0938
RDP8	0.2183	0.3125	1.1875	0.4375	0.6250	0.0938
RDP9	0.2485	0.3125	1.1875	0.4375	0.6250	0.0938
RDP10	0.2495	0.3125	1.1875	0.4375	0.6250	0.0938
RDP11	0.2798	0.3125	1.1875	0.4375	0.6250	0.0938
RDP12	0.2808	0.3125	1.1875	0.4375	0.6250	0.0938
RDP13	0.3110	0.3125	1.1875	0.4375	0.6250	0.0938
RDP14	0.3120	0.3125	1.1875	0.4375	0.6250	0.0938
RDP15	0.3105	0.5000	1.5000	0.5000	0.8750	0.1250
RDP16	0.3115	0.5000	1.5000	0.5000	0.8750	0.1250
RDP17	0.3418	0.5000	1.5000	0.5000	0.8750	0.1250
RDP18	0.3428	0.5000	1.5000	0.5000	0.8750	0.1250

## KEYS AND PINS

Instance Name	A Shaft Diameter	B Cap Diameter	C Pin Height	D Shaft Height	E Pin Diameter	F Cut Height
RDP19	0.3730	0.5000	1.5000	0.5000	0.8750	0.1250
RDP20	0.3740	0.5000	1.5000	0.5000	0.8750	0.1250
RDP21	0.4043	0.5000	1.5000	0.5000	0.8750	0.1250
RDP22	0.4053	0.5000	1.5000	0.5000	0.8750	0.1250
RDP23	0.4355	0.5000	1.5000	0.5000	0.8750	0.1250
RDP24	0.4365	0.5000	1.5000	0.5000	0.8750	0.1250
RDP25	0.4668	0.5000	1.5000	0.5000	0.8750	0.1250
RDP26	0.4678	0.5000	1.5000	0.5000	0.8750	0.1250
RDP27	0.4980	0.5000	1.5000	0.5000	0.8750	0.1250
RDP28	0.4990	0.5000	1.5000	0.5000	0.8750	0.1250
RDP29	0.4980	0.7500	1.9375	0.6875	1.1250	0.1875
RDP30	0.4990	0.7500	1.9375	0.6875	1.1250	0.1875
RDP31	0.5293	0.7500	1.9375	0.6875	1.1250	0.1875
RDP32	0.5303	0.7500	1.9375	0.6875	1.1250	0.1875
RDP33	0.5605	0.7500	1.9375	0.6875	1.1250	0.1875
RDP34	0.5615	0.7500	1.9375	0.6875	1.1250	0.1875
RDP35	0.5918	0.7500	1.9375	0.6875	1.1250	0.1875
RDP36	0.5928	0.7500	1.9375	0.6875	1.1250	0.1875
RDP37	0.6230	0.7500	1.9375	0.6875	1.1250	0.1875
RDP38	0.6240	0.7500	1.9375	0.6875	1.1250	0.1875
RDP39	0.6543	0.7500	1.9375	0.6875	1.1250	0.1875
RDP40	0.6553	0.7500	1.9375	0.6875	1.1250	0.1875
RDP41	0.6855	0.7500	1.9375	0.6875	1.1250	0.1875
RDP42	0.6865	0.7500	1.9375	0.6875	1.1250	0.1875
RDP43	0.7168	0.7500	1.9375	0.6875	1.1250	0.1875
RDP44	0.7178	0.7500	1.9375	0.6875	1.1250	0.1875
RDP45	0.7480	0.7500	1.9375	0.6875	1.1250	0.1875
RDP46	0.7490	0.7500	1.9375	0.6875	1.1250	0.1875
RDP47	0.7480	1.0000	2.6250	1.0000	1.5000	0.2813
RDP48	0.7490	1.0000	2.6250	1.0000	1.5000	0.2813
RDP49	0.7793	1.0000	2.6250	1.0000	1.5000	0.2813
RDP50	0.7803	1.0000	2.6250	1.0000	1.5000	0.2813
RDP51	0.8105	1.0000	2.6250	1.0000	1.5000	0.2813
RDP52	0.8115	1.0000	2.6250	1.0000	1.5000	0.2813
RDP53	0.8418	1.0000	2.6250	1.0000	1.5000	0.2813
RDP54	0.8428	1.0000	2.6250	1.0000	1.5000	0.2813
RDP55	0.8730	1.0000	2.6250	1.0000	1.5000	0.2813
RDP56	0.8740	1.0000	2.6250	1.0000	1.5000	0.2813

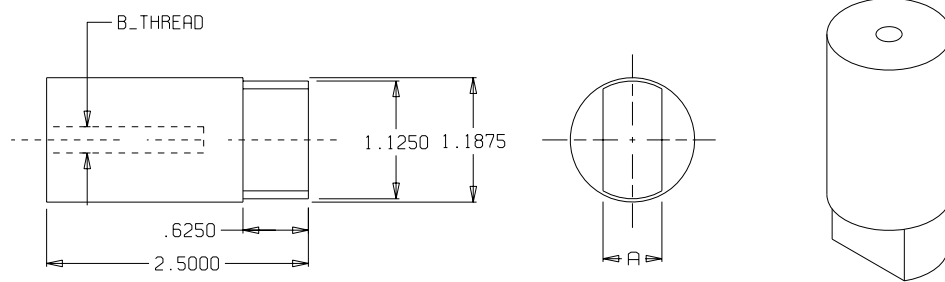
## KEYS AND PINS

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<b>Instance Name</b>	<b>A Shaft Diameter</b>	<b>B Cap Diameter</b>	<b>C Pin Height</b>	<b>D Shaft Height</b>	<b>E Pin Diameter</b>	<b>F Cut Height</b>
RDP57	0.9043	1.0000	2.6250	1.0000	1.5000	0.2813
RDP58	0.9053	1.0000	2.6250	1.0000	1.5000	0.2813
RDP59	0.9355	1.0000	2.6250	1.0000	1.5000	0.2813
RDP60	0.9365	1.0000	2.6250	1.0000	1.5000	0.2813
RDP61	0.9668	1.0000	2.6250	1.0000	1.5000	0.2813
RDP62	0.9678	1.0000	2.6250	1.0000	1.5000	0.2813
RDP63	0.9980	1.0000	2.6250	1.0000	1.5000	0.2813
RDP64	0.9990	1.0000	2.6250	1.0000	1.5000	0.2813

## KEYS AND PINS

### LOCATING KEY



### Generic Part Name: LK

Instance Name	A Slot Width	Slot Width (mm)	B_THREAD Thread Diameter	Threads Per Inch
LK1	0.5625	14.288	0.2500	20
LK2	0.6250	15.875	0.2500	20
LK3	0.6875	17.462	0.2500	20
LK4	0.7500	19.050	0.2500	20
LK5	0.8750	22.225	0.2500	20
LK6	0.5512	14.000	0.2500	20
LK7	0.6299	16.000	0.2500	20
LK8	0.7087	18.000	0.2500	20
LK9	0.7874	20.000	0.2500	20
LK10	0.8661	22.000	0.2500	20

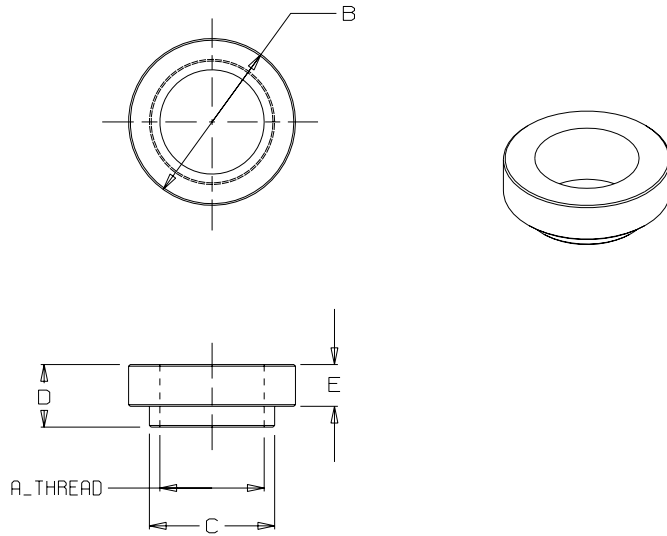
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# SPECIALIZED NUTS, BOLTS AND SCREWS

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## KNURLED CHECK NUTS



### Generic Part Name: KCN

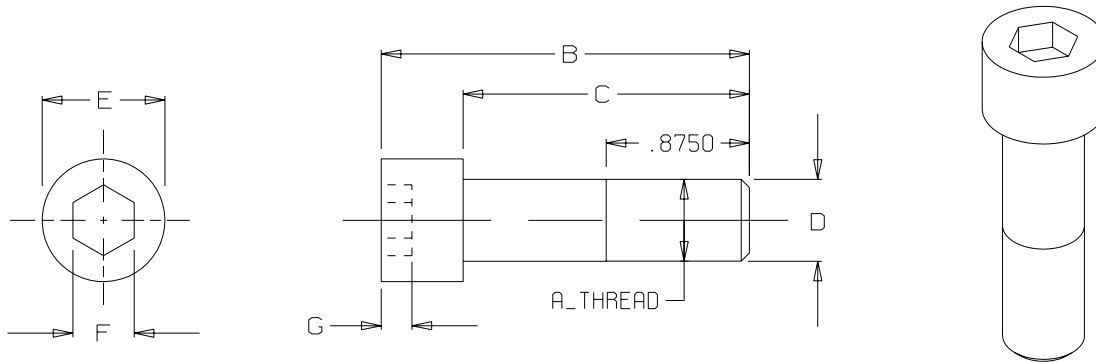
Instance Name	A_THREAD Thread Dia.	Threads Per Inch	B Head Diameter	C Nut Diameter	D Nut Height	E Head Height
KCN1	0.1900	24	0.7500	0.5000	0.2500	0.1875
KCN2	0.2500	20	0.7500	0.5000	0.2500	0.1875
KCN3	0.3125	18	0.7500	0.5000	0.3125	0.2500
KCN4	0.3750	16	0.7500	0.5000	0.3125	0.2500
KCN5	0.5000	13	1.0000	0.7500	0.3750	0.2500
KCN6	0.6250	11	1.0000	0.7500	0.3750	0.2500

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## SPECIALIZED NUTS, BOLTS AND SCREWS

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### LOCATING BOLTS



### Generic Part Name: LB

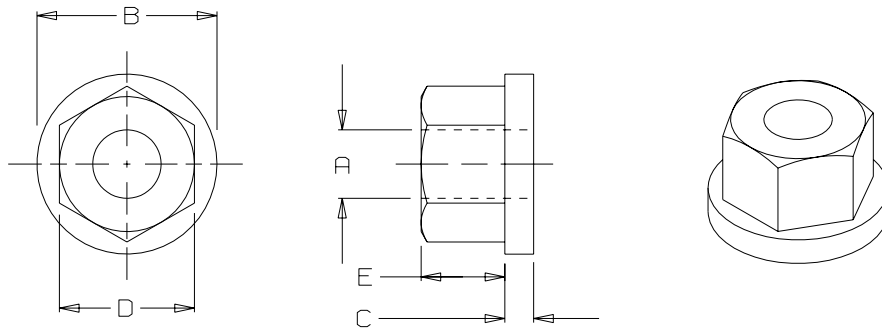
Instance Name	A_THREAD Thread Dia.	Threads Per Inch	B Bolt Length	C Cylinder Length	D Cylinder Diameter	E Head Diameter	F Hex Flat	G Hex Depth
LB1	0.5000	13.000	2.2500	1.7500	0.5003	0.7500	0.3750	0.1880
LB2	0.5000	13.000	2.7500	2.2500	0.5003	0.7500	0.3750	0.1880
LB3	0.5000	13.000	3.2500	2.7500	0.5004	0.7500	0.3750	0.1880
LB4	0.6250	11.000	2.6250	2.0000	0.6254	0.9375	0.5000	0.3070
LB5	0.6250	11.000	3.1250	2.5000	0.6254	0.9375	0.5000	0.3070
LB6	0.6250	11.000	3.6250	3.0000	0.6254	0.9375	0.5000	0.3070

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## SPECIALIZED NUTS, BOLTS AND SCREWS

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### FLANGE NUT

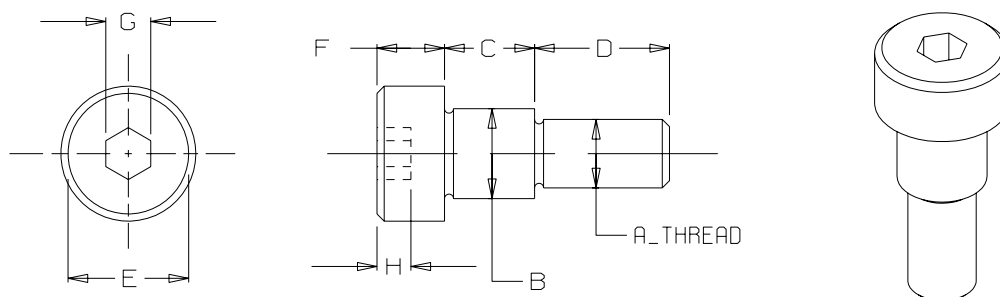


**Generic Part Name: FN**

Instance Name	A Thread Dia.	Threads Per Inch	B Washer Diameter	C Washer Thickness	D Hex Flat	E Hex Height
FN1	0.1900	24	0.5000	0.0800	0.3750	0.2325
FN2	0.2500	20	0.5625	0.0800	0.4375	0.2325
FN3	0.2500	20	0.6250	0.1200	0.5000	0.1925
FN4	0.3125	18	0.6875	0.0900	0.5625	0.2850
FN5	0.3125	18	0.7500	0.1200	0.5625	0.2550
FN6	0.3750	16	0.8750	0.1200	0.6875	0.3800
FN7	0.5000	13	1.1250	0.2000	0.8750	0.4875
FN8	0.6250	11	1.3750	0.2000	1.0625	0.6125
FN9	0.7500	10	1.6250	0.2500	1.2500	0.7500
FN10	0.8750	9	1.7500	0.3200	1.4375	0.8050
FN11	1.0000	8	2.0000	0.2800	1.6250	0.9700

## SPECIALIZED NUTS, BOLTS AND SCREWS

### SHOULDER SCREW



### Generic Part Name: SS

Instance Name	A_THREAD Thread Diameter	Threads Per Inch	B Shoulder Diameter	C Shoulder Length	D Thread Length	E Head Diameter	F Head Height	G Socket Flat	H Socket Depth
SS1	0.1900	24	0.2500	0.2500	0.3750	0.3750	0.1875	0.1250	0.0940
SS2	0.1900	24	0.2500	0.3750	0.3750	0.3750	0.1875	0.1250	0.0940
SS3	0.1900	24	0.2500	0.5000	0.3750	0.3750	0.1875	0.1250	0.0940
SS4	0.1900	24	0.2500	0.6250	0.3750	0.3750	0.1875	0.1250	0.0940
SS5	0.1900	24	0.2500	0.7500	0.3750	0.3750	0.1875	0.1250	0.0940
SS6	0.1900	24	0.2500	1.0000	0.3750	0.3750	0.1875	0.1250	0.0940
SS7	0.2500	20	0.3125	0.2500	0.4375	0.4375	0.2188	0.1562	0.1170
SS8	0.2500	20	0.3125	0.3125	0.4375	0.4375	0.2188	0.1562	0.1170
SS9	0.2500	20	0.3125	0.3750	0.4375	0.4375	0.2188	0.1562	0.1170
SS10	0.2500	20	0.3125	0.5000	0.4375	0.4375	0.2188	0.1562	0.1170
SS11	0.2500	20	0.3125	0.6250	0.4375	0.4375	0.2188	0.1562	0.1170
SS12	0.2500	20	0.3125	0.7500	0.4375	0.4375	0.2188	0.1562	0.1170
SS13	0.2500	20	0.3125	1.0000	0.4375	0.4375	0.2188	0.1562	0.1170
SS14	0.3125	18	0.3750	0.2500	0.5000	0.5625	0.2500	0.1875	0.1410
SS15	0.3125	18	0.3750	0.3750	0.5000	0.5625	0.2500	0.1875	0.1410
SS16	0.3125	18	0.3750	0.5000	0.5000	0.5625	0.2500	0.1875	0.1410
SS17	0.3125	18	0.3750	0.6250	0.5000	0.5625	0.2500	0.1875	0.1410
SS18	0.3125	18	0.3750	0.7500	0.5000	0.5625	0.2500	0.1875	0.1410
SS19	0.3750	16	0.5000	0.3750	0.6250	0.7500	0.3125	0.2500	0.1880
SS20	0.3750	16	0.5000	0.5000	0.6250	0.7500	0.3125	0.2500	0.1880
SS21	0.3750	16	0.5000	0.6250	0.6250	0.7500	0.3125	0.2500	0.1880
SS22	0.3750	16	0.5000	0.7500	0.6250	0.7500	0.3125	0.2500	0.1880
SS23	0.5000	13	0.6250	0.5000	0.7500	0.8750	0.3750	0.3125	0.2340
SS24	0.5000	13	0.6250	0.6250	0.7500	0.8750	0.3750	0.3125	0.2340

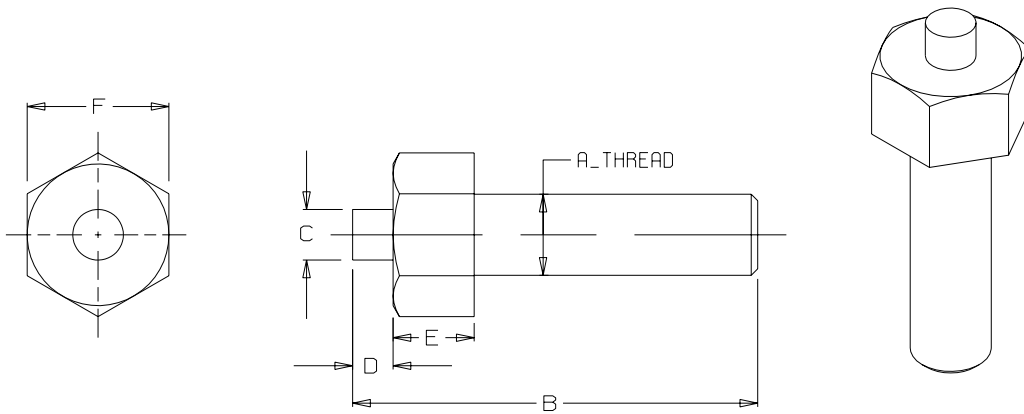
## SPECIALIZED NUTS, BOLTS AND SCREWS

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<b>Instance Name</b>	<b>A_THREAD</b> Thread Diameter	<b>Threads Per Inch</b>	<b>B</b> Shoulder Diameter	<b>C</b> Shoulder Length	<b>D</b> Thread Length	<b>E</b> Head Diameter	<b>F</b> Head Height	<b>G</b> Socket Flat	<b>H</b> Socket Depth
SS25	0.5000	13	0.6250	0.7500	0.7500	0.8750	0.3750	0.3125	0.2340
SS26	0.5000	13	0.6250	1.0000	0.7500	0.8750	0.3750	0.3125	0.2340
SS27	0.6250	11	0.7500	0.5000	0.8750	1.0000	0.5000	0.3750	0.2810
SS28	0.6250	11	0.7500	0.7500	0.8750	1.0000	0.5000	0.3750	0.2810
SS29	0.6250	11	0.7500	1.0000	0.8750	1.0000	0.5000	0.3750	0.2810

## SPECIALIZED NUTS, BOLTS AND SCREWS

### STEEL CLAMP REST



### Generic Part Name: CR

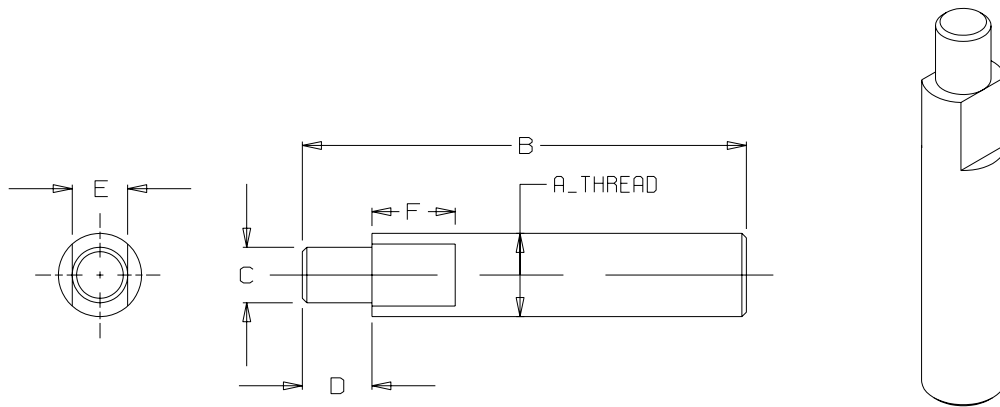
Instance Name	A_THREAD Thread Dia.	Threads Per Inch	B Rest Length	C Cap Height	D Cap Length	E Hex Height	F Hex Flat
CR1	0.2500	20	1.2500	0.1563	0.1250	0.2500	0.4375
CR2	0.3750	16	2.2500	0.3438	0.2188	0.3750	0.5625
CR3	0.3750	16	3.8750	0.3438	0.2188	0.3750	0.6250
CR4	0.5000	13	2.3750	0.3438	0.2500	0.5000	0.6875
CR5	0.5000	13	3.8750	0.3438	0.2500	0.5000	0.6875
CR6	0.6250	11	2.6250	0.4688	0.2500	0.6250	0.8750
CR7	0.6250	11	3.8750	0.4688	0.2500	0.6250	0.8750
CR8	0.7500	10	2.7500	0.4688	0.2500	0.6250	1.0625
CR9	0.7500	10	3.8750	0.4688	0.2500	0.6250	1.0625

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## SPECIALIZED NUTS, BOLTS AND SCREWS

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### CLAMP REST SCREW

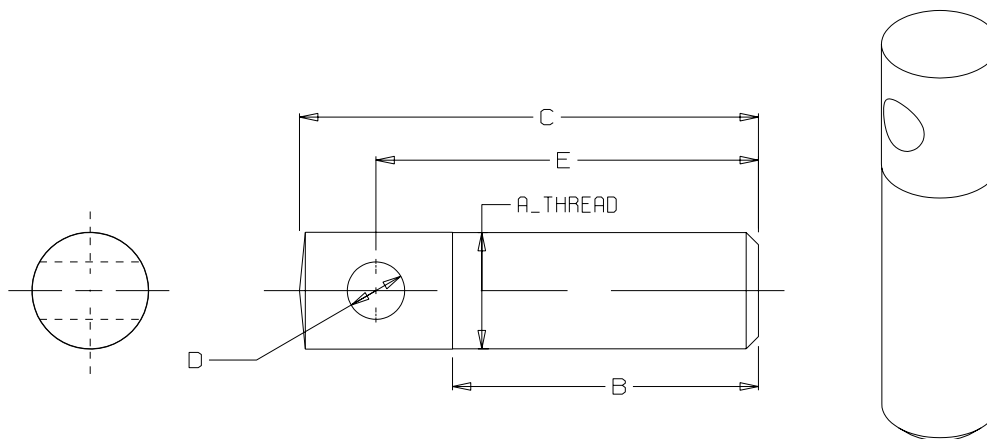


### Generic Part Name: CRS

Instance Name	A_THREAD Thread Dia.	Threads Per Inch	B Rest Length	C Cap Dia.	D Cap Height	E Cut Width	F Cut Depth
CRS1	0.3750	16	2.0000	0.2500	0.3130	0.2500	0.3750
CRS2	0.3750	16	2.5000	0.2500	0.3130	0.2500	0.3750
CRS3	0.3750	16	3.0000	0.2500	0.3130	0.2500	0.3750
CRS4	0.5000	13	2.0000	0.3440	0.3130	0.3750	0.3750
CRS5	0.5000	13	2.5000	0.3440	0.3130	0.3750	0.3750
CRS6	0.5000	13	3.0000	0.3440	0.3130	0.3750	0.3750

## SPECIALIZED NUTS, BOLTS AND SCREWS

### STAINLESS STEEL CLAMP REST



### Generic Part Name: CRSA

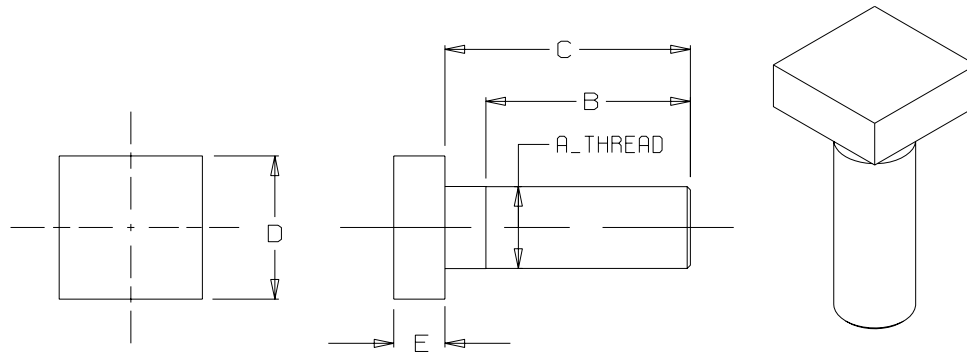
Instance Name	A_THREAD Thread Dia.	Threads Per Inch	B Thread Length	C Rest Height	D Hole Dia.	E Hole Height
CRSA1	0.1900	32	0.5000	0.7500	0.0938	0.6250
CRSA2	0.1900	32	0.7500	1.0000	0.0938	0.8750
CRSA3	0.1900	32	1.2500	1.5000	0.0938	1.3750
CRSA4	0.2500	20	0.6875	1.0000	0.1250	0.8750
CRSA5	0.2500	20	1.3125	1.5000	0.1250	1.3125
CRSA6	0.2500	20	1.4375	1.7500	0.1250	1.5000
CRSA7	0.3125	18	0.8750	1.2500	0.1563	1.0625
CRSA8	0.3125	18	1.1250	1.5000	0.1563	1.3125
CRSA9	0.3125	18	1.6250	2.0000	0.1563	1.8125
CRSA10	0.3750	16	1.1250	1.5000	0.1875	1.3125
CRSA11	0.3750	16	1.3750	1.7500	0.1875	1.5625
CRSA12	0.3750	16	2.3750	2.7500	0.1875	2.5625

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## SPECIALIZED NUTS, BOLTS AND SCREWS

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### T-BOLT



**Generic Part Name: TB**

Instance Name	A_THREAD Thread Dia.	Threads Per Inch	B Thread Length	C Stud Length	D Plate Width	E Plate Thickness
TB1	0.5000	13	1.2500	1.5000	0.8750	0.3125
TB2	0.5000	13	1.2500	2.0000	0.8750	0.3125
TB3	0.5000	13	1.2500	2.5000	0.8750	0.3125
TB4	0.5000	13	1.2500	3.0000	0.8750	0.3125
TB5	0.5000	13	1.2500	3.5000	0.8750	0.3125
TB6	0.5000	13	1.2500	4.0000	0.8750	0.3125
TB7	0.5000	13	1.2500	5.0000	0.8750	0.3125
TB8	0.5000	13	1.2500	6.0000	0.8750	0.3125
TB9	0.5000	13	1.2500	8.0000	0.8750	0.3125
TB10	0.6250	11	1.2500	1.5000	1.1250	0.4063
TB11	0.6250	11	1.2500	2.0000	1.1250	0.4063
TB12	0.6250	11	1.2500	2.5000	1.1250	0.4063
TB13	0.6250	11	1.2500	3.0000	1.1250	0.4063
TB14	0.6250	11	1.2500	3.5000	1.1250	0.4063
TB15	0.6250	11	1.2500	4.0000	1.1250	0.4063
TB16	0.6250	11	1.2500	5.0000	1.1250	0.4063
TB17	0.6250	11	1.2500	6.0000	1.1250	0.4063
TB18	0.6250	11	1.2500	8.0000	1.1250	0.4063
TB19	0.7500	10	1.7500	2.0000	1.3125	0.5312
TB20	0.7500	10	1.7500	3.0000	1.3125	0.5312
TB21	0.7500	10	1.7500	4.0000	1.3125	0.5312
TB22	0.7500	10	1.7500	5.0000	1.3125	0.5312
TB23	0.7500	10	1.7500	6.0000	1.3125	0.5312
TB24	0.7500	10	1.7500	7.0000	1.3125	0.5312
TB25	0.7500	10	1.7500	8.0000	1.3125	0.5312
TB26	0.8750	9	3.0000	4.0000	1.5000	0.6250

## SPECIALIZED NUTS, BOLTS AND SCREWS

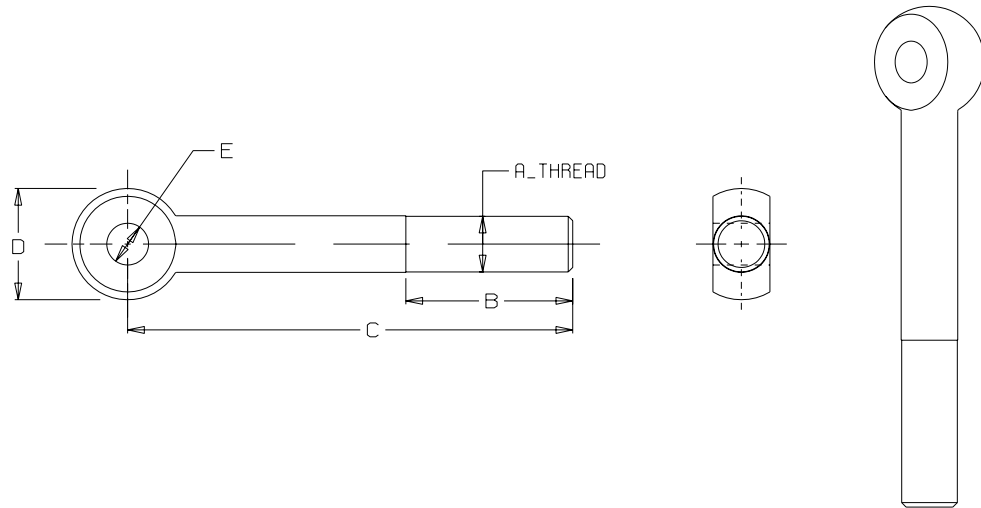
<b>Instance Name</b>	<b>A_THREAD</b> Thread Dia.	<b>Threads Per Inch</b>	<b>B</b> Thread Length	<b>C</b> Stud Length	<b>D</b> Plate Width	<b>E</b> Plate Thickness
TB27	0.8750	9	3.0000	5.0000	1.5000	0.6250
TB28	0.8750	9	3.0000	6.0000	1.5000	0.6250
TB29	1.0000	8	3.5000	4.0000	1.6875	0.6875
TB30	1.0000	8	3.5000	5.0000	1.6875	0.6875
TB31	1.0000	8	3.5000	6.0000	1.6875	0.6875
TB32	1.0000	8	3.5000	7.0000	1.6875	0.6875
TB33	1.0000	8	3.5000	8.0000	1.6875	0.6875
TB34	1.0000	8	4.0000	10.0000	1.6875	0.6875
TB35	1.0000	8	4.0000	12.0000	1.6875	0.6875
TB36	1.2500	7	4.0000	5.0000	2.0625	0.9375
TB37	1.2500	7	4.0000	6.0000	2.0625	0.9375
TB38	1.2500	7	4.0000	7.0000	2.0625	0.9375
TB39	1.2500	7	5.0000	8.0000	2.0625	0.9375
TB40	1.2500	7	5.0000	10.0000	2.0625	0.9375
TB41	1.2500	7	5.0000	12.0000	2.0625	0.9375
TB42	1.5000	6	5.0000	6.0000	2.5000	1.1875
TB43	1.5000	6	5.0000	8.0000	2.5000	1.1875
TB44	1.5000	6	5.0000	10.0000	2.5000	1.1875
TB45	1.5000	6	6.0000	12.0000	2.5000	1.1875
TB46	1.5000	6	6.0000	14.0000	2.5000	1.1875
TB47	1.5000	6	8.0000	16.0000	2.5000	1.1875
TB48	1.5000	6	8.0000	20.0000	2.5000	1.1875
TB49	0.2500	20	0.7500	1.0000	0.4690	0.1562
TB50	0.2500	20	1.0000	1.2500	0.4690	0.1562
TB51	0.2500	20	1.0000	1.5000	0.4690	0.1562
TB52	0.2500	20	1.2500	2.0000	0.4690	0.1562
TB53	0.2500	20	1.2500	2.5000	0.4690	0.1562
TB54	0.3125	18	1.0000	1.5000	0.5625	0.1875
TB55	0.3125	18	1.0000	2.0000	0.5625	0.1875
TB56	0.3125	18	1.2500	2.5000	0.5625	0.1875
TB57	0.3125	18	1.2500	3.0000	0.5625	0.1875
TB58	0.3125	18	1.5000	4.0000	0.5625	0.1875
TB59	0.3750	16	1.0000	2.0000	0.6875	0.2500
TB60	0.3750	16	1.2500	2.5000	0.6875	0.2500
TB61	0.3750	16	1.2500	3.0000	0.6875	0.2500
TB62	0.3750	16	1.5000	4.0000	0.6875	0.2500
TB63	0.3750	16	1.5000	5.0000	0.6875	0.2500

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## SPECIALIZED NUTS, BOLTS AND SCREWS

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### EYE BOLT

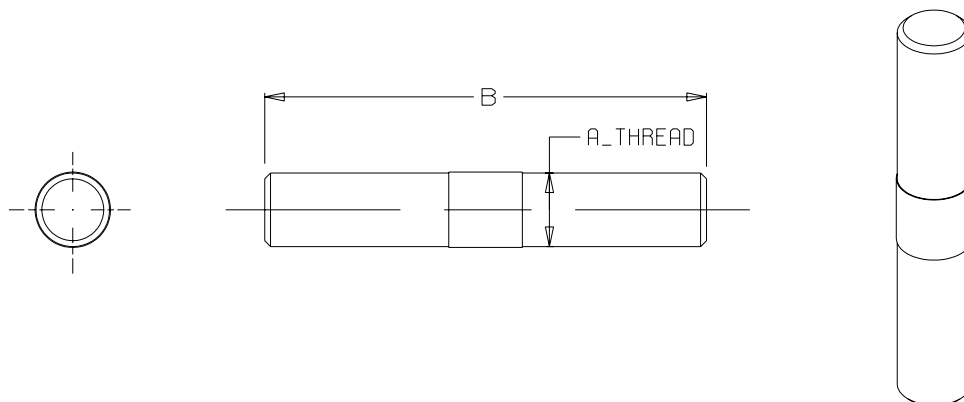


### Generic Part Name: EB

Instance Name	A_THREAD Thread Dia.	Threads Per Inch	B Thread Length	C Bolt Length	D Eye Dia.	E Hole Dia.
EB1	0.2500	20	0.7500	2.0000	0.5000	0.1875
EB2	0.2500	20	1.2500	3.0000	0.5000	0.1875
EB3	0.3125	18	1.5000	3.0000	0.6250	0.2500
EB4	0.3125	18	2.0000	4.0000	0.6250	0.2500
EB5	0.3750	16	1.5000	3.0000	0.7500	0.3125
EB6	0.3750	16	1.5000	3.0000	0.7500	0.3750
EB7	0.3750	16	2.0000	3.7500	0.7500	0.3750
EB8	0.3750	16	2.5000	5.0000	0.7500	0.3750
EB9	0.5000	13	1.5000	3.7500	1.0000	0.3750
EB10	0.5000	13	2.0000	5.0000	1.0000	0.3750
EB11	0.6250	11	2.0000	4.5000	1.2500	0.6250
EB12	0.6250	11	2.5000	6.0000	1.2500	0.6250
EB13	0.7500	10	2.5000	6.0000	1.5000	0.6250
EB14	0.7500	10	2.5000	6.0000	1.5000	0.7500

## SPECIALIZED NUTS, BOLTS AND SCREWS

### STUD



### Generic Part Name: ST

Instance Name	A_THREAD Thread Dia.	Threads Per Inch	Thread Maximum	Thread Minimum	B Stud Length
ST10	0.2500	20	1.000	0.250	1.5000
ST11	0.2500	20	1.000	0.250	2.0000
ST12	0.2500	20	1.000	0.250	2.5000
ST13	0.2500	20	1.000	0.250	3.0000
ST14	0.2500	20	1.000	0.250	3.5000
ST15	0.2500	20	1.000	0.250	4.0000
ST20	0.3125	18	1.125	0.313	2.0000
ST21	0.3125	18	1.125	0.313	2.5000
ST22	0.3125	18	1.125	0.313	3.0000
ST23	0.3125	18	1.125	0.313	3.5000
ST24	0.3125	18	1.125	0.313	4.0000
ST300	0.3750	16	1.250	0.375	2.0000
ST301	0.3750	16	1.250	0.375	2.5000
ST302	0.3750	16	1.250	0.375	3.0000
ST303	0.3750	16	1.250	0.375	3.5000
ST304	0.3750	16	1.250	0.375	4.0000
ST305	0.3750	16	1.250	0.375	4.5000
ST306	0.3750	16	1.250	0.375	5.0000
ST307	0.3750	16	1.250	0.375	5.5000
ST308	0.3750	16	1.250	0.375	6.0000
ST309	0.3750	16	1.250	0.375	6.5000
ST310	0.3750	16	1.250	0.375	7.0000
ST311	0.3750	16	1.250	0.375	7.5000
ST312	0.3750	16	1.250	0.375	8.0000
ST400	0.5000	13	1.500	0.500	2.0000

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## SPECIALIZED NUTS, BOLTS AND SCREWS

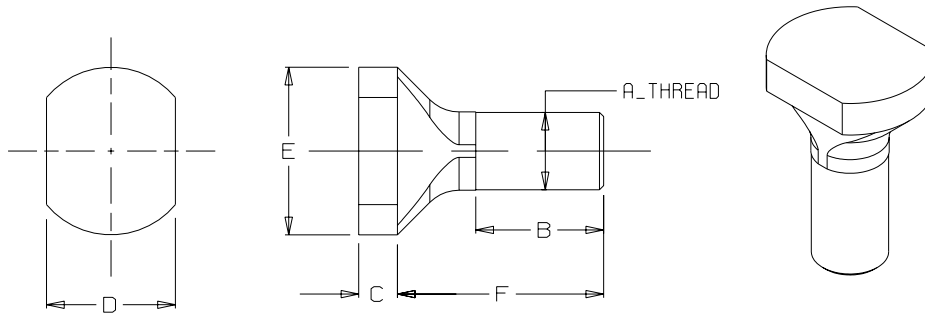
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<b>Instance Name</b>	<b>A_THREAD</b> Thread Dia.	<b>Threads Per Inch</b>	<b>Thread Maximum</b>	<b>Thread Minimum</b>	<b>B</b> Stud Length
ST401	0.5000	13	1.500	0.500	2.5000
ST402	0.5000	13	1.500	0.500	3.0000
ST403	0.5000	13	1.500	0.500	3.5000
ST404	0.5000	13	1.500	0.500	4.0000
ST405	0.5000	13	1.500	0.500	4.5000
ST406	0.5000	13	1.500	0.500	5.0000
ST407	0.5000	13	1.500	0.500	5.5000
ST408	0.5000	13	1.500	0.500	6.0000
ST409	0.5000	13	1.500	0.500	6.5000
ST410	0.5000	13	1.500	0.500	7.0000
ST411	0.5000	13	1.500	0.500	7.5000
ST412	0.5000	13	1.500	0.500	8.0000
ST413	0.5000	13	1.500	0.500	9.0000
ST414	0.5000	13	1.500	0.500	10.0000
ST415	0.5000	13	1.500	0.500	11.0000
ST416	0.5000	13	1.500	0.500	12.0000
ST500	0.6250	11	1.750	0.625	2.5000
ST501	0.6250	11	1.750	0.625	3.0000
ST502	0.6250	11	1.750	0.625	3.5000
ST503	0.6250	11	1.750	0.625	4.0000
ST504	0.6250	11	1.750	0.625	4.5000
ST505	0.6250	11	1.750	0.625	5.0000
ST506	0.6250	11	1.750	0.625	5.5000
ST507	0.6250	11	1.750	0.625	6.0000
ST508	0.6250	11	1.750	0.625	6.5000
ST509	0.6250	11	1.750	0.625	7.0000
ST510	0.6250	11	1.750	0.625	7.5000
ST511	0.6250	11	1.750	0.625	8.0000
ST512	0.6250	11	1.750	0.625	9.0000
ST513	0.6250	11	1.750	0.625	10.0000
ST514	0.6250	11	1.750	0.625	11.0000
ST515	0.6250	11	1.750	0.625	12.0000
ST60	0.7500	10	2.000	0.750	3.0000
ST61	0.7500	10	2.000	0.750	4.0000
ST62	0.7500	10	2.000	0.750	5.0000
ST63	0.7500	10	2.000	0.750	6.0000
ST64	0.7500	10	2.000	0.750	7.0000
ST65	0.7500	10	2.000	0.750	8.0000
ST66	0.7500	10	2.000	0.750	9.0000
ST67	0.7500	10	2.000	0.750	10.0000
ST68	0.7500	10	2.000	0.750	11.0000
ST69	0.7500	10	2.000	0.750	12.0000

## SPECIALIZED NUTS, BOLTS AND SCREWS

### T-SLOT BOLT



### Generic Part Name: TSB

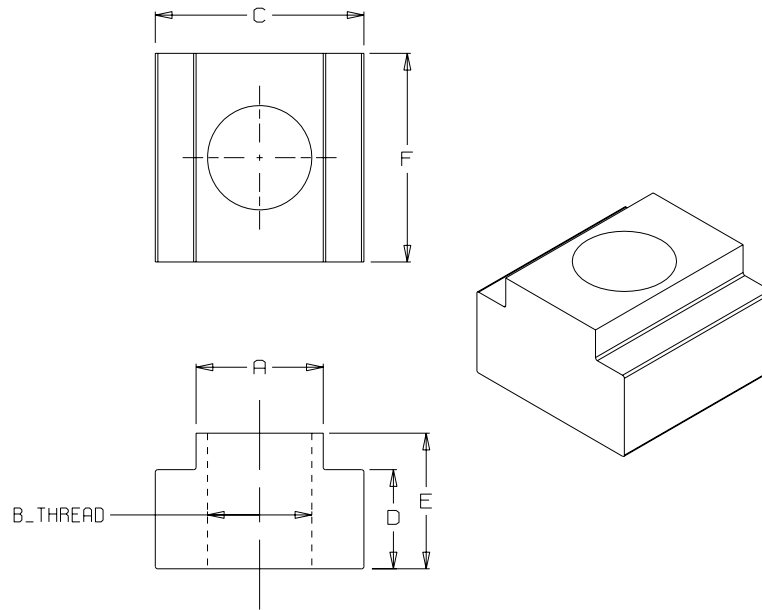
Instance Name	A_THREAD Thread Dia.	Threads Per Inch	B Thread Length	C Slot Height	D Slot Width	E Bolt Diameter	F Bolt Length
TSB10	0.3750	16	0.6200	0.1875	0.6250	0.8125	1.0000
TSB11	0.3750	16	1.0000	0.1875	0.6250	0.8125	1.5000
TSB12	0.3750	16	1.2500	0.1875	0.6250	0.8125	2.0000
TSB13	0.3750	16	1.5000	0.1875	0.6250	0.8125	2.5000
TSB14	0.3750	16	1.5000	0.1875	0.6250	0.8125	3.0000
TSB15	0.3750	16	1.5000	0.1875	0.6250	0.8125	3.5000
TSB16	0.3750	16	1.5000	0.1875	0.6250	0.8125	4.0000
TSB20	0.5000	13	1.0000	0.3125	0.8125	0.9375	1.5000
TSB21	0.5000	13	1.2500	0.3125	0.8125	0.9375	2.0000
TSB22	0.5000	13	1.5000	0.3125	0.8125	0.9375	2.5000
TSB23	0.5000	13	1.5000	0.3125	0.8125	0.9375	3.0000
TSB24	0.5000	13	1.5000	0.3125	0.8125	0.9375	3.5000
TSB25	0.5000	13	1.5000	0.3125	0.8125	0.9375	4.0000
TSB26	0.5000	13	1.5000	0.3125	0.8125	0.9375	5.0000
TSB27	0.5000	13	2.0000	0.3125	0.8125	0.9375	6.0000
TSB30	0.6250	11	1.0000	0.4062	1.0313	1.1875	1.5000
TSB31	0.6250	11	1.2500	0.4062	1.0313	1.1875	2.0000
TSB32	0.6250	11	1.5000	0.4062	1.0313	1.1875	2.5000
TSB33	0.6250	11	1.5000	0.4062	1.0313	1.1875	3.0000
TSB34	0.6250	11	1.5000	0.4062	1.0313	1.1875	3.5000
TSB35	0.6250	11	1.5000	0.4062	1.0313	1.1875	4.0000
TSB36	0.6250	11	1.5000	0.4062	1.0313	1.1875	5.0000
TSB37	0.6250	11	2.0000	0.4062	1.0313	1.1875	6.0000
TSB38	0.6250	11	3.0000	0.4062	1.0313	1.1875	8.0000
TSB40	0.7500	10	1.5000	0.4375	1.2500	1.4375	3.0000
TSB41	0.7500	10	1.5000	0.4375	1.2500	1.4375	3.5000
TSB42	0.7500	10	1.5000	0.4375	1.2500	1.4375	4.0000
TSB43	0.7500	10	1.5000	0.4375	1.2500	1.4375	5.0000
TSB44	0.7500	10	2.0000	0.4375	1.2500	1.4375	6.0000
TSB45	0.7500	10	3.0000	0.4375	1.2500	1.4375	8.0000

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## SPECIALIZED NUTS, BOLTS AND SCREWS

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### T-NUT



**Generic Part Name: TN**

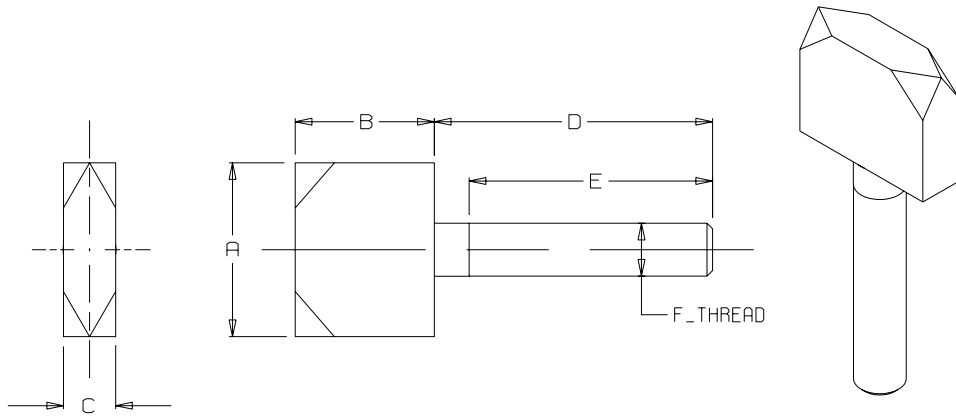
Instance Name	NOM. T-BOLT SIZE	A Tongue Width	B_THREAD Thread Dia.	Threads Per Inch	C Nut Width	D Nut Height	E Nut Thickness	F Nut Length
TN1	0.313	0.3300	0.2500	20	0.5620	0.1880	0.2810	0.5620
TN2	0.375	0.4180	0.3120	18	0.6880	0.2500	0.3750	0.6880
TN3	0.500	0.5430	0.3750	16	0.8750	0.3120	0.5310	0.8750
TN4	0.625	0.6680	0.5000	13	1.1250	0.4060	0.6250	1.1250
TN5	0.750	0.7830	0.6250	11	1.3120	0.5310	0.7810	1.3120
TN6	1.000	1.0330	0.7500	10	1.6880	0.6880	1.0000	1.6880
TN7	1.250	1.2730	1.0000	8	2.0620	0.9380	1.3120	2.0620
TN8	1.500	1.5230	1.2500	7	2.5000	1.1880	1.6250	2.5000

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## SPECIALIZED NUTS, BOLTS AND SCREWS

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### QUARTER TURN SCREW

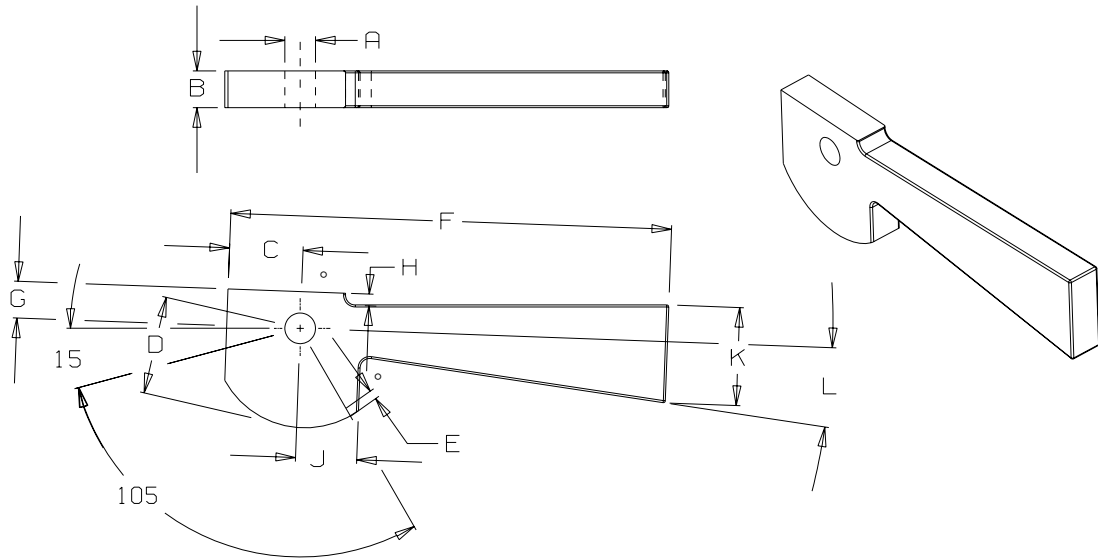


### Generic Part Name: QTS

Instance Name	A Head Width	B Head Height	C Head Thickness	D Screw Length	E Thread Length	F_THREAD Thread Dia.	Threads Per Inch
QTS1	0.6250	0.5000	0.1875	1.0000	0.8750	0.1900	24
QTS2	0.5000	0.5000	0.1875	1.0000	0.8750	0.1900	32
QTS3	0.7500	0.6250	0.2500	1.2500	1.0000	0.2500	20
QTS4	1.0000	0.7500	0.3125	1.5000	1.2500	0.3125	18
QTS5	1.0000	1.0000	0.3750	1.5000	1.2500	0.3750	16
QTS6	1.2500	1.0000	0.5000	1.7500	1.5000	0.5000	13
QTS7	1.5000	1.2500	0.6250	1.7500	1.5000	0.6250	11

# CAMS

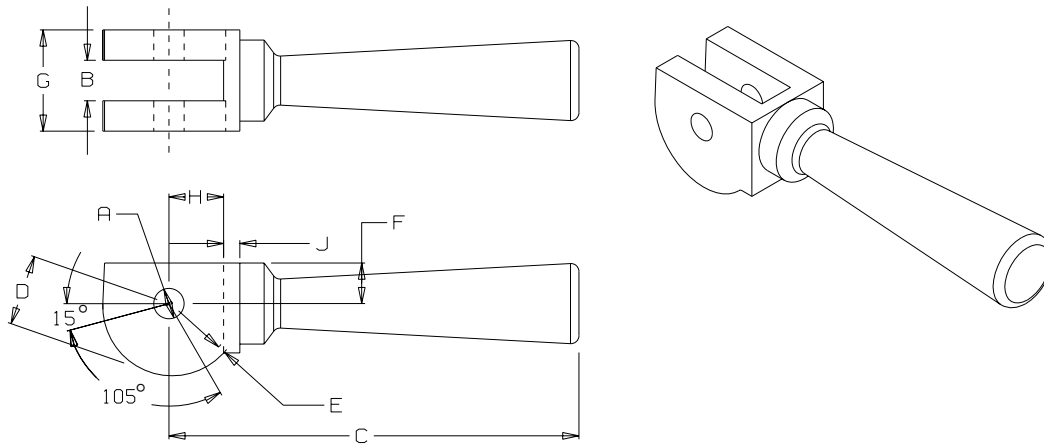
## SINGLE CAM



### Generic Part Name: SC

Instance Name	A Hole Dia.	B Cam Thick.	C Hole Horiz. Dist.	D Cam Radius	E Cam Rise	F Cam Length	G Hole Vert. Dist.	H Handle Depth	J Cam Width	K Handle Width	L Handle Angle
SC1	0.1563	0.1875	0.3750	0.5000	0.0469	2.2500	0.1875	0.0600	0.3125	0.5000	6.5000
SC2	0.2500	0.2500	0.4375	0.6250	0.0625	3.2500	0.2500	0.0600	0.5000	0.6875	2.5000
SC3	0.3125	0.3750	0.7500	0.9375	0.1094	4.5000	0.3750	0.0600	0.5000	0.8750	2.5000
SC4	0.3750	0.5000	0.8750	1.1719	0.1406	5.0000	0.4375	0.0600	0.6563	0.9375	2.5000
SC5	0.5000	0.6250	1.0000	1.4688	0.1563	5.5000	0.5000	0.0900	0.7500	1.0000	2.5000

## DOUBLE CAM



### Generic Part Name: DC

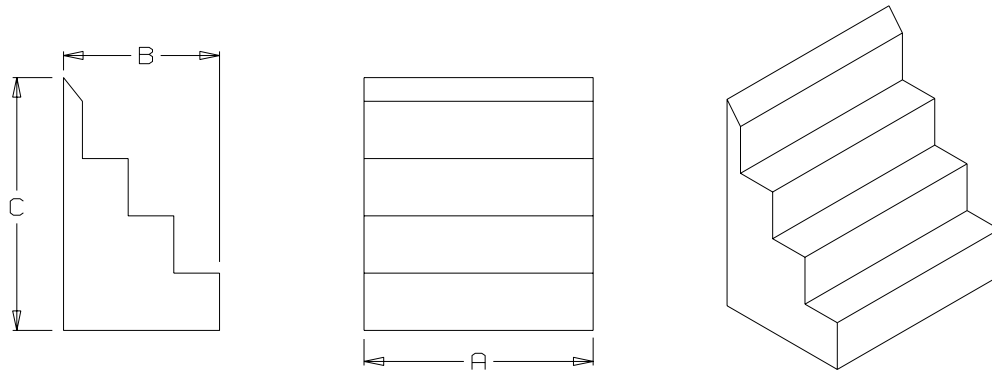
Instance Name	A Hole Dia.	B Gap Width	C Handle End Distance	D Nominal Cam Radius	E Total Rise	F Hole Vertical Distance	G Cam Width	H Rise Width	J Pad Thick.
DC1	0.1875	0.2500	2.5312	0.4375	0.0469	0.2500	0.6250	0.3375	0.1000
DC2	0.3125	0.3750	2.8125	0.5625	0.0625	0.4300	0.8750	0.5375	0.4000
DC3	0.3750	0.5000	4.6250	0.6875	0.1094	0.5600	1.1250	0.6900	0.5600
DC4	0.6250	0.6250	4.9375	1.0000	0.1406	0.6200	1.2500	0.8500	0.6500
DC5	0.6250	0.7500	5.1250	1.2500	0.1562	0.6200	1.5000	1.0000	0.7500

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# STEP BLOCKS, CLAMPS AND STRAPS

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## STEP BLOCK

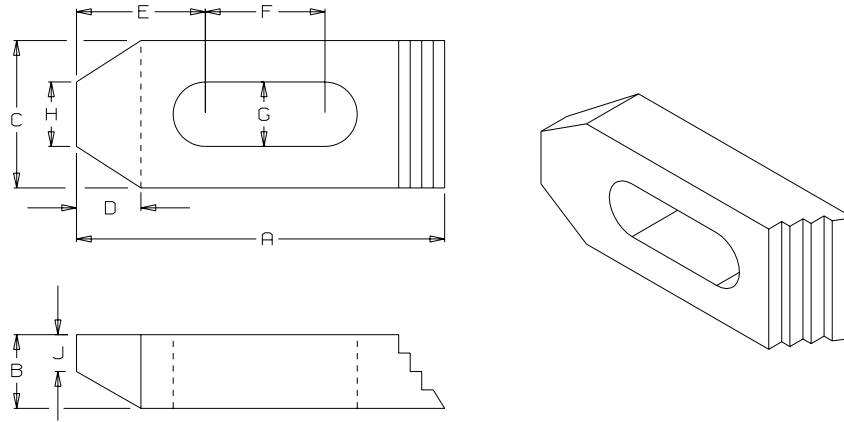


**Generic Part Name: SB**

Instance Name	A Block Length	B Block Width	C Block Height
SB1	1.000	0.681	1.104
SB2	1.000	1.068	1.747
SB3	1.000	2.355	3.980
SB4	1.500	1.454	2.390
SB5	1.500	2.355	3.890
SB6	1.500	3.385	5.604
SB7	2.000	1.454	2.390
SB8	2.000	2.355	3.890
SB9	2.000	3.385	5.604

## STEP BLOCKS, CLAMPS AND STRAPS

### STEP CLAMP



### Generic Part Name: SCL

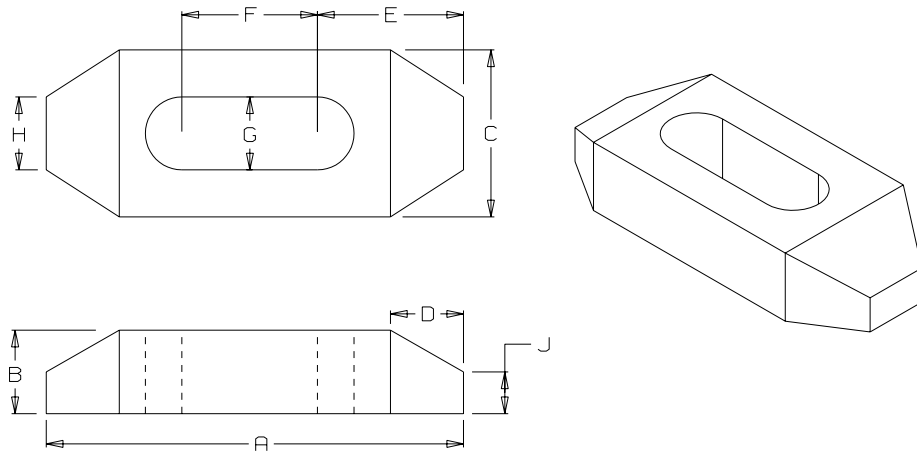
Instance Name	A Clamp Length	B Clamp Thickness	C Clamp Width	D Tip Length	E Slot Location	F Slot Length	G Slot Width	H Tip Width	J Tip Thickness
SCL1	2.5000	0.5000	1.0000	0.4375	0.8750	0.8125	0.4375	0.4375	0.25
SCL2	4.0000	0.6250	1.0000	0.6875	1.1875	1.3125	0.4375	0.2500	0.25
SCL3	6.0000	0.7500	1.1250	0.7500	1.1250	2.1875	0.4375	0.3750	0.31
SCL4	2.5000	0.5000	1.1250	0.4375	0.9062	0.6875	0.5625	0.5625	0.19
SCL5	4.0000	0.7500	1.2500	0.6875	1.2188	1.1875	0.5625	0.5000	0.25
SCL6	6.0000	0.8750	1.2500	0.7500	1.1562	2.1250	0.5625	0.4375	0.31
SCL7	2.5000	0.6250	1.2500	0.3750	0.9375	0.5625	0.6875	0.7500	0.38
SCL8	4.0000	0.7500	1.5000	0.6875	1.2500	1.0625	0.6875	0.6875	0.38
SCL9	6.0000	0.8750	1.5000	0.7500	1.2812	1.9375	0.6875	0.5625	0.44
SCL10	4.0000	0.7500	1.5000	0.7500	1.3125	0.9375	0.8125	0.6250	0.31
SCL11	6.0000	1.0000	1.5000	0.8125	1.2500	1.8750	0.8125	0.6250	0.50
SCL12	8.0000	1.0000	1.7500	0.7500	1.8750	2.1875	0.8125	0.7500	0.62

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## STEP BLOCKS, CLAMPS AND STRAPS

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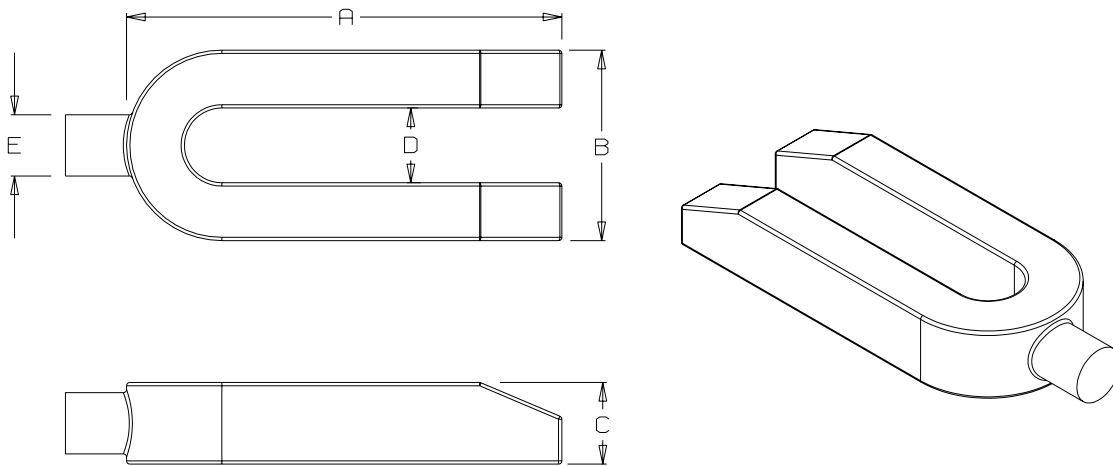
### PLAIN CLAMP



### Generic Part Name: PC

Instance Name	A Clamp Length	B Clamp Height	C Clamp Width	D Nose Length	E Hole Distance	F Hole Center Distance	G Hole Width	H Nose Width	J Nose Thickness
PC1	2.5000	0.5000	1.0000	0.4375	0.8750	0.8125	0.4375	0.4375	0.2500
PC2	4.0000	0.6250	1.0000	0.6875	1.1875	1.3125	0.4375	0.2500	0.2500
PC3	6.0000	0.7500	1.1250	0.7500	1.1250	2.1875	0.4375	0.3750	0.3125
PC4	2.5000	0.5000	1.1250	0.4375	0.9063	0.6875	0.5625	0.5625	0.1875
PC5	4.0000	0.7500	1.2500	0.6875	1.2188	1.1875	0.5625	0.5000	0.2500
PC6	6.0000	0.8750	1.2500	0.7500	1.1563	2.1250	0.5625	0.4375	0.3125
PC7	2.5000	0.6250	1.2500	0.3750	0.9375	0.5625	0.6875	0.7500	0.3750
PC8	4.0000	0.7500	1.5000	0.6875	1.2500	1.0625	0.6875	0.6875	0.3750
PC9	6.0000	0.8750	1.5000	0.7500	1.2813	1.9375	0.6875	0.5625	0.4375
PC10	4.0000	0.7500	1.5000	0.7500	1.3125	0.9375	0.8125	0.6250	0.3125
PC11	6.0000	1.0000	1.5000	0.8125	1.2500	1.8750	0.8125	0.6250	0.5000
PC12	8.0000	1.0000	1.7500	0.7500	1.8750	2.1875	0.8125	0.7500	0.6250
PC13	10.0000	1.0000	1.7500	0.8125	3.5000	3.0000	1.0000	0.7500	0.6250
PC14	10.0000	1.2500	2.0000	1.0000	3.0000	4.0000	1.2500	1.0000	0.7500

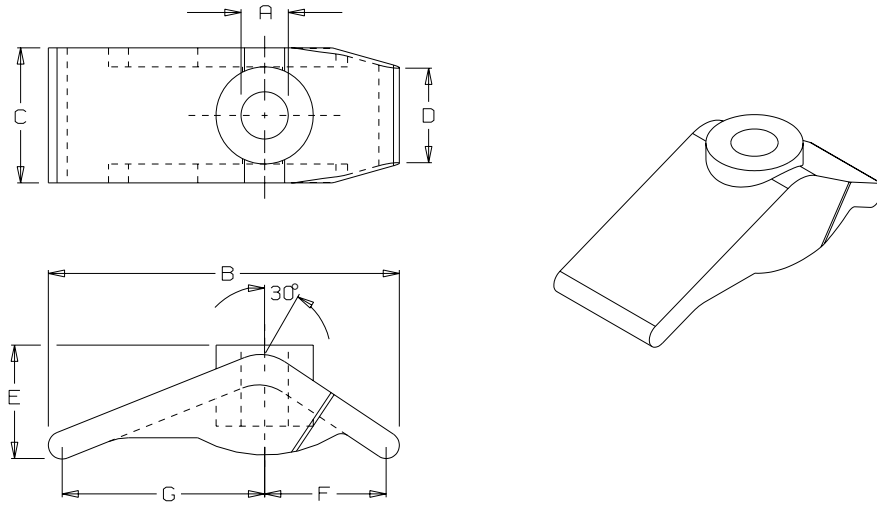
## FORGED U-CLAMP



### Generic Part Name: FUC

Instance Name	A Clamp Length	B Clamp Width	C Clamp Height	D Cut Width	E Shaft Dia.	F Bolt Size
FUC1	4.0000	1.7500	0.7500	0.6875	0.5625	0.625
FUC2	6.0000	2.0000	0.8750	0.6875	0.6875	0.625
FUC3	8.0000	2.3750	1.1250	0.8125	0.8125	0.750
FUC4	12.0000	3.2500	1.3750	1.0625	1.0625	1.000
FUC5	14.0000	3.7500	1.7500	1.2500	1.2500	1.125

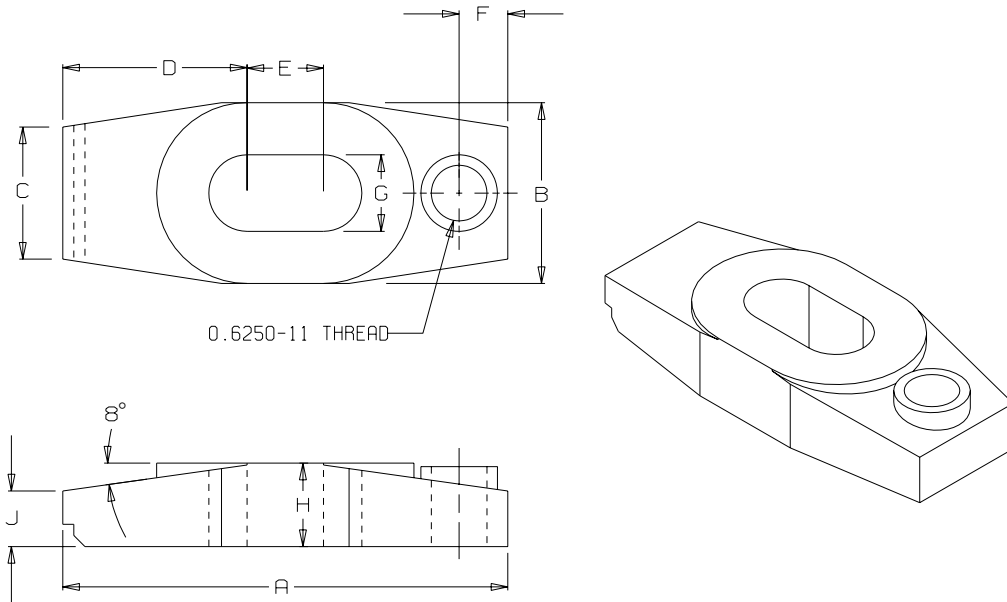
## FORGED ADJUSTABLE CLAMP



### Generic Part Name: ACL

Instance Name	A Hole Dia.	B Overall Length	C Clamp Width	D Tip Width	E Clamp Height	F Short Arm Length	G Long Arm Length	Stud Size	Stud Length	Max. Clamp Height
ACL1	0.4375	3.2500	1.2500	0.8750	1.0500	1.1250	1.8750	0.375	3.000	1.503
ACL2	0.5625	4.0000	1.6250	1.1250	1.0500	1.4375	2.3125	0.500	4.000	1.880
ACL3	0.6875	5.5000	1.8750	1.3750	1.0500	2.0000	3.2500	0.625	5.500	2.630

## FORGED CLAMP STRAP - STRAIGHT LOCATOR NOSE

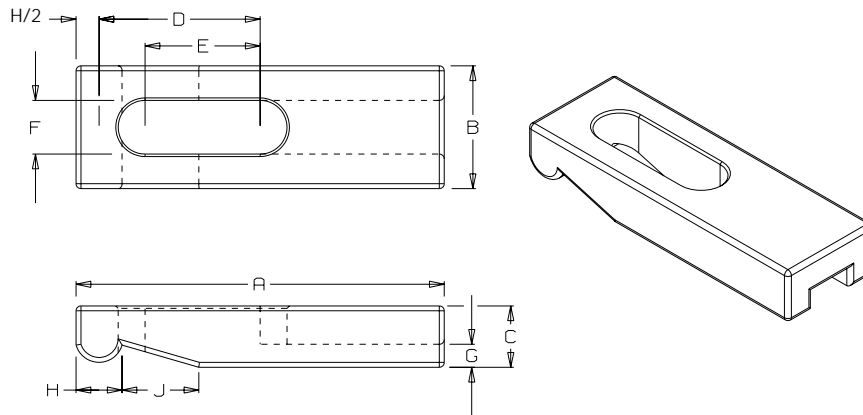


### Generic Part Name: FCS

Instance Name	A Clamp Length	B Clamp Width	C Nose Width	D Cut Distance	E Cut Ctrs. Distance	F Thread Hole Dist.	G Cut Width	H Clamp Height	J Nose Height
FCS1	4.0000	1.6250	1.1875	1.6563	0.6875	0.4375	0.6875	0.7500	0.5000
FCS2	6.0000	1.7500	1.2500	2.3125	1.3750	0.5625	0.6875	0.8750	0.5625
FCS3	8.0000	2.1250	1.5000	3.0000	2.0000	0.6875	0.8125	1.1250	0.7500
FCS4	10.0000	2.5000	1.7500	3.6250	2.7500	0.8125	0.9375	1.3750	0.9375
FCS5	12.0000	2.5000	1.7500	4.1250	3.7500	1.0000	0.9375	1.5000	1.0000

## STEP BLOCKS, CLAMPS AND STRAPS

### SLOTTED HEEL CLAMP STRAP

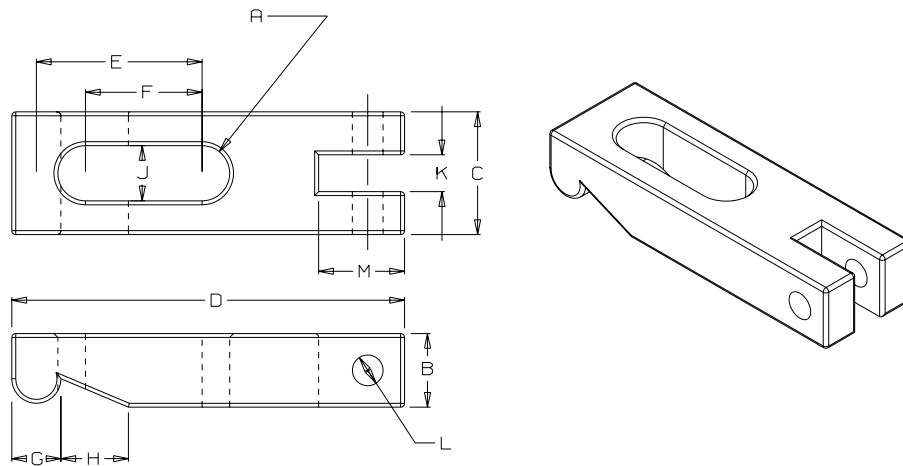


### Generic Part Name: FSHCS

Instance Name	Bolt Dia.	A Clamp Length	B Clamp Width	C Clamp Thick.	D Cut Dist.	E Cut Ctrs. Dist.	F Cut Width	G Slot Width	H Nose Width	J Slope Width
FSHCS1	0.188	1.500	0.500	0.250	0.6563	0.47	0.22	0.09380	0.1875	0.3125
FSHCS2	0.188	2.000	0.500	0.250	0.9063	0.72	0.22	0.09380	0.1875	0.3125
FSHCS3	0.250	1.500	0.625	0.375	0.7500	0.50	0.28	0.12500	0.2500	0.3750
FSHCS4	0.250	2.000	0.625	0.375	0.8750	0.69	0.28	0.12500	0.2500	0.3750
FSHCS5	0.250	2.500	0.625	0.375	1.1250	0.94	0.28	0.12500	0.2500	0.3750
FSHCS6	0.312	2.000	0.750	0.375	0.8438	0.59	0.34	0.15630	0.3125	0.4375
FSHCS7	0.312	2.500	0.750	0.375	1.0938	0.84	0.34	0.15630	0.3125	0.4375
FSHCS8	0.312	3.000	0.750	0.375	1.3438	1.09	0.34	0.15630	0.3125	0.4375
FSHCS9	0.375	3.000	1.000	0.500	1.3125	1.00	0.41	0.18750	0.3750	0.5000
FSHCS10	0.375	3.500	1.000	0.500	1.5625	1.25	0.41	0.18750	0.3750	0.5000
FSHCS11	0.375	4.000	1.000	0.500	1.8125	1.50	0.41	0.18750	0.3750	0.5000
FSHCS12	0.500	5.000	1.000	0.500	2.0000	1.75	0.53	0.18750	0.5000	0.6250

## STEP BLOCKS, CLAMPS AND STRAPS

### CAM TYPE CLAMP STRAP



### Generic Part Name: CTCS

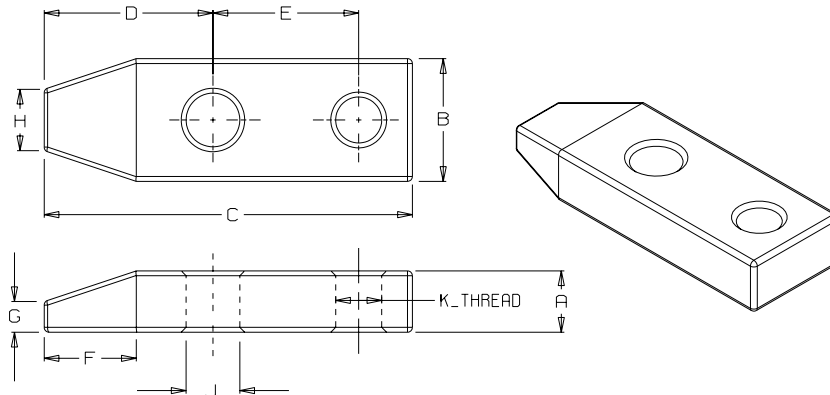
Instance Name	A Stud Dia.	B Clamp Height	C Clamp Width	D Clamp Length	E Hole Dist.	F Hole Centers	G Nose Width	H Slope Width	J Hole Width	K Cut Width	L Hole Dia.	M Cut Depth
CTCS1	0.250	0.3750	0.6250	2.0000	0.8438	0.5938	0.2500	0.3438	0.2813	0.1875	0.1563	0.4375
CTCS2	0.250	0.3750	0.6250	2.5000	1.0938	0.8125	0.2500	0.3438	0.2813	0.1875	0.1563	0.4375
CTCS3	0.375	0.5000	1.1250	3.0000	1.2813	0.8750	0.4063	0.5000	0.4063	0.2500	0.2500	0.6250
CTCS4	0.375	0.5000	1.1250	4.0000	1.7813	1.3750	0.4063	0.5000	0.4063	0.2500	0.2500	0.6250
CTCS5	0.375	0.5000	1.1250	5.0000	2.2813	1.8750	0.4063	0.5000	0.4063	0.2500	0.2500	0.6250
CTCS6	0.500	0.6250	1.2500	3.5000	1.5000	1.0313	0.4063	0.5000	0.5313	0.3750	0.3125	0.8750
CTCS7	0.500	0.6250	1.2500	4.0000	1.7500	1.2813	0.4063	0.5000	0.5313	0.3750	0.3125	0.8750
CTCS8	0.500	0.6250	1.2500	5.0000	2.2500	1.7813	0.4063	0.5000	0.5313	0.3750	0.3125	0.8750
CTCS9	0.500	0.6250	1.2500	6.0000	2.7500	2.2813	0.4063	0.5000	0.5313	0.3750	0.3125	0.8750
CTCS10	0.625	0.7500	1.5000	4.0000	1.6875	1.0938	0.5000	0.5938	0.6563	0.5000	0.3750	1.0000
CTCS11	0.625	0.7500	1.5000	5.0000	2.1875	1.5938	0.5000	0.5938	0.6563	0.5000	0.3750	1.0000
CTCS12	0.625	0.7500	1.5000	6.0000	2.6875	2.0938	0.5000	0.5938	0.6563	0.5000	0.3750	1.0000
CTCS13	0.750	1.0000	1.7500	6.0000	2.6250	2.0000	0.5000	0.5938	0.7813	0.6250	0.5000	1.2500
CTCS14	0.750	1.0000	1.7500	7.0000	3.1250	2.5625	0.5000	0.5938	0.7813	0.6250	0.5000	1.2500
CTCS15	0.750	1.0000	1.7500	8.0000	3.6250	3.1250	0.5000	0.5938	0.7813	0.6250	0.5000	1.2500
CTCS16	0.750	1.0000	1.7500	10.0000	4.0000	3.2500	0.5000	0.5938	0.7813	0.6250	0.5000	1.2500

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## STEP BLOCKS, CLAMPS AND STRAPS

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### T - NOSE CLAMP STRAP

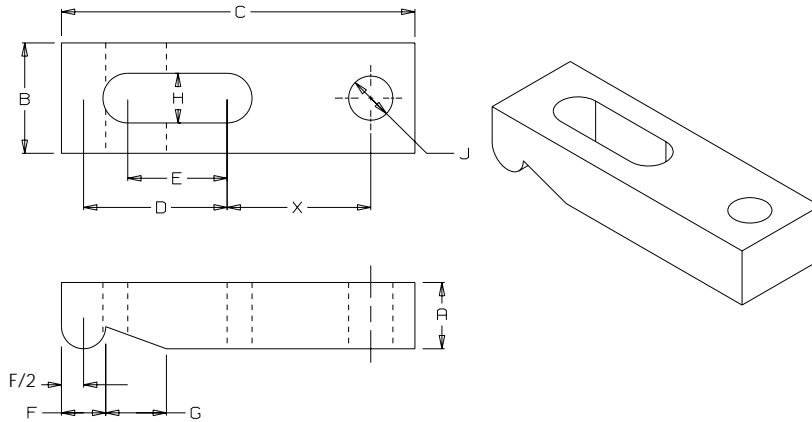


### Generic Part Name: TNCS

Instance Name	Bolt Dia.	A Clamp Thick.	B Clamp Width	C Clamp Length	D Bolt Hole Dist.	E Hole Ctrs. Dist.	F Slope Length	G Nose Thick.	H Nose Width	J Bolt Hole Dia.	K_THREAD Thread Dia.- Threads Per Inch
TNCS1	0.188	0.2500	0.5000	1.5000	0.6875	0.5938	0.3750	0.1250	0.2500	0.2188	0.1875-32
TNCS2	0.188	0.2500	0.5000	2.0000	0.9375	0.8438	0.3750	0.1250	0.2500	0.2188	0.1875-32
TNCS3	0.250	0.3750	0.6250	2.0000	0.9375	0.8125	0.4688	0.1563	0.3125	0.2813	0.2500-20
TNCS4	0.250	0.3750	0.6250	2.5000	1.1875	1.0625	0.4688	0.1563	0.3125	0.2813	0.2500-20
TNCS5	0.312	0.3750	0.7500	2.5000	1.1563	1.0000	0.5625	0.1875	0.3750	0.3438	0.3125-18
TNCS6	0.375	0.5000	1.0000	3.5000	1.6563	1.4688	0.7500	0.2500	0.5000	0.4063	0.3750-16
TNCS7	0.500	0.5000	1.0000	3.5000	1.6563	1.4688	0.7500	0.2500	0.5000	0.5313	0.5000-13

## STEP BLOCKS, CLAMPS AND STRAPS

### TAPPED HEEL CLAMP STRAP



### Generic Part Name: THCS

Instance Name	A Clamp Thick.	B Clamp Width	C Clamp Length	D Slot Location	E Slot Length	F Round Tip Length	G Declined Cut Length	H Slot Width	J Hole Dia.
THCS1	0.3750	0.6250	2.0000	0.8125	0.5625	0.2500	0.3438	0.2812	0.2500
THCS2	0.3750	0.6250	2.5000	1.0625	0.8125	0.2500	0.3438	0.2812	0.2500
THCS3	0.5000	1.1250	3.0000	1.2188	0.8125	0.4062	0.5000	0.4062	0.3750
THCS4	0.5000	1.1250	4.0000	1.7188	1.3125	0.4062	0.5000	0.4062	0.3750
THCS5	0.5000	1.1250	5.0000	2.2188	1.8125	0.4062	0.5000	0.4062	0.3750
THCS6	0.5000	1.1250	6.0000	2.7188	2.3125	0.4062	0.5000	0.4062	0.3750
THCS7	0.6250	1.2500	3.5000	1.4062	0.9375	0.4062	0.5000	0.5312	0.5000
THCS8	0.6250	1.2500	4.0000	1.6562	1.1875	0.4062	0.5000	0.5312	0.5000
THCS9	0.6250	1.2500	4.5000	1.9062	1.4375	0.4062	0.5000	0.5312	0.5000
THCS10	0.6250	1.2500	5.0000	2.1562	1.6875	0.4062	0.5000	0.5312	0.5000
THCS11	0.6250	1.2500	5.5000	2.4062	1.9375	0.4062	0.5000	0.5312	0.5000
THCS12	0.6250	1.2500	6.0000	2.6562	2.1875	0.4062	0.5000	0.5312	0.5000
THCS13	0.7500	1.5000	4.0000	1.5625	1.0000	0.5000	0.5938	0.6562	0.6250
THCS14	0.7500	1.5000	4.5000	1.8125	1.2500	0.5000	0.5938	0.6562	0.6250
THCS15	0.7500	1.5000	5.0000	2.0625	1.5000	0.5000	0.5938	0.6562	0.6250
THCS16	0.7500	1.5000	6.0000	2.5625	2.0000	0.5000	0.5938	0.6562	0.6250
THCS17	0.8750	1.5000	4.0000	1.5625	1.0000	0.5000	0.5938	0.6562	0.6250
THCS18	0.8750	1.5000	5.0000	2.0625	1.5000	0.5000	0.5938	0.6562	0.6250
THCS19	0.8750	1.5000	6.0000	2.5625	2.0000	0.5000	0.5938	0.6562	0.6250
THCS20	0.8750	1.5000	6.5000	2.8125	2.2500	0.5000	0.5938	0.6562	0.6250
THCS21	1.0000	1.7500	5.5000	2.2500	1.6562	0.5000	0.5938	0.7812	0.7500
THCS22	1.0000	1.7500	6.0000	2.5000	1.9062	0.5000	0.5938	0.7812	0.7500

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## STEP BLOCKS, CLAMPS AND STRAPS

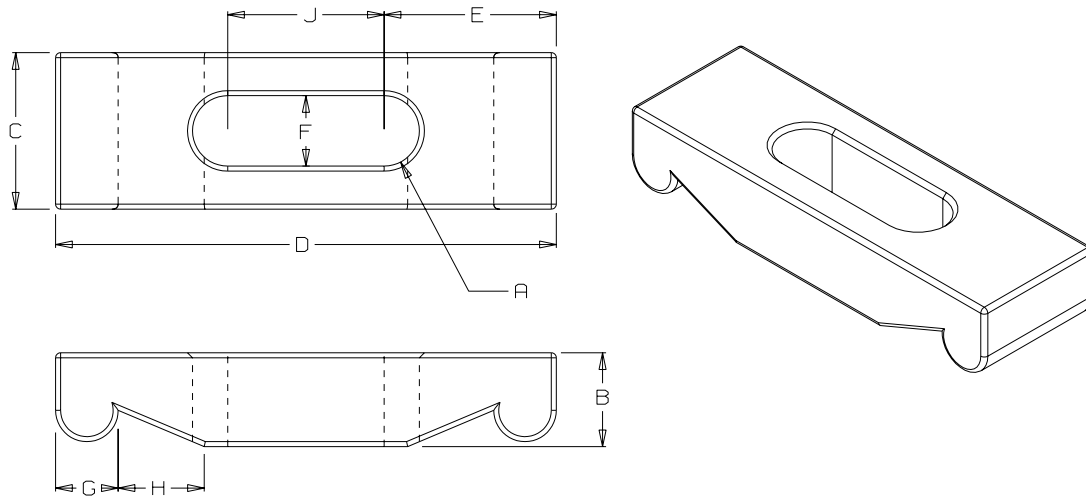
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<b>Instance Name</b>	<b>A</b> Clamp Thick.	<b>B</b> Clamp Width	<b>C</b> Clamp Length	<b>D</b> Slot Location	<b>E</b> Slot Length	<b>F</b> Round Tip Length	<b>G</b> Declined Cut Length	<b>H</b> Slot Width	<b>J</b> Hole Dia.
THCS23	1.0000	1.7500	7.0000	3.0000	2.4062	0.5000	0.5938	0.7812	0.7500
THCS24	1.0000	1.7500	8.0000	3.5000	2.9062	0.5000	0.5938	0.7812	0.7500

## STEP BLOCKS, CLAMPS AND STRAPS

### DOUBLE END CLAMP STRAP



### Generic Part Name: DECS

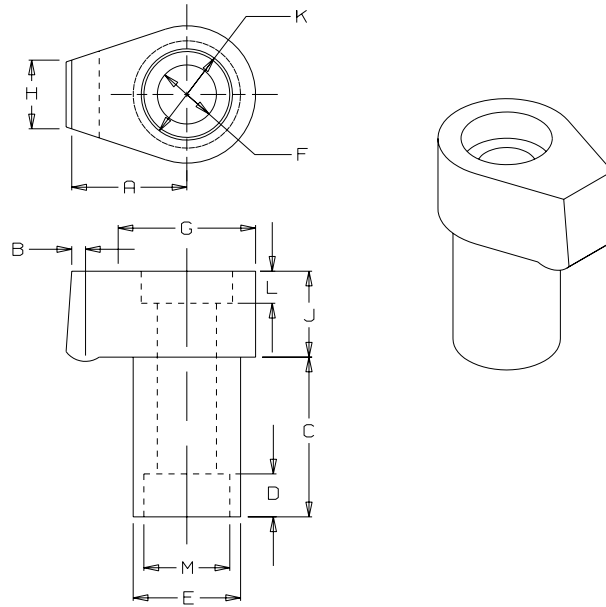
Instance Name	A Stud Dia.	B Clamp Height	C Clamp Width	D Clamp Length	E Hole Dist.	F Hole Width	G Nose Width	H Slope Width	J Hole Centers
DECS1	0.250	0.3750	0.6250	2.0000	0.6875	0.2813	0.2500	0.3438	0.6250
DECS2	0.250	0.3750	0.6250	2.5000	0.8750	0.2813	0.2500	0.3438	0.7500
DECS3	0.375	0.5000	1.1250	3.0000	1.0000	0.4063	0.4063	0.5000	1.0000
DECS4	0.375	0.5000	1.1250	4.0000	1.5000	0.4063	0.4063	0.5000	1.0000
DECS5	0.375	0.5000	1.1250	5.0000	2.0000	0.4063	0.4063	0.5000	1.0000
DECS6	0.500	0.6250	1.2500	4.0000	1.5000	0.5313	0.4063	0.5000	1.0000
DECS7	0.500	0.6250	1.2500	5.0000	2.0000	0.5313	0.4063	0.5000	1.0000
DECS8	0.500	0.6250	1.2500	6.0000	2.5000	0.5313	0.4063	0.5000	1.0000
DECS9	0.625	0.7500	1.5000	5.0000	1.8750	0.6563	0.5000	0.5938	1.2500
DECS10	0.625	0.7500	1.5000	6.0000	2.3750	0.6563	0.5000	0.5938	1.2500
DECS11	0.750	1.0000	1.7500	6.0000	2.1250	0.7813	0.5000	0.5938	1.7500
DECS12	0.750	1.0000	1.7500	7.0000	2.6250	0.7813	0.5000	0.5938	1.7500
DECS13	0.750	1.0000	1.7500	7.5000	2.8750	0.7813	0.5000	0.5938	1.7500
DECS14	0.750	1.0000	1.7500	8.0000	3.0000	0.7813	0.5000	0.5938	2.0000

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## STEP BLOCKS, CLAMPS AND STRAPS

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### HOOK CLAMP



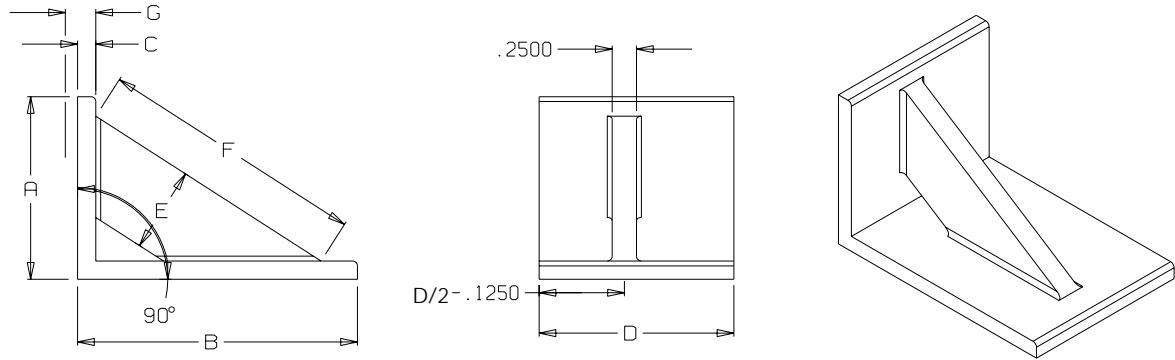
### Generic Part Name: HC

Instance Name	A Head Length	B Press. Point Dist.	C Clamp Length	D Spring Seat Depth	E Clamp Dia.	F Hole Dia.	G Head Dia.	H Head Width	J Head Height	K Cbore Dia.	L Cbore Depth	M Spring Seat Dia.
HC1	0.6700	0.0800	0.9300	0.2500	0.6250	0.3440	0.800	0.400	0.5000	0.5312	0.1870	0.5000
HC2	0.9200	0.1200	1.6300	0.5000	0.8750	0.5310	1.080	0.500	0.5720	0.8125	0.3750	0.6750
HC3	1.3000	0.1800	1.8300	0.7000	1.1250	0.6560	1.380	0.750	0.8180	1.0000	0.5000	0.9375

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# BRACKETS AND PLATES

## GUSSETED ANGLE BRACKET



### Generic Part Name: GAB

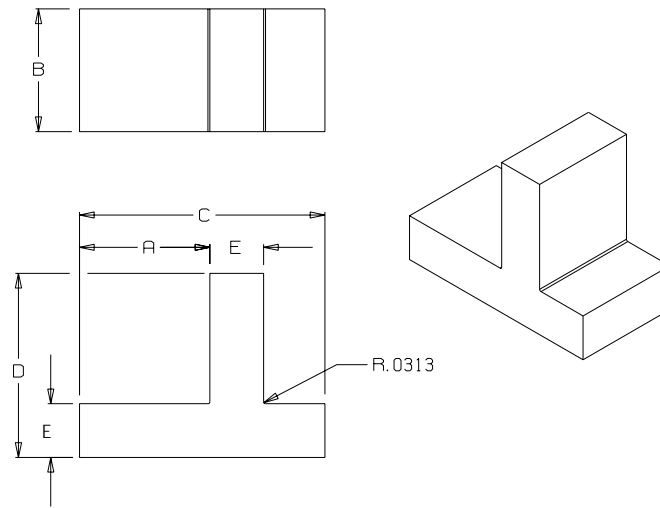
Instance Name	A Angle Height	B Angle Width	C Angle Thickness	D Bracket Height	E Bracket Length	F Stock Thickness	G Stock Thickness
GAB1	2.0000	3.0000	0.3125	2.0000	0.8750	2.7500	0.375
GAB2	2.0000	3.0000	0.3125	3.0000	0.8750	2.7500	0.375
GAB3	3.0000	3.0000	0.3125	2.0000	1.0000	3.4375	0.375
GAB4	3.0000	3.0000	0.3125	3.0000	1.0000	3.4375	0.375
GAB5	3.0000	3.0000	0.3125	4.0000	1.0000	3.4375	0.375
GAB6	4.0000	4.0000	0.3125	3.0000	1.0000	4.8125	0.375
GAB7	4.0000	4.0000	0.3125	4.0000	1.0000	4.8125	0.375
GAB8	4.0000	4.0000	0.3125	5.0000	1.0000	4.8125	0.375
GAB9	3.0000	3.0000	0.4375	2.0000	1.0000	3.2500	0.500
GAB10	3.0000	3.0000	0.4375	3.0000	1.0000	3.2500	0.500
GAB11	3.0000	3.0000	0.4375	4.0000	1.0000	3.2500	0.500
GAB12	3.0000	4.0000	0.4375	2.0000	1.2500	3.8750	0.500
GAB13	3.0000	4.0000	0.4375	3.0000	1.2500	3.8750	0.500
GAB14	4.0000	4.0000	0.4375	3.0000	1.0000	4.6250	0.500
GAB15	4.0000	4.0000	0.4375	4.0000	1.0000	4.6250	0.500
GAB16	4.0000	4.0000	0.4375	5.0000	1.0000	4.6250	0.500
GAB17	6.0000	4.0000	0.4375	4.0000	1.5000	6.2500	0.500
GAB18	6.0000	4.0000	0.4375	5.0000	1.5000	6.2500	0.500
GAB19	6.0000	4.0000	0.4375	6.0000	1.5000	6.2500	0.500
GAB20	6.0000	6.0000	0.4375	4.0000	1.5000	7.4375	0.500
GAB21	6.0000	6.0000	0.4375	5.0000	1.5000	7.4375	0.500
GAB22	6.0000	6.0000	0.4375	6.0000	1.5000	7.4375	0.500
GAB23	6.5000	6.0000	0.4375	5.0000	1.5000	7.6250	0.500
GAB24	6.5000	6.0000	0.4375	6.0000	1.5000	7.6250	0.500

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## BRACKETS AND PLATES

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### T - ANGLE PLATE

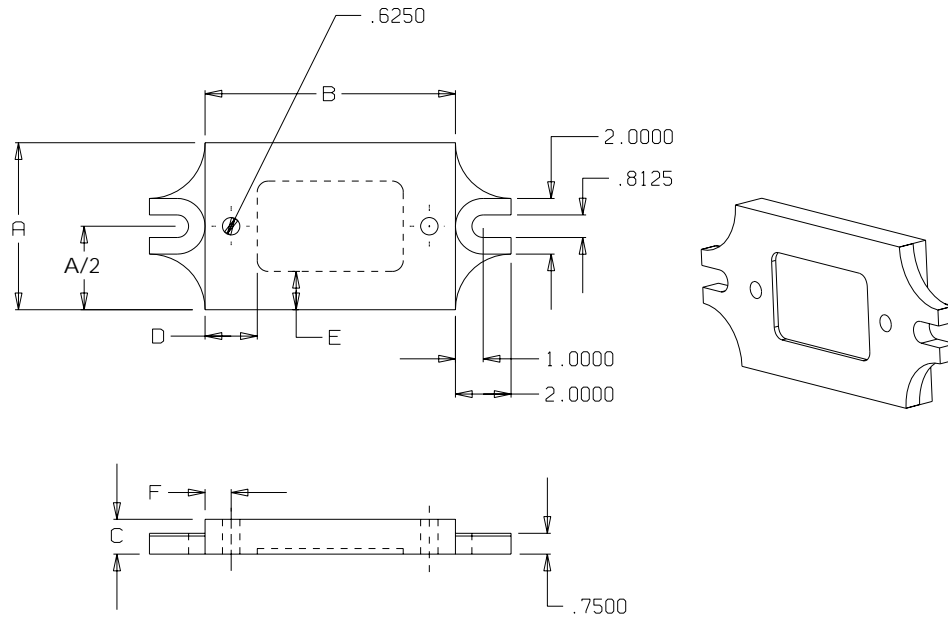


### Generic Part Name: TAP

Instance Name	A Rib Dist.	B Plate Width	C Plate Length	D Plate Height	E Rib Thick.
TAP1	2.1250	2.0000	4.0000	3.0000	0.8750
TAP2	2.6250	2.5000	4.5000	3.6250	0.8750
TAP3	3.0625	3.0000	5.0000	4.2500	0.9375
TAP4	3.5625	3.5000	5.5000	4.7500	0.9375
TAP5	4.2500	4.0000	6.2500	5.3750	1.0000
TAP6	4.7500	4.5000	6.7500	5.8750	1.0000
TAP7	5.1875	5.0000	7.2500	6.4375	1.0625

# FIXTURE BASES

## MILL FIXTURE BASE

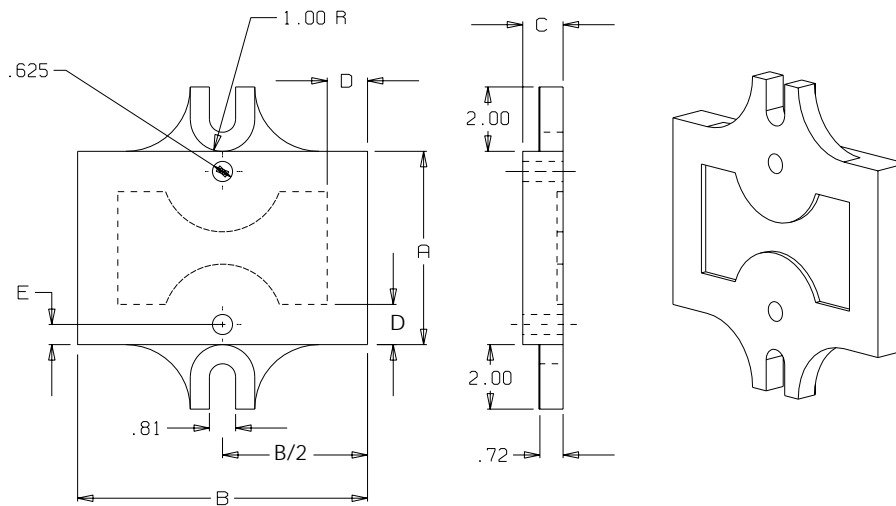


### Generic Part Name: MFB

Instance Name	A Base Width	B Base Length	C Base Thick.	D Cut Horiz. Distance	E Cut Vert. Distance	F Hole Distance
MFB1	6.0000	9.0000	1.2500	1.8750	1.3750	0.9375
MFB2	8.0000	12.0000	1.3750	2.0000	1.6250	1.0000
MFB3	10.0000	15.0000	1.5000	2.0000	1.7500	1.0000
MFB4	12.0000	18.0000	1.7500	2.2500	2.0000	1.1250
MFB5	15.0000	22.5000	2.0000	2.5000	2.2500	1.2500

## FIXTURE BASES

### GANG MILL FIXTURE BASE



**Generic Part Name: GMFB**

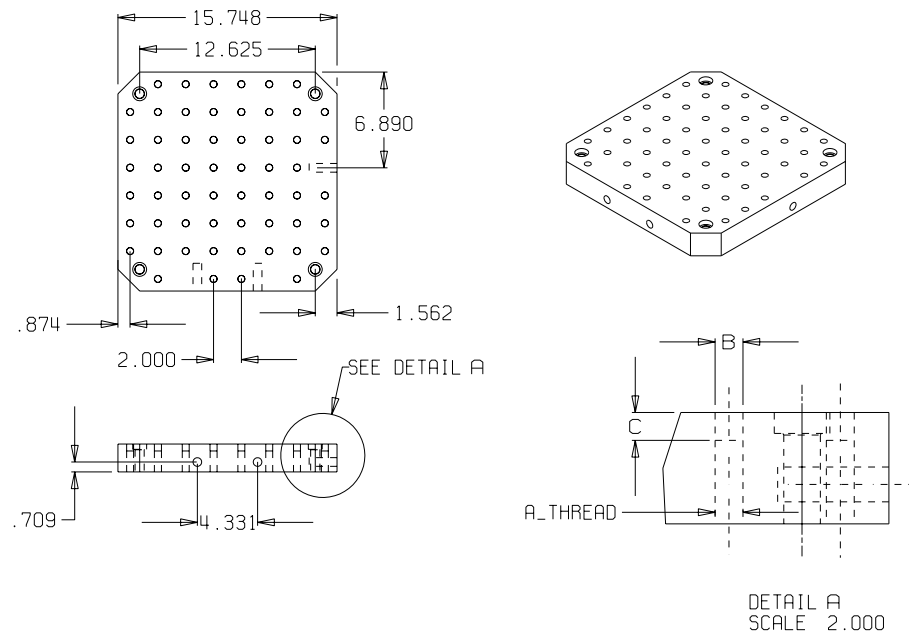
Instance Name	A Base Width	B Base Length	C Base Thick.	D Cut Length	E Hole Dist.
GMFB1	6.0000	9.0000	1.2500	1.2500	0.6250
GMFB2	8.0000	12.0000	1.3750	1.2500	0.6250
GMFB3	10.0000	15.0000	1.5000	1.3750	0.6875
GMFB4	12.0000	18.0000	1.7500	1.5000	0.7500

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# MODULAR FIXTURING BLOCKS AND PLATES

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## SQUARE TOOLING PLATE

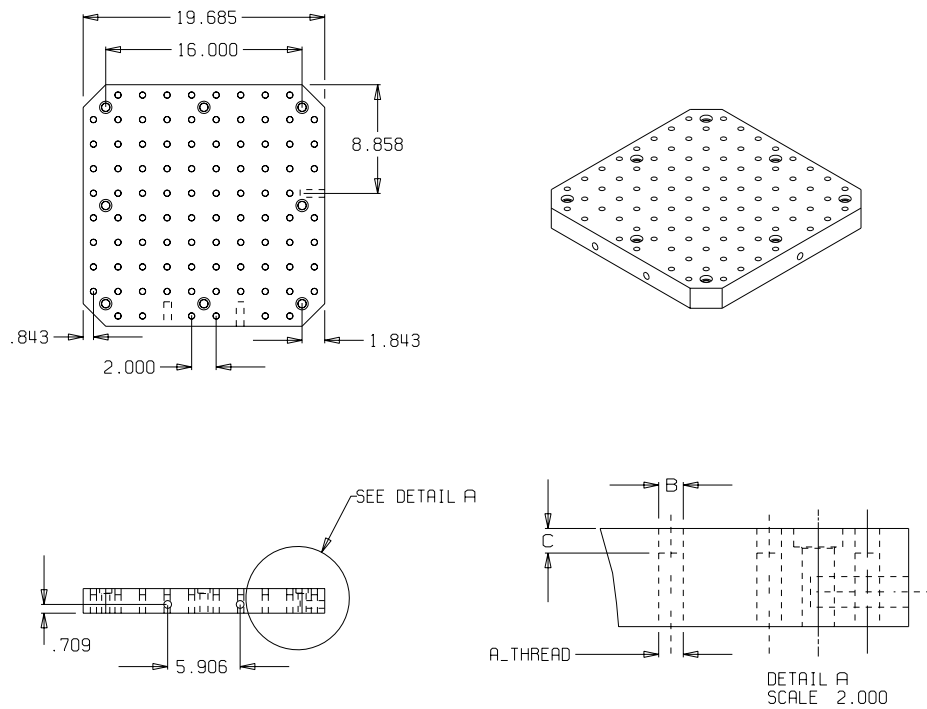


### Generic Part Name: STP

Instance Name	Pallet Size (mm)	A_THREAD Thread Dia.	Threads Per Inch	B Cbore Diameter	C Cbore Height	No. Posit. Holes	No. Mount. Holes	Weight (lbs.)
STPSTAND	400.000	0.5000	13	0.5013	0.5000	57.000	4.000	117.000
STPHEAVY	400.000	0.6250	11	0.6263	0.6250	57.000	4.000	113.000

# MODULAR FIXTURING BLOCKS AND PLATES

## SQUARE TOOLING PLATE 1

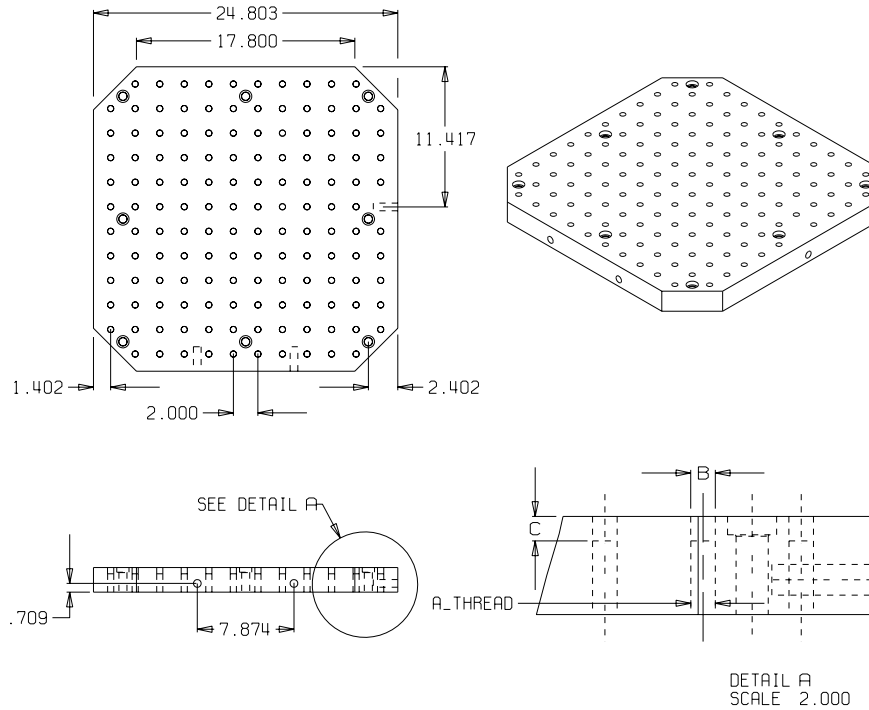


**Generic Part Name: STP1**

Instance Name	Pallet Size (mm)	A_THREAD Thread Dia.	Threads Per Inch	B Cbore Diameter	C Cbore Height	No. Posit. Holes	No. Mount. Holes	Weight (lbs.)
STP1STAND	500.000	0.5000	13.000	0.5013	0.5000	93.000	8.000	181.000
STP1HEAVY	500.000	0.6250	11.000	0.6263	0.6250	93.000	8.000	174.000

# MODULAR FIXTURING BLOCKS AND PLATES

## SQUARE TOOLING PLATE 2

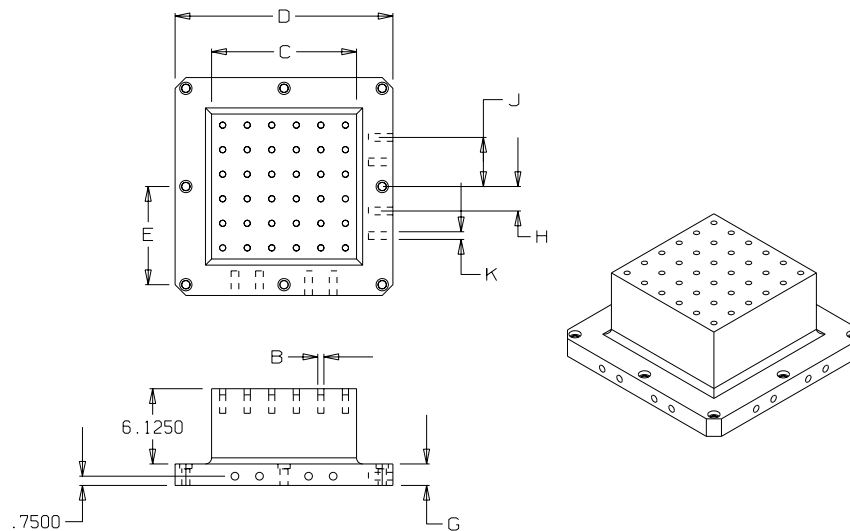


**Generic Part Name: STP2**

Instance Name	Pallet Size (mm)	A_THREAD Thread Dia.	Threads Per Inch	B Cbore Diameter	C Cbore Height	No. Posit. Holes	No. Mount. Holes	Weight (lbs.)
STP2STAND	630.000	0.5000	13.000	0.5013	0.5000	139.000	8.000	295.000
STP2HEAVY	630.000	0.6250	11.000	0.6263	0.6250	139.000	8.000	282.000

# MODULAR FIXTURING BLOCKS AND PLATES

## PLATFORM TOOLING PLATE



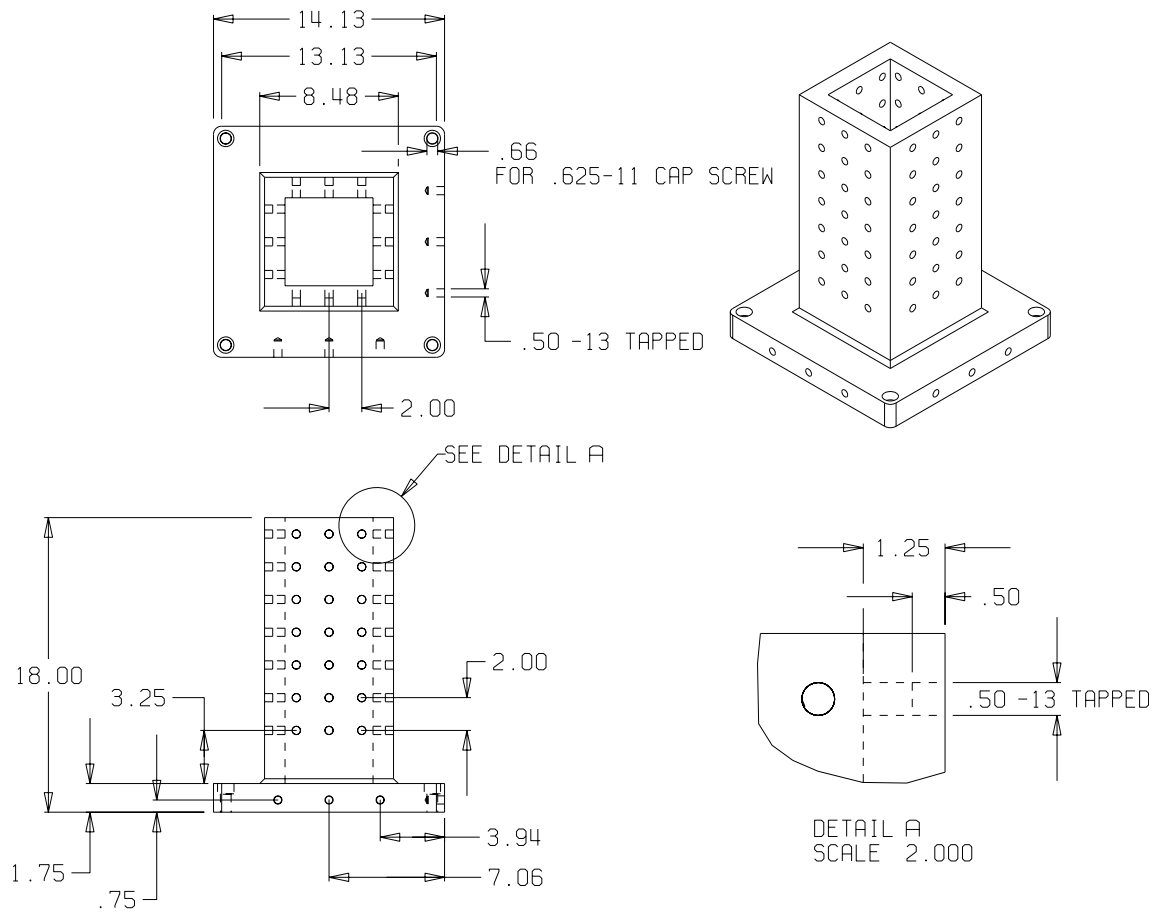
### Generic Part Name: PTP

Instance Name	Pallet Size (mm)	B MTP Hole Dia.	Threads Per Inch	C Plate Width	D Platform Width	E Screw Hole Distance	F Position. Hole Horiz. Dist.	G Platform Thick.	H Tap. Hole Thick.
PTP1	500.000	0.5000	13.000	11.8120	17.7500	8.0000	3.8750	1.7500	2.0000
PTP2	630.000	0.5000	13.000	15.7500	22.8750	10.0000	4.4375	2.0000	2.0000
PTP3	800.000	0.5000	13.000	19.6875	29.5000	13.0000	5.7500	2.1875	3.0000

J Tap Hole Big Dist.	Holes Pos. Holes Per Row	K Screw Hole Diameter	Weight (lbs.)	No Posit. Holes
4.0000	6	0.6250	267.000	36.000
5.0000	8	0.6250	366.000	64.000
7.0000	10	0.6250	600.000	100.000

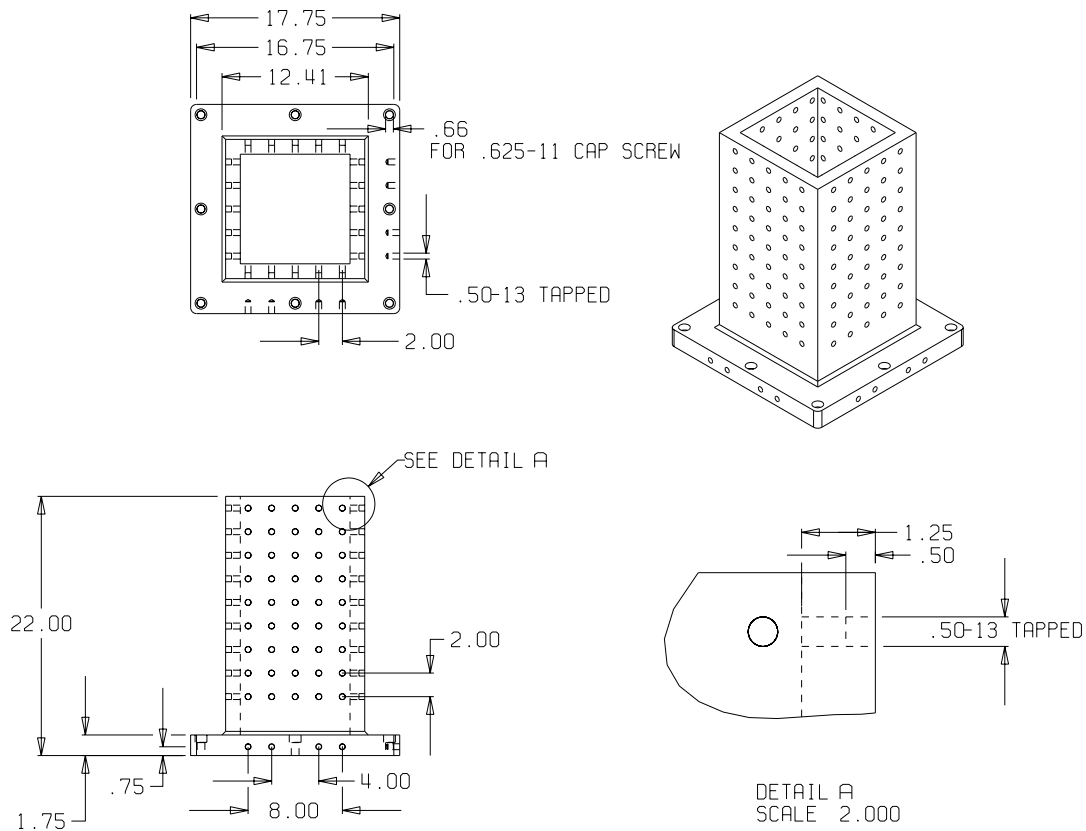
## FOUR SIDED TOOLING BLOCK

Generic Part Name: FSTB

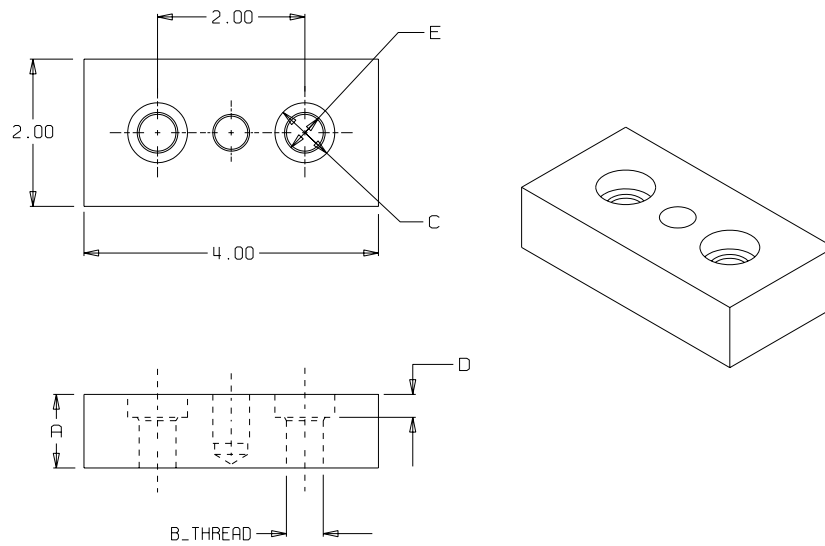


## FOUR SIDED TOOLING BLOCK

Generic Part Name: FSTB1



## HALFWAY EXTENSION SUPPORT



### Generic Part Name: HWES

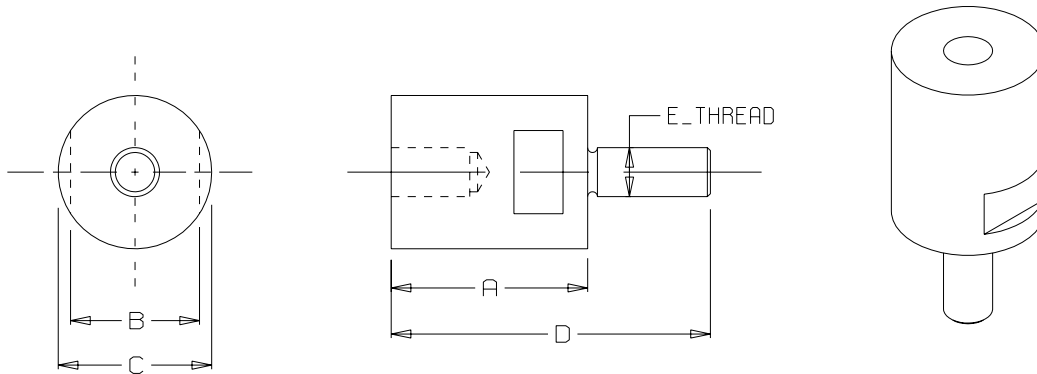
Instance Name	A Support Height	B_THREAD Thread Dia.	Threads Per Inch	C Counterbore Diameter	D Counterbore Height	E Countersink Diameter
HWES1STAND	1.0000	0.5000	13.000	0.8125	0.3120	0.5520
HWES2STAND	1.2500	0.5000	13.000	0.8125	0.3120	0.5520
HWES3STAND	1.5000	0.5000	13.000	0.8125	0.3120	0.5520
HWES4HEAVY	1.0000	0.6250	11.000	1.0000	0.3750	0.6890
HWES5HEAVY	1.2500	0.6250	11.000	1.0000	0.3750	0.6890
HWES6HEAVY	1.5000	0.6250	11.000	1.0000	0.3750	0.6890

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## MODULAR FIXTURING BLOCKS AND PLATES

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### RISER CYLINDER

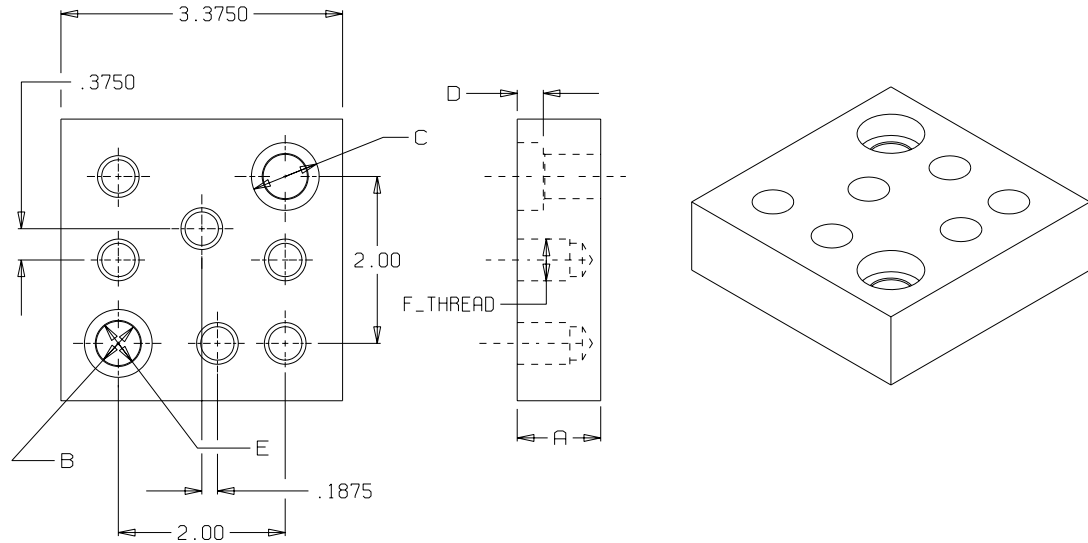


### Generic Part Name: RC

Instance Name	A Cylinder Length	B Flat Width	C Cylinder Diameter	D Riser Length	E_THREAD Thread Dia.	Threads Per Inch
RC1STAND	2.0000	1.3125	1.5625	3.2500	0.5000	13
RC2STAND	3.1250	1.3125	1.5625	4.3750	0.5000	13
RC3STAND	4.0000	1.3125	1.5625	5.2500	0.5000	13
RC4HEAVY	2.0000	1.6875	2.0000	3.2500	0.6250	11
RC5HEAVY	3.1250	1.6875	2.0000	4.3750	0.6250	11
RC6HEAVY	4.0000	1.6875	2.0000	5.2500	0.6250	11

# MODULAR FIXTURING BLOCKS AND PLATES

## RISER BLOCK

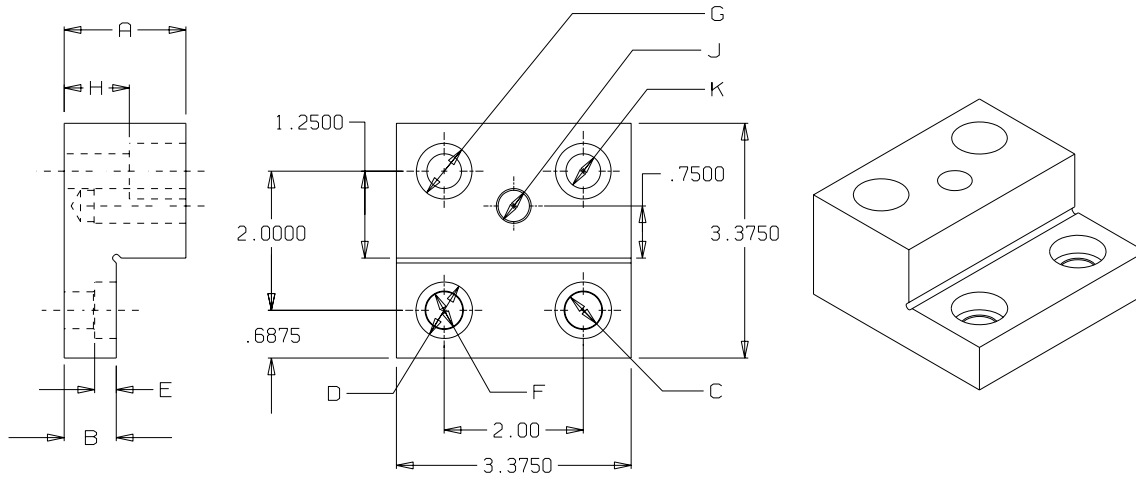


### Generic Part Name: RIB

Instance Name	A Block Height	B Hole Dia.	C Cbore Dia.	D Cbore Height	E Csink Dia.	F_THREAD Thread Dia.	Threads Per Inch
RIB1STAND	1.0000	0.5310	0.8125	0.3120	0.5520	0.5000	13
RIB2STAND	1.2500	0.5310	0.8125	0.3120	0.5520	0.5000	13
RIB3STAND	1.5000	0.5310	0.8125	0.3120	0.5520	0.5000	13
RIB4STAND	2.0000	0.5310	0.8125	0.3120	0.5520	0.5000	13
RIB5HEAVY	1.0000	0.6560	1.0000	0.3750	0.6890	0.6250	11
RIB6HEAVY	1.2500	0.6560	1.0000	0.3750	0.6890	0.6250	11
RIB7HEAVY	1.5000	0.6560	1.0000	0.3750	0.6890	0.6250	11
RIB8HEAVY	2.0000	0.6560	1.0000	0.3750	0.6890	0.6250	11

# MODULAR FIXTURING BLOCKS AND PLATES

## EDGE SUPPORT - SINGLE

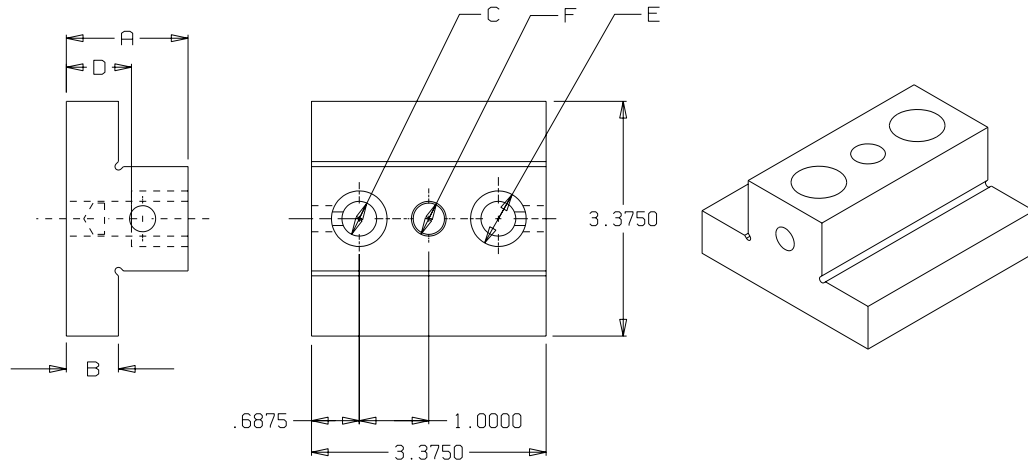


### Generic Part Name: ESS

Instance Name	A Edge Supp. Thick.	B Step Height	C Hole Dia.	D Cbore Dia.	E Cbore Height	F Csink Dia.	G Cbore Bolt Dia.	H Loc. Hole Length	J Thread Dia.	Threads Per Inch	K Loc. Hole Dia.
ESS1STAND	1.7500	0.7500	0.5310	0.8125	0.3120	0.5520	0.8000	0.9375	0.5000	13	0.5000
ESS2STAND	2.0000	1.0000	0.5310	0.8125	0.3120	0.5520	0.8000	0.9375	0.5000	13	0.5000
ESS3STAND	2.2500	1.2500	0.5310	0.8125	0.3120	0.5520	0.8000	0.9375	0.5000	13	0.5000
ESS4STAND	2.5000	1.5000	0.5310	0.8125	0.3120	0.5520	0.8000	0.9375	0.5000	13	0.5000
ESS5STAND	3.0000	2.0000	0.5310	0.8125	0.3120	0.5520	0.8000	0.9375	0.5000	13	0.5000
ESS6STAND	3.5000	2.5000	0.5310	0.8125	0.3120	0.5520	0.8000	0.9375	0.5000	13	0.5000
ESS7STAND	4.5000	3.0000	0.5310	0.8125	0.3120	0.5520	0.8000	1.4375	0.5000	13	0.5000
ESS8STAND	5.5000	4.0000	0.5310	0.8125	0.3120	0.5520	0.8000	1.4375	0.5000	13	0.5000
ESS9STAND	6.5000	5.0000	0.5310	0.8125	0.3120	0.5520	0.8000	1.4375	0.5000	13	0.5000
ESS10HEAVY	2.0000	1.0000	0.6560	1.0000	0.3750	0.6890	1.0000	1.0625	0.6250	11	0.6250
ESS11HEAVY	2.2500	1.2500	0.6560	1.0000	0.3750	0.6890	1.0000	1.0625	0.6250	11	0.6250
ESS12HEAVY	2.5000	1.5000	0.6560	1.0000	0.3750	0.6890	1.0000	1.0625	0.6520	11	0.6250
ESS13HEAVY	3.0000	2.0000	0.6560	1.0000	0.3750	0.6890	1.0000	1.0652	0.6250	11	0.6250
ESS14HEAVY	3.5000	2.5000	0.6560	1.0000	0.3750	0.6890	1.0000	1.0625	0.6250	11	0.6250
ESS15HEAVY	4.5000	3.0000	0.6560	1.0000	0.3750	0.6890	1.0000	1.5625	0.6250	11	0.6250
ESS16HEAVY	5.5000	4.0000	0.6560	1.0000	0.3750	0.6890	1.0000	1.5625	0.6250	11	0.6250
ESS17HEAVY	6.5000	5.0000	0.6560	1.0000	0.3750	0.6890	1.0000	1.5625	0.6250	11	0.6250

# MODULAR FIXTURING BLOCKS AND PLATES

## EDGE SUPPORT - DOUBLE

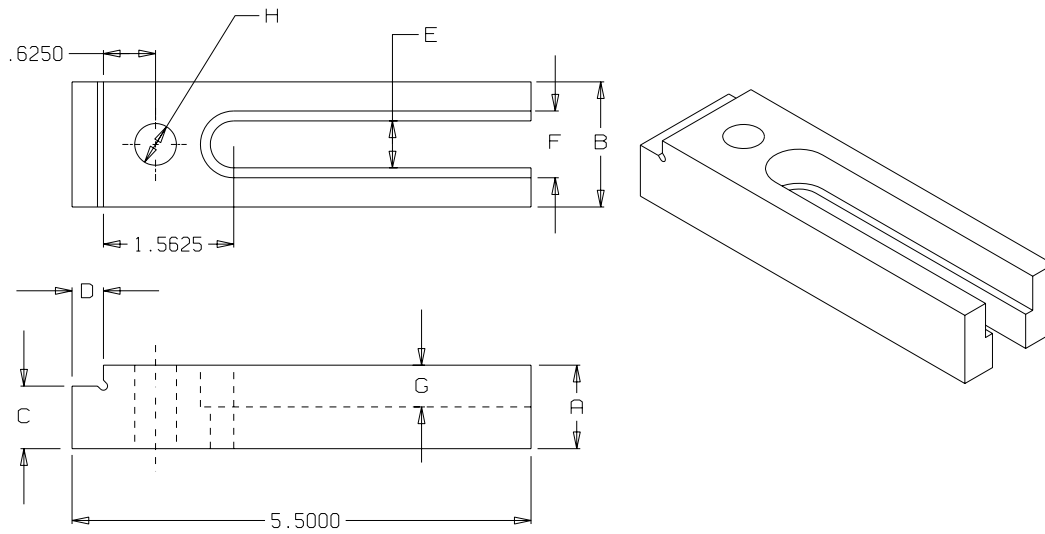


### Generic Part Name: ESD

Instance Name	A Edge Supp. Height	B Step Height	C Loc. Hole Diameter	D Loc. Hole Length	E Counterbore Diameter	F Thread Dia.	Threads Per Inch
ESD1STAND	1.7500	0.7500	0.5000	0.9375	0.8000	0.5000	13
ESD2STAND	2.0000	1.0000	0.5000	0.9375	0.8000	0.5000	13
ESD3STAND	2.2500	1.2500	0.5000	0.9375	0.8000	0.5000	13
ESD4STAND	2.5000	1.5000	0.5000	0.9375	0.8000	0.5000	13
ESD5STAND	3.0000	2.0000	0.5000	0.9375	0.8000	0.5000	13
ESD6STAND	3.5000	2.5000	0.5000	0.9375	0.8000	0.5000	13
ESD7STAND	4.5000	3.0000	0.5000	1.4375	0.8000	0.5000	13
ESD8STAND	5.5000	4.0000	0.5000	1.4375	0.8000	0.5000	13
ESD9STAND	6.5000	5.0000	0.5000	1.4375	0.8000	0.5000	13
ESD10HEAVY	1.7500	0.7500	0.6250	1.0625	1.0000	0.6250	11
ESD11HEAVY	2.0000	1.0000	0.6250	1.0625	1.0000	0.6250	11
ESD12HEAVY	2.2500	1.2500	0.6250	1.0625	1.0000	0.6250	11
ESD13HEAVY	2.5000	1.5000	0.6250	1.0625	1.0000	0.6250	11
ESD14HEAVY	3.0000	2.0000	0.6250	1.0625	1.0000	0.6250	11
ESD15HEAVY	3.5000	2.5000	0.6250	1.0625	1.0000	0.6250	11
ESD16HEAVY	4.5000	3.0000	0.6250	1.5625	1.0000	0.6250	11
ESD17HEAVY	5.5000	4.0000	0.6250	1.5625	1.0000	0.6250	11
ESD18HEAVY	6.5000	5.0000	0.6250	1.5625	1.0000	0.6250	11

# MODULAR FIXTURING BLOCKS AND PLATES

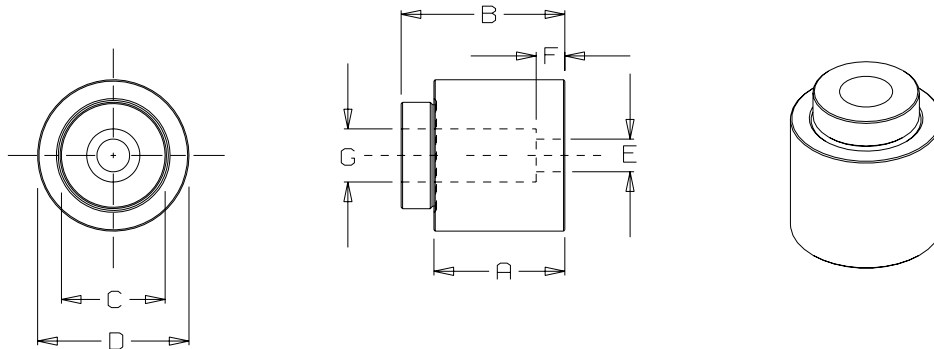
## EXTENSION SUPPORT



## Generic Part Name: ES

Instance Name	A Ext. Sup. Thick.	B Ext. Sup. Width	C Step Height	D Step Width	E Cut Width	F Slot Width	G Slot Depth	H Thread Dia.	Threads Per Inch
ES1STAND	1.0000	1.5000	0.7500	0.3750	0.5625	0.8000	0.5000	0.5000	13
ES2STAND	1.2500	1.5000	1.0000	0.3750	0.5625	0.8000	0.5000	0.5000	13
ES3STAND	2.0000	1.5000	1.5000	0.3750	0.5625	0.8000	0.5000	0.5000	13
ES4HEAVY	1.0000	2.0000	0.7500	0.5000	0.6875	1.0000	0.6250	0.6250	11
ES5HEAVY	1.2500	2.0000	1.0000	0.5000	0.6875	1.0000	0.6250	0.6250	11
ES6HEAVY	2.0000	2.0000	1.5000	0.5000	0.6875	1.0000	0.6250	0.6250	11

## SUPPORT CYLINDER



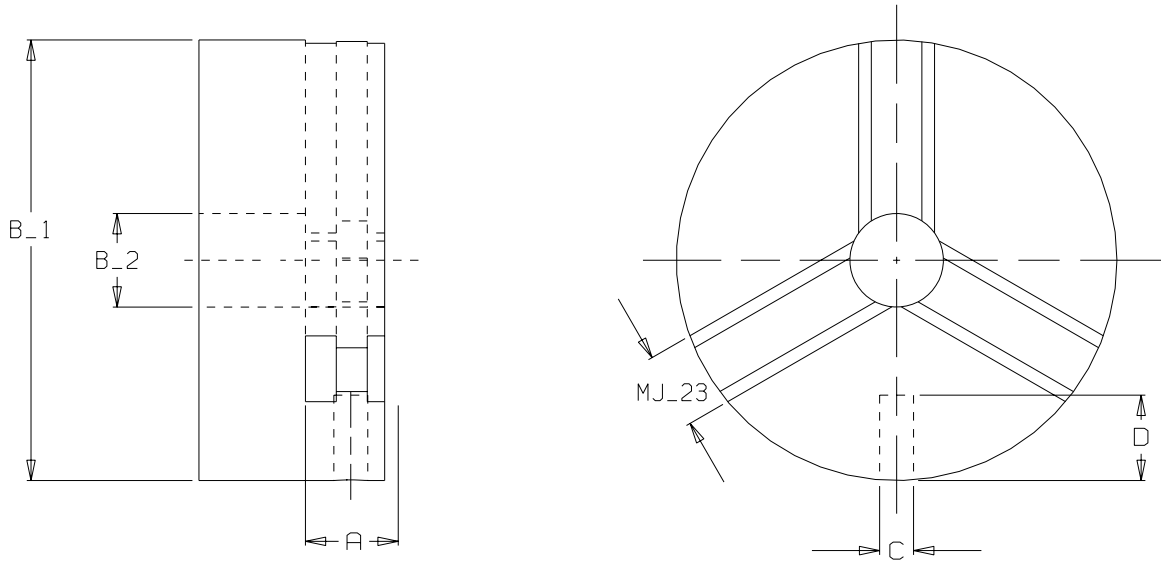
### Generic Part Name: SUC

Instance Name	A Shoulder Length	B Cylinder Length	C Shoulder Diameter	D Cylinder Diameter	E Hole Diameter	F Hole Length	G Cbores Diameter
SUC1STAND	0.7500	1.0000	1.6250	2.3125	0.5000	0.4375	0.8125
SUC2STAND	1.0000	1.2500	1.6250	2.3125	0.5000	0.4375	0.8125
SUC3STAND	1.2500	1.5000	1.6250	2.3125	0.5000	0.4375	0.8125
SUC4STAND	1.5000	2.0000	1.6250	2.3125	0.5000	0.4375	0.8125
SUC5STAND	2.0000	2.5000	1.6250	2.3125	0.5000	0.4375	0.8125
SUC6STAND	2.5000	3.0000	1.6250	2.3125	0.5000	0.4375	0.8125
SUC7STAND	3.0000	4.0000	1.6250	2.3125	0.5000	0.9375	0.8125
SUC8STAND	4.0000	5.0000	1.6250	2.3125	0.5000	0.9375	0.8125
SUC9HEAVY	0.7500	1.0000	2.0000	2.8750	0.6250	0.5625	1.0000
SUC10HEAVY	1.0000	1.2500	2.0000	2.8750	0.6250	0.5625	1.0000
SUC11HEAVY	1.2500	1.5000	2.0000	2.8750	0.6250	0.5625	1.0000
SUC12HEAVY	1.5000	2.0000	2.0000	2.8750	0.6250	0.5625	1.0000
SUC13HEAVY	2.0000	2.5000	2.0000	2.8750	0.6250	0.5625	1.0000
SUC14HEAVY	2.5000	3.0000	2.0000	2.8750	0.6250	0.5625	1.0000
SUC15HEAVY	3.0000	4.0000	2.0000	2.8750	0.6250	1.0625	1.0000
SUC16HEAVY	4.0000	5.0000	2.0000	2.8750	0.6250	1.0625	1.0000

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# CHUCKS AND JAWS

## CLASS I - MEDIUM DUTY WRENCH OPERATED CHUCKS



### Generic Part Name: MC

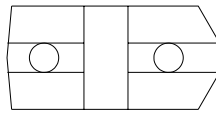
#### Notes:

1. Corresponds to standard ANSI B5.8-1972
2. Enter values exactly as shown.
3. “\*” denotes a non-existent value.

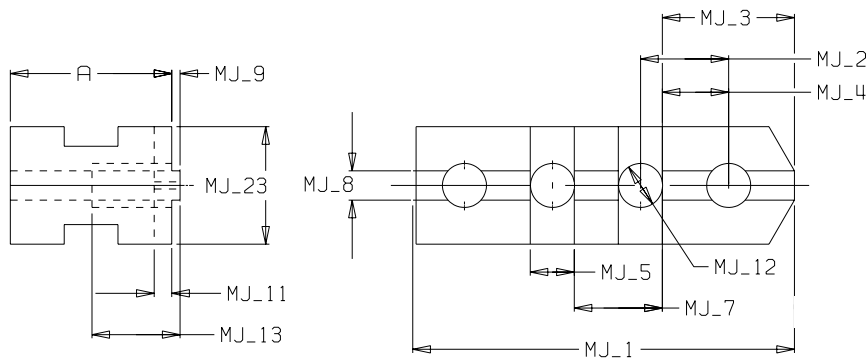
Instance Name	B_1 Body Dia.	B_4 Dia. of Center	MJ_23 Jaw Width	A Jaw Height	Eye Bolt	C Eye Bolt Dia.	D Eye Bolt Thd Dia.	Eye Bolt Thd/In.
CHUCK6	6.50	1.38	1.12	1.37	N	*	*	*
CHUCK8	8.25	1.50	1.12	1.87	N	*	*	*
CHUCK10	10.00	2.12	1.76	1.87	N	*	*	*
CHUCK12	12.00	3.00	1.76	2.12	Y	0.50	1.26	13.000
CHUCK15	15.00	3.25	2.00	2.25	Y	0.50	1.26	13.000
CHUCK18	18.00	4.25	2.00	2.75	Y	0.75	1.26	10.000
CHUCK21	21.00	4.25	2.00	2.75	Y	0.75	1.26	10.000
CHUCK24	24.00	5.00	2.00	2.75	Y	0.75	1.26	10.000
CHUCK28	28.00	6.00	2.88	2.75	Y	0.75	1.26	10.000
CHUCK32	32.00	6.00	2.88	2.75	Y	0.75	1.26	10.000
CHUCK36	36.00	6.00	2.88	2.75	Y	0.75	1.26	10.000

## CHUCKS AND JAWS

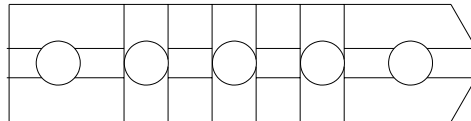
### JAWS FOR CLASS I CHUCKS



MASTER JAW FOR CHUCKS  
LESS THAN 18 INCH



MASTER JAW FOR  
18 INCH CHUCK



MASTER JAW FOR 21  
TO 36 INCH CHUCKS

### Generic Part Name: MMJ

#### Notes:

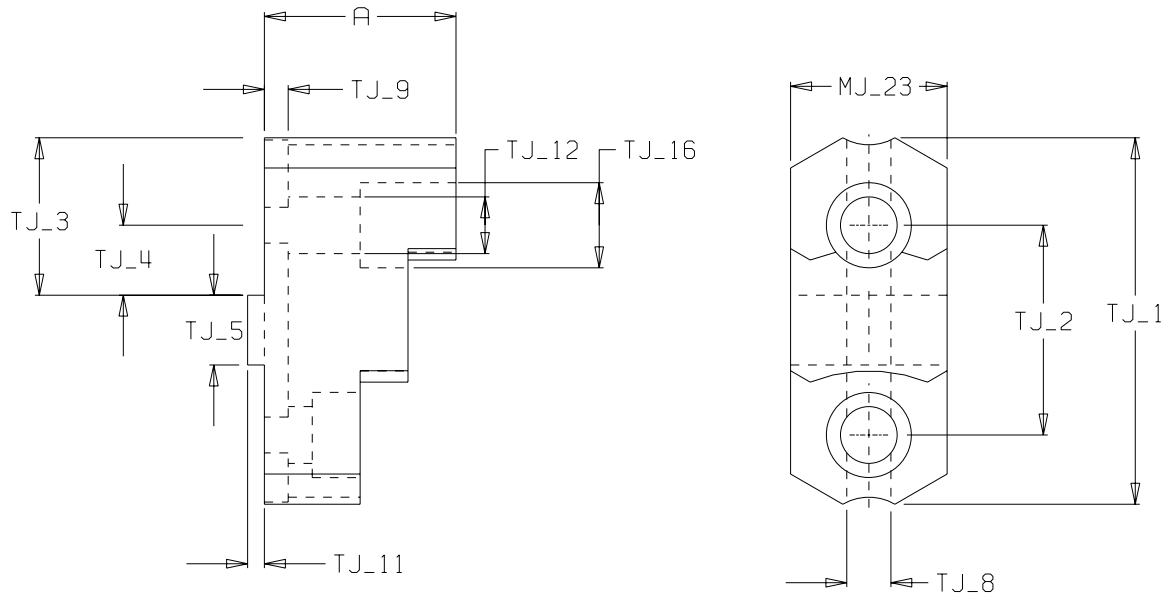
1. See the table on the next page.
2. Corresponds to standard ANSI B5.8-1972.
3. Enter values exactly as shown.
4. “\*” denotes a non-existent value.
5. To match jaw to chuck, use parts with same body diameter.

### Jaws for Class I Chucks

Instance Name	B_1 Body Dia.	MJ_1 Jaw Length	MJ_23 Jaw Width	A Jaw Height	MJ_8 Tongue Width	MJ_9 Tongue Height	MJ_5 Cross Slot Width	MJ_11 Cross Slot Depth	MJ_7 Cross Slot to Cross Slot	MJ_12 Tapped Hole Dia.	MJ_13 Thread Depth	MJ_17 Hole Cntr. to Cntr.	MJ_3 Cross Slot to Bite	MJ_4 Screw Cntr. to Cross Slot	NO. CROSS SLOTS	NO. TAPPED HOLES	THRD PER INCH
JAW6	6.50	2.56	1.12	1.37	0.31	0.14	0.50	0.18	*	0.38	0.76	1.50	1.12	0.50	1	2	16.000
JAW8	8.25	3.06	1.12	1.87	0.31	0.14	0.50	0.18	*	0.38	0.76	1.75	1.38	0.62	1	2	16.000
JAW10	10.00	3.62	1.76	1.87	0.50	0.14	0.75	0.18	*	0.50	0.88	2.12	1.56	0.69	1	2	13.000
JAW12	12.00	4.25	1.76	2.12	0.50	0.14	0.75	0.18	*	0.50	1.00	1.25	1.88	0.88	1	3	13.000
JAW15	15.00	5.00	2.00	2.25	0.50	0.14	0.75	0.30	*	0.63	1.12	1.50	2.25	1.13	1	3	11.000
JAW18	18.00	6.50	2.00	2.75	0.50	0.14	0.75	0.30	1.50	0.75	1.50	1.50	2.25	1.13	2	4	10.000
JAW21	21.00	8.00	2.00	2.75	0.50	0.14	0.75	0.30	1.50	0.75	1.50	1.50	2.25	1.13	3	5	10.000
JAW24	24.00	8.00	2.00	2.75	0.50	0.14	0.75	0.30	1.50	0.75	1.50	1.50	2.25	1.13	3	5	10.000
JAW28	28.00	8.00	2.88	2.75	0.50	0.14	0.75	0.30	1.50	0.75	1.50	1.50	2.25	1.13	3	5	10.000
JAW32	32.00	8.00	2.88	2.75	0.50	0.14	0.75	0.30	1.50	0.75	1.50	1.50	2.25	1.13	3	5	10.000
JAW36	36.00	8.00	2.88	2.75	0.50	0.14	0.75	0.30	1.50	0.75	1.50	1.50	2.25	1.13	3	5	10.000

## CHUCKS AND JAWS

### THREE STEP REVERSIBLE TOP JAWS FOR CLASS I CHUCKS



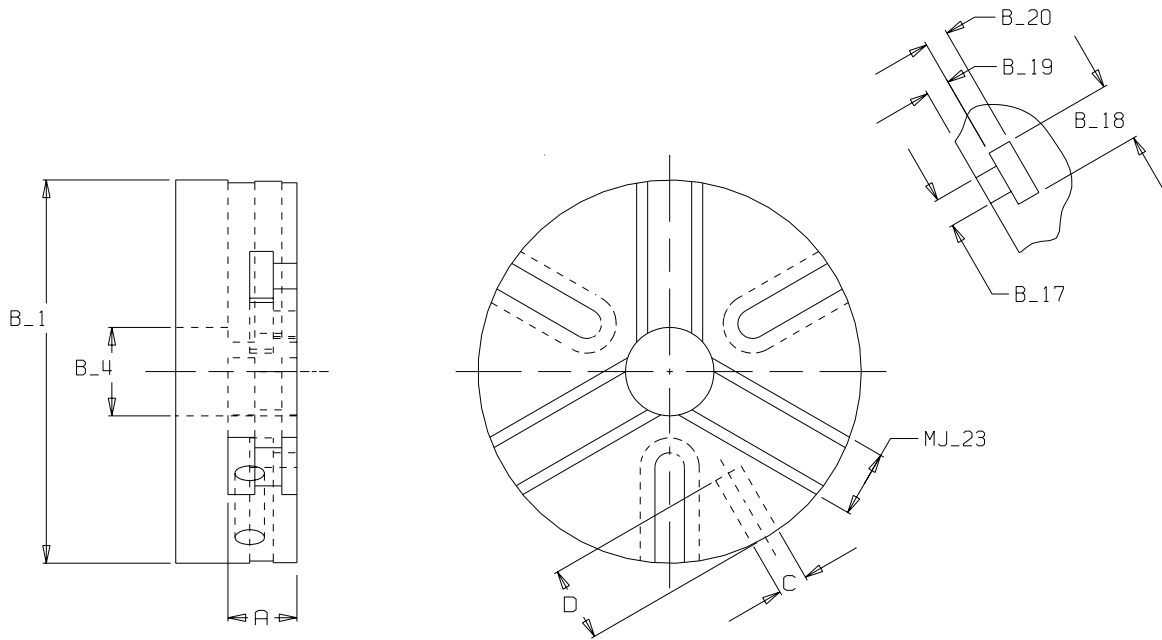
#### Generic Part Name: MTJ

##### Notes:

1. Corresponds to standard ANSI B5.8-1972.
2. Enter values exactly as shown.

Instance Name	TJ_1 Jaw Length	MJ_23 Jaw Width	A Jaw Height	TJ_2 Hole Cntr. to Cntr.	TJ_3 Cross Key to Bite	TJ_4 Hole Cntr. to Slot Edge	TJ_5 Cross Key Width	TJ_11 Cross Key Height	TJ_8 Tongue Slot Width	TJ_9 Tongue Slot Depth	TJ_12 Drill Size for Screw	TJ_16 C bore for Screw
TJ6	2.6200	1.1200	1.3700	1.5000	1.1200	0.5000	0.4990	0.1200	0.3150	0.1700	0.4060	0.6090
TJ8	3.1200	1.1200	1.8700	1.7500	1.3800	0.6250	0.4990	0.1200	0.3150	0.1700	0.4060	0.6090
TJ10	3.7600	1.7600	1.8700	2.1200	1.5600	0.6880	0.7490	0.1200	0.5030	0.1700	0.5310	0.7970
TJ12	4.3000	1.7600	2.1200	2.5000	1.8800	0.8750	0.7490	0.1200	0.5030	0.1700	0.5310	0.7970
TJ15	5.0000	2.0000	2.2500	3.0000	2.2500	1.1250	0.7490	0.2500	0.5030	0.1700	0.6560	1.0000
TJ18	5.0000	2.0000	2.7500	3.0000	2.2500	1.1250	0.7490	0.2500	0.5030	0.1700	0.7810	1.1880
TJ21	5.0000	2.0000	2.7500	3.0000	2.2500	1.1250	0.7490	0.2500	0.5030	0.1700	0.7810	1.1880
TJ24	5.0000	2.0000	2.7500	3.0000	2.2500	1.1250	0.7490	0.2500	0.5030	0.1700	0.7810	1.1880
TJ28	5.0000	2.8800	2.7500	3.0000	2.2500	1.1250	0.7490	0.2500	0.5030	0.1700	0.7810	1.1880
TJ32	5.0000	2.8800	2.7500	3.0000	2.2500	1.1250	0.7490	0.2500	0.5030	0.1700	0.7810	1.1880
TJ36	5.0000	2.8800	2.7500	3.0000	2.2500	1.1250	0.7490	0.2500	0.5030	0.1700	0.7810	1.1880

**CLASS II - HEAVY DUTY WRENCH OPERATED CHUCKS**



**Generic Part Name: HCH**

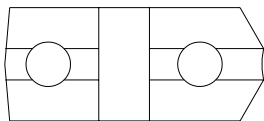
**Notes**

1. Corresponds to standard ANSI B5.8-1972.
2. Enter values exactly as shown.
3. "\*" denotes a non-existent value.

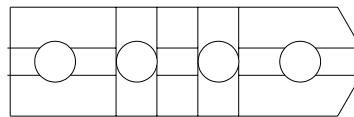
Instance Name	B_1 Body Dia.	B_4 Dia. of Center	B_17 Throat Width	B_18 Head Space Width	B_19 Throat Depth	B_20 Head Space Depth	MJ_23 Jaw Width	A Jaw Height	C Eye Bolt Dia.	D Eye Bolt Thread Depth	Eye Bolt Thd/In.
HCH6	6.50	1.50	*	*	*	*	1.120	1.370	*	*	*
HCH8	8.25	2.12	*	*	*	*	1.120	1.870	*	*	*
HCH10	10.00	3.12	*	*	*	*	1.760	1.870	*	*	*
HCH12	12.00	3.12	0.69	1.25	0.44	0.45	1.760	2.120	0.50	1.26	13.000
HCH15	15.00	5.12	0.81	1.47	0.56	0.59	2.000	2.250	0.50	1.26	13.000
HCH18	18.00	5.12	0.81	1.47	0.56	0.59	2.000	2.750	0.75	1.26	10.000
HCH21	21.00	8.12	0.81	1.47	0.56	0.59	2.000	2.750	0.75	1.26	10.000
HCH24	24.00	8.12	0.81	1.47	0.56	0.59	2.000	2.750	0.75	1.26	10.000
HCH28	28.00	12.75	0.81	1.47	0.56	0.59	2.880	2.750	0.75	1.26	10.000
HCH32	32.00	12.75	0.81	1.47	0.56	0.59	2.880	2.750	0.75	1.26	10.000
HCH36	36.00	12.75	0.81	1.47	0.56	0.59	2.880	2.750	0.75	1.26	10.000

## CHUCKS AND JAWS

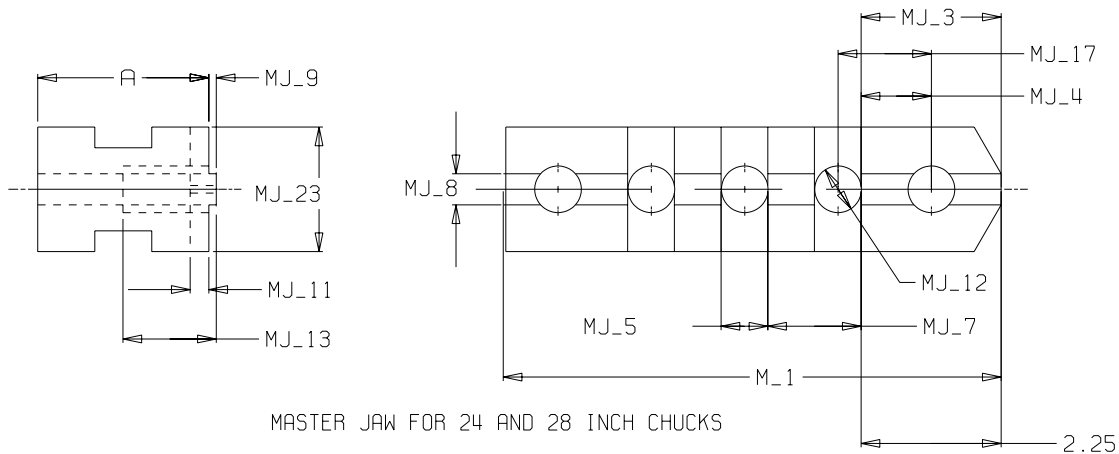
### JAWS FOR CLASS II WRENCH OPERATED CHUCKS



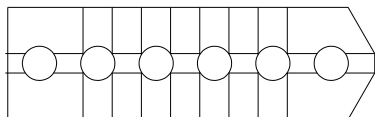
MASTER JAW FOR CHUCKS  
LESS THAN 18 INCHES



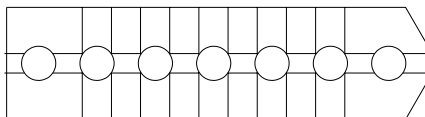
MASTER JAW FOR 18  
AND 21 INCH CHUCKS



MASTER JAW FOR 24 AND 28 INCH CHUCKS



MASTER JAW FOR  
32 INCH CHUCKS



MASTER JAW FOR  
36 INCH CHUCKS

### Generic Part Name: HMJ

#### Notes

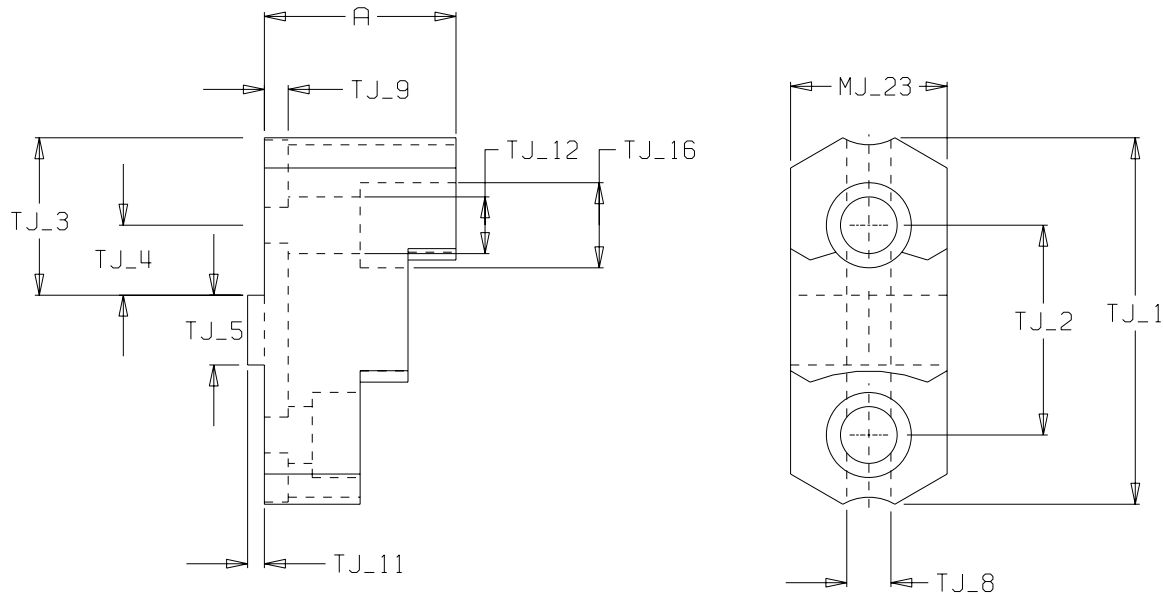
1. Corresponds to standard ANSI B5.8-1972.
2. Enter values exactly as shown.
3. "\*" denotes a non-existent value.

**Jaws for Class II Draw Bar Operated Chucks**

Instance Name	B_1 Body Dia.	MJ_1 Jaw Length	MJ_23 Jaw Width	C Jaw Height	MJ_8 Tongue Width	MJ_9 Tongue Height	MJ_5 Cross Slot Width	MJ_11 Cross Slot Depth	MJ_7 Cross Slot to Cross Slot	MJ_12 Tapped Hole Dia.	MJ_13 Thread Depth	MJ_17 Hole Cntr. to Cntr.	MJ_6 Cross Slot to Bite	MJ_4 Screw Cntr. to Cross Slot	No. Crossed Slots	No. Tapped Holes	Thrd. Per Inch
HMJ6	6.50	2.56	1.12	1.37	0.31	0.12	0.50	0.17	*	0.44	0.76	1.50	1.13	0.50	1	2	14.000
HMJ8	8.25	3.06	1.12	1.87	0.31	0.12	0.50	0.17	*	0.50	0.85	1.75	1.38	0.63	1	2	13.000
HMJ10	10.00	3.62	1.76	1.87	0.50	0.12	0.75	0.17	*	0.63	1.06	2.13	1.56	0.69	1	2	11.000
HMJ12	12.00	4.26	1.76	2.12	0.50	0.12	0.75	0.17	*	0.63	1.20	1.25	1.88	0.88	1	3	11.000
HMJ15	15.00	5.00	2.00	2.25	0.50	0.12	0.75	0.30	*	0.75	1.50	1.50	2.25	1.13	1	3	10.000
HMJ18	18.00	6.50	2.00	2.75	0.50	0.12	0.75	0.30	1.50	0.75	1.50	1.50	2.25	1.13	2	4	10.000
HMJ21	21.00	6.50	2.00	2.75	0.50	0.12	0.75	0.30	1.50	0.75	1.50	1.50	2.25	1.13	2	4	10.000
HMJ24	24.00	8.00	2.00	2.75	0.50	0.12	0.75	0.30	1.50	0.75	1.50	1.50	2.25	1.13	3	5	10.000
HMJ28	28.00	8.00	2.88	2.75	0.50	0.12	0.75	0.30	1.50	0.88	1.50	1.50	2.25	1.13	3	5	9.000
HMJ32	32.00	9.50	2.88	2.75	0.50	0.12	0.75	0.30	1.50	0.88	1.50	1.50	2.25	1.13	4	6	9.000
HMJ36	36.00	11.00	2.88	2.75	0.50	0.12	0.75	0.30	1.50	0.88	1.50	1.50	2.25	1.13	5	7	9.000

## CHUCKS AND JAWS

### THREE STEP REVERSIBLE TOP JAWS FOR CLASS II CHUCKS



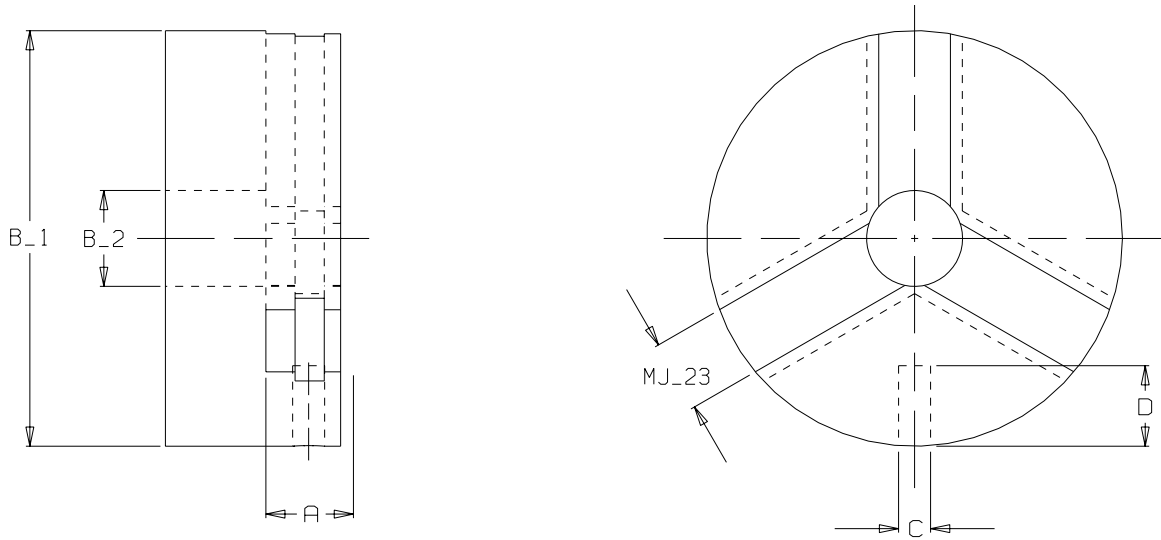
#### Generic Part Name: HTJ

##### Notes:

1. Corresponds to standard ANSI B5.8-1972.
2. Enter values exactly as shown.

Instance Name	TJ_1 Jaw Length	MJ_23 Jaw Width	A Jaw Height	TJ_2 Hole Cntr. to Cntr.	TJ_3 Cross Key to Bite	TJ_4 Hole Cntr. to Slot Edge	TJ_5 Cross Key Width	TJ_11 Cross Key Height	TJ_8 Tongue Slot Width	TJ_9 Tongue Slot Depth	TJ_12 Drill Size for Screw	TJ_16 Cbores for Screw
HTJ6	2.6200	1.1200	1.3700	1.5000	1.1200	0.5000	0.4990	0.1200	0.3150	0.1700	0.4690	0.7030
HTJ8	3.1200	1.1200	1.8700	1.7500	1.3750	0.6250	0.4990	0.1200	0.3150	0.1700	0.5310	0.7970
HTJ10	3.7600	1.7600	1.8700	2.1250	1.5620	0.6880	0.7490	0.1200	0.5030	0.1700	0.6560	1.0000
HTJ12	4.3000	1.7600	2.1200	2.5000	1.8750	0.8750	0.7490	0.1200	0.5030	0.1700	0.6560	1.0000
HTJ15	5.0000	2.0000	2.2500	3.0000	2.2500	1.1250	0.7490	0.2500	0.5030	0.1700	0.7810	1.1880
HTJ18	5.0000	2.0000	2.7500	3.0000	2.2500	1.1250	0.7490	0.2500	0.5030	0.1700	0.7810	1.1880
HTJ21	5.0000	2.0000	2.7500	3.0000	2.2500	1.1250	0.7490	0.2500	0.5030	0.1700	0.7810	1.1880
HTJ24	5.0000	2.0000	2.7500	3.0000	2.2500	1.1250	0.7490	0.2500	0.5030	0.1700	0.7810	1.1880
HTJ28	5.5000	2.8800	2.7500	3.0000	2.2500	1.1250	0.7490	0.2500	0.5030	0.1700	0.9060	1.3750
HTJ32	5.5000	2.8800	2.7500	3.0000	2.2500	1.1250	0.7490	0.2500	0.5030	0.1700	0.9060	1.3750
HTJ36	5.5000	2.8800	2.7500	3.0000	2.2500	1.1250	0.7490	0.2500	0.5030	0.1700	0.9060	1.3750

## CLASS II - HEAVY DUTY DRAW BAR OPERATED CHUCKS



### Generic Part Name: HDBC

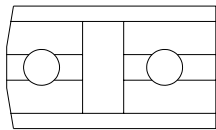
#### Notes

1. Corresponds to standard ANSI B5.8-1972.
2. Enter values exactly as shown.
3. "\*" denotes a non-existent value.

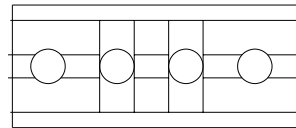
Instance Name	B_1 Body Dia.	B_4 Dia. of Center	MJ_23 Jaw Width	A Jaw Height	Eye Bolt	C Eye Bolt Dia.	D Eye Bolt Thd Depth	Eye Bolt Thd/In.
CH6	6.5000	1.5000	1.1200	1.3700	N	*	*	*
CH8	8.2500	2.1200	1.1200	1.8700	N	*	*	*
CH10	10.0000	3.1200	1.7600	1.8700	N	*	*	*
CH12	12.0000	3.1200	1.7600	2.1200	Y	0.5000	1.2600	13.000
CH15	15.0000	5.1200	2.0000	2.2500	Y	0.5000	1.2600	13.000
CH18	18.0000	5.1200	2.0000	2.7500	Y	0.7500	1.2600	10.000
CH21	21.0000	8.1200	2.0000	2.7500	Y	0.7500	1.2600	10.000
CH24	24.0000	8.1200	2.0000	2.7500	Y	0.7500	1.2600	10.000
CH28	28.0000	12.7500	2.0000	2.7500	Y	0.7500	1.2600	10.000
CH32	32.0000	12.7500	2.0000	2.7500	Y	0.7500	1.2600	10.000
CH36	36.0000	12.7500	2.0000	2.7500	Y	0.7500	1.2600	10.000

## CHUCKS AND JAWS

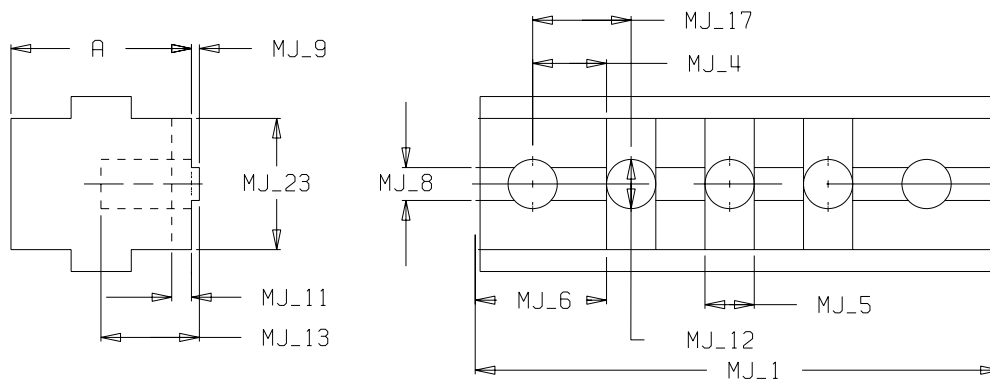
### JAWS FOR CLASS II DRAW BAR OPERATED CHUCKS



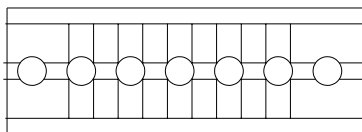
MASTER JAW FOR CHUCKS  
LESS THAN 18 INCHES



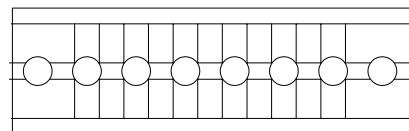
MASTER JAW FOR 18  
AND 21 INCH CHUCKS



MASTER JAW FOR 24 INCH CHUCK



MASTER JAW FOR  
32 INCH CHUCK



MASTER JAW FOR  
36 INCH CHUCK

### Generic Part Name: HDBMJ

#### Notes:

1. See the table on the next page.
2. Corresponds to standard ANSI B5.8-1972.
3. Enter values exactly as shown.
4. "\*" denotes a non-existent value.
5. To match jaw to chuck, use parts with same body diameter.

**Jaws for Class II Wrench Operated Chucks**

Instance Name	B_1 Body Dia.	MJ_4 Screw Cntr. to Cross Slot	MJ_5 Cross Slot Width	MJ_3 Outsd. Edge to Cross Slot Edge	MJ_7 Cross Slot to Cross Slot	MJ_8 Tongue Width	MJ_9 Tongue Height	MJ_11 Cross Slot Depth	MJ_12 Tapped Hole Dia.	MJ_1 3 Thread Depth	MJ_17 Hole Cntr. to Cntr.	No. Cross Slots	No. Tapped Holes	MJ_1 Jaw Length	MJ_2 3 Jaw Width	A Jaw Height	Thrd. Per Inch
MJ6	6.00	0.5000	0.5000	0.9360	*	0.3120	0.1200	0.1700	0.4375	0.7600	1.5000	1	2	2.5600	1.1200	1.3700	14.000
MJ8	8.00	0.6250	0.5000	1.1880	*	0.3120	0.1200	0.1700	0.5000	0.8800	1.7500	1	2	3.0600	1.1200	1.8700	13.000
MJ10	10.00	0.6870	0.7500	1.3120	*	0.5000	0.1200	0.1700	0.6250	1.0600	2.1250	1	2	3.6200	1.7600	1.8700	11.000
MJ12	12.00	0.8750	0.7500	1.6250	*	0.5000	0.1200	0.1700	0.6250	1.2000	1.2500	1	3	4.2600	1.7600	2.1200	11.000
MJ15	15.00	1.1250	0.7500	2.0000	*	0.5000	0.1200	0.3000	0.7500	1.5000	1.5000	1	3	5.0000	2.0000	2.2500	10.000
MJ18	18.00	1.1250	0.7500	2.0000	1.5000	0.5000	0.1200	0.3000	0.7500	1.5000	1.5000	2	4	6.5000	2.0000	2.7500	10.000
MJ21	21.00	1.1250	0.7500	2.0000	1.5000	0.5000	0.1200	0.3000	0.7500	1.5000	1.5000	2	4	6.5000	2.0000	2.7500	10.000
MJ24	24.00	1.1250	0.7500	2.0000	1.5000	0.5000	0.1200	0.3000	0.7500	1.5000	1.5000	3	5	8.0000	2.0000	2.7500	10.000
MJ28	28.00	1.1250	0.7500	2.0000	1.5000	0.5000	0.1200	0.3000	0.8750	1.5000	1.5000	4	6	9.5000	2.8800	2.7500	9.000
MJ32	32.00	1.1250	0.7500	2.0000	1.5000	0.5000	0.1200	0.3000	0.8750	1.5000	1.5000	5	7	11.0000	2.8800	2.7500	9.000
MJ36	36.00	1.1250	0.7500	2.0000	1.5000	0.5000	0.1200	0.3000	0.8750	1.5000	1.5000	6	8	12.5000	2.8800	2.7500	9.000

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**SECTION III**  
**TOOLHOLDERS LIBRARY**

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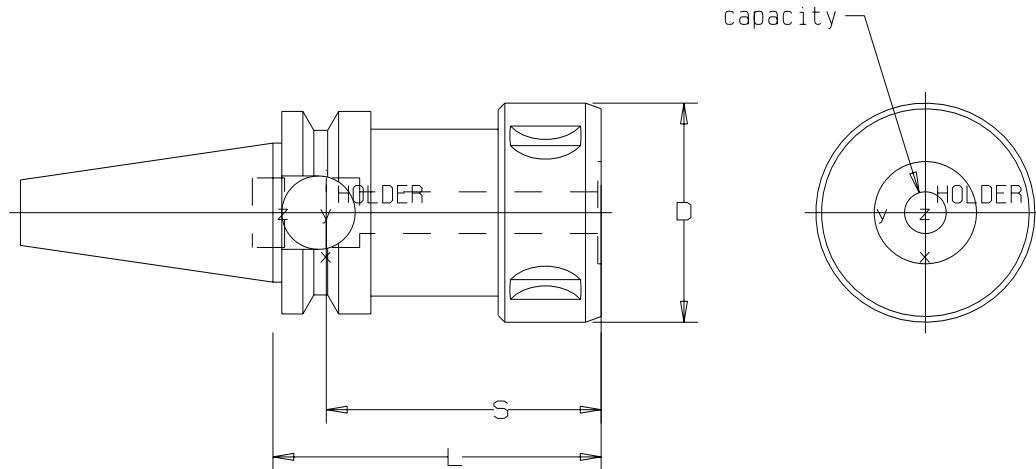
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# BT (JMBTA) FLANGE TOOLHOLDERS

## COLLET CHUCKS

### 30 TAPER, 1/64" THROUGH 3/4" TOOL SHANK CAPACITY



**Generic Part Name: BTCC30**

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC30100	0.015625	DOUBLE ANGLE	DA20	2.36	1.100	2.03	1.50	2.560
BTCC30101	0.031250	DOUBLE ANGLE	DA20	2.36	1.100	2.03	1.50	2.560
BTCC30102	0.046875	DOUBLE ANGLE	DA20	2.36	1.100	2.03	1.50	2.560
BTCC30103	0.062500	DOUBLE ANGLE	DA20	2.36	1.100	2.03	1.50	2.560
BTCC30104	0.078125	DOUBLE ANGLE	DA20	2.36	1.100	2.03	1.50	2.560
BTCC30105	0.093750	DOUBLE ANGLE	DA20	2.36	1.100	2.03	1.50	2.560
BTCC30106	0.109375	DOUBLE ANGLE	DA20	2.36	1.100	2.03	1.50	2.560
BTCC30107	0.125000	DOUBLE ANGLE	DA20	2.36	1.100	2.03	1.50	2.560
BTCC30108	0.140625	DOUBLE ANGLE	DA20	2.36	1.100	2.03	1.50	2.560
BTCC30109	0.156250	DOUBLE ANGLE	DA20	2.36	1.100	2.03	1.50	2.560

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC30110	0.171875	DOUBLE ANGLE	DA20	2.36	1.100	2.03	1.50	2.560
BTCC30111	0.187500	DOUBLE ANGLE	DA20	2.36	1.100	2.03	1.50	2.560
BTCC30112	0.203125	DOUBLE ANGLE	DA20	2.36	1.100	2.03	1.50	2.560
BTCC30113	0.218750	DOUBLE ANGLE	DA20	2.36	1.100	2.03	1.50	2.560
BTCC30114	0.234375	DOUBLE ANGLE	DA20	2.36	1.100	2.03	1.50	2.560
BTCC30115	0.250000	DOUBLE ANGLE	DA20	2.36	1.100	2.03	1.50	2.560
BTCC30116	0.265625	DOUBLE ANGLE	DA20	2.36	1.100	2.03	1.50	2.560
BTCC30117	0.281250	DOUBLE ANGLE	DA20	2.36	1.100	2.03	1.50	2.560
BTCC30118	0.296875	DOUBLE ANGLE	DA20	2.36	1.100	2.03	1.50	2.560
BTCC30119	0.312500	DOUBLE ANGLE	DA20	2.36	1.100	2.03	1.50	2.560
BTCC30120	0.328125	DOUBLE ANGLE	DA20	2.36	1.100	2.03	1.50	2.560
BTCC30121	0.343750	DOUBLE ANGLE	DA20	2.36	1.100	2.03	1.50	2.560
BTCC30122	0.359375	DOUBLE ANGLE	DA20	2.36	1.100	2.03	1.50	2.560
BTCC30123	0.375000	DOUBLE ANGLE	DA20	2.36	1.100	2.03	1.50	2.560
BTCC30200	0.031250	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30201	0.046875	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30202	0.062500	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30203	0.078125	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30204	0.093750	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30205	0.109375	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30206	0.125000	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC30207	0.140625	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30208	0.156250	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30209	0.171875	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30210	0.187500	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30211	0.203125	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30212	0.218750	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30213	0.234375	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30214	0.250000	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30215	0.265625	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30216	0.281250	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30217	0.296875	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30218	0.312500	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30219	0.328125	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30220	0.343750	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30221	0.359375	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30222	0.375000	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30223	0.390625	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30224	0.406250	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30225	0.421875	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30226	0.437500	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30227	0.453125	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC30228	0.468750	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30229	0.484375	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30230	0.500000	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30231	0.515625	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30232	0.531250	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30233	0.546875	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30234	0.562500	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30235	0.578125	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30236	0.593750	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30237	0.609375	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30238	0.625000	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30239	0.640625	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30240	0.656250	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30241	0.671875	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30242	0.687500	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30243	0.703125	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30244	0.718750	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30245	0.734375	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30246	0.750000	DOUBLE ANGLE	DA18	2.36	1.690	2.36	1.97	2.750
BTCC30300	0.062500	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30301	0.078125	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC30302	0.093750	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30303	0.109375	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30304	0.125000	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30305	0.140625	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30306	0.156250	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30307	0.171875	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30308	0.187500	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30309	0.203125	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30310	0.218750	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30311	0.234375	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30312	0.250000	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30313	0.265625	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30314	0.281250	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30315	0.296875	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30316	0.312500	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30317	0.328125	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30318	0.343750	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30319	0.359375	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30320	0.375000	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30321	0.390625	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30322	0.406250	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC30323	0.421875	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30324	0.437500	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30325	0.453125	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30326	0.468750	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30327	0.484375	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30328	0.500000	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30329	0.515625	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30330	0.531250	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30331	0.546875	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30332	0.562500	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30333	0.578125	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30334	0.593750	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30335	0.609375	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30336	0.625000	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30337	0.640625	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30338	0.656250	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30339	0.671875	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30340	0.687500	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30341	0.703125	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30342	0.718750	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760

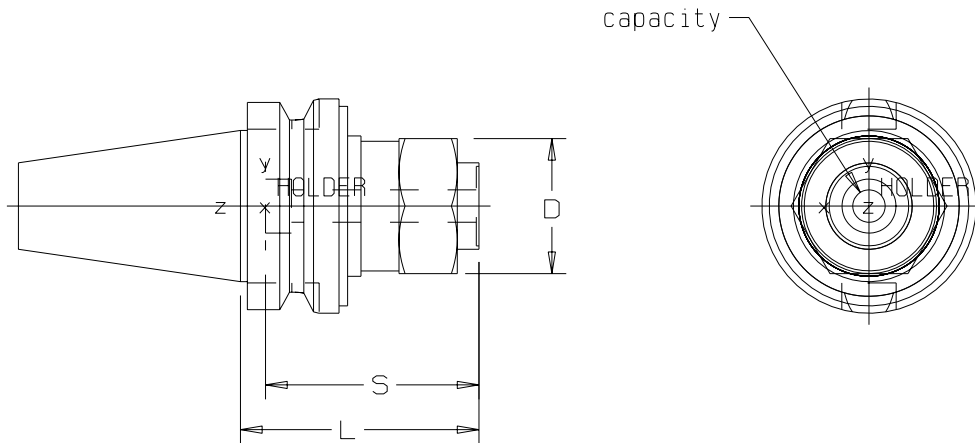
## BT (JMBTA) FLANGE TOOLHOLDERS

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Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC30343	0.734375	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760
BTCC30344	0.750000	SINGLE ANGLE	SA75	2.95	1.970	2.47	2.17	2.760

## BT (JMBTA) FLANGE TOOLHOLDERS

### 40 TAPER, 1/16" THROUGH 1" TOOL SHANK CAPACITY



**Generic Part Name: BTCC40**

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC40101	0.031250	DOUBLE ANGLE	DA30	2.24	0.790	2.32	1.50	3.130
BTCC40102	0.046875	DOUBLE ANGLE	DA30	2.24	0.790	2.32	1.50	3.130
BTCC40103	0.062500	DOUBLE ANGLE	DA30	2.24	0.790	2.32	1.50	3.130
BTCC40104	0.078125	DOUBLE ANGLE	DA30	2.24	0.790	2.32	1.50	3.130
BTCC40105	0.093750	DOUBLE ANGLE	DA30	2.24	0.790	2.32	1.50	3.130
BTCC40106	0.109375	DOUBLE ANGLE	DA30	2.24	0.790	2.32	1.50	3.130
BTCC40107	0.125000	DOUBLE ANGLE	DA30	2.24	0.790	2.32	1.50	3.130
BTCC40108	0.140625	DOUBLE ANGLE	DA30	2.24	0.790	2.32	1.50	3.130
BTCC40109	0.156250	DOUBLE ANGLE	DA30	2.24	0.790	2.32	1.50	3.130
BTCC40110	0.171875	DOUBLE ANGLE	DA30	2.24	0.790	2.32	1.50	3.130
BTCC40111	0.187500	DOUBLE ANGLE	DA30	2.24	0.790	2.32	1.50	3.130
BTCC40112	0.203125	DOUBLE ANGLE	DA30	2.24	0.790	2.32	1.50	3.130

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC40113	0.218750	DOUBLE ANGLE	DA30	2.24	0.790	2.32	1.50	3.130
BTCC40114	0.234375	DOUBLE ANGLE	DA30	2.24	0.790	2.32	1.50	3.130
BTCC40115	0.250000	DOUBLE ANGLE	DA30	2.24	0.790	2.32	1.50	3.130
BTCC40201	0.031250	DOUBLE ANGLE	DA20	2.76	1.100	2.43	1.50	3.350
BTCC40202	0.046875	DOUBLE ANGLE	DA20	2.76	1.100	2.43	1.50	3.350
BTCC40203	0.062500	DOUBLE ANGLE	DA20	2.76	1.100	2.43	1.50	3.350
BTCC40204	0.078125	DOUBLE ANGLE	DA20	2.76	1.100	2.43	1.50	3.350
BTCC40205	0.093750	DOUBLE ANGLE	DA20	2.76	1.100	2.43	1.50	3.350
BTCC40206	0.109375	DOUBLE ANGLE	DA20	2.76	1.100	2.43	1.50	3.350
BTCC40207	0.125000	DOUBLE ANGLE	DA20	2.76	1.100	2.43	1.50	3.350
BTCC40208	0.140625	DOUBLE ANGLE	DA20	2.76	1.100	2.43	1.50	3.350
BTCC40209	0.156250	DOUBLE ANGLE	DA20	2.76	1.100	2.43	1.50	3.350
BTCC40210	0.171875	DOUBLE ANGLE	DA20	2.76	1.100	2.43	1.50	3.350
BTCC40211	0.187500	DOUBLE ANGLE	DA20	2.76	1.100	2.43	1.50	3.350
BTCC40212	0.203125	DOUBLE ANGLE	DA20	2.76	1.100	2.43	1.50	3.350
BTCC40213	0.218750	DOUBLE ANGLE	DA20	2.76	1.100	2.43	1.50	3.350
BTCC40214	0.234375	DOUBLE ANGLE	DA20	2.76	1.100	2.43	1.50	3.350
BTCC40215	0.250000	DOUBLE ANGLE	DA20	2.76	1.100	2.43	1.50	3.350
BTCC40216	0.265625	DOUBLE ANGLE	DA20	2.76	1.100	2.43	1.50	3.350
BTCC40217	0.281250	DOUBLE ANGLE	DA20	2.76	1.100	2.43	1.50	3.350
BTCC40218	0.296875	DOUBLE ANGLE	DA20	2.76	1.100	2.43	1.50	3.350

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC40219	0.312500	DOUBLE ANGLE	DA20	2.76	1.100	2.43	1.50	3.350
BTCC40220	0.328125	DOUBLE ANGLE	DA20	2.76	1.100	2.43	1.50	3.350
BTCC40221	0.343750	DOUBLE ANGLE	DA20	2.76	1.100	2.43	1.50	3.350
BTCC40222	0.359375	DOUBLE ANGLE	DA20	2.76	1.100	2.43	1.50	3.350
BTCC40223	0.375000	DOUBLE ANGLE	DA20	2.76	1.100	2.43	1.50	3.350
BTCC40301	0.031250	DOUBLE ANGLE	DA10	2.76	1.460	2.52	1.69	3.350
BTCC40302	0.046875	DOUBLE ANGLE	DA10	2.76	1.460	2.52	1.69	3.350
BTCC40303	0.062500	DOUBLE ANGLE	DA10	2.76	1.460	2.52	1.69	3.350
BTCC40304	0.078125	DOUBLE ANGLE	DA10	2.76	1.460	2.52	1.69	3.350
BTCC40305	0.093750	DOUBLE ANGLE	DA10	2.76	1.460	2.52	1.69	3.350
BTCC40306	0.109375	DOUBLE ANGLE	DA10	2.76	1.460	2.52	1.69	3.350
BTCC40307	0.125000	DOUBLE ANGLE	DA10	2.76	1.460	2.52	1.69	3.350
BTCC40308	0.140625	DOUBLE ANGLE	DA10	2.76	1.460	2.52	1.69	3.350
BTCC40309	0.156250	DOUBLE ANGLE	DA10	2.76	1.460	2.52	1.69	3.350
BTCC40310	0.171875	DOUBLE ANGLE	DA10	2.76	1.460	2.52	1.69	3.350
BTCC40311	0.187500	DOUBLE ANGLE	DA10	2.76	1.460	2.52	1.69	3.350
BTCC40312	0.203125	DOUBLE ANGLE	DA10	2.76	1.460	2.52	1.69	3.350
BTCC40313	0.218750	DOUBLE ANGLE	DA10	2.76	1.460	2.52	1.69	3.350
BTCC40314	0.234375	DOUBLE ANGLE	DA10	2.76	1.460	2.52	1.69	3.350
BTCC40315	0.250000	DOUBLE ANGLE	DA10	2.76	1.460	2.52	1.69	3.350
BTCC40316	0.265625	DOUBLE ANGLE	DA10	2.76	1.460	2.52	1.69	3.350

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC40317	0.281250	DOUBLE ANGLE	DA10	2.76	1.460	2.52	1.69	3.350
BTCC40318	0.296875	DOUBLE ANGLE	DA10	2.76	1.460	2.52	1.69	3.350
BTCC40319	0.312500	DOUBLE ANGLE	DA10	2.76	1.460	2.52	1.69	3.350
BTCC40320	0.328125	DOUBLE ANGLE	DA10	2.76	1.460	2.52	1.69	3.350
BTCC40321	0.343750	DOUBLE ANGLE	DA10	2.76	1.460	2.52	1.69	3.350
BTCC40322	0.359375	DOUBLE ANGLE	DA10	2.76	1.460	2.52	1.69	3.350
BTCC40323	0.375000	DOUBLE ANGLE	DA10	2.76	1.460	2.52	1.69	3.350
BTCC40400	0.031250	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40401	0.046875	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40402	0.062500	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40403	0.078125	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40404	0.093750	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40405	0.109375	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40406	0.125000	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40407	0.140625	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40408	0.156250	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40409	0.171875	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40410	0.187500	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40411	0.203125	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40412	0.218750	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40413	0.234375	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC40414	0.250000	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40415	0.265625	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40416	0.281250	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40417	0.296875	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40418	0.312500	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40419	0.328125	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40420	0.343750	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40421	0.359375	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40422	0.375000	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40423	0.390625	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40424	0.406250	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40425	0.421875	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40426	0.437500	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40427	0.453125	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40428	0.468750	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40429	0.484375	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40430	0.500000	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40431	0.515625	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40432	0.531250	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40433	0.546875	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40434	0.562500	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC40435	0.578125	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40436	0.593750	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40437	0.609375	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40438	0.625000	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40439	0.640625	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40440	0.656250	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40441	0.671875	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40442	0.687500	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40443	0.703125	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40444	0.718750	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40445	0.734375	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40446	0.750000	DOUBLE ANGLE	DA18	2.76	1.690	2.54	1.97	3.110
BTCC40500	0.031250	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40501	0.046875	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40502	0.062500	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40503	0.078125	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40504	0.093750	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40505	0.109375	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40506	0.125000	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40507	0.140625	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40508	0.156250	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC40509	0.171875	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40510	0.187500	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40511	0.203125	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40512	0.218750	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40513	0.234375	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40514	0.250000	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40515	0.265625	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40516	0.281250	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40517	0.296875	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40518	0.312500	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40519	0.328125	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40520	0.343750	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40521	0.359375	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40522	0.375000	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40523	0.390625	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40524	0.406250	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40525	0.421875	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40526	0.437500	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40527	0.453125	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40528	0.468750	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40529	0.484375	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC40530	0.500000	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40531	0.515625	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40532	0.531250	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40533	0.546875	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40534	0.562500	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40535	0.578125	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40536	0.593750	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40537	0.609375	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40538	0.625000	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40539	0.640625	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40540	0.656250	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40541	0.671875	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40542	0.687500	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40543	0.703125	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40544	0.718750	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40545	0.734375	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40546	0.750000	DOUBLE ANGLE	DA18	3.94	1.690	2.96	1.97	3.940
BTCC40600	0.031250	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40601	0.046875	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40602	0.062500	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40603	0.078125	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC40604	0.093750	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40605	0.109375	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40606	0.125000	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40607	0.140625	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40608	0.156250	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40609	0.171875	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40610	0.187500	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40611	0.203125	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40612	0.218750	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40613	0.234375	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40614	0.250000	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40615	0.265625	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40616	0.281250	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40617	0.296875	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40618	0.312500	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40619	0.328125	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40620	0.343750	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40621	0.359375	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40622	0.375000	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40623	0.390625	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40624	0.406250	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC40625	0.421875	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40626	0.437500	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40627	0.453125	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40628	0.468750	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40629	0.484375	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40630	0.500000	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40631	0.515625	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40632	0.531250	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40633	0.546875	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40634	0.562500	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40635	0.578125	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40636	0.593750	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40637	0.609375	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40638	0.625000	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40639	0.640625	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40640	0.656250	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40641	0.671875	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40642	0.687500	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40643	0.703125	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40644	0.718750	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40645	0.734375	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC40646	0.750000	DOUBLE ANGLE	DA18	5.91	1.690	3.55	1.97	5.120
BTCC40701	0.031250	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40702	0.046875	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40703	0.062500	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40704	0.078125	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40705	0.093750	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40706	0.109375	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40707	0.125000	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40708	0.140625	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40709	0.156250	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40710	0.171875	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40711	0.187500	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40712	0.203125	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40713	0.218750	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40714	0.234375	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40715	0.250000	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40716	0.265625	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40717	0.281250	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40718	0.296875	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40719	0.312500	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40720	0.328125	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC40721	0.343750	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40722	0.359375	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40723	0.375000	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40724	0.390625	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40725	0.406250	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40726	0.421875	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40727	0.437500	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40728	0.453125	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40729	0.468750	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40730	0.484375	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40731	0.500000	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40732	0.515625	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40733	0.531250	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40734	0.546875	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40735	0.562500	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40736	0.578125	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40737	0.593750	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40738	0.609375	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40739	0.625000	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40740	0.640625	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40741	0.656250	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC40742	0.671875	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40743	0.687500	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40744	0.703125	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40745	0.718750	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40746	0.734375	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40747	0.750000	SINGLE ANGLE	SA75	2.76	1.970	2.62	2.17	3.070
BTCC40800	0.093750	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40801	0.109375	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40802	0.125000	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40803	0.140625	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40804	0.156250	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40805	0.171875	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40806	0.187500	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40807	0.203125	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40808	0.218750	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40809	0.234375	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40810	0.250000	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40811	0.265625	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40812	0.281250	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40813	0.296875	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40814	0.312500	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC40815	0.328125	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40816	0.343750	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40817	0.359375	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40818	0.375000	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40819	0.390625	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40820	0.406250	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40821	0.421875	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40822	0.437500	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40823	0.453125	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40824	0.468750	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40825	0.484375	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40826	0.500000	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40827	0.515625	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40828	0.531250	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40829	0.546875	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40830	0.562500	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40831	0.578125	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40832	0.593750	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40833	0.609375	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40834	0.625000	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40835	0.640625	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC40836	0.656250	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40837	0.671875	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40838	0.687500	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40839	0.703125	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40840	0.718750	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40841	0.734375	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40842	0.750000	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40843	0.765625	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40844	0.781250	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40845	0.796875	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40846	0.812500	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40847	0.828125	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40848	0.843750	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40849	0.859375	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40850	0.875000	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40851	0.890625	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40852	0.906250	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40853	0.921875	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40854	0.937500	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40855	0.953125	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40856	0.968750	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC40857	0.984375	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40858	1.000000	SINGLE ANGLE	SA10	3.15	2.360	3.19	2.83	3.540
BTCC40900	0.093750	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40901	0.109375	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40902	0.125000	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40903	0.140625	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40904	0.156250	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40905	0.171875	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40906	0.187500	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40907	0.203125	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40908	0.218750	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40909	0.234375	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40910	0.250000	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40911	0.265625	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40912	0.281250	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40913	0.296875	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40914	0.312500	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40915	0.328125	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40916	0.343750	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40917	0.359375	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40918	0.375000	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC40919	0.390625	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40920	0.406250	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40921	0.421875	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40922	0.437500	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40923	0.453125	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40924	0.468750	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40925	0.484375	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40926	0.500000	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40927	0.515625	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40928	0.531250	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40929	0.546875	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40930	0.562500	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40931	0.578125	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40932	0.593750	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40933	0.609375	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40934	0.625000	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40935	0.640625	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40936	0.656250	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40937	0.671875	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40938	0.687500	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40939	0.703125	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC40940	0.718750	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40941	0.734375	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40942	0.750000	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40943	0.765625	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40944	0.781250	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40945	0.796875	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40946	0.812500	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40947	0.828125	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40948	0.843750	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40949	0.859375	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40950	0.875000	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40951	0.890625	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40952	0.906250	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40953	0.921875	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40954	0.937500	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40955	0.953125	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40956	0.968750	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40957	0.984375	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40958	1.000000	SINGLE ANGLE	SA10	3.94	2.360	3.58	2.83	4.330
BTCC40A00	0.093750	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41001	0.109375	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC41002	0.125000	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41003	0.140625	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41004	0.156250	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41005	0.171875	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41006	0.187500	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41007	0.203125	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41008	0.218750	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41009	0.234375	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41010	0.250000	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41011	0.265625	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41012	0.281250	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41013	0.296875	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41014	0.312500	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41015	0.328125	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41016	0.343750	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41017	0.359375	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41018	0.375000	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41019	0.390625	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41020	0.406250	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41021	0.421875	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41022	0.437500	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC41023	0.453125	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41024	0.468750	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41025	0.484375	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41026	0.500000	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41027	0.515625	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41028	0.531250	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41029	0.546875	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41030	0.562500	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41031	0.578125	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41032	0.593750	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41033	0.609375	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41034	0.625000	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41035	0.640625	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41036	0.656250	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41037	0.671875	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41038	0.687500	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41039	0.703125	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41040	0.718750	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41041	0.734375	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41042	0.750000	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41043	0.765625	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC41044	0.781250	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41045	0.796875	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41046	0.812500	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC40A47	0.828125	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41048	0.843750	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41049	0.859375	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41050	0.875000	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41051	0.890625	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41052	0.906250	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41053	0.921875	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41054	0.937500	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41055	0.953125	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41056	0.968750	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41057	0.984375	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41058	1.000000	SINGLE ANGLE	SA10	5.91	2.360	4.37	2.83	5.910
BTCC41100	0.500000	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41101	0.515625	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41102	0.531250	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41103	0.546875	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41104	0.562500	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41105	0.578125	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC41106	0.593750	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41107	0.609375	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41108	0.625000	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41109	0.640625	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41110	0.656250	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41111	0.671875	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41112	0.687500	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41113	0.703125	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41114	0.718750	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41115	0.734375	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41116	0.750000	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41117	0.765625	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41118	0.781250	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41119	0.796875	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41120	0.812500	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41121	0.828125	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41122	0.843750	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41123	0.859375	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41124	0.875000	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41125	0.890625	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41126	0.906250	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330

## BT (JMBTA) FLANGE TOOLHOLDERS

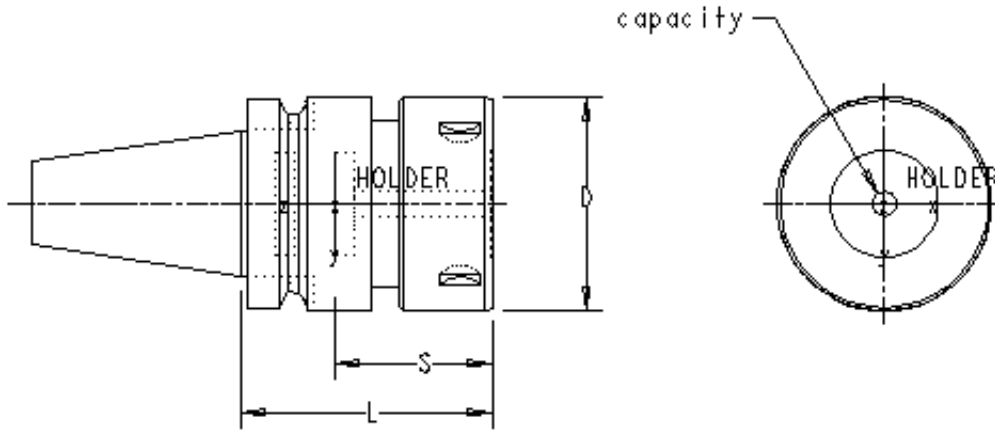
Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC41127	0.921875	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41128	0.937500	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41129	0.953125	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41130	0.968750	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41131	0.984375	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41132	1.000000	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41133	1.015625	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41134	1.031250	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41135	1.046875	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41136	1.062500	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41137	1.078125	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41138	1.093750	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41139	1.109375	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41140	1.125000	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41141	1.140625	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41142	1.156250	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41143	1.171875	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41144	1.187500	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41145	1.203125	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41146	1.218750	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41147	1.234375	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC41148	1.250000	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41149	1.265625	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41150	1.281250	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41151	1.296875	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41152	1.312500	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41153	1.328125	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41154	1.343750	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41155	1.359375	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41156	1.375000	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41157	1.390625	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41158	1.406250	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41159	1.421875	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41160	1.437500	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41161	1.453125	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41162	1.468750	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41163	1.484375	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330
BTCC41164	1.500000	SINGLE ANGLE	SA15	4.33	3.350	3.82	3.31	4.330

## BT (JMBTA) FLANGE TOOLHOLDERS

### 45 TAPER, 1/32" THROUGH 1-1/2" TOOL SHANK CAPACITY



### Generic Part Name: BTCC45

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC45100	0.031250	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45101	0.046875	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45102	0.062500	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45103	0.078125	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45104	0.093750	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45105	0.109375	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45106	0.125000	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45107	0.140625	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45108	0.156250	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45109	0.171875	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45110	0.187500	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC45111	0.203125	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45112	0.218750	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45113	0.234375	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45114	0.250000	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45115	0.265625	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45116	0.281250	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45117	0.296875	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45118	0.312500	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45119	0.328125	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45120	0.343750	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45121	0.359375	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45122	0.375000	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45123	0.390625	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45124	0.406250	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45125	0.421875	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45126	0.437500	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45127	0.453125	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45128	0.468750	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45129	0.484375	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45130	0.500000	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45131	0.515625	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC45132	0.531250	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45133	0.546875	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45134	0.562500	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45135	0.578125	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45136	0.593750	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45137	0.609375	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45138	0.625000	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45139	0.640625	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45140	0.656250	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45141	0.671875	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45142	0.687500	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45143	0.703125	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45144	0.718750	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45145	0.734375	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45146	0.750000	DOUBLE ANGLE	DA18	2.76	1.690	2.72	1.69	3.740
BTCC45200	0.031250	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45201	0.046875	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45202	0.062500	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45203	0.078125	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45204	0.093750	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45205	0.109375	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC45206	0.125000	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45207	0.140625	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45208	0.156250	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45209	0.171875	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45210	0.187500	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45211	0.203125	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45212	0.218750	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45213	0.234375	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45214	0.250000	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45215	0.265625	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45216	0.281250	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45217	0.296875	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45218	0.312500	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45219	0.328125	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45220	0.343750	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45221	0.359375	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45222	0.375000	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45223	0.390625	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45224	0.406250	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45225	0.421875	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45226	0.437500	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC45227	0.453125	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45228	0.468750	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45229	0.484375	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45230	0.500000	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45231	0.515625	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45232	0.531250	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45233	0.546875	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45234	0.562500	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45235	0.578125	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45236	0.593750	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45237	0.609375	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45238	0.625000	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45239	0.640625	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45240	0.656250	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45241	0.671875	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45242	0.687500	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45243	0.703125	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45244	0.718750	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45245	0.734375	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45246	0.750000	DOUBLE ANGLE	DA18	5.91	1.690	4.00	1.69	6.300
BTCC45300	0.093750	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC45301	0.109375	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45302	0.125000	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45303	0.140625	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45304	0.156250	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45305	0.171875	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45306	0.187500	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45307	0.203125	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45308	0.218750	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45309	0.234375	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45310	0.250000	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45311	0.265625	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45312	0.281250	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45313	0.296875	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45314	0.312500	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45315	0.328125	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45316	0.343750	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45317	0.359375	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45318	0.375000	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45319	0.390625	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45320	0.406250	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45321	0.421875	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC45322	0.437500	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45323	0.453125	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45324	0.468750	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45325	0.484375	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45326	0.500000	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45327	0.515625	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45328	0.531250	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45329	0.546875	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45330	0.562500	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45331	0.578125	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45332	0.593750	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45333	0.609375	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45334	0.625000	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45335	0.640625	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45336	0.656250	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45337	0.671875	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45338	0.687500	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45339	0.703125	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45340	0.718750	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45341	0.734375	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45342	0.750000	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC45343	0.765625	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45344	0.781250	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45345	0.796875	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45346	0.812500	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45347	0.828125	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45348	0.843750	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45349	0.859375	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45350	0.875000	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45351	0.890625	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45352	0.906250	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45353	0.921875	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45354	0.937500	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45355	0.953125	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45356	0.968750	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45357	0.984375	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45358	1.000000	SINGLE ANGLE	SA10	3.54	2.360	3.68	2.83	4.530
BTCC45400	0.093750	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45401	0.109375	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45402	0.125000	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45403	0.140625	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45404	0.156250	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC45405	0.171875	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45406	0.187500	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45407	0.203125	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45408	0.218750	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45409	0.234375	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45410	0.250000	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45411	0.265625	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45412	0.281250	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45413	0.296875	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45414	0.312500	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45415	0.328125	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45416	0.343750	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45417	0.359375	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45418	0.375000	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45419	0.390625	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45420	0.406250	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45421	0.421875	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45422	0.437500	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45423	0.453125	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45424	0.468750	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45425	0.484375	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC45426	0.500000	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45427	0.515625	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45428	0.531250	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45429	0.546875	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45430	0.562500	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45431	0.578125	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45432	0.593750	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45433	0.609375	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45434	0.625000	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45435	0.640625	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45436	0.656250	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45437	0.671875	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45438	0.687500	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45439	0.703125	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45440	0.718750	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45441	0.734375	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45442	0.750000	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45443	0.765625	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45444	0.781250	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45445	0.796875	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45446	0.812500	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC45447	0.828125	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45448	0.843750	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45449	0.859375	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45450	0.875000	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45451	0.890625	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45452	0.906250	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45453	0.921875	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45454	0.937500	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45455	0.953125	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45456	0.968750	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45457	0.984375	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45458	1.000000	SINGLE ANGLE	SA10	5.91	2.360	4.57	2.83	6.300
BTCC45500	0.500000	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45501	0.515625	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45502	0.531250	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45503	0.546875	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45504	0.562500	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45505	0.578125	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45506	0.593750	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45507	0.609375	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45508	0.625000	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC45509	0.640625	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45510	0.656250	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45511	0.671875	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45512	0.687500	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45513	0.703125	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45514	0.718750	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45515	0.734375	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45516	0.750000	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45517	0.765625	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45518	0.781250	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45519	0.796875	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45520	0.812500	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45521	0.828125	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45522	0.843750	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45523	0.859375	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45524	0.875000	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45525	0.890625	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45526	0.906250	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45527	0.921875	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45528	0.937500	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45529	0.953125	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940

## BT (JMBTA) FLANGE TOOLHOLDERS

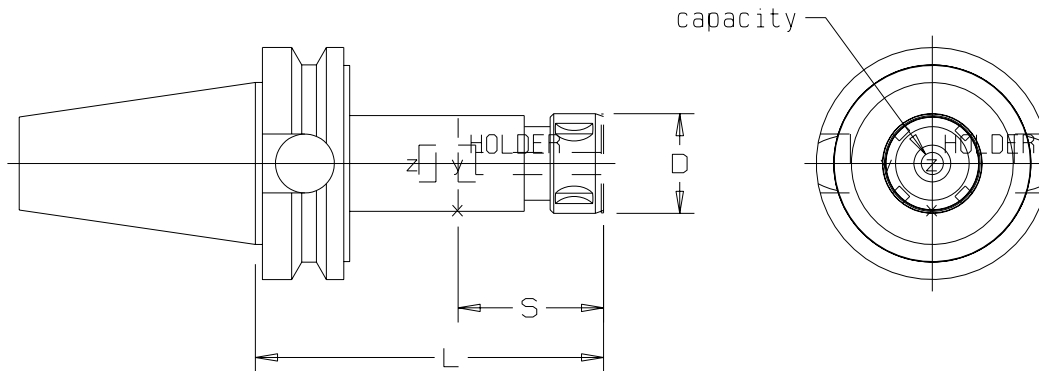
Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC45530	0.968750	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45531	0.984375	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45532	1.000000	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45533	1.015625	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45534	1.031250	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45535	1.046875	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45536	1.062500	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45537	1.078125	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45538	1.093750	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45539	1.109375	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45540	1.125000	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45541	1.140625	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45542	1.156250	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45543	1.171875	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45544	1.187500	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45545	1.203125	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45546	1.218750	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45547	1.234375	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45548	1.250000	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45549	1.265625	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45550	1.281250	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC45551	1.296875	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45552	1.312500	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45553	1.328125	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45554	1.343750	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45555	1.359375	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45556	1.375000	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45557	1.390625	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45558	1.406250	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45559	1.421875	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45560	1.437500	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45561	1.453125	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45562	1.468750	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45563	1.484375	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940
BTCC45564	1.500000	SINGLE ANGLE	SA15	3.94	3.350	3.63	3.31	3.940

## BT (JMBTA) FLANGE TOOLHOLDERS

### 50 TAPER, 1/32" THROUGH 1-1/2" TOOL SHANK CAPACITY



### Generic Part Name: BTCC50

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC50100	0.031250	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50101	0.046875	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50102	0.062500	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50103	0.078125	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50104	0.093750	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50105	0.109375	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50106	0.125000	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50107	0.140625	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50108	0.156250	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50109	0.171875	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50110	0.187500	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50111	0.203125	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC50112	0.218750	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50113	0.234375	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50114	0.250000	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50115	0.265625	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50116	0.281250	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50117	0.296875	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50118	0.312500	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50119	0.328125	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50120	0.343750	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50121	0.359375	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50122	0.375000	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50123	0.390625	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50124	0.406250	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50125	0.421875	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50126	0.437500	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50127	0.453125	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50128	0.468750	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50129	0.484375	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50130	0.500000	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50131	0.515625	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50132	0.531250	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC50133	0.546875	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50134	0.562500	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50135	0.578125	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50136	0.593750	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50137	0.609375	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50138	0.625000	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50139	0.640625	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50140	0.656250	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50141	0.671875	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50142	0.687500	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50143	0.703125	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50144	0.718750	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50145	0.734375	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50146	0.750000	DOUBLE ANGLE	DA18	2.76	1.690	2.82	1.69	3.940
BTCC50200	0.031250	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50201	0.046875	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50202	0.062500	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50203	0.078125	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50204	0.093750	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50205	0.109375	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50206	0.125000	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC50207	0.140625	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50208	0.156250	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50209	0.171875	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50210	0.187500	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50211	0.203125	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50212	0.218750	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50213	0.234375	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50214	0.250000	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50215	0.265625	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50216	0.281250	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50217	0.296875	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50218	0.312500	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50219	0.328125	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50220	0.343750	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50221	0.359375	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50222	0.375000	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50223	0.390625	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50224	0.406250	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50225	0.421875	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50226	0.437500	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50227	0.453125	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC50228	0.468750	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50229	0.484375	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50230	0.500000	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50231	0.515625	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50232	0.531250	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50233	0.546875	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50234	0.562500	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50235	0.578125	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50236	0.593750	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50237	0.609375	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50238	0.625000	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50239	0.640625	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50240	0.656250	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50241	0.671875	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50242	0.687500	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50243	0.703125	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50244	0.718750	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50245	0.734375	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50246	0.750000	DOUBLE ANGLE	DA18	5.91	1.690	4.39	1.69	7.090
BTCC50300	0.031250	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50301	0.046875	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC50302	0.062500	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50303	0.078125	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50304	0.093750	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50305	0.109375	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50306	0.125000	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50307	0.140625	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50308	0.156250	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50309	0.171875	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50310	0.187500	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50311	0.203125	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50312	0.218750	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50313	0.234375	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50314	0.250000	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50315	0.265625	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50316	0.281250	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50317	0.296875	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50318	0.312500	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50319	0.328125	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50320	0.343750	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50321	0.359375	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50322	0.375000	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC50323	0.390625	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50324	0.406250	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50325	0.421875	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50326	0.437500	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50327	0.453125	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50328	0.468750	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50329	0.484375	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50330	0.500000	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50331	0.515625	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50332	0.531250	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50333	0.546875	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50334	0.562500	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50335	0.578125	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50336	0.593750	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50337	0.609375	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50338	0.625000	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50339	0.640625	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50340	0.656250	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50341	0.671875	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50342	0.687500	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50343	0.703125	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC50344	0.718750	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50345	0.734375	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50346	0.750000	DOUBLE ANGLE	DA18	7.87	1.690	4.39	1.69	7.090
BTCC50400	0.093750	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50401	0.109375	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50402	0.125000	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50403	0.140625	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50404	0.156250	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50405	0.171875	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50406	0.187500	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50407	0.203125	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50408	0.218750	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50409	0.234375	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50410	0.250000	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50411	0.265625	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50412	0.281250	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50413	0.296875	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50414	0.312500	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50415	0.328125	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50416	0.343750	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50417	0.359375	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC50418	0.375000	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50419	0.390625	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50420	0.406250	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50421	0.421875	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50422	0.437500	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50423	0.453125	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50424	0.468750	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50425	0.484375	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50426	0.500000	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50427	0.515625	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50428	0.531250	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50429	0.546875	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50430	0.562500	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50431	0.578125	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50432	0.593750	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50433	0.609375	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50434	0.625000	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50435	0.640625	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50436	0.656250	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50437	0.671875	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50438	0.687500	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC50439	0.703125	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50440	0.718750	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50441	0.734375	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50442	0.750000	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50443	0.765625	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50444	0.781250	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50445	0.796875	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50446	0.812500	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50447	0.828125	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50448	0.843750	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50449	0.859375	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50450	0.875000	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50451	0.890625	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50452	0.906250	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50453	0.921875	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50454	0.937500	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50455	0.953125	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50456	0.968750	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50457	0.984375	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50458	1.000000	SINGLE ANGLE	SA10	3.54	2.360	3.39	2.83	3.940
BTCC50500	0.093750	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC50501	0.109375	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50502	0.125000	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50503	0.140625	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50504	0.156250	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50505	0.171875	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50506	0.187500	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50507	0.203125	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50508	0.218750	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50509	0.234375	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50510	0.250000	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50511	0.265625	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50512	0.281250	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50513	0.296875	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50514	0.312500	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50515	0.328125	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50516	0.343750	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50517	0.359375	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50518	0.375000	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50519	0.390625	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50520	0.406250	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50521	0.421875	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC50522	0.437500	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50523	0.453125	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50524	0.468750	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50525	0.484375	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50526	0.500000	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50527	0.515625	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50528	0.531250	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50529	0.546875	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50530	0.562500	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50531	0.578125	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50532	0.593750	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50533	0.609375	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50534	0.625000	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50535	0.640625	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50536	0.656250	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50537	0.671875	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50538	0.687500	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50539	0.703125	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50540	0.718750	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50541	0.734375	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50542	0.750000	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC50543	0.765625	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50544	0.781250	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50545	0.796875	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50546	0.812500	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50547	0.828125	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50548	0.843750	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50549	0.859375	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50550	0.875000	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50551	0.890625	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50552	0.906250	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50553	0.921875	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50554	0.937500	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50555	0.953125	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50556	0.968750	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50557	0.984375	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50558	1.000000	SINGLE ANGLE	SA10	5.91	2.360	2.54	2.83	7.320
BTCC50600	0.093750	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50601	0.109375	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50602	0.125000	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50603	0.140625	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50604	0.156250	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC50605	0.171875	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50606	0.187500	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50607	0.203125	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50608	0.218750	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50609	0.234375	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50610	0.250000	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50611	0.265625	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50612	0.281250	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50613	0.296875	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50614	0.312500	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50615	0.328125	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50616	0.343750	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50617	0.359375	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50618	0.375000	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50619	0.390625	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50620	0.406250	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50621	0.421875	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50622	0.437500	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50623	0.453125	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50624	0.468750	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50625	0.484375	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC50626	0.500000	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50627	0.515625	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50628	0.531250	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50629	0.546875	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50630	0.562500	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50631	0.578125	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50632	0.593750	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50633	0.609375	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50634	0.625000	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50635	0.640625	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50636	0.656250	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50637	0.671875	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50638	0.687500	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50639	0.703125	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50640	0.718750	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50641	0.734375	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50642	0.750000	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50643	0.765625	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50644	0.781250	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50645	0.796875	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50646	0.812500	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC50647	0.828125	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50648	0.843750	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50649	0.859375	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50650	0.875000	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50651	0.890625	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50652	0.906250	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50653	0.921875	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50654	0.937500	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50655	0.953125	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50656	0.968750	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50657	0.984375	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50658	1.000000	SINGLE ANGLE	SA10	7.87	2.360	5.16	2.83	7.480
BTCC50700	0.500000	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50701	0.515625	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50702	0.531250	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50703	0.546875	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50704	0.562500	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50705	0.578125	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50706	0.593750	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50707	0.609375	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50708	0.625000	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC50709	0.640625	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50710	0.656250	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50711	0.671875	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50712	0.687500	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50713	0.703125	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50714	0.718750	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50715	0.734375	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50716	0.750000	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50717	0.765625	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50718	0.781250	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50719	0.796875	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50720	0.812500	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50721	0.828125	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50722	0.843750	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50723	0.859375	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50724	0.875000	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50725	0.890625	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50726	0.906250	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50727	0.921875	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50728	0.937500	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50729	0.953125	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC50730	0.968750	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50731	0.984375	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50732	1.000000	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50733	1.015625	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50734	1.031250	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50735	1.046875	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50736	1.062500	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50737	1.078125	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50738	1.093750	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50739	1.109375	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50740	1.125000	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50741	1.140625	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50742	1.156250	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50743	1.171875	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50744	1.187500	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50745	1.203125	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50746	1.218750	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50747	1.234375	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50748	1.250000	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50749	1.265625	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50750	1.281250	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC50751	1.296875	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50752	1.312500	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50753	1.328125	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50754	1.343750	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50755	1.359375	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50756	1.375000	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50757	1.390625	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50758	1.406250	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50759	1.421875	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50760	1.437500	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50761	1.453125	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50762	1.468750	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50763	1.484375	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50764	1.500000	SINGLE ANGLE	SA15	3.94	3.350	4.12	3.31	4.920
BTCC50800	0.500000	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50801	0.515625	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50802	0.531250	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50803	0.546875	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50804	0.562500	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50805	0.578125	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50806	0.593750	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC50807	0.609375	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50808	0.625000	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50809	0.640625	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50810	0.656250	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50811	0.671875	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50812	0.687500	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50813	0.703125	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50814	0.718750	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50815	0.734375	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50816	0.750000	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50817	0.765625	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50818	0.781250	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50819	0.796875	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50820	0.812500	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50821	0.828125	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50822	0.843750	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50823	0.859375	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50824	0.875000	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50825	0.890625	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50826	0.906250	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50827	0.921875	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910

## BT (JMBTA) FLANGE TOOLHOLDERS

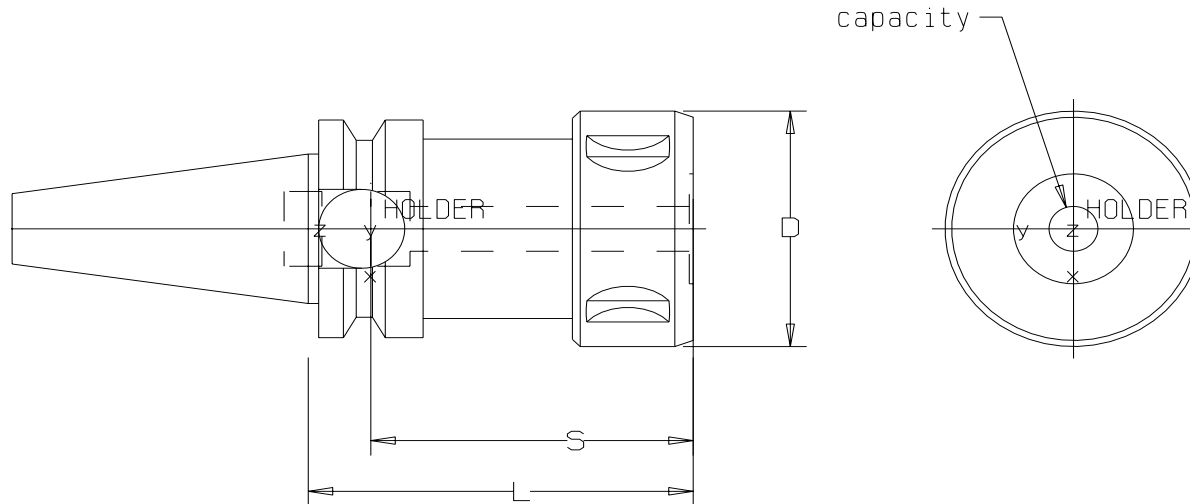
Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC50828	0.937500	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50829	0.953125	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50830	0.968750	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50831	0.984375	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50832	1.000000	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50833	1.015625	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50834	1.031250	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50835	1.046875	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50836	1.062500	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50837	1.078125	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50838	1.093750	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50839	1.109375	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50840	1.125000	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50841	1.140625	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50842	1.156250	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50843	1.171875	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50844	1.187500	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50845	1.203125	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50846	1.218750	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50847	1.234375	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50848	1.250000	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910

## BT (JMBTA) FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Type	Collet Series	L	D	S	S MIN	S MAX
BTCC50849	1.265625	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50850	1.281250	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50851	1.296875	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50852	1.312500	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50853	1.328125	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50854	1.343750	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50855	1.359375	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50856	1.375000	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50857	1.390625	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50858	1.406250	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50859	1.421875	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50860	1.437500	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50861	1.453125	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50862	1.468750	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50863	1.484375	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910
BTCC50864	1.500000	SINGLE ANGLE	SA15	5.91	3.350	4.61	3.31	5.910

## COLLET TAP CHUCKS

**30 TAPER, #0 THROUGH 9/16" HAND TAP, 1/8" THROUGH 3/8"  
PIPE TAP**

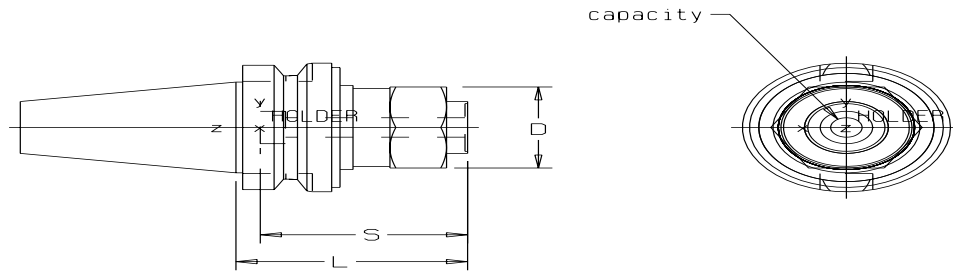


**Generic Part Name: BTTC30**

Instance Name	capacity	Collet Series	D	L	K	Tap Size
BTTC30000	0.141	J	3.74	1.100	0.50	*
BTTC30001	0.168	J	3.74	1.100	0.50	NO.8
BTTC30002	0.194	J	3.74	1.100	0.50	NO.10
BTTC30003	0.220	J	3.74	1.100	0.50	NO.12
BTTC30004	0.255	J	3.74	1.100	0.50	NO.14, 1/4 IN.
BTTC30005	0.318	J	3.74	1.100	0.50	5/16 IN.
BTTC30006	0.381	J	3.74	1.100	0.50	3/8 IN.
BTTC30007	0.323	J	3.74	1.100	0.50	7/16 IN
BTTC30008	0.367	J	3.74	1.100	0.50	1/2 IN.
BTTC30009	0.313	J	3.74	1.100	0.50	1/16 PIPE

## BT (JMBTA) FLANGE TOOLHOLDERS

### 40 TAPER, #0 THROUGH 1-5/8" HAND TAP, 1/16" THROUGH 1-1/4" PIPE TAP



### Generic Part Name: BTTC40

Instance Name	capacity	Collet Series	D	L	K	KK	Tap Size
BTTC40000	0.141	F	3.93	1.620	THRU	0.56	NO.0 THRU 6
BTTC40001	0.168	F	3.93	1.620	THRU	0.56	NO.8
BTTC40002	0.194	F	3.93	1.620	THRU	0.56	NO.10
BTTC40003	0.220	F	3.93	1.620	THRU	0.56	NO.12
BTTC40004	0.255	F	3.93	1.620	THRU	0.56	NO.14, 1/4 IN.
BTTC40005	0.318	F	3.93	1.620	THRU	0.56	5/16 IN.
BTTC40006	0.381	F	3.93	1.620	THRU	0.56	3/8 IN.
BTTC40007	0.323	F	3.93	1.620	THRU	0.56	7/16 IN.
BTTC40008	0.367	F	3.93	1.620	THRU	0.56	1/2 IN.
BTTC40009	0.429	F	3.93	1.620	THRU	0.56	9/16 IN.
BTTC40010	0.480	F	3.93	1.620	THRU	0.56	5/8 IN.
BTTC40011	0.590	F	3.93	1.620	THRU	0.56	3/4 IN.
BTTC40012	0.697	F	3.93	1.620	THRU	0.56	7/8 IN.
BTTC40013	0.313	F	3.93	1.620	THRU	0.56	1/16 PIPE
BTTC40014	0.438	F	3.93	1.620	THRU	0.56	1/8 PIPE
BTTC40015	0.563	F	3.93	1.620	THRU	0.56	1/4 PIPE
BTTC40016	0.700	F	3.93	1.620	THRU	0.56	3/8 PIPE
BTTC40017	0.688	F	3.93	1.620	THRU	0.56	1/2 PIPE
BTTC40100	0.141	J	3.98	1.100	0.5	0.50	NO.0 THRU 6
BTTC40101	0.168	J	3.98	1.100	0.5	0.50	NO.8

## BT (JMBTA) FLANGE TOOLHOLDERS

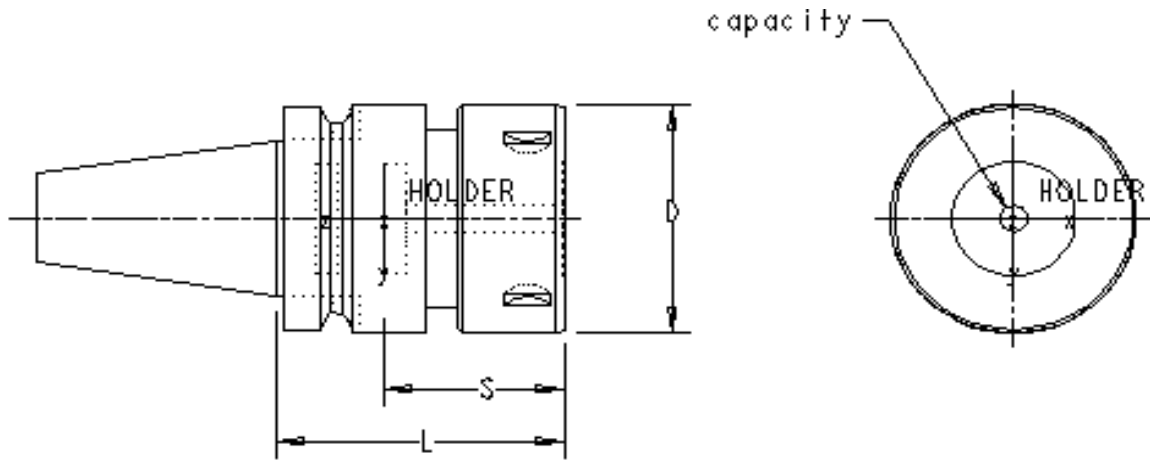
Instance Name	capacity	Collet Series	D	L	K	KK	Tap Size
BTTC40102	0.194	J	3.98	1.100	0.5	0.50	NO.10
BTTC40103	0.220	J	3.98	1.100	0.5	0.50	NO.12
BTTC40104	0.255	J	3.98	1.100	0.5	0.50	1/4 IN.
BTTC40105	0.318	J	3.98	1.100	0.5	0.50	5/16 IN.
BTTC40106	0.381	J	3.98	1.100	0.5	0.50	3/8 IN.
BTTC40107	0.323	J	3.98	1.100	0.5	0.50	7/16 IN.
BTTC40108	0.367	J	3.98	1.100	0.5	0.50	1/2 IN.
BTTC40109	0.313	J	3.98	1.100	0.5	0.50	1/16 IN.
BTTC40204	0.255	L	5.08	1.690	0.56	0.56	NO.14, 1/4 IN.
BTTC40205	0.318	L	5.08	1.690	0.56	0.56	5/16 IN.
BTTC40206	0.381	L	5.08	1.690	0.56	0.56	3/8 IN.
BTTC40207	0.323	L	5.08	1.690	0.56	0.56	7/16 IN.
BTTC40208	0.367	L	5.08	1.690	0.56	0.56	1/2 IN.
BTTC40209	0.429	L	5.08	1.690	0.56	0.56	9/16 IN.
BTTC40210	0.480	L	5.08	1.690	0.56	0.56	5/8 IN.
BTTC40211	0.590	L	5.08	1.690	0.56	0.56	3/4 IN.
BTTC40212	0.697	L	5.08	1.690	0.56	0.56	7/8 IN.
BTTC40213	0.313	L	5.08	1.690	0.56	0.56	1/16 PIPE
BTTC40214	0.438	L	5.08	1.690	0.56	0.56	1/8 PIPE
BTTC40215	0.563	L	5.08	1.690	0.56	0.56	1/4 PIPE
BTTC40216	0.700	L	5.08	1.690	0.56	0.56	3/8 PIPE
BTTC40217	0.688	L	5.08	1.690	0.56	0.56	1/2 PIPE
BTTC40300	0.590	N	8.27	2.760	0.75	0.75	3/4 IN.
BTTC40301	0.697	N	8.27	2.760	0.75	0.75	7/8 IN.
BTTC40302	0.800	N	8.27	2.760	0.75	0.75	1 IN.
BTTC40303	0.896	N	8.27	2.760	0.75	0.75	1-1/8 IN.
BTTC40304	1.021	N	8.27	2.760	0.75	0.75	1-1/4 IN.
BTTC40305	1.108	N	8.27	2.760	0.75	0.75	1-3/8 IN.
BTTC40306	1.233	N	8.27	2.760	0.75	0.75	1-1/2 IN.
BTTC40307	1.305	N	8.27	2.760	0.75	0.75	1-5/8 IN.
BTTC40308	0.688	N	8.27	2.760	0.75	0.75	1/2 PIPE
BTTC40309	0.906	N	8.27	2.760	0.75	0.75	3/4 PIPE
BTTC40310	1.125	N	8.27	2.760	0.75	0.75	1 PIPE
BTTC40311	1.313	N	8.27	2.760	0.75	0.75	1-1/4 PIPE

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## BT (JMBTA) FLANGE TOOLHOLDERS

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### 45 TAPER, 1/4" THROUGH 1-5/8" HAND TAP, 1/8" THROUGH 1-1/2" PIPE TAP



**Generic Part Name: BTTC45**

Instance Name	capacity	Collet Series	D	L	K	Tap Size
BTTC45004	0.255	L	5.20	1.690	0.56	1/4 IN.
BTTC45005	0.318	L	5.20	1.690	0.56	5/16 IN.
BTTC45006	0.381	L	5.20	1.690	0.56	3/8 IN.
BTTC45007	0.323	L	5.20	1.690	0.56	7/16 IN.
BTTC45008	0.367	L	5.20	1.690	0.56	1/2 IN.
BTTC45009	0.429	L	5.20	1.690	0.56	9/16 IN.
BTTC45010	0.480	L	5.20	1.690	0.56	5/8 IN.
BTTC45011	0.590	L	5.20	1.690	0.56	3/4 IN.
BTTC45012	0.697	L	5.20	1.690	0.56	7/8 IN.
BTTC45013	0.313	L	5.20	1.690	0.56	1/16 PIPE
BTTC45014	0.438	L	5.20	1.690	0.56	1/8 PIPE
BTTC45015	0.563	L	5.20	1.690	0.56	1/4 PIPE
BTTC45016	0.700	L	5.20	1.690	0.56	3/8 PIPE
BTTC45017	0.688	L	5.20	1.690	0.56	1/2 PIPE
BTTC45100	0.590	N	7.87	2.760	0.75	3/4 IN.
BTTC45101	0.697	N	7.87	2.760	0.75	7/8 IN.
BTTC45102	0.800	N	7.87	2.760	0.75	1 IN.
BTTC45103	0.896	N	7.87	2.760	0.75	1-1/8 IN.
BTTC45104	1.021	N	7.87	2.760	0.75	1-1/4 IN.
BTTC45105	1.108	N	7.87	2.760	0.75	1-3/8 IN.

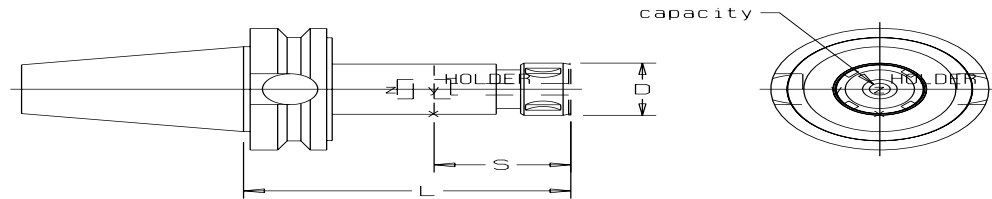
## BT (JMBTA) FLANGE TOOLHOLDERS

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Instance Name	capacity	Collet Series	D	L	K	Tap Size
BTTC45106	1.233	N	7.87	2.760	0.75	1-1/2 IN.
BTTC45107	1.305	N	7.87	2.760	0.75	1-5/8 IN.
BTTC45108	0.688	N	7.87	2.760	0.75	1/2 PIPE
BTTC45109	0.906	N	7.87	2.760	0.75	3/4 PIPE
BTTC45110	1.125	N	7.87	2.760	0.75	1 PIPE
BTTC45111	1.313	N	7.87	2.760	0.75	1-1/4 PIPE

## BT (JMBTA) FLANGE TOOLHOLDERS

### 50 TAPER, 1/4" THROUGH 1-5/8" HAND TAP, 1/16" THROUGH 1-1/4" PIPE TAP



### Generic Part Name: BTTC50

Instance Name	capacity	Collet Series	D	L	K	Tap Size
BTTC50004	0.255	L	5.39	1.690	0.56	1/4 IN.
BTTC50005	0.318	L	5.39	1.690	0.56	5/16 IN.
BTTC50006	0.381	L	5.39	1.690	0.56	3/8 IN.
BTTC50007	0.323	L	5.39	1.690	0.56	7/16 IN.
BTTC50008	0.367	L	5.39	1.690	0.56	1/2 IN.
BTTC50009	0.429	L	5.39	1.690	0.56	9/16 IN.
BTTC50010	0.480	L	5.39	1.690	0.56	5/8 IN.
BTTC50011	0.590	L	5.39	1.690	0.56	3/4 IN.
BTTC50012	0.697	L	5.39	1.690	0.56	7/8 IN.
BTTC50013	0.313	L	5.39	1.690	0.56	1/16 PIPE
BTTC50014	0.438	L	5.39	1.690	0.56	1/8 PIPE
BTTC50015	0.563	L	5.39	1.690	0.56	1/4 PIPE
BTTC50016	0.700	L	5.39	1.690	0.56	3/8 PIPE
BTTC50017	0.688	L	5.39	1.690	0.56	1/2 PIPE
BTTC50100	0.590	N	7.40	2.760	0.75	3/4 IN.
BTTC50101	0.697	N	7.40	2.760	0.75	7/8 IN.
BTTC50102	0.800	N	7.40	2.760	0.75	1 IN.
BTTC50103	0.896	N	7.40	2.760	0.75	1-1/8 IN.
BTTC50104	1.021	N	7.40	2.760	0.75	1-1/4 IN.
BTTC50105	1.108	N	7.40	2.760	0.75	1-3/8 IN.

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## BT (JMBTA) FLANGE TOOLHOLDERS

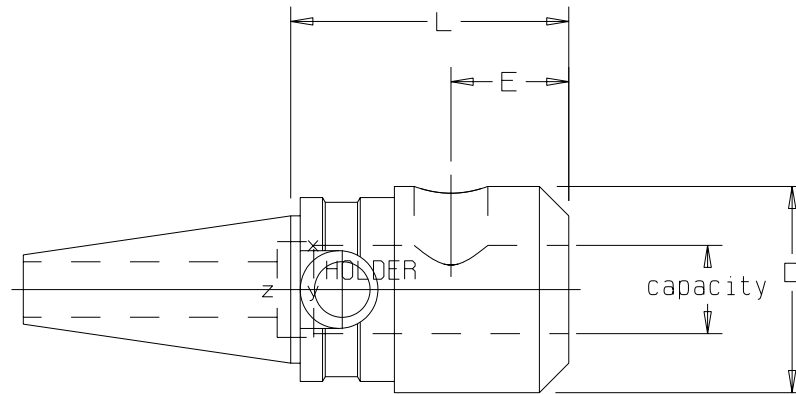
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Instance Name	capacity	Collet Series	D	L	K	Tap Size
BTTC50106	1.233	N	7.40	2.760	0.75	1-1/2 IN.
BTTC50107	1.305	N	7.40	2.760	0.75	1-5/8 IN.
BTTC50108	0.688	N	7.40	2.760	0.75	1/2 PIPE
BTTC50109	0.906	N	7.40	2.760	0.75	3/4 PIPE
BTTC50110	1.125	N	7.40	2.760	0.75	1 PIPE
BTTC50111	1.313	N	7.40	2.760	0.75	1-1/4 PIPE

## ENDMILL ADAPTERS

### 30 TAPER, 0.25" THROUGH 0.75" (0.125" INCREMENT) DIAMETER



### Generic Part Name: BTEM30

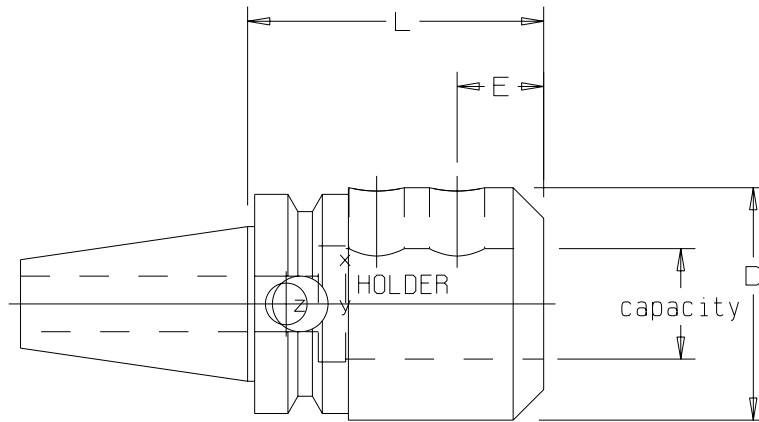
Instance Name	capacity	L	D	E
BTEM30001	0.250	2.36	0.79	0.560
BTEM30002	0.375	2.36	1.25	0.750
BTEM30003	0.500	2.36	1.38	0.875
BTEM30004	0.625	2.36	1.63	0.890
BTEM30005	0.750	2.36	1.75	0.910

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## BT (JMBTA) FLANGE TOOLHOLDERS

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**40 TAPER, 0.25" THROUGH 1" (0.125" INCREMENT), AND 1.25" DIAMETER**



**Generic Part Name: BTEM40**

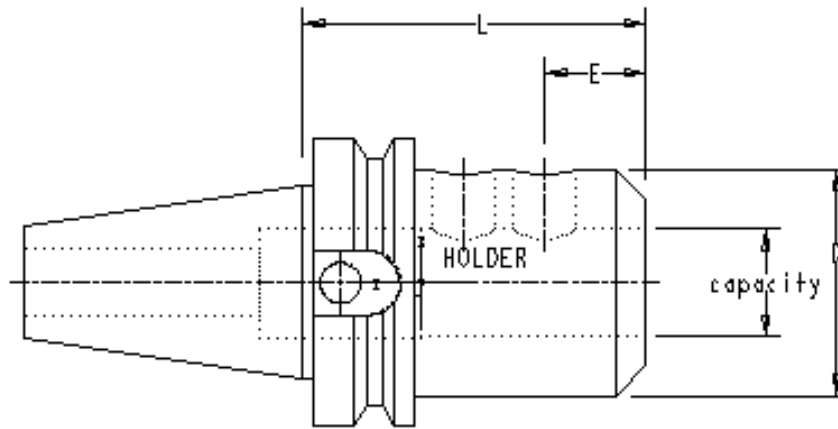
Instance Name	capacity	L	D	E
BTEM40001	0.250	2.55	0.79	0.560
BTEM40002	0.312	2.55	0.87	0.620
BTEM40003	0.375	2.55	1.25	0.750
BTEM40004	0.500	2.55	1.38	0.875
BTEM40005	0.500	4.00	1.38	0.875
BTEM40006	0.625	2.55	1.63	0.940
BTEM40007	0.750	2.55	1.75	1.000
BTEM40008	0.875	3.35	2.00	1.000
BTEM40009	1.000	3.74	2.38	1.130
BTEM40010	1.000	5.00	2.38	1.130
BTEM40011	1.250	3.35	2.63	0.980

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## BT (JMBTA) FLANGE TOOLHOLDERS

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### 45 TAPER, 0.75", 1", AND 1.25" DIAMETER



### Generic Part Name: BTEM45

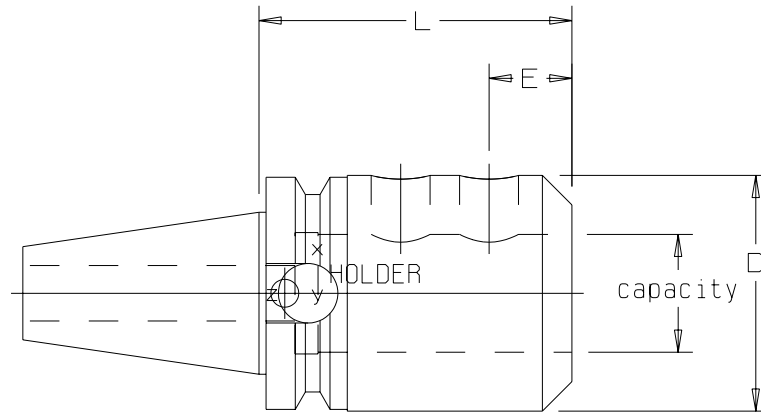
Instance Name	capacity	L	D	E
BTEM45001	0.750	3.75	1.88	1.000
BTEM45002	1.000	4.00	2.25	1.125
BTEM45003	1.250	4.00	2.62	1.188

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## BT (JMBTA) FLANGE TOOLHOLDERS

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**50 TAPER, 0.5" THROUGH 1.25" (0.25" INCREMENT), 1.5", AND 2" DIAMETER**

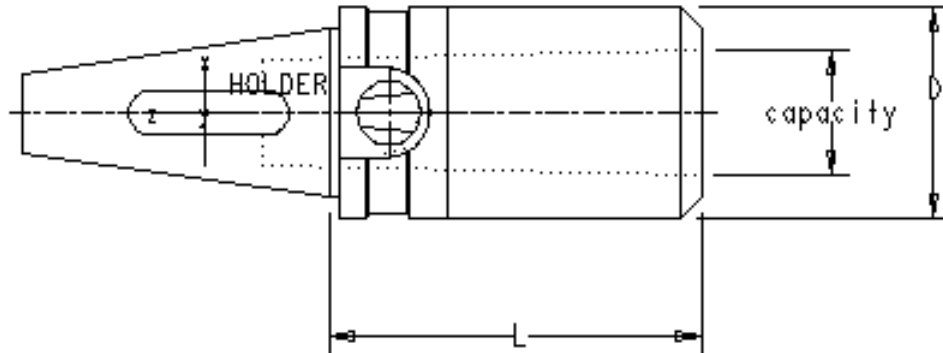


**Generic Part Name: BTEM50**

Instance Name	capacity	L	D	E
BTEM50001	0.500	2.95	1.38	0.875
BTEM50002	0.750	2.95	1.75	1.000
BTEM50003	1.000	4.13	2.38	1.125
BTEM50004	1.000	6.00	2.38	1.125
BTEM50005	1.250	4.13	2.63	1.125
BTEM50006	1.250	6.00	2.63	1.125
BTEM50007	1.500	4.13	3.00	1.125
BTEM50008	2.000	5.31	4.00	1.250

## MORSE TAPER SHANK ADAPTERS

### 30 TAPER, NUMBER 1 THROUGH 3



**Generic Part Name: BTMT30**

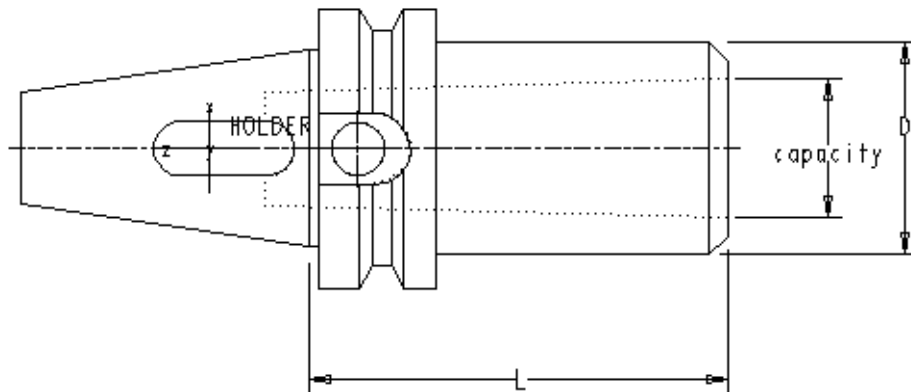
Instance Name	Morse Taper	L	D	capacity
BTMT30001	1	1.97	0.98	0.4750
BTMT30002	2	2.36	1.26	0.7000
BTMT30003	3	2.76	1.57	0.9380

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## BT (JMBTA) FLANGE TOOLHOLDERS

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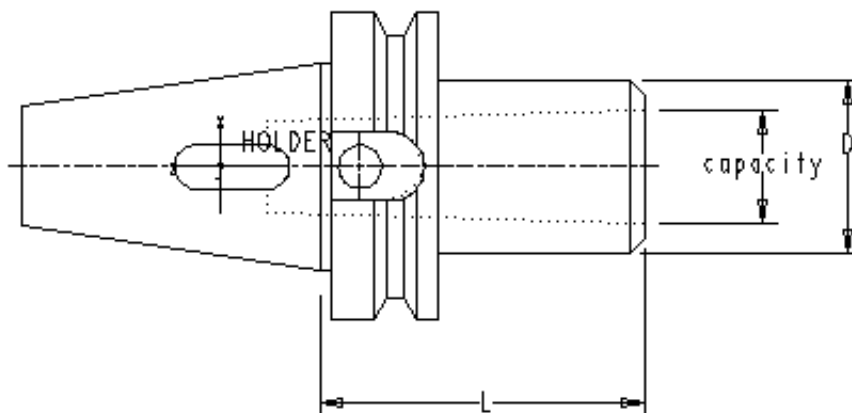
### 40 TAPER, NUMBER 1 THROUGH 4



**Generic Part Name: BTMT40**

Instance Name	Morse Taper	L	D	capacity
BTMT40001	1	1.97	0.98	0.4750
BTMT40002	2	1.97	1.26	0.7000
BTMT40003	3	2.76	1.57	0.9380
BTMT40004	4	3.74	1.89	1.2310

**45 TAPER, NUMBER 4**



**Generic Part Name: BTMT45**

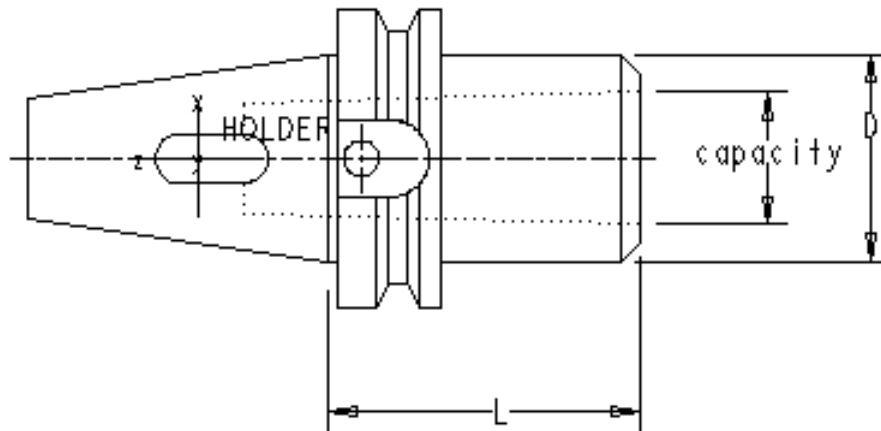
Instance Name	Morse Taper	L	D	capacity
BTMT45001	4	3.54	1.89	1.2310

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## BT (JMBTA) FLANGE TOOLHOLDERS

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### 50 TAPER, NUMBER 5



**Generic Part Name: BTMT50**

Instance Name	Morse Taper	L	D	capacity
BTMT50001	5	4.13	2.76	1.7480

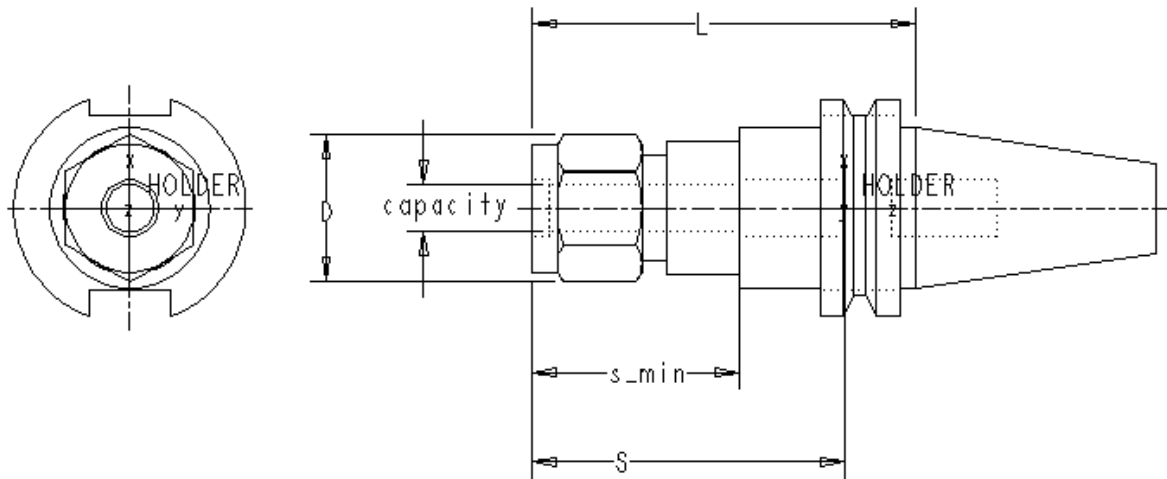
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# CATERPILLAR V-FLANGE TOOLHOLDERS

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## COLLET CHUCKS

### 30 TAPER, 1/64" THROUGH 1" TOOL SHANK CAPACITY



**Generic Part Name: VFCC30**

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC30100	0.015625	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.250
VFCC30101	0.031250	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.250
VFCC30102	0.046875	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.250
VFCC30103	0.062500	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.250
VFCC30104	0.078125	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.250
VFCC30105	0.093750	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.250
VFCC30106	0.109375	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.250
VFCC30107	0.125000	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.250
VFCC30108	0.140625	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.250
VFCC30109	0.156250	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.250

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC30110	0.171875	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.250
VFCC30111	0.187500	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.250
VFCC30112	0.203125	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.250
VFCC30113	0.218750	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.250
VFCC30114	0.234375	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.250
VFCC30115	0.250000	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.250
VFCC30116	0.265625	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.250
VFCC30117	0.281250	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.250
VFCC30118	0.296875	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.250
VFCC30119	0.312500	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.250
VFCC30120	0.328125	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.250
VFCC30121	0.343750	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.250
VFCC30122	0.359375	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.250
VFCC30123	0.375000	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.250
VFCC30200	0.031250	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30201	0.046875	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30202	0.062500	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30203	0.078125	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30204	0.093750	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30205	0.109375	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30206	0.125000	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC30207	0.140625	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30208	0.156250	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30209	0.171875	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30210	0.187500	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30211	0.203125	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30212	0.218750	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30213	0.234375	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30214	0.250000	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30215	0.265625	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30216	0.281250	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30217	0.296875	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30218	0.312500	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30219	0.328125	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30220	0.343750	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30221	0.359375	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30222	0.375000	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30223	0.390625	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30224	0.406250	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30225	0.421875	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30226	0.437500	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30227	0.453125	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC30228	0.468750	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30229	0.484375	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30230	0.500000	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30231	0.515625	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30232	0.531250	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30233	0.546875	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30234	0.562500	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30235	0.578125	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30236	0.593750	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30237	0.609375	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30238	0.625000	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30239	0.640625	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30240	0.656250	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30241	0.671875	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30242	0.687500	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30243	0.703125	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30244	0.718750	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30245	0.734375	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30246	0.750000	DOUBLE ANGLE	DA18	3.06	1.720	2.22	1.94	2.500
VFCC30300	0.375000	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30301	0.390625	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950

## CATERPILLAR V-FLANGE TOOLHOLDERS

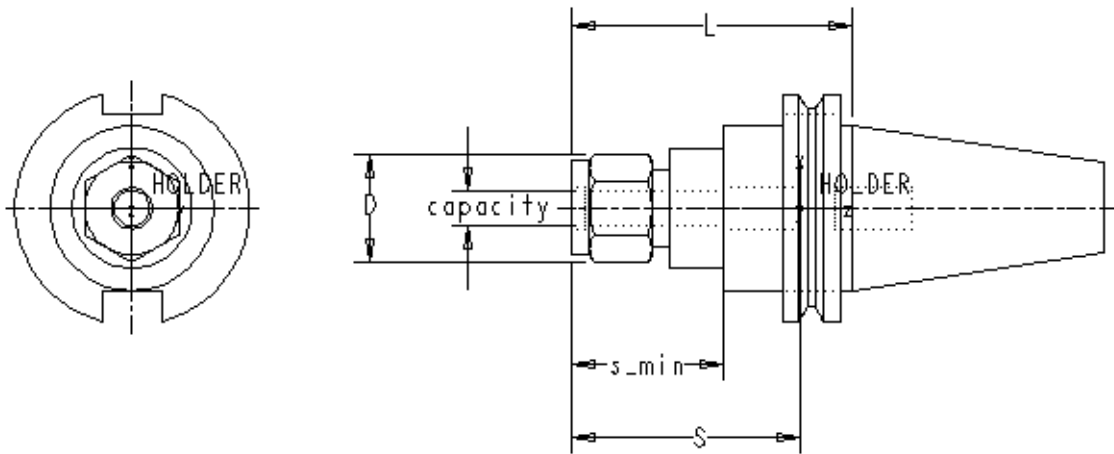
Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC30302	0.406250	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30303	0.421875	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30304	0.437500	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30305	0.453125	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30306	0.468750	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30307	0.484375	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30308	0.500000	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30309	0.515625	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30310	0.531250	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30311	0.546875	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30312	0.562500	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30313	0.578125	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30314	0.593750	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30315	0.609375	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30316	0.625000	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30317	0.640625	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30318	0.656250	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30319	0.671875	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30320	0.687500	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30321	0.703125	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30322	0.718750	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC30323	0.734375	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30324	0.750000	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30325	0.765625	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30326	0.781250	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30327	0.796875	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30328	0.812500	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30329	0.828125	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30330	0.843750	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30331	0.859375	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30332	0.875000	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30333	0.890625	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30334	0.906250	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30335	0.921875	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30336	0.937500	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30337	0.953125	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30338	0.968750	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30339	0.984375	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950
VFCC30340	1.000000	SINGLE ANGLE	SA10	5.00	2.500	3.45	2.94	3.950

## CATERPILLAR V-FLANGE TOOLHOLDERS

### 40 TAPER, 1/64" THROUGH 1-1/2" TOOL SHANK CAPACITY



**Generic Part Name: VFCC40**

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC40100	0.015625	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.000
VFCC40101	0.031250	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.000
VFCC40102	0.046875	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.000
VFCC40103	0.062500	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.000
VFCC40104	0.078125	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.000
VFCC40105	0.093750	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.000
VFCC40106	0.109375	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.000
VFCC40107	0.125000	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.000
VFCC40108	0.140625	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.000
VFCC40109	0.156250	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.000
VFCC40110	0.171875	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.000
VFCC40111	0.187500	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.000

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC40112	0.203125	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.000
VFCC40113	0.218750	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.000
VFCC40114	0.234375	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.000
VFCC40115	0.250000	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.000
VFCC40116	0.265625	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.000
VFCC40117	0.281250	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.000
VFCC40118	0.296875	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.000
VFCC40119	0.312500	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.000
VFCC40120	0.328125	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.000
VFCC40121	0.343750	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.000
VFCC40122	0.359375	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.000
VFCC40123	0.375000	DOUBLE ANGLE	DA20	3.00	1.150	2.44	1.62	3.000
VFCC40200	0.031250	DOUBLE ANGLE	DA18	3.00	1.730	2.22	1.94	2.750
VFCC40201	0.046875	DOUBLE ANGLE	DA18	3.00	1.730	2.22	1.94	2.750
VFCC40202	0.062500	DOUBLE ANGLE	DA18	3.00	1.730	2.22	1.94	2.750
VFCC40203	0.078125	DOUBLE ANGLE	DA18	3.00	1.730	2.22	1.94	2.750
VFCC40204	0.093750	DOUBLE ANGLE	DA18	3.00	1.730	2.22	1.94	2.750
VFCC40205	0.109375	DOUBLE ANGLE	DA18	3.00	1.730	2.22	1.94	2.750
VFCC40206	0.125000	DOUBLE ANGLE	DA18	3.00	1.730	2.22	1.94	2.750
VFCC40207	0.140625	DOUBLE ANGLE	DA18	3.00	1.730	2.22	1.94	2.750
VFCC40208	0.156250	DOUBLE ANGLE	DA18	3.00	1.730	2.22	1.94	2.750

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC40209	0.171875	DOUBLE ANGLE	DA18	3.00	1.730	2.22	1.94	2.750
VFCC40210	0.187500	DOUBLE ANGLE	DA18	3.00	1.730	2.22	1.94	2.750
VFCC40211	0.203125	DOUBLE ANGLE	DA18	3.00	1.730	2.22	1.94	2.750
VFCC40212	0.218750	DOUBLE ANGLE	DA18	3.00	1.730	2.22	1.94	2.750
VFCC40213	0.234375	DOUBLE ANGLE	DA18	3.00	1.730	2.22	1.94	2.750
VFCC40214	0.250000	DOUBLE ANGLE	DA18	3.00	1.730	2.22	1.94	2.750
VFCC40215	0.265625	DOUBLE ANGLE	DA18	3.00	1.730	2.22	1.94	2.750
VFCC40216	0.281250	DOUBLE ANGLE	DA18	3.00	1.730	2.22	1.94	2.750
VFCC40217	0.296875	DOUBLE ANGLE	DA18	3.00	1.730	2.22	1.94	2.750
VFCC40218	0.312500	DOUBLE ANGLE	DA18	3.00	1.730	2.22	1.94	2.750
VFCC40219	0.328125	DOUBLE ANGLE	DA18	3.00	1.730	2.22	1.94	2.750
VFCC40220	0.343750	DOUBLE ANGLE	DA18	3.00	1.730	2.22	1.94	2.750
VFCC40221	0.359375	DOUBLE ANGLE	DA18	3.00	1.730	2.22	1.94	2.750
VFCC40222	0.375000	DOUBLE ANGLE	DA18	3.00	1.730	2.22	1.94	2.750
VFCC40223	0.390625	DOUBLE ANGLE	DA18	3.00	1.730	2.22	1.94	2.750
VFCC40224	0.406250	DOUBLE ANGLE	DA18	3.00	1.730	2.22	1.94	2.750
VFCC40225	0.421875	DOUBLE ANGLE	DA18	3.00	1.730	2.22	1.94	2.750
VFCC40226	0.437500	DOUBLE ANGLE	DA18	3.00	1.730	2.22	1.94	2.750
VFCC40227	0.453125	DOUBLE ANGLE	DA18	3.00	1.730	2.22	1.94	2.750
VFCC40228	0.468750	DOUBLE ANGLE	DA18	3.00	1.730	2.22	1.94	2.750
VFCC40229	0.484375	DOUBLE ANGLE	DA18	3.00	1.730	2.22	1.94	2.750

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC40230	0.500000	DOUBLE ANGLE	DA18	3.00	1.730	2.22	1.94	2.750
VFCC40231	0.515625	DOUBLE ANGLE	DA18	3.00	1.730	2.22	1.94	2.750
VFCC40232	0.531250	DOUBLE ANGLE	DA18	3.00	1.730	2.22	1.94	2.750
VFCC40300	0.062500	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40301	0.078125	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40302	0.093750	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40303	0.109375	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40304	0.125000	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40305	0.140625	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40306	0.156250	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40307	0.171875	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40308	0.187500	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40309	0.203125	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40310	0.218750	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40311	0.234375	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40312	0.250000	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40313	0.265625	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40314	0.281250	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40315	0.296875	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40316	0.312500	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40317	0.328125	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC40318	0.343750	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40319	0.359375	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40320	0.375000	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40321	0.390625	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40322	0.406250	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40323	0.421875	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40324	0.437500	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40325	0.453125	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40326	0.468750	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40327	0.484375	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40328	0.500000	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40329	0.515625	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40330	0.531250	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40331	0.546875	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40332	0.562500	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40333	0.578125	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40334	0.593750	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40335	0.609375	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40336	0.625000	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40337	0.640625	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40338	0.656250	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC40339	0.671875	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40340	0.687500	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40341	0.703125	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40342	0.718750	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40343	0.734375	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40344	0.750000	SINGLE ANGLE	SA75	2.75	2.090	2.81	2.31	3.310
VFCC40400	0.375000	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40401	0.390625	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40402	0.406250	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40403	0.421875	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40404	0.437500	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40405	0.453125	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40406	0.468750	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40407	0.484375	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40408	0.500000	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40409	0.515625	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40410	0.531250	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40411	0.546875	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40412	0.562500	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40413	0.578125	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40414	0.593750	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC40415	0.609375	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40416	0.625000	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40417	0.640625	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40418	0.656250	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40419	0.671875	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40420	0.687500	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40421	0.703125	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40422	0.718750	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40423	0.734375	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40424	0.750000	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40425	0.765625	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40426	0.781250	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40427	0.796875	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40428	0.812500	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40429	0.828125	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40430	0.843750	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40431	0.859375	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40432	0.875000	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40433	0.890625	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40434	0.906250	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40435	0.921875	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC40436	0.937500	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40437	0.953125	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40438	0.968750	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40439	0.984375	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40440	1.000000	SINGLE ANGLE	SA10	3.00	2.440	3.22	2.94	3.500
VFCC40500	0.375000	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40501	0.390625	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40502	0.406250	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40503	0.421875	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40504	0.437500	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40505	0.453125	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40506	0.468750	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40507	0.484375	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40508	0.500000	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40509	0.515625	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40510	0.531250	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40511	0.546875	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40512	0.562500	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40513	0.578125	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40514	0.593750	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40515	0.609375	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC40516	0.625000	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40517	0.640625	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40518	0.656250	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40519	0.671875	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40520	0.687500	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40521	0.703125	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40522	0.718750	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40523	0.734375	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40524	0.750000	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40525	0.765625	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40526	0.781250	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40527	0.796875	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40528	0.812500	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40529	0.828125	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40530	0.843750	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40531	0.859375	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40532	0.875000	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40533	0.890625	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40534	0.906250	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40535	0.921875	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40536	0.937500	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC40537	0.953125	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40538	0.968750	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40539	0.984375	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40540	1.000000	SINGLE ANGLE	SA10	4.00	2.440	3.72	2.94	4.500
VFCC40600	0.375000	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40601	0.390625	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40602	0.406250	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40603	0.421875	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40604	0.437500	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40605	0.453125	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40606	0.468750	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40607	0.484375	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40608	0.500000	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40609	0.515625	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40610	0.531250	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40611	0.546875	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40612	0.562500	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40613	0.578125	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40614	0.593750	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40615	0.609375	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40616	0.625000	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC40617	0.640625	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40618	0.656250	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40619	0.671875	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40620	0.687500	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40621	0.703125	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40622	0.718750	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40623	0.734375	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40624	0.750000	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40625	0.765625	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40626	0.781250	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40627	0.796875	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40628	0.812500	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40629	0.828125	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40630	0.843750	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40631	0.859375	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40632	0.875000	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40633	0.890625	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40634	0.906250	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40635	0.921875	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40636	0.937500	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40637	0.953125	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC40638	0.968750	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40639	0.984375	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40640	1.000000	SINGLE ANGLE	SA10	6.00	2.440	4.63	2.94	6.320
VFCC40700	0.500000	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40701	0.515625	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40702	0.531250	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40703	0.546875	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40704	0.562500	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40705	0.578125	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40706	0.593750	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40707	0.609375	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40708	0.625000	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40709	0.640625	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40710	0.656250	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40711	0.671875	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40712	0.687500	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40713	0.703125	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40714	0.718750	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40715	0.734375	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40716	0.750000	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40717	0.765625	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC40718	0.781250	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40719	0.796875	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40720	0.812500	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40721	0.828125	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40722	0.843750	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40723	0.859375	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40724	0.875000	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40725	0.890625	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40726	0.906250	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40727	0.921875	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40728	0.937500	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40729	0.953125	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40730	0.968750	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40731	0.984375	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40732	1.000000	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40733	1.015625	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40734	1.031250	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40735	1.046875	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40736	1.062500	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40737	1.078125	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40738	1.093750	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC40739	1.109375	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40740	1.125000	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40741	1.140625	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40742	1.156250	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40743	1.171875	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40744	1.187500	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40745	1.203125	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40746	1.218750	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40747	1.234375	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40748	1.250000	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40749	1.265625	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40750	1.281250	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40751	1.296875	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40752	1.312500	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40753	1.328125	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40754	1.343750	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40755	1.359375	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40756	1.375000	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40757	1.390625	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40758	1.406250	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40759	1.421875	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480

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## CATERPILLAR V-FLANGE TOOLHOLDERS

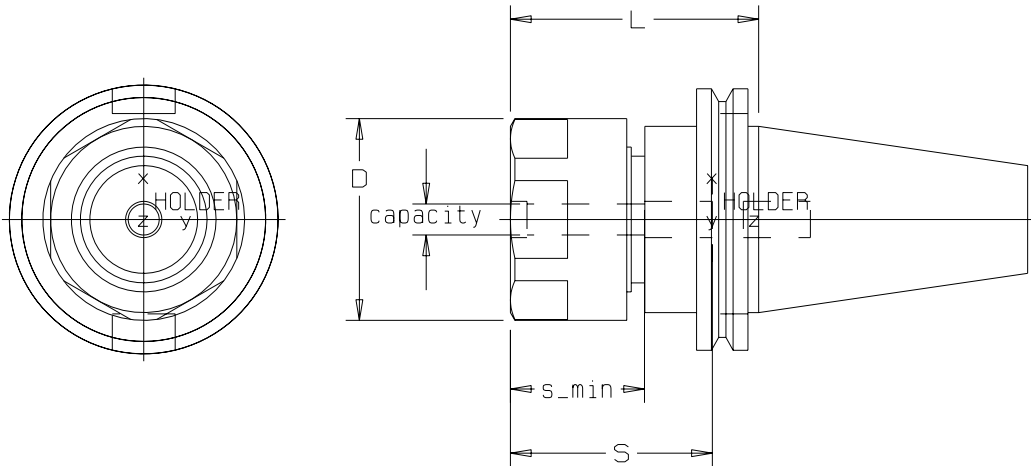
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Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC40760	1.437500	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40761	1.453125	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40762	1.468750	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40763	1.484375	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480
VFCC40764	1.500000	SINGLE ANGLE	SA15	4.88	3.500	4.07	3.25	4.480

## CATERPILLAR V-FLANGE TOOLHOLDERS

### 45 TAPER, 3/8" THROUGH 1-1/2" TOOL SHANK CAPACITY



**Generic Part Name: VFCC45**

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC45100	0.375000	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45101	0.390625	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45102	0.406250	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45103	0.421875	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45104	0.437500	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45105	0.453125	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45106	0.468750	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45107	0.484375	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45108	0.500000	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45109	0.515625	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45110	0.531250	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC45111	0.546875	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45112	0.562500	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45113	0.578125	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45114	0.593750	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45115	0.609375	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45116	0.625000	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45117	0.640625	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45118	0.656250	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45119	0.671875	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45120	0.687500	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45121	0.703125	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45122	0.718750	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45123	0.734375	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45124	0.750000	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45125	0.765625	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45126	0.781250	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45127	0.796875	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45128	0.812500	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45129	0.828125	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45130	0.843750	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45131	0.859375	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC45132	0.875000	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45133	0.890625	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45134	0.906250	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45135	0.921875	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45136	0.937500	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45137	0.953125	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45138	0.968750	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45139	0.984375	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45140	1.000000	SINGLE ANGLE	SA10	3.00	2.440	3.60	2.94	4.250
VFCC45200	0.375000	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45201	0.390625	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45202	0.406250	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45203	0.421875	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45204	0.437500	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45205	0.453125	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45206	0.468750	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45207	0.484375	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45208	0.500000	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45209	0.515625	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45210	0.531250	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45211	0.546875	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC45212	0.562500	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45213	0.578125	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45214	0.593750	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45215	0.609375	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45216	0.625000	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45217	0.640625	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45218	0.656250	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45219	0.671875	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45220	0.687500	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45221	0.703125	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45222	0.718750	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45223	0.734375	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45224	0.750000	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45225	0.765625	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45226	0.781250	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45227	0.796875	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45228	0.812500	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45229	0.828125	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45230	0.843750	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45231	0.859375	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45232	0.875000	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC45233	0.890625	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45234	0.906250	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45235	0.921875	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45236	0.937500	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45237	0.953125	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45238	0.968750	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45239	0.984375	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45240	1.000000	SINGLE ANGLE	SA10	4.00	2.440	4.10	2.94	5.250
VFCC45300	0.375000	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45301	0.390625	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45302	0.406250	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45303	0.421875	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45304	0.437500	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45305	0.453125	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45306	0.468750	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45307	0.484375	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45308	0.500000	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45309	0.515625	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45310	0.531250	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45311	0.546875	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45312	0.562500	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC45313	0.578125	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45314	0.593750	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45315	0.609375	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45316	0.625000	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45317	0.640625	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45318	0.656250	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45319	0.671875	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45320	0.687500	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45321	0.703125	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45322	0.718750	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45323	0.734375	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45324	0.750000	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45325	0.765625	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45326	0.781250	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45327	0.796875	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45328	0.812500	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45329	0.828125	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45330	0.843750	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45331	0.859375	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45332	0.875000	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45333	0.890625	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC45334	0.906250	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45335	0.921875	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45336	0.937500	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45337	0.953125	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45338	0.968750	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45339	0.984375	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45340	1.000000	SINGLE ANGLE	SA10	6.00	2.440	5.10	2.94	7.250
VFCC45400	0.375000	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45401	0.390625	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45402	0.406250	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45403	0.421875	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45404	0.437500	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45405	0.453125	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45406	0.468750	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45407	0.484375	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45408	0.500000	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45409	0.515625	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45410	0.531250	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45411	0.546875	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45412	0.562500	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45413	0.578125	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC45414	0.593750	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45415	0.609375	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45416	0.625000	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45417	0.640625	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45418	0.656250	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45419	0.671875	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45420	0.687500	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45421	0.703125	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45422	0.718750	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45423	0.734375	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45424	0.750000	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45425	0.765625	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45426	0.781250	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45427	0.796875	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45428	0.812500	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45429	0.828125	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45430	0.843750	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45431	0.859375	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45432	0.875000	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45433	0.890625	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45434	0.906250	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC45435	0.921875	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45436	0.937500	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45437	0.953125	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45438	0.968750	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45439	0.984375	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45440	1.000000	SINGLE ANGLE	SA10	8.00	2.440	4.63	2.94	6.310
VFCC45500	0.500000	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45501	0.515625	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45502	0.531250	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45503	0.546875	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45504	0.562500	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45505	0.578125	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45506	0.593750	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45507	0.609375	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45508	0.625000	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45509	0.640625	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45510	0.656250	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45511	0.671875	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45512	0.687500	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45513	0.703125	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45514	0.718750	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC45515	0.734375	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45516	0.750000	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45517	0.765625	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45518	0.781250	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45519	0.796875	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45520	0.812500	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45521	0.828125	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45522	0.843750	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45523	0.859375	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45524	0.875000	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45525	0.890625	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45526	0.906250	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45527	0.921875	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45528	0.937500	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45529	0.953125	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45530	0.968750	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45531	0.984375	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45532	1.000000	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45533	1.015625	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45534	1.031250	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45535	1.046875	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC45536	1.062500	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45537	1.078125	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45538	1.093750	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45539	1.109375	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45540	1.125000	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45541	1.140625	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45542	1.156250	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45543	1.171875	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45544	1.187500	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45545	1.203125	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45546	1.218750	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45547	1.234375	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45548	1.250000	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45549	1.265625	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45550	1.281250	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45551	1.296875	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45552	1.312500	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45553	1.328125	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45554	1.343750	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45555	1.359375	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45556	1.375000	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC45557	1.390625	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45558	1.406250	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45559	1.421875	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45560	1.437500	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45561	1.453125	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45562	1.468750	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45563	1.484375	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45564	1.500000	SINGLE ANGLE	SA15	3.00	3.480	3.74	3.25	4.220
VFCC45600	0.500000	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45601	0.515625	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45602	0.531250	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45603	0.546875	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45604	0.562500	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45605	0.578125	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45606	0.593750	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45607	0.609375	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45608	0.625000	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45609	0.640625	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45610	0.656250	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45611	0.671875	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45612	0.687500	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC45613	0.703125	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45614	0.718750	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45615	0.734375	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45616	0.750000	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45617	0.765625	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45618	0.781250	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45619	0.796875	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45620	0.812500	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45621	0.828125	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45622	0.843750	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45623	0.859375	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45624	0.875000	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45625	0.890625	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45626	0.906250	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45627	0.921875	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45628	0.937500	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45629	0.953125	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45630	0.968750	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45631	0.984375	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45632	1.000000	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45633	1.015625	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC45634	1.031250	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45635	1.046875	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45636	1.062500	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45637	1.078125	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45638	1.093750	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45639	1.109375	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45640	1.125000	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45641	1.140625	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45642	1.156250	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45643	1.171875	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45644	1.187500	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45645	1.203125	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45646	1.218750	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45647	1.234375	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45648	1.250000	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45649	1.265625	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45650	1.281250	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45651	1.296875	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45652	1.312500	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45653	1.328125	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45654	1.343750	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC45655	1.359375	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45656	1.375000	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45657	1.390625	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45658	1.406250	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45659	1.421875	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45660	1.437500	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45661	1.453125	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45662	1.468750	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45663	1.484375	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45664	1.500000	SINGLE ANGLE	SA15	4.00	3.480	3.99	3.25	4.730
VFCC45700	0.500000	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45701	0.515625	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45702	0.531250	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45703	0.546875	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45704	0.562500	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45705	0.578125	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45706	0.593750	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45707	0.609375	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45708	0.625000	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45709	0.640625	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45710	0.656250	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC45711	0.671875	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45712	0.687500	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45713	0.703125	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45714	0.718750	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45715	0.734375	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45716	0.750000	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45717	0.765625	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45718	0.781250	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45719	0.796875	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45720	0.812500	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45721	0.828125	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45722	0.843750	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45723	0.859375	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45724	0.875000	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45725	0.890625	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45726	0.906250	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45727	0.921875	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45728	0.937500	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45729	0.953125	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45730	0.968750	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45731	0.984375	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850

## CATERPILLAR V-FLANGE TOOLHOLDERS

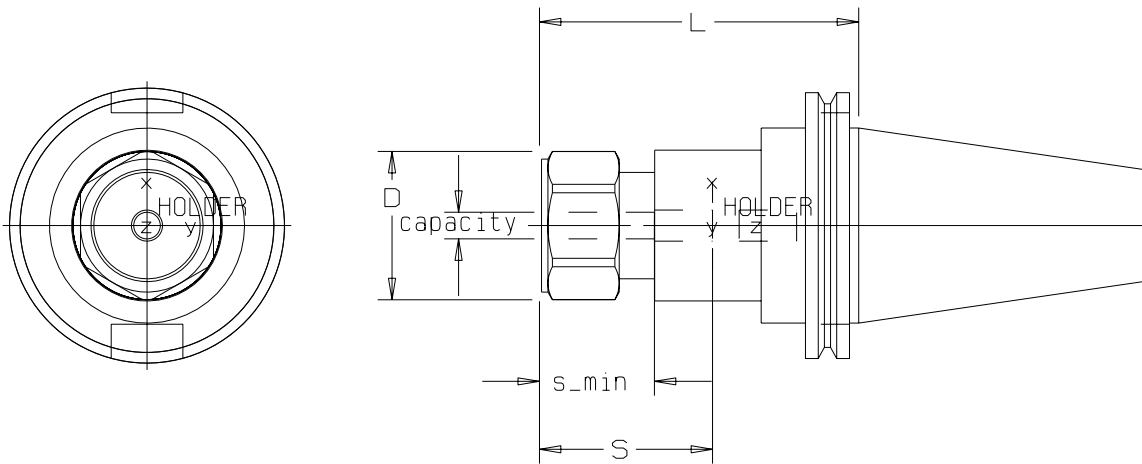
Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC45732	1.000000	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45733	1.015625	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45734	1.031250	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45735	1.046875	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45736	1.062500	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45737	1.078125	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45738	1.093750	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45739	1.109375	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45740	1.125000	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45741	1.140625	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45742	1.156250	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45743	1.171875	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45744	1.187500	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45745	1.203125	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45746	1.218750	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45747	1.234375	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45748	1.250000	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45749	1.265625	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45750	1.281250	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45751	1.296875	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45752	1.312500	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC45753	1.328125	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45754	1.343750	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45755	1.359375	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45756	1.375000	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45757	1.390625	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45758	1.406250	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45759	1.421875	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45760	1.437500	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45761	1.453125	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45762	1.468750	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45763	1.484375	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850
VFCC45764	1.500000	SINGLE ANGLE	SA15	6.00	3.480	4.55	3.25	5.850

# CATERPILLAR V-FLANGE TOOLHOLDERS

## 50 TAPER, 1/16" THROUGH 2" TOOL SHANK CAPACITY



**Generic Part Name: VFCC50**

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC50100	0.062500	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50101	0.078125	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50102	0.093750	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50103	0.109375	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50104	0.125000	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50105	0.140625	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50106	0.156250	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50107	0.171875	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50108	0.187500	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50109	0.203125	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50110	0.218750	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50111	0.234375	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC50112	0.250000	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50113	0.265625	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50114	0.281250	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50115	0.296875	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50116	0.312500	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50117	0.328125	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50118	0.343750	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50119	0.359375	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50120	0.375000	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50121	0.390625	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50122	0.406250	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50123	0.421875	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50124	0.437500	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50125	0.453125	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50126	0.468750	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50127	0.484375	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50128	0.500000	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50129	0.515625	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50130	0.531250	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50131	0.546875	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50132	0.562500	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC50133	0.578125	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50134	0.593750	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50135	0.609375	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50136	0.625000	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50137	0.640625	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50138	0.656250	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50139	0.671875	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50140	0.687500	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50141	0.703125	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50142	0.718750	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50143	0.734375	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50144	0.750000	SINGLE ANGLE	SA75	4.50	2.090	3.63	2.31	4.940
VFCC50200	0.375000	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50201	0.390625	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50202	0.406250	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50203	0.421875	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50204	0.437500	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50205	0.453125	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50206	0.468750	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50207	0.484375	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50208	0.500000	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC50209	0.515625	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50210	0.531250	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50211	0.546875	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50212	0.562500	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50213	0.578125	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50214	0.593750	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50215	0.609375	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50216	0.625000	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50217	0.640625	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50218	0.656250	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50219	0.671875	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50220	0.687500	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50221	0.703125	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50222	0.718750	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50223	0.734375	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50224	0.750000	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50225	0.765625	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50226	0.781250	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50227	0.796875	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50228	0.812500	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50229	0.828125	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC50230	0.843750	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50231	0.859375	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50232	0.875000	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50233	0.890625	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50234	0.906250	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50235	0.921875	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50236	0.937500	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50237	0.953125	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50238	0.968750	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50239	0.984375	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50240	1.000000	SINGLE ANGLE	SA10	3.00	2.500	3.85	2.94	4.750
VFCC50300	0.375000	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50301	0.390625	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50302	0.406250	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50303	0.421875	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50304	0.437500	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50305	0.453125	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50306	0.468750	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50307	0.484375	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50308	0.500000	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50309	0.515625	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC50310	0.531250	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50311	0.546875	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50312	0.562500	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50313	0.578125	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50314	0.593750	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50315	0.609375	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50316	0.625000	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50317	0.640625	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50318	0.656250	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50319	0.671875	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50320	0.687500	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50321	0.703125	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50322	0.718750	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50323	0.734375	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50324	0.750000	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50325	0.765625	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50326	0.781250	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50327	0.796875	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50328	0.812500	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50329	0.828125	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50330	0.843750	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC50331	0.859375	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50332	0.875000	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50333	0.890625	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50334	0.906250	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50335	0.921875	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50336	0.937500	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50337	0.953125	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50338	0.968750	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50339	0.984375	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50340	1.000000	SINGLE ANGLE	SA10	3.50	2.500	4.10	2.94	5.250
VFCC50400	0.375000	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50401	0.390625	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50402	0.406250	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50403	0.421875	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50404	0.437500	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50405	0.453125	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50406	0.468750	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50407	0.484375	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50408	0.500000	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50409	0.515625	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50410	0.531250	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC50411	0.546875	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50412	0.562500	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50413	0.578125	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50414	0.593750	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50415	0.609375	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50416	0.625000	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50417	0.640625	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50418	0.656250	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50419	0.671875	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50420	0.687500	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50421	0.703125	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50422	0.718750	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50423	0.734375	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50424	0.750000	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50425	0.765625	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50426	0.781250	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50427	0.796875	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50428	0.812500	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50429	0.828125	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50430	0.843750	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50431	0.859375	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC50432	0.875000	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50433	0.890625	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50434	0.906250	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50435	0.921875	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50436	0.937500	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50437	0.953125	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50438	0.968750	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50439	0.984375	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50440	1.000000	SINGLE ANGLE	SA10	5.50	2.500	5.10	2.94	7.250
VFCC50500	0.375000	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50501	0.390625	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50502	0.406250	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50503	0.421875	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50504	0.437500	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50505	0.453125	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50506	0.468750	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50507	0.484375	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50508	0.500000	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50509	0.515625	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50510	0.531250	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50511	0.546875	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC50512	0.562500	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50513	0.578125	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50514	0.593750	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50515	0.609375	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50516	0.625000	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50517	0.640625	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50518	0.656250	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50519	0.671875	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50520	0.687500	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50521	0.703125	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50522	0.718750	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50523	0.734375	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50524	0.750000	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50525	0.765625	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50526	0.781250	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50527	0.796875	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50528	0.812500	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50529	0.828125	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50530	0.843750	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50531	0.859375	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50532	0.875000	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC50533	0.890625	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50534	0.906250	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50535	0.921875	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50536	0.937500	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50537	0.953125	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50538	0.968750	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50539	0.984375	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50540	1.000000	SINGLE ANGLE	SA10	7.50	2.500	5.47	2.94	8.000
VFCC50600	0.500000	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50601	0.515625	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50602	0.531250	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50603	0.546875	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50604	0.562500	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50605	0.578125	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50606	0.593750	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50607	0.609375	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50608	0.625000	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50609	0.640625	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50610	0.656250	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50611	0.671875	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50612	0.687500	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC50613	0.703125	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50614	0.718750	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50615	0.734375	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50616	0.750000	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50617	0.765625	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50618	0.781250	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50619	0.796875	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50620	0.812500	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50621	0.828125	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50622	0.843750	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50623	0.859375	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50624	0.875000	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50625	0.890625	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50626	0.906250	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50627	0.921875	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50628	0.937500	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50629	0.953125	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50630	0.968750	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50631	0.984375	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50632	1.000000	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50633	1.015625	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC50634	1.031250	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50635	1.046875	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50636	1.062500	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50637	1.078125	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50638	1.093750	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50639	1.109375	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50640	1.125000	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50641	1.140625	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50642	1.156250	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50643	1.171875	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50644	1.187500	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50645	1.203125	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50646	1.218750	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50647	1.234375	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50648	1.250000	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50649	1.265625	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50650	1.281250	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50651	1.296875	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50652	1.312500	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50653	1.328125	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50654	1.343750	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC50655	1.359375	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50656	1.375000	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50657	1.390625	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50658	1.406250	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50659	1.421875	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50660	1.437500	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50661	1.453125	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50662	1.468750	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50663	1.484375	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50664	1.500000	SINGLE ANGLE	SA15	3.00	3.480	3.88	3.25	4.500
VFCC50700	0.500000	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50701	0.515625	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50702	0.531250	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50703	0.546875	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50704	0.562500	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50705	0.578125	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50706	0.593750	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50707	0.609375	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50708	0.625000	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50709	0.640625	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50710	0.656250	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC50711	0.671875	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50712	0.687500	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50713	0.703125	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50714	0.718750	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50715	0.734375	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50716	0.750000	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50717	0.765625	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50718	0.781250	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50719	0.796875	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50720	0.812500	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50721	0.828125	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50722	0.843750	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50723	0.859375	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50724	0.875000	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50725	0.890625	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50726	0.906250	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50727	0.921875	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50728	0.937500	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50729	0.953125	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50730	0.968750	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50731	0.984375	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC50732	1.000000	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50733	1.015625	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50734	1.031250	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50735	1.046875	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50736	1.062500	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50737	1.078125	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50738	1.093750	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50739	1.109375	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50740	1.125000	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50741	1.140625	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50742	1.156250	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50743	1.171875	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50744	1.187500	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50745	1.203125	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50746	1.218750	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50747	1.234375	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50748	1.250000	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50749	1.265625	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50750	1.281250	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50751	1.296875	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50752	1.312500	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC50753	1.328125	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50754	1.343750	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50755	1.359375	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50756	1.375000	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50757	1.390625	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50758	1.406250	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50759	1.421875	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50760	1.437500	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50761	1.453125	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50762	1.468750	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50763	1.484375	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50764	1.500000	SINGLE ANGLE	SA15	3.50	3.480	4.13	3.25	5.000
VFCC50800	0.500000	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50801	0.515625	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50802	0.531250	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50803	0.546875	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50804	0.562500	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50805	0.578125	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50806	0.593750	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50807	0.609375	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50808	0.625000	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC50809	0.640625	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50810	0.656250	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50811	0.671875	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50812	0.687500	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50813	0.703125	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50814	0.718750	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50815	0.734375	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50816	0.750000	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50817	0.765625	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50818	0.781250	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50819	0.796875	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50820	0.812500	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50821	0.828125	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50822	0.843750	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50823	0.859375	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50824	0.875000	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50825	0.890625	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50826	0.906250	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50827	0.921875	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50828	0.937500	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50829	0.953125	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC50830	0.968750	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50831	0.984375	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50832	1.000000	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50833	1.015625	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50834	1.031250	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50835	1.046875	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50836	1.062500	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50837	1.078125	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50838	1.093750	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50839	1.109375	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50840	1.125000	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50841	1.140625	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50842	1.156250	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50843	1.171875	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50844	1.187500	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50845	1.203125	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50846	1.218750	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50847	1.234375	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50848	1.250000	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50849	1.265625	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50850	1.281250	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC50851	1.296875	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50852	1.312500	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50853	1.328125	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50854	1.343750	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50855	1.359375	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50856	1.375000	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50857	1.390625	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50858	1.406250	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50859	1.421875	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50860	1.437500	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50861	1.453125	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50862	1.468750	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50863	1.484375	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50864	1.500000	SINGLE ANGLE	SA15	5.50	3.480	5.12	3.25	7.000
VFCC50900	0.500000	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50901	0.515625	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50902	0.531250	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50903	0.546875	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50904	0.562500	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50905	0.578125	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50906	0.593750	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC50907	0.609375	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50908	0.625000	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50909	0.640625	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50910	0.656250	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50911	0.671875	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50912	0.687500	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50913	0.703125	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50914	0.718750	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50915	0.734375	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50916	0.750000	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50917	0.765625	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50918	0.781250	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50919	0.796875	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50920	0.812500	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50921	0.828125	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50922	0.843750	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50923	0.859375	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50924	0.875000	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50925	0.890625	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50926	0.906250	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50927	0.921875	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC50928	0.937500	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50929	0.953125	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50930	0.968750	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50931	0.984375	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50932	1.000000	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50933	1.015625	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50934	1.031250	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50935	1.046875	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50936	1.062500	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50937	1.078125	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50938	1.093750	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50939	1.109375	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50940	1.125000	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50941	1.140625	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50942	1.156250	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50943	1.171875	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50944	1.187500	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50945	1.203125	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50946	1.218750	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50947	1.234375	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50948	1.250000	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC50949	1.265625	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50950	1.281250	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50951	1.296875	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50952	1.312500	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50953	1.328125	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50954	1.343750	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50955	1.359375	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50956	1.375000	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50957	1.390625	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50958	1.406250	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50959	1.421875	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50960	1.437500	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50961	1.453125	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50962	1.468750	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50963	1.484375	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC50964	1.500000	SINGLE ANGLE	SA15	7.50	3.480	6.12	3.25	9.000
VFCC51000	1.000000	SINGLE ANGLE	SA20	4.00	4.250	4.60	3.75	5.440
VFCC51001	1.250000	SINGLE ANGLE	SA20	4.00	4.250	4.60	3.75	5.440
VFCC51002	1.500000	SINGLE ANGLE	SA20	4.00	4.250	4.60	3.75	5.440
VFCC51003	1.750000	SINGLE ANGLE	SA20	4.00	4.250	4.60	3.75	5.440
VFCC51004	2.000000	SINGLE ANGLE	SA20	4.00	4.250	4.60	3.75	5.440

## CATERPILLAR V-FLANGE TOOLHOLDERS

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Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
VFCC51100	1.000000	SINGLE ANGLE	SA20	6.00	4.250	5.60	3.75	7.440
VFCC51101	1.250000	SINGLE ANGLE	SA20	6.00	4.250	5.60	3.75	7.440
VFCC51102	1.500000	SINGLE ANGLE	SA20	6.00	4.250	5.60	3.75	7.440
VFCC51103	1.750000	SINGLE ANGLE	SA20	6.00	4.250	5.60	3.75	7.440
VFCC51104	2.000000	SINGLE ANGLE	SA20	6.00	4.250	5.60	3.75	7.440
VFCC51200	1.000000	SINGLE ANGLE	SA20	8.00	4.250	5.60	3.75	7.440
VFCC51201	1.250000	SINGLE ANGLE	SA20	8.00	4.250	5.60	3.75	7.440
VFCC51202	1.500000	SINGLE ANGLE	SA20	8.00	4.250	5.60	3.75	7.440
VFCC51203	1.750000	SINGLE ANGLE	SA20	8.00	4.250	5.60	3.75	7.440
VFCC51204	2.000000	SINGLE ANGLE	SA20	8.00	4.250	5.60	3.75	7.440

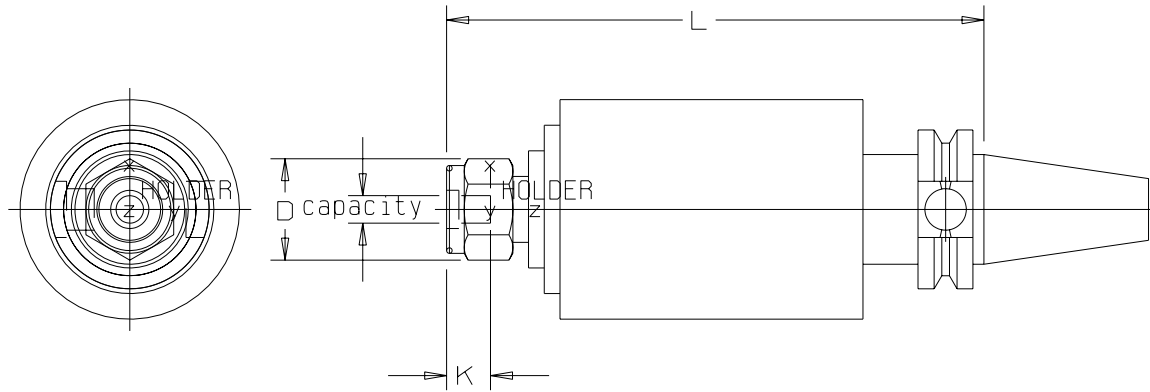
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## CATERPILLAR V-FLANGE TOOLHOLDERS

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### COLLET TAP CHUCKS

**30 TAPER, #0 THROUGH 7/8" HAND TAP, 1/16" THROUGH 1/2"  
PIPE TAP**



**Generic Part Name: VFTC30**

Instance Name	capacity	Collet Series	L	D	K	A	Tap Size
VFTC30000	0.141	J	6.12	1.380	0.50	2.50	NO.0 THRU 6
VFTC30001	0.168	J	6.12	1.380	0.50	2.50	NO.8
VFTC30002	0.194	J	6.12	1.380	0.50	2.50	NO.10
VFTC30003	0.220	J	6.12	1.380	0.50	2.50	NO.12
VFTC30004	0.255	J	6.12	1.380	0.50	2.50	NO.14, 1/4 IN.
VFTC30005	0.318	J	6.12	1.380	0.50	2.50	5/16 IN.
VFTC30006	0.381	J	6.12	1.380	0.50	2.50	3/8 IN.
VFTC30007	0.323	J	6.12	1.380	0.50	2.50	7/16 IN.
VFTC30008	0.367	J	6.12	1.380	0.50	2.50	1/2 IN.
VFTC30009	0.313	J	6.12	1.380	0.50	2.50	1/16 PIPE
VFTC30100	0.141	L	6.12	2.000	0.56	2.50	NO.0 THRU 6
VFTC30101	0.168	L	6.12	2.000	0.56	2.50	NO.8
VFTC30102	0.194	L	6.12	2.000	0.56	2.50	NO.10
VFTC30103	0.220	L	6.12	2.000	0.56	2.50	NO.12
VFTC30104	0.255	L	6.12	2.000	0.56	2.50	1/4 IN.
VFTC30105	0.318	L	6.12	2.000	0.56	2.50	5/16 IN.
VFTC30106	0.381	L	6.12	2.000	0.56	2.50	3/8 IN.
VFTC30107	0.323	L	6.12	2.000	0.56	2.50	7/16 IN.

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## CATERPILLAR V-FLANGE TOOLHOLDERS

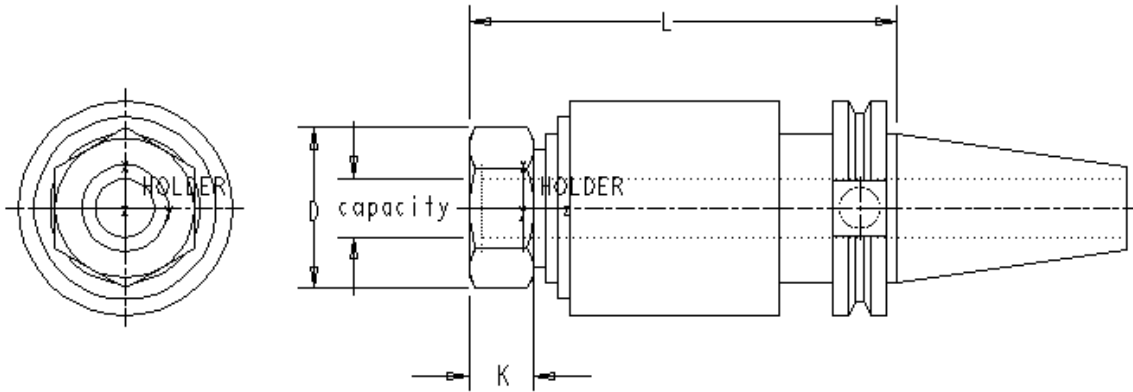
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Instance Name	capacity	Collet Series	L	D	K	A	Tap Size
VFTC30108	0.367	L	6.12	2.000	0.56	2.50	1/2 IN.
VFTC30109	0.429	L	6.12	2.000	0.56	2.50	7/16 IN.
VFTC30110	0.480	L	6.12	2.000	0.56	2.50	5/8 IN.
VFTC30111	0.590	L	6.12	2.000	0.56	2.50	3/4 IN.
VFTC30112	0.697	L	6.12	2.000	0.56	2.50	7/8 IN.
VFTC30113	0.313	L	6.12	2.000	0.56	2.50	1/16 PIPE
VFTC30114	0.438	L	6.12	2.000	0.56	2.50	1/8 PIPE
VFTC30115	0.563	L	6.12	2.000	0.56	2.50	1/4 PIPE
VFTC30116	0.700	L	6.12	2.000	0.56	2.50	3/8 PIPE
VFTC30117	0.688	L	6.12	2.000	0.56	2.50	1/2 PIPE

## CATERPILLAR V-FLANGE TOOLHOLDERS

### 40 TAPER, #0 THROUGH 1-5/8" HAND TAP, 1/8" THROUGH 1-1/4" PIPE TAP



### Generic Part Name: VFTC40

Instance Name	capacity	Collet Series	L	D	K	A	Tap Size
VFTC40000	0.141	D	3.94	0.750	THRU	2.50	NO.0 THRU 6
VFTC40001	0.168	D	3.94	0.750	THRU	2.50	NO.8
VFTC40002	0.194	D	3.94	0.750	THRU	2.50	NO.10
VFTC40003	0.220	D	3.94	0.750	THRU	2.50	NO.12
VFTC40004	0.255	D	3.94	0.750	THRU	2.50	NO.14, 1/4 IN.
VFTC40100	0.141	F	5.31	2.000	THRU	2.50	NO.0 THRU 6
VFTC40101	0.168	F	5.31	2.000	THRU	2.50	NO.8
VFTC40102	0.194	F	5.31	2.000	THRU	2.50	NO.10
VFTC40103	0.220	F	5.31	2.000	THRU	2.50	NO.12
VFTC40104	0.255	F	5.31	2.000	THRU	2.50	NO.14, 1/4 IN.
VFTC40105	0.318	F	5.31	2.000	THRU	2.50	5/16 IN.
VFTC40106	0.381	F	5.31	2.000	THRU	2.50	3/8 IN.
VFTC40107	0.323	F	5.31	2.000	THRU	2.50	7/16 IN.
VFTC40108	0.367	F	5.31	2.000	THRU	2.50	1/2 IN.
VFTC40109	0.429	F	5.31	2.000	THRU	2.50	9/16 IN.
VFTC40110	0.480	F	5.31	2.000	THRU	2.50	5/8 IN.
VFTC40111	0.590	F	5.31	2.000	THRU	2.50	3/4 IN.
VFTC40112	0.697	F	5.31	2.000	THRU	2.50	7/8 IN.
VFTC40113	0.313	F	5.31	2.000	THRU	2.50	1/16 PIPE
VFTC40114	0.438	F	5.31	2.000	THRU	2.50	1/8 PIPE

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	K	A	Tap Size
VFTC40115	0.563	F	5.31	2.000	THRU	2.50	1/4 PIPE
VFTC40116	0.700	F	5.31	2.000	THRU	2.50	3/8 PIPE
VFTC40117	0.688	F	5.31	2.000	THRU	2.50	1/2 PIPE
VFTC40204	0.255	L	4.88	2.000	0.56	2.50	1/4 IN.
VFTC40205	0.318	L	4.88	2.000	0.56	2.50	5/16 IN.
VFTC40206	0.381	L	4.88	2.000	0.56	2.50	3/8 IN.
VFTC40207	0.323	L	4.88	2.000	0.56	2.50	7/16 IN.
VFTC40208	0.367	L	4.88	2.000	0.56	2.50	1/2 IN.
VFTC40209	0.429	L	4.88	2.000	0.56	2.50	9/16 IN.
VFTC40210	0.480	L	4.88	2.000	0.56	2.50	5/8 IN.
VFTC40211	0.590	L	4.88	2.000	0.56	2.50	3/4 IN.
VFTC40212	0.697	L	4.88	2.000	0.56	2.50	7/8 IN.
VFTC40213	0.313	L	4.88	2.000	0.56	2.50	1/16 PIPE
VFTC40214	0.438	L	4.88	2.000	0.56	2.50	1/8 PIPE
VFTC40215	0.563	L	4.88	2.000	0.56	2.50	1/4 PIPE
VFTC40216	0.700	L	4.88	2.000	0.56	2.50	3/8 PIPE
VFTC40217	0.688	L	4.88	2.000	0.56	2.50	1/2 PIPE
VFTC40300	0.590	G	4.97	2.720	THRU	2.50	3/4 IN.
VFTC40301	0.697	G	4.97	2.720	THRU	2.50	7/8 IN.
VFTC40302	0.800	G	4.97	2.720	THRU	2.50	1 IN.
VFTC40303	0.896	G	4.97	2.720	THRU	2.50	1-1/8 IN.
VFTC40304	1.021	G	4.97	2.720	THRU	2.50	1-1/4 IN.
VFTC40305	1.108	G	4.97	2.720	THRU	2.50	1-3/8 IN.
VFTC40306	1.233	G	4.97	2.720	THRU	2.50	1-1/2 IN.
VFTC40307	0.700	G	4.97	2.720	THRU	2.50	3/8 PIPE
VFTC40308	0.688	G	4.97	2.720	THRU	2.50	1/2 PIPE
VFTC40309	0.813	G	4.97	2.720	THRU	2.50	5/8 PIPE
VFTC40310	0.906	G	4.97	2.720	THRU	2.50	3/4 PIPE
VFTC40311	1.094	G	4.97	2.720	THRU	2.50	7/8 PIPE
VFTC40312	1.125	G	4.97	2.720	THRU	2.50	1 PIPE
VFTC40313	1.313	G	4.97	2.720	THRU	2.50	1-1/4 PIPE
VFTC40400	0.590	N	6.50	3.000	0.75	2.50	3/4 IN.
VFTC40401	0.697	N	6.50	3.000	0.75	2.50	7/8 IN.
VFTC40402	0.800	N	6.50	3.000	0.75	2.50	1 IN.
VFTC40403	0.896	N	6.50	3.000	0.75	2.50	1-1/8 IN.
VFTC40404	1.021	N	6.50	3.000	0.75	2.50	1-1/4 IN.

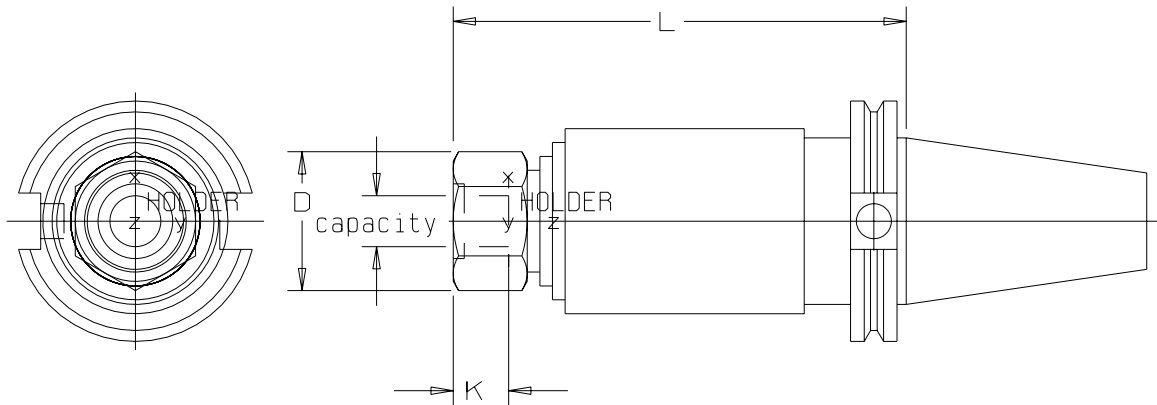
## CATERPILLAR V-FLANGE TOOLHOLDERS

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Instance Name	capacity	Collet Series	L	D	K	A	Tap Size
VFTC40405	1.108	N	6.50	3.000	0.75	2.50	1-3/8 IN.
VFTC40406	1.233	N	6.50	3.000	0.75	2.50	1-1/2 IN.
VFTC40407	1.305	N	6.50	3.000	0.75	2.50	1-5/8 IN.
VFTC40408	0.688	N	6.50	3.000	0.75	2.50	1/2 PIPE
VFTC40409	0.906	N	6.50	3.000	0.75	2.50	3/4 PIPE
VFTC40410	1.125	N	6.50	3.000	0.75	2.50	1 PIPE
VFTC40411	1.313	N	6.50	3.000	0.75	2.50	1-1/4 PIPE

## CATERPILLAR V-FLANGE TOOLHOLDERS

### 45 TAPER, 1/4" THROUGH 1-5/8" HAND TAP, 1/4" THROUGH 1-1/4" PIPE TAP



### Generic Part Name: VFTC45

Instance Name	capacity	Collet Series	L	D	K	A	Tap Size
VFTC45004	0.255	L	4.50	2.000	0.56	2.50	1/4 IN.
VFTC45005	0.318	L	4.50	2.000	0.56	2.50	5/16 IN.
VFTC45006	0.381	L	4.50	2.000	0.56	2.50	3/8 IN.
VFTC45007	0.323	L	4.50	2.000	0.56	2.50	7/16 IN.
VFTC45008	0.367	L	4.50	2.000	0.56	2.50	1/2 IN.
VFTC45009	0.429	L	4.50	2.000	0.56	2.50	9/16 IN.
VFTC45010	0.480	L	4.50	2.000	0.56	2.50	5/8 IN.
VFTC45011	0.590	L	4.50	2.000	0.56	2.50	3/4 IN.
VFTC45012	0.697	L	4.50	2.000	0.56	2.50	7/8 IN.
VFTC45013	0.313	L	4.50	2.000	0.56	2.50	1/16 PIPE
VFTC45014	0.438	L	4.50	2.000	0.56	2.50	1/8 PIPE
VFTC45015	0.563	L	4.50	2.000	0.56	2.50	1/4 PIPE
VFTC45016	0.700	L	4.50	2.000	0.56	2.50	3/8 PIPE
VFTC45017	0.688	L	4.50	2.000	0.56	2.50	1/2 PIPE
VFTC45100	0.590	N	6.12	3.000	0.75	2.50	3/4 IN.
VFTC45101	0.697	N	6.12	3.000	0.75	2.50	7/8 IN.
VFTC45102	0.800	N	6.12	3.000	0.75	2.50	1 IN.
VFTC45103	0.896	N	6.12	3.000	0.75	2.50	1-1/8 IN.
VFTC45104	1.021	N	6.12	3.000	0.75	2.50	1-1/4 IN.
VFTC45105	1.108	N	6.12	3.000	0.75	2.50	1-3/8 IN.

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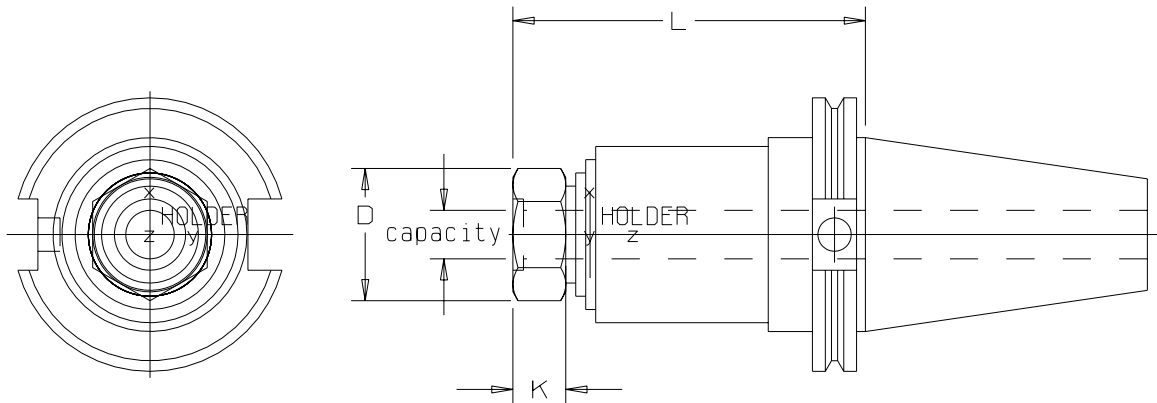
## CATERPILLAR V-FLANGE TOOLHOLDERS

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Instance Name	capacity	Collet Series	L	D	K	A	Tap Size
VFTC45106	1.233	N	6.12	3.000	0.75	2.50	1-1/2 IN.
VFTC45107	1.305	N	6.12	3.000	0.75	2.50	1-5/8 IN.
VFTC45108	0.688	N	6.12	3.000	0.75	2.50	1/2 PIPE
VFTC45109	0.906	N	6.12	3.000	0.75	2.50	3/4 PIPE
VFTC45110	1.125	N	6.12	3.000	0.75	2.50	1 PIPE
VFTC45111	1.313	N	6.12	3.000	0.75	2.50	1-1/4 PIPE

## CATERPILLAR V-FLANGE TOOLHOLDERS

**50 TAPER, #0 THROUGH 1-5/8" HAND TAP, 1/8" THROUGH 1-1/4" PIPE TAP**



**Generic Part Name: VFTC50**

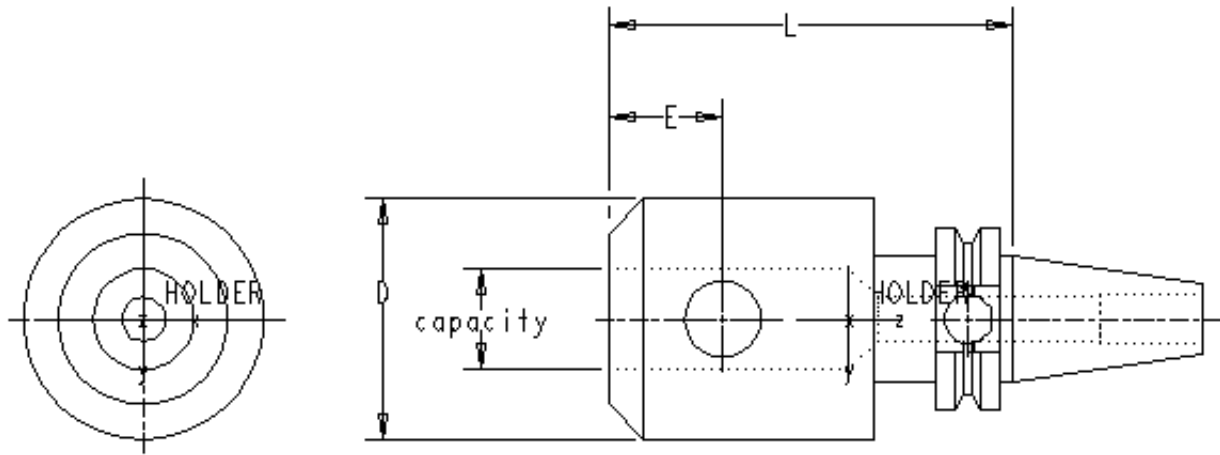
Instance Name	capacity	Collet Series	L	D	K	A	Tap Size
VFTC50000	0.141	F	5.00	1.630	THRU	2.50	NO.0 THRU 6
VFTC50001	0.168	F	5.00	1.630	THRU	2.50	NO.8
VFTC50002	0.194	F	5.00	1.630	THRU	2.50	NO.10
VFTC50003	0.220	F	5.00	1.630	THRU	2.50	NO.12
VFTC50004	0.255	F	5.00	1.630	THRU	2.50	NO.14, 1/4 IN.
VFTC50005	0.318	F	5.00	1.630	THRU	2.50	5/16 IN.
VFTC50006	0.381	F	5.00	1.630	THRU	2.50	3/8 IN.
VFTC50007	0.323	F	5.00	1.630	THRU	2.50	7/16 IN.
VFTC50008	0.367	F	5.00	1.630	THRU	2.50	1/2 IN.
VFTC50009	0.429	F	5.00	1.630	THRU	2.50	9/16 IN.
VFTC50010	0.480	F	5.00	1.630	THRU	2.50	5/8 IN.
VFTC50011	0.590	F	5.00	1.630	THRU	2.50	3/4 IN.
VFTC50012	0.697	F	5.00	1.630	THRU	2.50	7/8 IN.
VFTC50013	0.313	F	5.00	1.630	THRU	2.50	1/16 PIPE
VFTC50014	0.438	F	5.00	1.630	THRU	2.50	1/8 PIPE
VFTC50015	0.563	F	5.00	1.630	THRU	2.50	1/4 PIPE
VFTC50016	0.700	F	5.00	1.630	THRU	2.50	3/8 PIPE
VFTC50017	0.688	F	5.00	1.630	THRU	2.50	1/2 PIPE
VFTC50100	0.141	L	4.38	2.000	0.56	2.50	NO.0 THRU 6
VFTC50101	0.168	L	4.38	2.000	0.56	2.50	NO.8

## CATERPILLAR V-FLANGE TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	K	A	Tap Size
VFTC50102	0.194	L	4.38	2.000	0.56	2.50	NO.10
VFTC50103	0.220	L	4.38	2.000	0.56	2.50	NO.12
VFTC50104	0.255	L	4.38	2.000	0.56	2.50	1/4 IN.
VFTC50105	0.318	L	4.38	2.000	0.56	2.50	5/16 IN.
VFTC50106	0.381	L	4.38	2.000	0.56	2.50	3/8 IN.
VFTC50107	0.323	L	4.38	2.000	0.56	2.50	7/16 IN.
VFTC50108	0.367	L	4.38	2.000	0.56	2.50	1/2 IN.
VFTC50109	0.429	L	4.38	2.000	0.56	2.50	9/16 IN.
VFTC50110	0.480	L	4.38	2.000	0.56	2.50	5/8 IN.
VFTC50111	0.590	L	4.38	2.000	0.56	2.50	3/4 IN.
VFTC50112	0.697	L	4.38	2.000	0.56	2.50	7/8 IN.
VFTC50113	0.313	L	4.38	2.000	0.56	2.50	1/16 PIPE
VFTC50114	0.438	L	4.38	2.000	0.56	2.50	1/8 PIPE
VFTC50115	0.563	L	4.38	2.000	0.56	2.50	1/4 PIPE
VFTC50116	0.700	L	4.38	2.000	0.56	2.50	3/8 PIPE
VFTC50117	0.688	L	4.38	2.000	0.56	2.50	1/2 PIPE
VFTC50200	0.590	N	6.00	3.000	0.75	2.50	3/4 IN.
VFTC50201	0.697	N	6.00	3.000	0.75	2.50	7/8 IN.
VFTC50202	0.800	N	6.00	3.000	0.75	2.50	1 IN.
VFTC50203	0.896	N	6.00	3.000	0.75	2.50	1-1/8 IN.
VFTC50204	1.021	N	6.00	3.000	0.75	2.50	1-1/4 IN.
VFTC50205	1.108	N	6.00	3.000	0.75	2.50	1-3/8 IN.
VFTC50206	1.233	N	6.00	3.000	0.75	2.50	1-1/2 IN.
VFTC50207	1.305	N	6.00	3.000	0.75	2.50	1-5/8 IN.
VFTC50208	0.688	N	6.00	3.000	0.75	2.50	1/2 PIPE
VFTC50209	0.906	N	6.00	3.000	0.75	2.50	3/4 PIPE
VFTC50210	1.125	N	6.00	3.000	0.75	2.50	1 PIPE
VFTC50211	1.313	N	6.00	3.000	0.75	2.50	1-1/4 PIPE

## ENDMILL ADAPTERS

### 30 TAPER, 3/16" THROUGH 1" DIAMETER

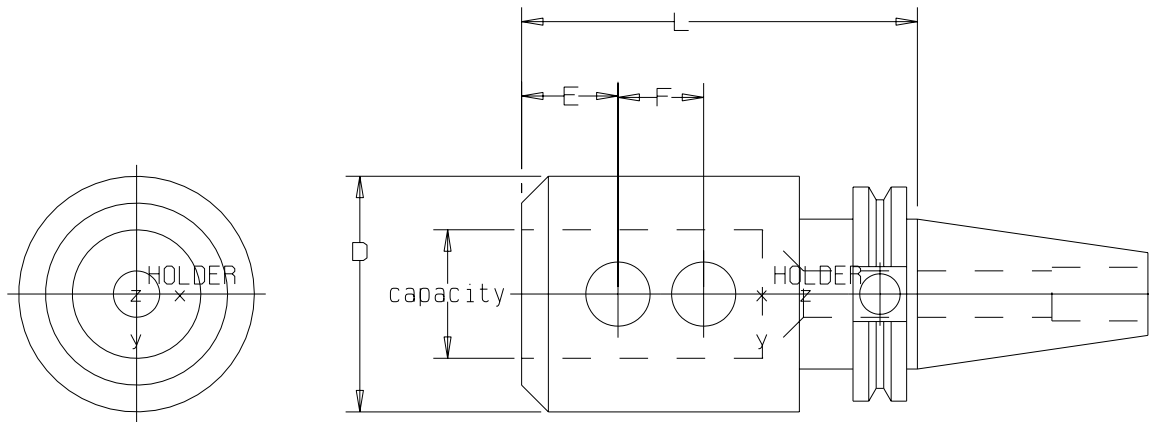


**Generic Part Name: VFEM30**

Instance Name	capacity	L	D	E
VFEM30001	0.1875	2.50	0.69	0.560
VFEM30002	0.2500	2.50	1.00	0.750
VFEM30003	0.3750	2.50	1.25	0.750
VFEM30004	0.5000	2.50	1.25	0.875
VFEM30005	0.6250	3.00	1.50	0.938
VFEM30006	0.7500	3.00	1.75	1.000
VFEM30007	0.8750	4.00	2.00	1.000
VFEM30008	1.0000	4.00	2.38	1.125

## CATERPILLAR V-FLANGE TOOLHOLDERS

### 40 TAPER, 3/16" THROUGH 1-1/2" DIAMETER



### Generic Part Name: VFEM40

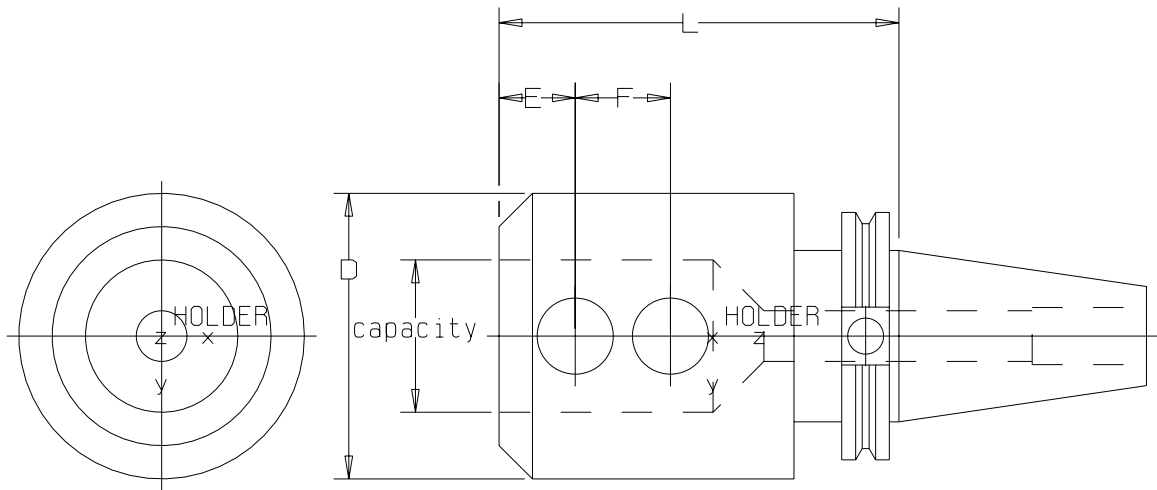
Instance Name	capacity	L	D	E	F
VFEM40001	0.1875	2.50	0.68	0.560	0.000
VFEM40002	0.2500	2.50	1.00	0.750	0.000
VFEM40003	0.3750	2.50	1.00	0.750	0.000
VFEM40004	0.5000	2.62	1.25	0.875	0.000
VFEM40005	0.6250	3.75	1.50	0.938	0.000
VFEM40006	0.7500	3.75	1.75	1.000	0.000
VFEM40007	0.8750	4.00	2.00	1.000	0.000
VFEM40008	1.0000	4.00	2.00	1.125	0.000
VFEM40009	1.2500	4.25	2.50	1.125	1.000
VFEM40010	1.5000	4.62	2.75	1.125	1.000

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## CATERPILLAR V-FLANGE TOOLHOLDERS

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### 45 TAPER, 3/16" THROUGH 2" DIAMETER



### Generic Part Name: VFEM45

Instance Name	capacity	L	D	E	F
VFEM45001	0.1875	2.31	0.69	0.563	0.000
VFEM45002	0.1875	4.31	1.00	0.563	0.000
VFEM45003	0.3750	2.50	1.00	0.750	0.000
VFEM45004	0.3750	4.50	1.00	0.750	0.000
VFEM45005	0.3750	6.50	1.00	0.750	0.000
VFEM45006	0.5000	2.62	1.25	0.875	0.000
VFEM45007	0.5000	4.62	1.38	0.875	0.000
VFEM45008	0.5000	6.62	1.38	0.875	0.000
VFEM45009	0.6250	3.75	1.50	0.938	0.000
VFEM45010	0.6250	5.75	1.50	0.938	0.000
VFEM45011	0.6250	7.75	1.50	0.938	0.000
VFEM45012	0.7500	3.75	1.75	1.000	0.000
VFEM45013	0.7500	5.75	1.75	1.000	0.000
VFEM45014	0.7500	7.75	1.75	1.000	0.000
VFEM45015	0.8750	3.75	2.00	1.000	0.000
VFEM45016	0.8750	5.75	2.00	1.000	0.000
VFEM45017	1.0000	4.00	2.00	1.125	0.000
VFEM45018	1.0000	6.00	2.00	1.125	0.000
VFEM45019	1.2500	4.00	2.50	1.125	0.938
VFEM45020	1.2500	6.00	2.50	1.125	0.938

# CATERPILLAR V-FLANGE TOOLHOLDERS

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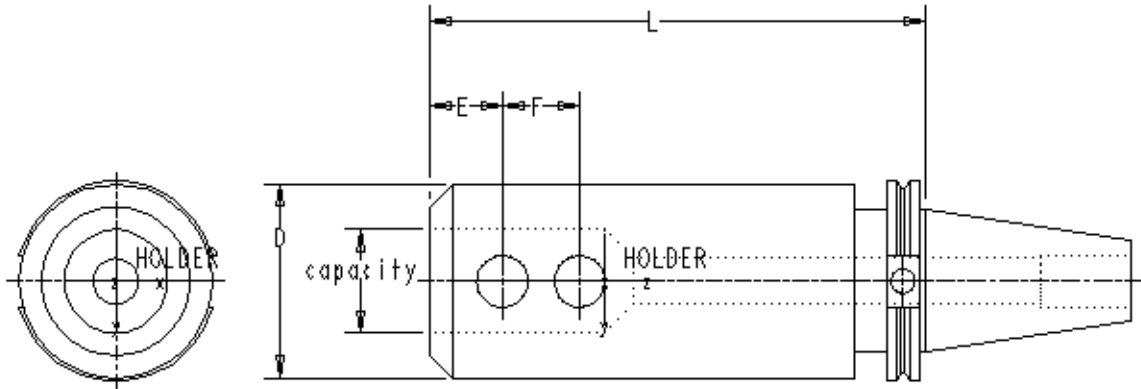
Instance Name	capacity	L	D	E	F
VFEM45021	1.5000	4.00	2.75	1.125	1.000
VFEM45022	2.0000	5.25	3.35	1.000	1.250

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## CATERPILLAR V-FLANGE TOOLHOLDERS

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### 50 TAPER, 3/8" THROUGH 2" DIAMETER



**Generic Part Name: VFEM50**

Instance Name	capacity	L	D	E	F
VFEM50001	0.375	2.50	1.00	0.750	0.000
VFEM50002	0.375	4.50	1.00	0.750	0.000
VFEM50003	0.375	6.50	1.00	0.750	0.000
VFEM50004	0.500	2.62	1.38	0.875	0.000
VFEM50005	0.500	4.62	1.38	0.875	0.000
VFEM50006	0.500	6.62	1.38	0.875	0.000
VFEM50007	0.625	3.75	1.62	0.938	0.000
VFEM50008	0.625	5.75	1.62	0.938	0.000
VFEM50009	0.625	7.75	1.62	0.938	0.000
VFEM50010	0.750	3.75	1.75	1.000	0.000
VFEM50011	0.750	5.75	1.75	1.000	0.000
VFEM50012	0.750	7.75	1.75	1.000	0.000
VFEM50013	0.875	3.75	2.00	1.000	0.000
VFEM50014	0.875	5.75	2.00	1.000	0.000
VFEM50015	0.875	7.75	2.00	1.000	0.000
VFEM50016	1.000	4.00	2.00	1.125	0.000
VFEM50017	1.000	6.00	2.00	1.125	0.000
VFEM50018	1.000	8.00	2.00	1.125	0.000
VFEM50019	1.250	4.00	2.50	1.125	0.938
VFEM50020	1.250	6.00	2.50	1.125	0.938
VFEM50021	1.250	8.00	2.50	1.125	0.938

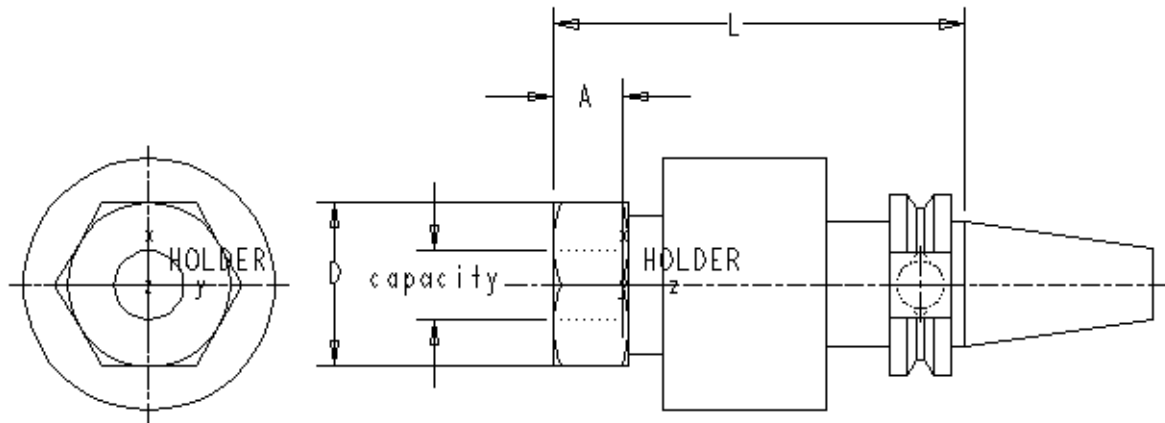
## CATERPILLAR V-FLANGE TOOLHOLDERS

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Instance Name	capacity	L	D	E	F
VFEM50022	1.500	4.00	2.75	1.484	1.000
VFEM50023	1.500	6.00	2.75	1.484	1.000
VFEM50024	1.500	8.00	2.75	1.484	1.000
VFEM50025	2.000	5.62	3.75	1.406	1.500
VFEM50026	2.000	7.62	3.75	1.406	1.500
VFEM50027	2.000	9.62	3.75	1.406	1.500

## FLOATING HOLDERS

**30 TAPER, 1/4" THROUGH 7/8" HAND TAP, 1/16" THROUGH 1/2" PIPE TAP, 15/64" THROUGH 27/32" REAMER SIZE**



**Generic Part Name: VFFH30**

Instance Name	capacity	Tool Type	Collet Series	L	A	D
VFFH30001	0.141	TAP	L	4.09	0.69	1.620
VFFH30002	0.168	TAP	L	4.09	0.69	1.620
VFFH30003	0.194	TAP	L	4.09	0.69	1.620
VFFH30004	0.220	TAP	L	4.09	0.69	1.620
VFFH30005	0.255	TAP	L	4.09	0.69	1.620
VFFH30006	0.318	TAP	L	4.09	0.69	1.620
VFFH30007	0.381	TAP	L	4.09	0.69	1.620
VFFH30008	0.323	TAP	L	4.09	0.69	1.620
VFFH30009	0.367	TAP	L	4.09	0.69	1.620
VFFH30010	0.429	TAP	L	4.09	0.69	1.620
VFFH30011	0.480	TAP	L	4.09	0.69	1.620
VFFH30012	0.590	TAP	L	4.09	0.69	1.620
VFFH30013	0.697	TAP	L	4.09	0.69	1.620
VFFH30014	0.313	TAP	L	4.09	0.69	1.620
VFFH30015	0.438	TAP	L	4.09	0.69	1.620
VFFH30016	0.563	TAP	L	4.09	0.69	1.620
VFFH30017	0.700	TAP	L	4.09	0.69	1.620

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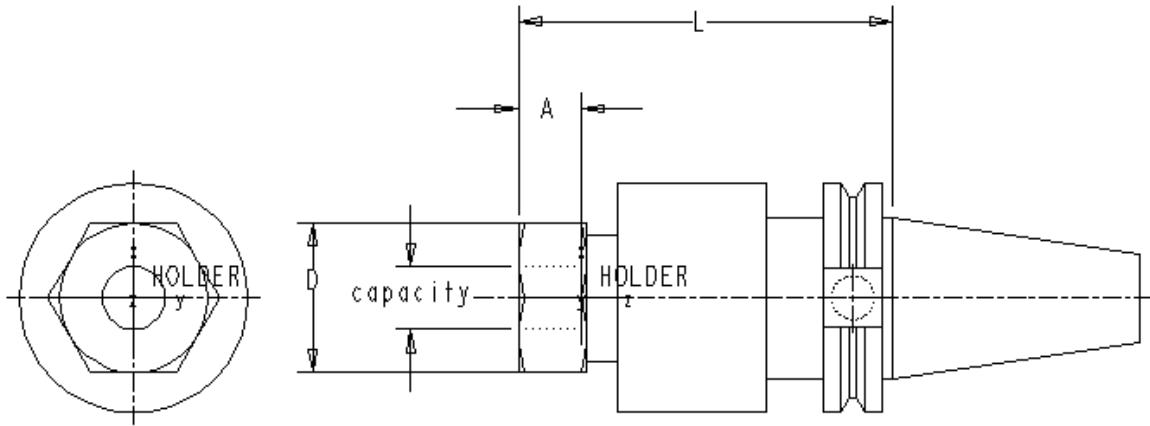
## CATERPILLAR V-FLANGE TOOLHOLDERS

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Instance Name	capacity	Tool Type	Collet Series	L	A	D
VFFH30018	0.688	TAP	L	4.09	0.69	1.620
VFFH30100	0.119	REAMER	L	4.09	1.40	1.620
VFFH30101	0.181	REAMER	L	4.09	1.40	1.620
VFFH30102	0.241	REAMER	L	4.09	1.40	1.620
VFFH30103	0.250	REAMER	L	4.09	1.40	1.620
VFFH30104	0.281	REAMER	L	4.09	1.40	1.620
VFFH30105	0.312	REAMER	L	4.09	1.40	1.620
VFFH30106	0.375	REAMER	L	4.09	1.40	1.620
VFFH30107	0.437	REAMER	L	4.09	1.40	1.620
VFFH30108	0.562	REAMER	L	4.09	1.40	1.620
VFFH30109	0.625	REAMER	L	4.09	1.40	1.620

## CATERPILLAR V-FLANGE TOOLHOLDERS

### 40 TAPER, 15/64" THROUGH 27/32" REAMER SIZE

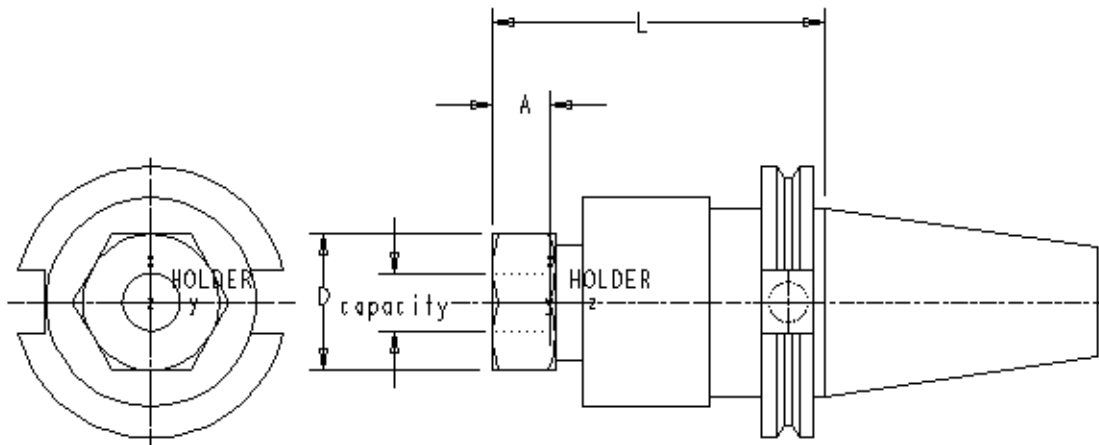


### Generic Part Name: VFFH40

Instance Name	capacity	Tool Type	Collet Series	L	A	D
VFFH40100	0.119	REAMER	L	4.09	1.40	1.625
VFFH40101	0.181	REAMER	L	4.09	1.40	1.625
VFFH40102	0.241	REAMER	L	4.09	1.40	1.625
VFFH40103	0.250	REAMER	L	4.09	1.40	1.625
VFFH40104	0.281	REAMER	L	4.09	1.40	1.625
VFFH40105	0.312	REAMER	L	4.09	1.40	1.625
VFFH40106	0.375	REAMER	L	4.09	1.40	1.625
VFFH40107	0.437	REAMER	L	4.09	1.40	1.625
VFFH40108	0.562	REAMER	L	4.09	1.40	1.625
VFFH40109	0.625	REAMER	L	4.09	1.40	1.625

## CATERPILLAR V-FLANGE TOOLHOLDERS

### 45 TAPER, 15/64" THROUGH 27/32" REAMER SIZE

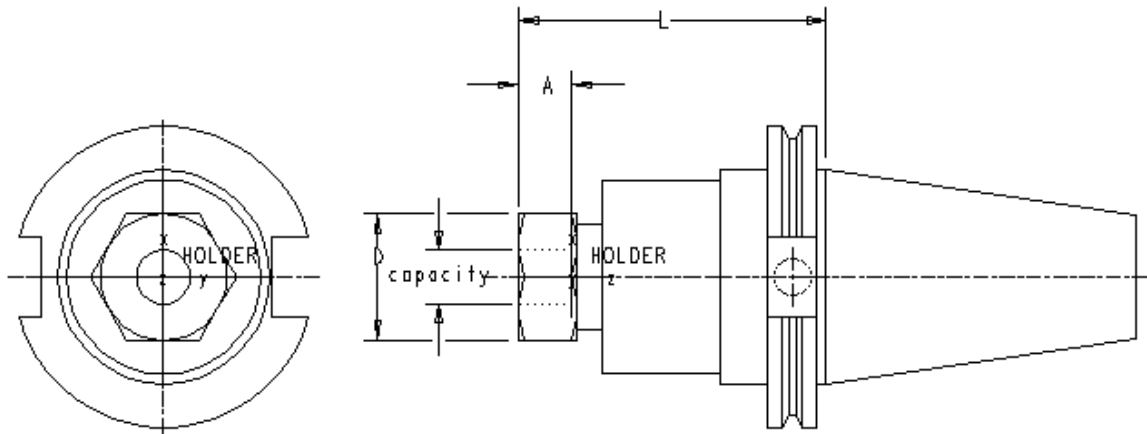


### Generic Part Name: VFFH45

Instance Name	capacity	Tool Type	Collet Series	L	A	D
VFFH45100	0.119	REAMER	L	3.97	1.40	1.625
VFFH45101	0.181	REAMER	L	3.97	1.40	1.625
VFFH45102	0.241	REAMER	L	3.97	1.40	1.625
VFFH45103	0.250	REAMER	L	3.97	1.40	1.625
VFFH45104	0.281	REAMER	L	3.97	1.40	1.625
VFFH45105	0.312	REAMER	L	3.97	1.40	1.625
VFFH45106	0.375	REAMER	L	3.97	1.40	1.625
VFFH45107	0.437	REAMER	L	3.97	1.40	1.625
VFFH45108	0.562	REAMER	L	3.97	1.40	1.625
VFFH45109	0.625	REAMER	L	3.97	1.40	1.625

## CATERPILLAR V-FLANGE TOOLHOLDERS

**50 TAPER, #0 THROUGH 7/8" HAND TAP, 1/16" THROUGH 1/8" PIPE TAP, 15/64" THROUGH 27/32" REAMER SIZE**



**Generic Part Name: VFFH50**

Instance Name	capacity	Tool Type	Collet Series	L	A	D
VFFH50001	0.141	TAP	L	3.97	0.69	1.625
VFFH50002	0.168	TAP	L	3.97	0.69	1.625
VFFH50003	0.194	TAP	L	3.97	0.69	1.625
VFFH50004	0.220	TAP	L	3.97	0.69	1.625
VFFH50005	0.255	TAP	L	3.97	0.69	1.625
VFFH50006	0.318	TAP	L	3.97	0.69	1.625
VFFH50007	0.381	TAP	L	3.97	0.69	1.625
VFFH50008	0.323	TAP	L	3.97	0.69	1.625
VFFH50009	0.367	TAP	L	3.97	0.69	1.625
VFFH50010	0.429	TAP	L	3.97	0.69	1.625
VFFH50011	0.480	TAP	L	3.97	0.69	1.625
VFFH50012	0.590	TAP	L	3.97	0.69	1.625
VFFH50013	0.697	TAP	L	3.97	0.69	1.625
VFFH50014	0.313	TAP	L	3.97	0.69	1.625
VFFH50015	0.438	TAP	L	3.97	0.69	1.625
VFFH50016	0.563	TAP	L	3.97	0.69	1.625
VFFH50017	0.700	TAP	L	3.97	0.69	1.625
VFFH50018	0.688	TAP	L	3.97	0.69	1.625
VFFH50100	0.119	REAMER	L	3.97	1.40	1.625

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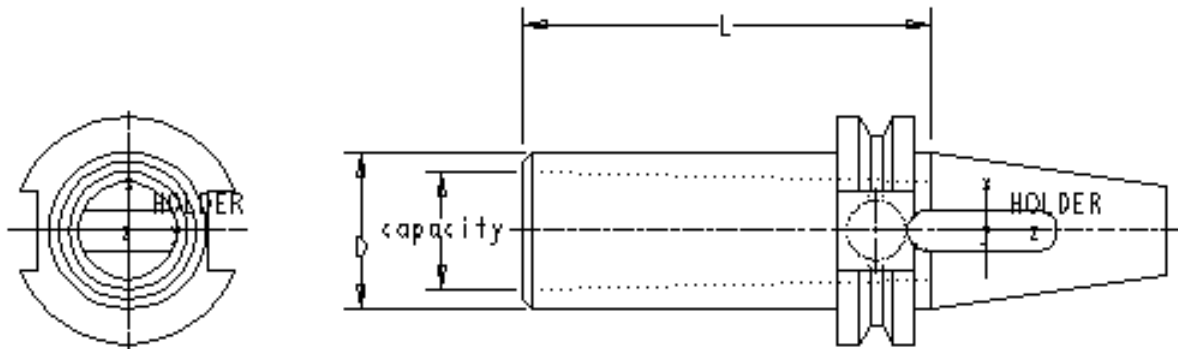
## CATERPILLAR V-FLANGE TOOLHOLDERS

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Instance Name	capacity	Tool Type	Collet Series	L	A	D
VFFH50101	0.181	REAMER	L	3.97	1.40	1.625
VFFH50102	0.241	REAMER	L	3.97	1.40	1.625
VFFH50103	0.250	REAMER	L	3.97	1.40	1.625
VFFH50104	0.281	REAMER	L	3.97	1.40	1.625
VFFH50105	0.312	REAMER	L	3.97	1.40	1.625
VFFH50106	0.375	REAMER	L	3.97	1.40	1.625
VFFH50107	0.437	REAMER	L	3.97	1.40	1.625
VFFH50108	0.562	REAMER	L	3.97	1.40	1.625
VFFH50109	0.625	REAMER	L	3.97	1.40	1.625

## MORSE TAPER SHANK ADAPTERS

### 30 TAPER, NUMBER 1 THROUGH 3



**Generic Part Name: VFMT30**

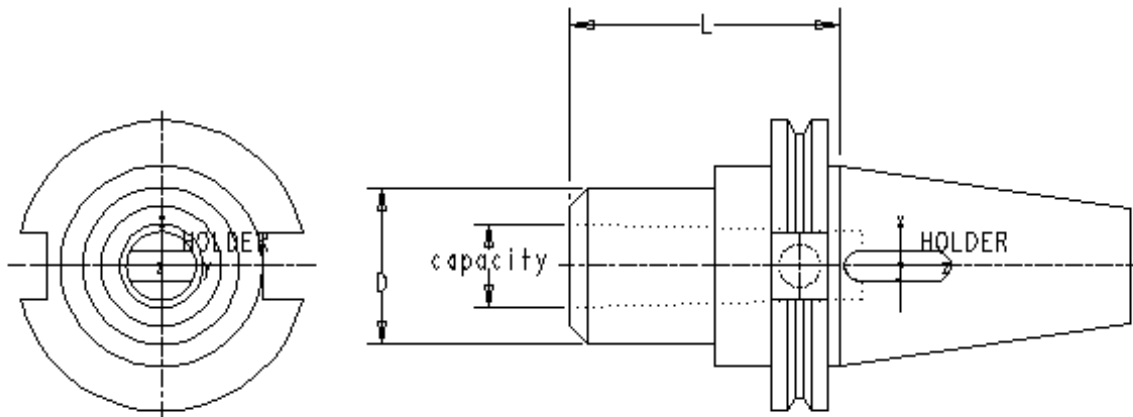
Instance Name	Morse Taper	L	D	capacity
VFMT30001	1	2.06	1.25	0.4750
VFMT30002	2	2.56	1.25	0.7000
VFMT30003	3	3.25	1.25	0.9380

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## CATERPILLAR V-FLANGE TOOLHOLDERS

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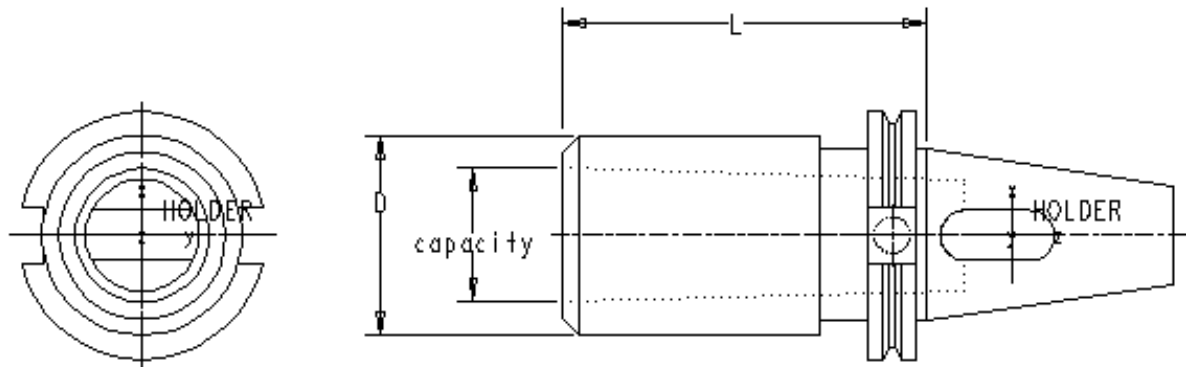
### 40 TAPER, NUMBER 1 THROUGH 3



### Generic Part Name: VFMT40

Instance Name	Morse Taper	L	D	capacity
VFMT40001	1	1.75	1.00	0.4750
VFMT40002	2	2.44	1.25	0.7000
VFMT40003	3	3.00	1.75	0.9380

## 45 TAPER, NUMBER 1 THROUGH 5



**Generic Part Name: VFMT45**

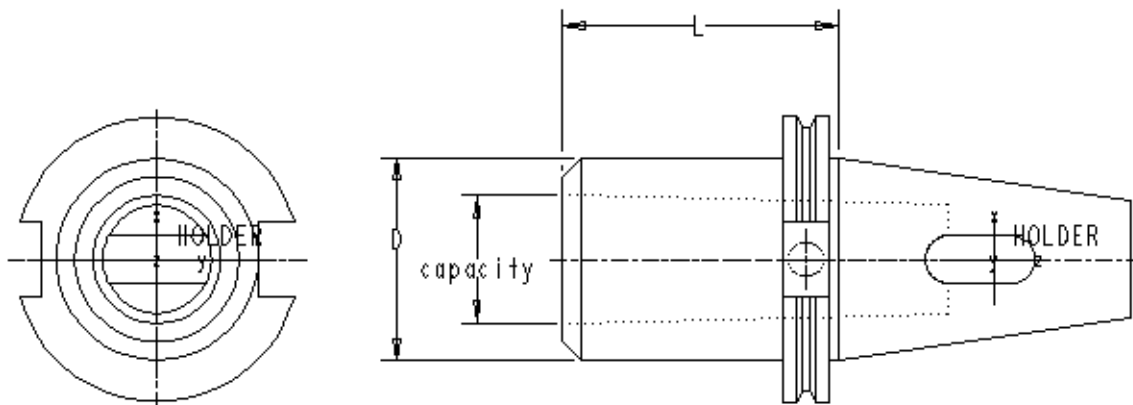
Instance Name	Morse Taper	L	D	capacity
VFMT45001	1	1.50	2.25	0.4750
VFMT45002	2	1.50	2.25	0.7000
VFMT45003	3	2.31	2.25	0.9380
VFMT45004	4	3.19	2.25	1.2310
VFMT45005	5	4.75	2.62	1.7480

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## CATERPILLAR V-FLANGE TOOLHOLDERS

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### 50 TAPER, NUMBER 2 THROUGH 5

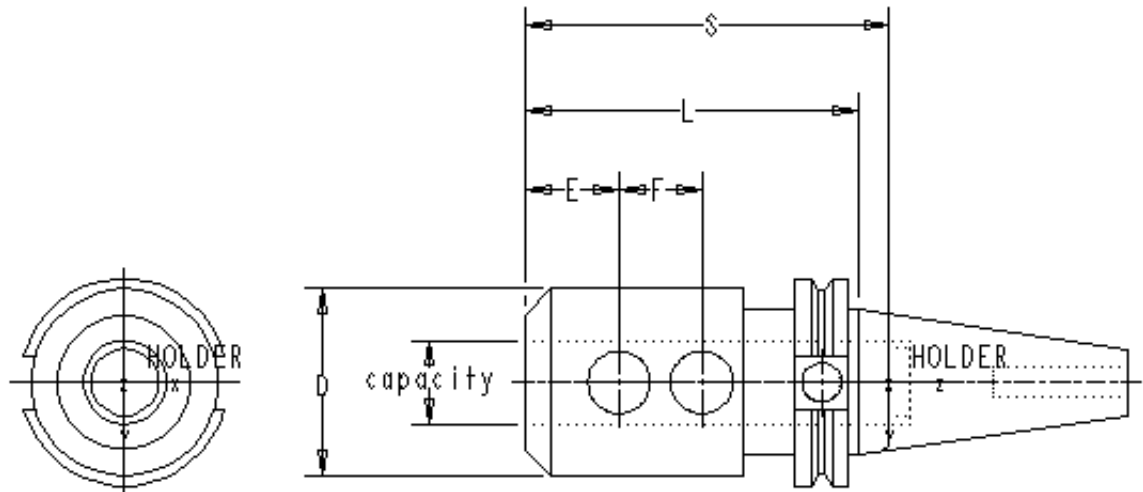


**Generic Part Name: VFMT50**

Instance Name	Morse Taper	L	D	capacity
VFMT50001	2	2.00	2.75	0.7000
VFMT50002	3	2.50	1.62	0.9380
VFMT50003	4	3.38	2.00	1.2310
VFMT50004	5	3.75	2.75	1.7480

## STRAIGHT SHANK ADAPTERS

### 40 TAPER, 1" TOOL SHANK CAPACITY

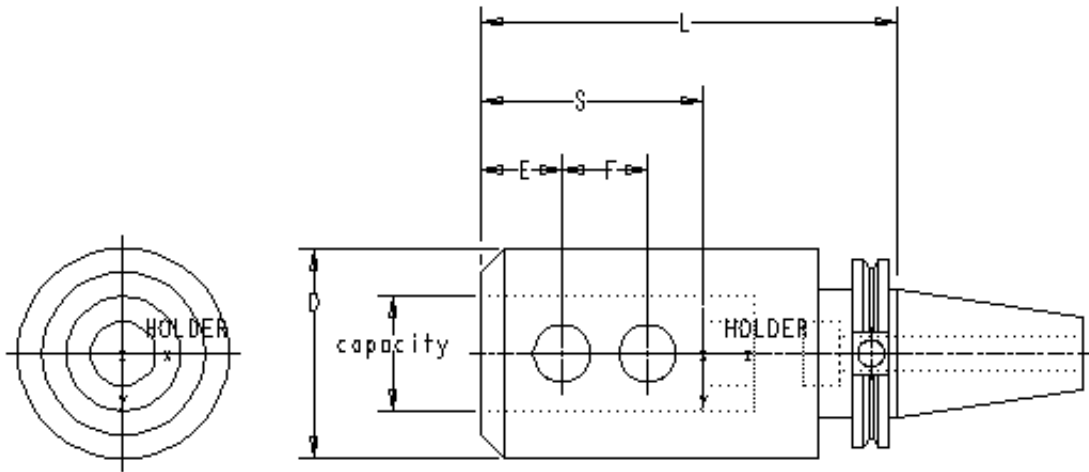


**Generic Part Name: VFSS40**

Instance Name	capacity	L	D	S MAX	E	F
VFSS40001	1.00	4.00	2.25	4.380	1.125	1.000

## CATERPILLAR V-FLANGE TOOLHOLDERS

### 45 TAPER, 1" THROUGH 2" TOOL SHANK CAPACITY

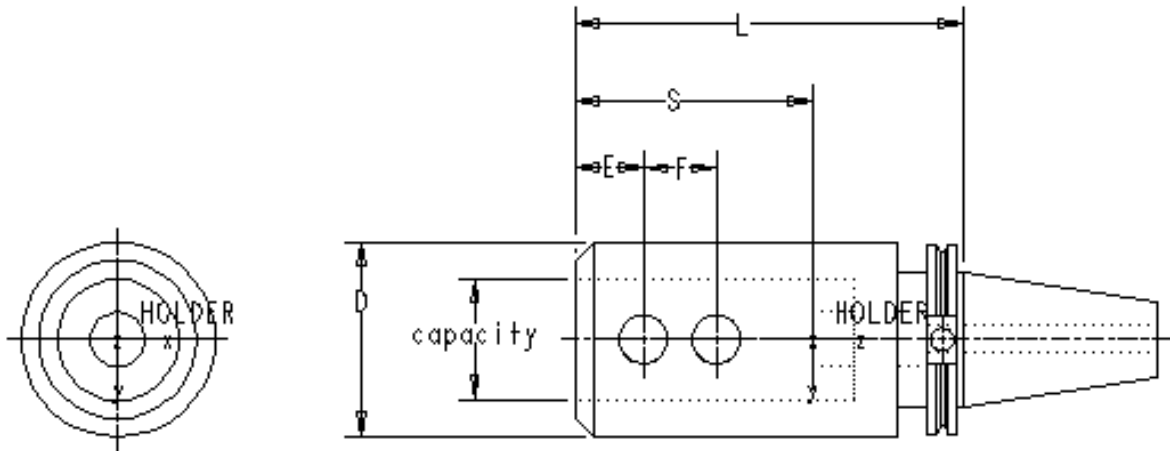


**Generic Part Name: VFSS45**

Instance Name	capacity	L	D	S	S MIN	S MAX	E	F
VFSS45001	1.00	6.00	2.25	4.07	3.750	4.380	1.125	1.000
VFSS45002	1.00	8.00	2.25	4.07	3.750	4.380	1.125	1.000
VFSS45003	1.25	4.00	2.50	3.88	3.250	4.500	1.125	1.000
VFSS45004	1.25	6.00	2.50	3.88	3.250	4.500	1.125	1.000
VFSS45005	1.25	8.00	2.50	3.88	3.250	4.500	1.125	1.000
VFSS45006	1.50	6.00	2.75	3.88	3.250	4.500	1.125	1.000
VFSS45007	1.50	8.00	2.75	3.88	3.250	4.500	1.406	1.500
VFSS45008	1.75	5.38	3.12	3.38	2.750	4.000	1.406	1.500
VFSS45009	2.00	7.25	3.68	3.88	3.250	4.500	1.406	1.500

## CATERPILLAR V-FLANGE TOOLHOLDERS

### 50 TAPER, 1" THROUGH 2-1/2" TOOL SHANK CAPACITY



**Generic Part Name: VFSS50**

Instance Name	capacity	L	D	S	S MIN	S MAX	E	F
VFSS50001	1.00	4.00	2.25	4.07	3.750	4.380	1.125	1.000
VFSS50002	1.00	6.00	2.25	4.08	3.750	4.380	1.125	1.000
VFSS50003	1.00	8.00	2.25	4.07	3.750	4.380	1.125	1.000
VFSS50004	1.25	4.00	2.50	3.88	3.250	4.500	1.125	1.000
VFSS50005	1.25	6.00	2.50	3.88	3.250	4.500	1.125	1.000
VFSS50006	1.25	8.00	2.50	3.88	3.250	4.500	1.125	1.000
VFSS50007	1.50	4.00	2.75	3.88	3.250	4.500	1.484	1.000
VFSS50008	1.50	6.00	2.75	3.88	3.250	4.500	1.484	1.000
VFSS50009	1.50	8.00	2.75	3.88	3.250	4.500	1.484	1.000
VFSS50010	1.75	4.00	3.12	3.38	2.750	4.000	1.484	1.000
VFSS50011	2.00	5.62	3.68	3.88	3.250	4.500	1.406	1.500
VFSS50012	2.00	7.62	3.68	3.88	3.250	4.500	1.406	1.500
VFSS50013	2.00	9.62	3.68	3.88	3.250	4.500	1.406	1.500
VFSS50014	2.25	6.50	4.00	4.38	3.750	5.000	1.406	1.500
VFSS50015	2.50	8.00	4.00	4.88	4.250	5.500	1.406	1.500

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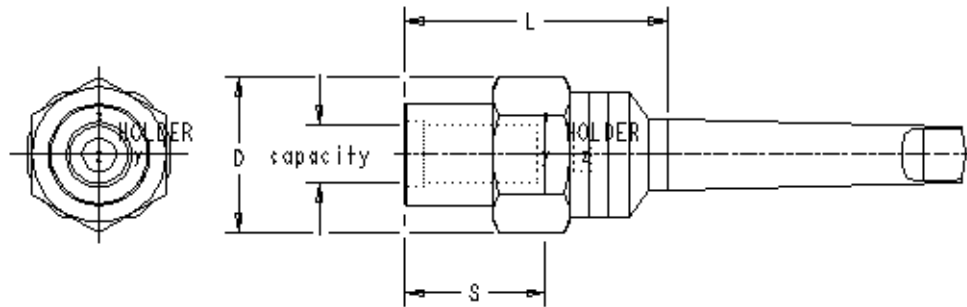
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# MORSE TAPER HOLDERS

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## COLLET CHUCKS

**NUMBER 1 THROUGH 4 MORSE TAPER SHANK, 1/64" THROUGH 1"**  
**TOOL SHANK CAPACITY**



**Generic Part Name: MTCC**

Instance Name	capacity	Morse Taper	Collet Series	L	D	S	S MIN	S MAX
MTCC1000	0.031250	1	DA30	1.56	0.870	1.71	1.250	2.180
MTCC1001	0.046875	1	DA30	1.56	0.870	1.71	1.250	2.180
MTCC1002	0.062500	1	DA30	1.56	0.870	1.71	1.250	2.180
MTCC1003	0.078125	1	DA30	1.56	0.870	1.71	1.250	2.180
MTCC1004	0.093750	1	DA30	1.56	0.870	1.71	1.250	2.180
MTCC1005	0.109375	1	DA30	1.56	0.870	1.71	1.250	2.180
MTCC1006	0.125000	1	DA30	1.56	0.870	1.71	1.250	2.180
MTCC1007	0.140625	1	DA30	1.56	0.870	1.71	1.250	2.180
MTCC1008	0.156250	1	DA30	1.56	0.870	1.71	1.250	2.180
MTCC1009	0.171875	1	DA30	1.56	0.870	1.71	1.250	2.180
MTCC1010	0.187500	1	DA30	1.56	0.870	1.71	1.250	2.180
MTCC1011	0.203125	1	DA30	1.56	0.870	1.71	1.250	2.180
MTCC1012	0.218750	1	DA30	1.56	0.870	1.71	1.250	2.180
MTCC1013	0.234375	1	DA30	1.56	0.870	1.71	1.250	2.180
MTCC1014	0.250000	1	DA30	1.56	0.870	1.71	1.250	2.180
MTCC1100	0.031250	1	DA30	1.50	0.560	2.06	1.310	2.810
MTCC1101	0.046875	1	DA30	1.50	0.560	2.06	1.310	2.810

## MORSE TAPER HOLDERS

Instance Name	capacity	Morse Taper	Collet Series	L	D	S	S MIN	S MAX
MTCC1102	0.062500	1	DA30	1.50	0.560	2.06	1.310	2.810
MTCC1103	0.078125	1	DA30	1.50	0.560	2.06	1.310	2.810
MTCC1104	0.093750	1	DA30	1.50	0.560	2.06	1.310	2.810
MTCC1105	0.109375	1	DA30	1.50	0.560	2.06	1.310	2.810
MTCC1106	0.125000	1	DA30	1.50	0.560	2.06	1.310	2.810
MTCC1107	0.140625	1	DA30	1.50	0.560	2.06	1.310	2.810
MTCC1108	0.156250	1	DA30	1.50	0.560	2.06	1.310	2.810
MTCC1109	0.171875	1	DA30	1.50	0.560	2.06	1.310	2.810
MTCC1110	0.187500	1	DA30	1.50	0.560	2.06	1.310	2.810
MTCC1111	0.203125	1	DA30	1.50	0.560	2.06	1.310	2.810
MTCC1112	0.218750	1	DA30	1.50	0.560	2.06	1.310	2.810
MTCC1113	0.234375	1	DA30	1.50	0.560	2.06	1.310	2.810
MTCC1114	0.250000	1	DA30	1.50	0.560	2.06	1.310	2.810
MTCC1200	0.031250	1	DA30	1.28	0.800	2.00	1.310	2.690
MTCC1201	0.046875	1	DA30	1.28	0.800	2.00	1.310	2.690
MTCC1202	0.062500	1	DA30	1.28	0.800	2.00	1.310	2.690
MTCC1203	0.078125	1	DA30	1.28	0.800	2.00	1.310	2.690
MTCC1204	0.093750	1	DA30	1.28	0.800	2.00	1.310	2.690
MTCC1205	0.109375	1	DA30	1.28	0.800	2.00	1.310	2.690
MTCC1206	0.125000	1	DA30	1.28	0.800	2.00	1.310	2.690
MTCC1207	0.140625	1	DA30	1.28	0.800	2.00	1.310	2.690
MTCC1208	0.156250	1	DA30	1.28	0.800	2.00	1.310	2.690
MTCC1209	0.171875	1	DA30	1.28	0.800	2.00	1.310	2.690
MTCC1210	0.187500	1	DA30	1.28	0.800	2.00	1.310	2.690
MTCC1211	0.203125	1	DA30	1.28	0.800	2.00	1.310	2.690
MTCC1212	0.218750	1	DA30	1.28	0.800	2.00	1.310	2.690
MTCC1213	0.234375	1	DA30	1.28	0.800	2.00	1.310	2.690
MTCC1214	0.250000	1	DA30	1.28	0.800	2.00	1.310	2.690
MTCC1300	0.125000	1	DA20	1.69	1.150	1.91	1.500	2.310
MTCC1301	0.140625	1	DA20	1.69	1.150	1.91	1.500	2.310
MTCC1302	0.156250	1	DA20	1.69	1.150	1.91	1.500	2.310
MTCC1303	0.171875	1	DA20	1.69	1.150	1.91	1.500	2.310
MTCC1304	0.187500	1	DA20	1.69	1.150	1.91	1.500	2.310
MTCC1305	0.203125	1	DA20	1.69	1.150	1.91	1.500	2.310
MTCC1306	0.218750	1	DA20	1.69	1.150	1.91	1.500	2.310
MTCC1307	0.234375	1	DA20	1.69	1.150	1.91	1.500	2.310

## MORSE TAPER HOLDERS

Instance Name	capacity	Morse Taper	Collet Series	L	D	S	S MIN	S MAX
MTCC1308	0.250000	1	DA20	1.69	1.150	1.91	1.500	2.310
MTCC1309	0.265625	1	DA20	1.69	1.150	1.91	1.500	2.310
MTCC1310	0.281250	1	DA20	1.69	1.150	1.91	1.500	2.310
MTCC1311	0.296875	1	DA20	1.69	1.150	1.91	1.500	2.310
MTCC1312	0.312500	1	DA20	1.69	1.150	1.91	1.500	2.310
MTCC1313	0.328125	1	DA20	1.69	1.150	1.91	1.500	2.310
MTCC1314	0.343750	1	DA20	1.69	1.150	1.91	1.500	2.310
MTCC1315	0.359375	1	DA20	1.69	1.150	1.91	1.500	2.310
MTCC1316	0.375000	1	DA20	1.69	1.150	1.91	1.500	2.310
MTCC2000	0.031250	2	DA30	1.56	0.870	2.25	1.250	3.250
MTCC2001	0.046875	2	DA30	1.56	0.870	2.25	1.250	3.250
MTCC2002	0.062500	2	DA30	1.56	0.870	2.25	1.250	3.250
MTCC2003	0.078125	2	DA30	1.56	0.870	2.25	1.250	3.250
MTCC2004	0.093750	2	DA30	1.56	0.870	2.25	1.250	3.250
MTCC2005	0.109375	2	DA30	1.56	0.870	2.25	1.250	3.250
MTCC2006	0.125000	2	DA30	1.56	0.870	2.25	1.250	3.250
MTCC2007	0.140625	2	DA30	1.56	0.870	2.25	1.250	3.250
MTCC2008	0.156250	2	DA30	1.56	0.870	2.25	1.250	3.250
MTCC2009	0.171875	2	DA30	1.56	0.870	2.25	1.250	3.250
MTCC2010	0.187500	2	DA30	1.56	0.870	2.25	1.250	3.250
MTCC2011	0.203125	2	DA30	1.56	0.870	2.25	1.250	3.250
MTCC2012	0.218750	2	DA30	1.56	0.870	2.25	1.250	3.250
MTCC2013	0.234375	2	DA30	1.56	0.870	2.25	1.250	3.250
MTCC2014	0.250000	2	DA30	1.56	0.870	2.25	1.250	3.250
MTCC2100	0.031250	2	DA30	1.28	0.870	2.25	1.250	3.250
MTCC2101	0.046875	2	DA30	1.28	0.870	2.25	1.250	3.250
MTCC2102	0.062500	2	DA30	1.28	0.870	2.25	1.250	3.250
MTCC2103	0.078125	2	DA30	1.28	0.870	2.25	1.250	3.250
MTCC2104	0.093750	2	DA30	1.28	0.870	2.25	1.250	3.250
MTCC2105	0.109375	2	DA30	1.28	0.870	2.25	1.250	3.250
MTCC2106	0.125000	2	DA30	1.28	0.870	2.25	1.250	3.250
MTCC2107	0.140625	2	DA30	1.28	0.870	2.25	1.250	3.250
MTCC2108	0.156250	2	DA30	1.28	0.870	2.25	1.250	3.250
MTCC2109	0.171875	2	DA30	1.28	0.870	2.25	1.250	3.250
MTCC2110	0.187500	2	DA30	1.28	0.870	2.25	1.250	3.250
MTCC2111	0.203125	2	DA30	1.28	0.870	2.25	1.250	3.250

## MORSE TAPER HOLDERS

Instance Name	capacity	Morse Taper	Collet Series	L	D	S	S MIN	S MAX
MTCC2112	0.218750	2	DA30	1.28	0.870	2.25	1.250	3.250
MTCC2113	0.234375	2	DA30	1.28	0.870	2.25	1.250	3.250
MTCC2114	0.250000	2	DA30	1.28	0.870	2.25	1.250	3.250
MTCC2200	0.125000	2	DA20	2.12	1.440	2.60	1.440	3.750
MTCC2201	0.140625	2	DA20	2.12	1.440	2.60	1.440	3.750
MTCC2202	0.156250	2	DA20	2.12	1.440	2.60	1.440	3.750
MTCC2203	0.171875	2	DA20	2.12	1.440	2.60	1.440	3.750
MTCC2204	0.187500	2	DA20	2.12	1.440	2.60	1.440	3.750
MTCC2205	0.203125	2	DA20	2.12	1.440	2.60	1.440	3.750
MTCC2206	0.218750	2	DA20	2.12	1.440	2.60	1.440	3.750
MTCC2207	0.234375	2	DA20	2.12	1.440	2.60	1.440	3.750
MTCC2208	0.250000	2	DA20	2.12	1.440	2.60	1.440	3.750
MTCC2209	0.265625	2	DA20	2.12	1.440	2.60	1.440	3.750
MTCC2210	0.281250	2	DA20	2.12	1.440	2.60	1.440	3.750
MTCC2211	0.296875	2	DA20	2.12	1.440	2.60	1.440	3.750
MTCC2212	0.312500	2	DA20	2.12	1.440	2.60	1.440	3.750
MTCC2213	0.328125	2	DA20	2.12	1.440	2.60	1.440	3.750
MTCC2214	0.343750	2	DA20	2.12	1.440	2.60	1.440	3.750
MTCC2215	0.359375	2	DA20	2.12	1.440	2.60	1.440	3.750
MTCC2216	0.375000	2	DA20	2.12	1.440	2.60	1.440	3.750
MTCC2300	0.250000	2	DA10	2.12	1.420	2.69	1.810	3.560
MTCC2301	0.265625	2	DA10	2.12	1.420	2.69	1.810	3.560
MTCC2302	0.281250	2	DA10	2.12	1.420	2.69	1.810	3.560
MTCC2303	0.296875	2	DA10	2.12	1.420	2.69	1.810	3.560
MTCC2304	0.312500	2	DA10	2.12	1.420	2.69	1.810	3.560
MTCC2305	0.328125	2	DA10	2.12	1.420	2.69	1.810	3.560
MTCC2306	0.343750	2	DA10	2.12	1.420	2.69	1.810	3.560
MTCC2307	0.359375	2	DA10	2.12	1.420	2.69	1.810	3.560
MTCC2308	0.375000	2	DA10	2.12	1.420	2.69	1.810	3.560
MTCC2309	0.390625	2	DA10	2.12	1.420	2.69	1.810	3.560
MTCC2310	0.406250	2	DA10	2.12	1.420	2.69	1.810	3.560
MTCC2311	0.421875	2	DA10	2.12	1.420	2.69	1.810	3.560
MTCC2312	0.437500	2	DA10	2.12	1.420	2.69	1.810	3.560
MTCC2313	0.453125	2	DA10	2.12	1.420	2.69	1.810	3.560
MTCC2314	0.468750	2	DA10	2.12	1.420	2.69	1.810	3.560
MTCC2315	0.484375	2	DA10	2.12	1.420	2.69	1.810	3.560

## MORSE TAPER HOLDERS

Instance Name	capacity	Morse Taper	Collet Series	L	D	S	S MIN	S MAX
MTCC2316	0.500000	2	DA10	2.12	1.420	2.69	1.810	3.560
MTCC2317	0.515625	2	DA10	2.12	1.420	2.69	1.810	3.560
MTCC2318	0.531250	2	DA10	2.12	1.420	2.69	1.810	3.560
MTCC2319	0.546875	2	DA10	2.12	1.420	2.69	1.810	3.560
MTCC2320	0.562500	2	DA10	2.12	1.420	2.69	1.810	3.560
MTCC2400	0.250000	2	DA18	2.50	2.010	3.03	2.060	4.000
MTCC2401	0.265625	2	DA18	2.50	2.010	3.03	2.060	4.000
MTCC2402	0.281250	2	DA18	2.50	2.010	3.03	2.060	4.000
MTCC2403	0.296875	2	DA18	2.50	2.010	3.03	2.060	4.000
MTCC2404	0.312500	2	DA18	2.50	2.010	3.03	2.060	4.000
MTCC2405	0.328125	2	DA18	2.50	2.010	3.03	2.060	4.000
MTCC2406	0.343750	2	DA18	2.50	2.010	3.03	2.060	4.000
MTCC2407	0.359375	2	DA18	2.50	2.010	3.03	2.060	4.000
MTCC2408	0.375000	2	DA18	2.50	2.010	3.03	2.060	4.000
MTCC2409	0.390625	2	DA18	2.50	2.010	3.03	2.060	4.000
MTCC2410	0.406250	2	DA18	2.50	2.010	3.03	2.060	4.000
MTCC2411	0.421875	2	DA18	2.50	2.010	3.03	2.060	4.000
MTCC2412	0.437500	2	DA18	2.50	2.010	3.03	2.060	4.000
MTCC2413	0.453125	2	DA18	2.50	2.010	3.03	2.060	4.000
MTCC2414	0.468750	2	DA18	2.50	2.010	3.03	2.060	4.000
MTCC2415	0.484375	2	DA18	2.50	2.010	3.03	2.060	4.000
MTCC2416	0.500000	2	DA18	2.50	2.010	3.03	2.060	4.000
MTCC2417	0.515625	2	DA18	2.50	2.010	3.03	2.060	4.000
MTCC2418	0.531250	2	DA18	2.50	2.010	3.03	2.060	4.000
MTCC2419	0.546875	2	DA18	2.50	2.010	3.03	2.060	4.000
MTCC2420	0.562500	2	DA18	2.50	2.010	3.03	2.060	4.000
MTCC2421	0.578125	2	DA18	2.50	2.010	3.03	2.060	4.000
MTCC2422	0.593750	2	DA18	2.50	2.010	3.03	2.060	4.000
MTCC2423	0.609375	2	DA18	2.50	2.010	3.03	2.060	4.000
MTCC2424	0.625000	2	DA18	2.50	2.010	3.03	2.060	4.000
MTCC2425	0.640625	2	DA18	2.50	2.010	3.03	2.060	4.000
MTCC2426	0.656250	2	DA18	2.50	2.010	3.03	2.060	4.000
MTCC2427	0.671875	2	DA18	2.50	2.010	3.03	2.060	4.000
MTCC2428	0.687500	2	DA18	2.50	2.010	3.03	2.060	4.000
MTCC2429	0.703125	2	DA18	2.50	2.010	3.03	2.060	4.000
MTCC2430	0.718750	2	DA18	2.50	2.010	3.03	2.060	4.000

## MORSE TAPER HOLDERS

Instance Name	capacity	Morse Taper	Collet Series	L	D	S	S MIN	S MAX
MTCC2431	0.734375	2	DA18	2.50	2.010	3.03	2.060	4.000
MTCC2432	0.750000	2	DA18	2.50	2.010	3.03	2.060	4.000
MTCC2500	0.250000	2	DA18	2.38	1.720	3.03	2.120	3.940
MTCC2501	0.265625	2	DA18	2.38	1.720	3.03	2.120	3.940
MTCC2502	0.281250	2	DA18	2.38	1.720	3.03	2.120	3.940
MTCC2503	0.296875	2	DA18	2.38	1.720	3.03	2.120	3.940
MTCC2504	0.312500	2	DA18	2.38	1.720	3.03	2.120	3.940
MTCC2505	0.328125	2	DA18	2.38	1.720	3.03	2.120	3.940
MTCC2506	0.343750	2	DA18	2.38	1.720	3.03	2.120	3.940
MTCC2507	0.359375	2	DA18	2.38	1.720	3.03	2.120	3.940
MTCC2508	0.375000	2	DA18	2.38	1.720	3.03	2.120	3.940
MTCC2509	0.390625	2	DA18	2.38	1.720	3.03	2.120	3.940
MTCC2510	0.406250	2	DA18	2.38	1.720	3.03	2.120	3.940
MTCC2511	0.421875	2	DA18	2.38	1.720	3.03	2.120	3.940
MTCC2512	0.437500	2	DA18	2.38	1.720	3.03	2.120	3.940
MTCC2513	0.453125	2	DA18	2.38	1.720	3.03	2.120	3.940
MTCC2514	0.468750	2	DA18	2.38	1.720	3.03	2.120	3.940
MTCC2515	0.484375	2	DA18	2.38	1.720	3.03	2.120	3.940
MTCC2516	0.500000	2	DA18	2.38	1.720	3.03	2.120	3.940
MTCC2517	0.515625	2	DA18	2.38	1.720	3.03	2.120	3.940
MTCC2518	0.531250	2	DA18	2.38	1.720	3.03	2.120	3.940
MTCC2519	0.546875	2	DA18	2.38	1.720	3.03	2.120	3.940
MTCC2520	0.562500	2	DA18	2.38	1.720	3.03	2.120	3.940
MTCC2521	0.578125	2	DA18	2.38	1.720	3.03	2.120	3.940
MTCC2522	0.593750	2	DA18	2.38	1.720	3.03	2.120	3.940
MTCC2523	0.609375	2	DA18	2.38	1.720	3.03	2.120	3.940
MTCC2524	0.625000	2	DA18	2.38	1.720	3.03	2.120	3.940
MTCC2525	0.640625	2	DA18	2.38	1.720	3.03	2.120	3.940
MTCC2526	0.656250	2	DA18	2.38	1.720	3.03	2.120	3.940
MTCC2527	0.671875	2	DA18	2.38	1.720	3.03	2.120	3.940
MTCC2528	0.687500	2	DA18	2.38	1.720	3.03	2.120	3.940
MTCC2529	0.703125	2	DA18	2.38	1.720	3.03	2.120	3.940
MTCC2530	0.718750	2	DA18	2.38	1.720	3.03	2.120	3.940
MTCC2531	0.734375	2	DA18	2.38	1.720	3.03	2.120	3.940
MTCC2532	0.750000	2	DA18	2.38	1.720	3.03	2.120	3.940
MTCC3000	0.250000	3	DA18	2.38	1.720	3.19	2.060	4.310

## MORSE TAPER HOLDERS

Instance Name	capacity	Morse Taper	Collet Series	L	D	S	S MIN	S MAX
MTCC3001	0.265625	3	DA18	2.38	1.720	3.19	2.060	4.310
MTCC3002	0.281250	3	DA18	2.38	1.720	3.19	2.060	4.310
MTCC3003	0.296875	3	DA18	2.38	1.720	3.19	2.060	4.310
MTCC3004	0.312500	3	DA18	2.38	1.720	3.19	2.060	4.310
MTCC3005	0.328125	3	DA18	2.38	1.720	3.19	2.060	4.310
MTCC3006	0.343750	3	DA18	2.38	1.720	3.19	2.060	4.310
MTCC3007	0.359375	3	DA18	2.38	1.720	3.19	2.060	4.310
MTCC3008	0.375000	3	DA18	2.38	1.720	3.19	2.060	4.310
MTCC3009	0.390625	3	DA18	2.38	1.720	3.19	2.060	4.310
MTCC3010	0.406250	3	DA18	2.38	1.720	3.19	2.060	4.310
MTCC3011	0.421875	3	DA18	2.38	1.720	3.19	2.060	4.310
MTCC3012	0.437500	3	DA18	2.38	1.720	3.19	2.060	4.310
MTCC3013	0.453125	3	DA18	2.38	1.720	3.19	2.060	4.310
MTCC3014	0.468750	3	DA18	2.38	1.720	3.19	2.060	4.310
MTCC3015	0.484375	3	DA18	2.38	1.720	3.19	2.060	4.310
MTCC3016	0.500000	3	DA18	2.38	1.720	3.19	2.060	4.310
MTCC3017	0.515625	3	DA18	2.38	1.720	3.19	2.060	4.310
MTCC3018	0.531250	3	DA18	2.38	1.720	3.19	2.060	4.310
MTCC3019	0.546875	3	DA18	2.38	1.720	3.19	2.060	4.310
MTCC3020	0.562500	3	DA18	2.38	1.720	3.19	2.060	4.310
MTCC3021	0.578125	3	DA18	2.38	1.720	3.19	2.060	4.310
MTCC3022	0.593750	3	DA18	2.38	1.720	3.19	2.060	4.310
MTCC3023	0.609375	3	DA18	2.38	1.720	3.19	2.060	4.310
MTCC3024	0.625000	3	DA18	2.38	1.720	3.19	2.060	4.310
MTCC3025	0.640625	3	DA18	2.38	1.720	3.19	2.060	4.310
MTCC3026	0.656250	3	DA18	2.38	1.720	3.19	2.060	4.310
MTCC3027	0.671875	3	DA18	2.38	1.720	3.19	2.060	4.310
MTCC3028	0.687500	3	DA18	2.38	1.720	3.19	2.060	4.310
MTCC3029	0.703125	3	DA18	2.38	1.720	3.19	2.060	4.310
MTCC3030	0.718750	3	DA18	2.38	1.720	3.19	2.060	4.310
MTCC3031	0.734375	3	DA18	2.38	1.720	3.19	2.060	4.310
MTCC3032	0.750000	3	DA18	2.38	1.720	3.19	2.060	4.310
MTCC4000	0.250000	4	DA18	1.75	1.720	3.19	1.870	4.500
MTCC4001	0.265625	4	DA18	1.75	1.720	3.19	1.870	4.500
MTCC4002	0.281250	4	DA18	1.75	1.720	3.19	1.870	4.500
MTCC4003	0.296875	4	DA18	1.75	1.720	3.19	1.870	4.500

## MORSE TAPER HOLDERS

Instance Name	capacity	Morse Taper	Collet Series	L	D	S	S MIN	S MAX
MTCC4004	0.312500	4	DA18	1.75	1.720	3.19	1.870	4.500
MTCC4005	0.328125	4	DA18	1.75	1.720	3.19	1.870	4.500
MTCC4006	0.343750	4	DA18	1.75	1.720	3.19	1.870	4.500
MTCC4007	0.359375	4	DA18	1.75	1.720	3.19	1.870	4.500
MTCC4008	0.375000	4	DA18	1.75	1.720	3.19	1.870	4.500
MTCC4009	0.390625	4	DA18	1.75	1.720	3.19	1.870	4.500
MTCC4010	0.406250	4	DA18	1.75	1.720	3.19	1.870	4.500
MTCC4011	0.421875	4	DA18	1.75	1.720	3.19	1.870	4.500
MTCC4012	0.437500	4	DA18	1.75	1.720	3.19	1.870	4.500
MTCC4013	0.453125	4	DA18	1.75	1.720	3.19	1.870	4.500
MTCC4014	0.468750	4	DA18	1.75	1.720	3.19	1.870	4.500
MTCC4015	0.484375	4	DA18	1.75	1.720	3.19	1.870	4.500
MTCC4016	0.500000	4	DA18	1.75	1.720	3.19	1.870	4.500
MTCC4017	0.515625	4	DA18	1.75	1.720	3.19	1.870	4.500
MTCC4018	0.531250	4	DA18	1.75	1.720	3.19	1.870	4.500
MTCC4019	0.546875	4	DA18	1.75	1.720	3.19	1.870	4.500
MTCC4020	0.562500	4	DA18	1.75	1.720	3.19	1.870	4.500
MTCC4021	0.578125	4	DA18	1.75	1.720	3.19	1.870	4.500
MTCC4022	0.593750	4	DA18	1.75	1.720	3.19	1.870	4.500
MTCC4023	0.609375	4	DA18	1.75	1.720	3.19	1.870	4.500
MTCC4024	0.625000	4	DA18	1.75	1.720	3.19	1.870	4.500
MTCC4025	0.640625	4	DA18	1.75	1.720	3.19	1.870	4.500
MTCC4026	0.656250	4	DA18	1.75	1.720	3.19	1.870	4.500
MTCC4027	0.671875	4	DA18	1.75	1.720	3.19	1.870	4.500
MTCC4028	0.687500	4	DA18	1.75	1.720	3.19	1.870	4.500
MTCC4029	0.703125	4	DA18	1.75	1.720	3.19	1.870	4.500
MTCC4030	0.718750	4	DA18	1.75	1.720	3.19	1.870	4.500
MTCC4031	0.734375	4	DA18	1.75	1.720	3.19	1.870	4.500
MTCC4032	0.750000	4	DA18	1.75	1.720	3.19	1.870	4.500
MTCC4100	0.375000	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4101	0.390625	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4102	0.406250	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4103	0.421875	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4104	0.437500	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4105	0.453125	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4106	0.468750	4	SA10	3.44	2.440	4.52	2.910	6.130

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## MORSE TAPER HOLDERS

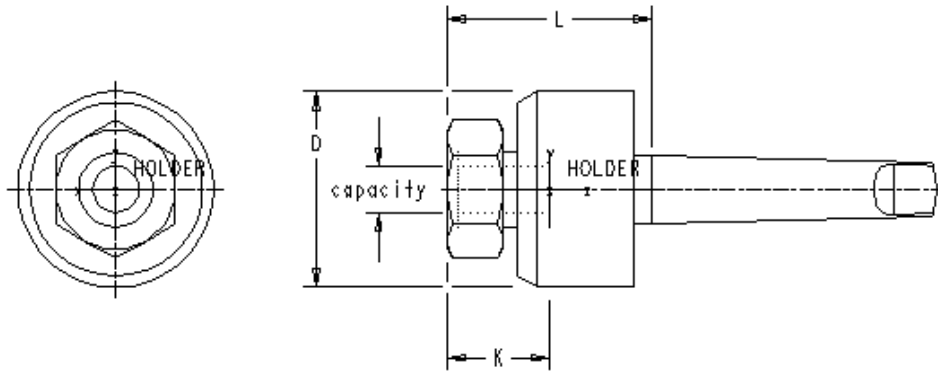
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Instance Name	capacity	Morse Taper	Collet Series	L	D	S	S MIN	S MAX
MTCC4107	0.484375	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4108	0.500000	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4109	0.515625	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4110	0.531250	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4111	0.546875	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4112	0.562500	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4113	0.578125	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4114	0.593750	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4115	0.609375	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4116	0.625000	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4117	0.640625	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4118	0.656250	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4119	0.671875	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4120	0.687500	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4121	0.703125	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4122	0.718750	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4123	0.734375	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4124	0.750000	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4125	0.765625	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4126	0.781250	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4127	0.796875	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4128	0.812500	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4129	0.828125	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4130	0.843750	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4131	0.859375	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4132	0.875000	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4133	0.890625	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4134	0.906250	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4135	0.921875	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4136	0.937500	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4137	0.953125	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4138	0.968750	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4139	0.984375	4	SA10	3.44	2.440	4.52	2.910	6.130
MTCC4140	1.000000	4	SA10	3.44	2.440	4.52	2.910	6.130

## FLOATING HOLDER COLLET CHUCKS

NUMBER 3 MORSE TAPER SHANK, 3/8" THROUGH 27/32" REAMER SIZE



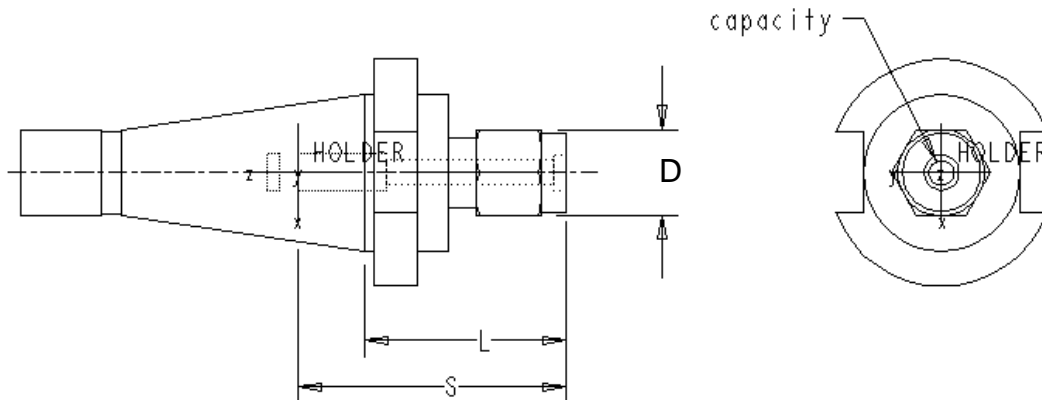
Generic Part Name: MTFH

Instance Name	capacity	Morse Taper	Collet Series	L	D	K
MTFH3001	0.119	3	L	2.78	2.66	1.40
MTFH3002	0.181	3	L	2.78	2.66	1.40
MTFH3003	0.241	3	L	2.78	2.66	1.40
MTFH3004	0.250	3	L	2.78	2.66	1.40
MTFH3005	0.281	3	L	2.78	2.66	1.40
MTFH3006	0.312	3	L	2.78	2.66	1.40
MTFH3007	0.375	3	L	2.78	2.66	1.40
MTFH3008	0.437	3	L	2.78	2.66	1.40
MTFH3009	0.562	3	L	2.78	2.66	1.40
MTFH3010	0.625	3	L	2.78	2.66	1.40

# QUICK CHANGE/NMTB TOOLHOLDERS

## COLLET CHUCKS

### 30 TAPER, 1/64" THROUGH 1" TOOL SHANK CAPACITY



**Generic Part Name: QCCC30**

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
QCCC30100	0.015625	DOUBLE ANGLE	DA30	1.88	0.870	1.85	1.44	2.250
QCCC30101	0.031250	DOUBLE ANGLE	DA30	1.88	0.870	1.85	1.44	2.250
QCCC30102	0.046875	DOUBLE ANGLE	DA30	1.88	0.870	1.85	1.44	2.250
QCCC30103	0.062500	DOUBLE ANGLE	DA30	1.88	0.870	1.85	1.44	2.250
QCCC30104	0.078125	DOUBLE ANGLE	DA30	1.88	0.870	1.85	1.44	2.250
QCCC30105	0.093750	DOUBLE ANGLE	DA30	1.88	0.870	1.85	1.44	2.250
QCCC30106	0.109375	DOUBLE ANGLE	DA30	1.88	0.870	1.85	1.44	2.250
QCCC30107	0.125000	DOUBLE ANGLE	DA30	1.88	0.870	1.85	1.44	2.250
QCCC30108	0.140625	DOUBLE ANGLE	DA30	1.88	0.870	1.85	1.44	2.250
QCCC30109	0.156250	DOUBLE ANGLE	DA30	1.88	0.870	1.85	1.44	2.250
QCCC30110	0.171875	DOUBLE ANGLE	DA30	1.88	0.870	1.85	1.44	2.250
QCCC30111	0.187500	DOUBLE ANGLE	DA30	1.88	0.870	1.85	1.44	2.250
QCCC30112	0.203125	DOUBLE ANGLE	DA30	1.88	0.870	1.85	1.44	2.250
QCCC30113	0.218750	DOUBLE ANGLE	DA30	1.88	0.870	1.85	1.44	2.250
QCCC30114	0.234375	DOUBLE ANGLE	DA30	1.88	0.870	1.85	1.44	2.250
QCCC30115	0.250000	DOUBLE ANGLE	DA30	1.88	0.870	1.85	1.44	2.250
QCCC30200	0.015625	DOUBLE ANGLE	DA30	1.62	0.940	2.13	1.50	2.750

## QUICK CHANGE/NMTB TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
QCCC30201	0.031250	DOUBLE ANGLE	DA30	1.62	0.940	2.13	1.50	2.750
QCCC30202	0.046875	DOUBLE ANGLE	DA30	1.62	0.940	2.13	1.50	2.750
QCCC30203	0.062500	DOUBLE ANGLE	DA30	1.62	0.940	2.13	1.50	2.750
QCCC30204	0.078125	DOUBLE ANGLE	DA30	1.62	0.940	2.13	1.50	2.750
QCCC30205	0.093750	DOUBLE ANGLE	DA30	1.62	0.940	2.13	1.50	2.750
QCCC30206	0.109375	DOUBLE ANGLE	DA30	1.62	0.940	2.13	1.50	2.750
QCCC30207	0.125000	DOUBLE ANGLE	DA30	1.62	0.940	2.13	1.50	2.750
QCCC30208	0.140625	DOUBLE ANGLE	DA30	1.62	0.940	2.13	1.50	2.750
QCCC30209	0.156250	DOUBLE ANGLE	DA30	1.62	0.940	2.13	1.50	2.750
QCCC30210	0.171875	DOUBLE ANGLE	DA30	1.62	0.940	2.13	1.50	2.750
QCCC30211	0.187500	DOUBLE ANGLE	DA30	1.62	0.940	2.13	1.50	2.750
QCCC30212	0.203125	DOUBLE ANGLE	DA30	1.62	0.940	2.13	1.50	2.750
QCCC30213	0.218750	DOUBLE ANGLE	DA30	1.62	0.940	2.13	1.50	2.750
QCCC30214	0.234375	DOUBLE ANGLE	DA30	1.62	0.940	2.13	1.50	2.750
QCCC30215	0.250000	DOUBLE ANGLE	DA30	1.62	0.940	2.13	1.50	2.750
QCCC30300	0.015625	DOUBLE ANGLE	DA20	1.81	1.150	2.25	1.62	2.870
QCCC30301	0.031250	DOUBLE ANGLE	DA20	1.81	1.150	2.25	1.62	2.870
QCCC30302	0.046875	DOUBLE ANGLE	DA20	1.81	1.150	2.25	1.62	2.870
QCCC30303	0.062500	DOUBLE ANGLE	DA20	1.81	1.150	2.25	1.62	2.870
QCCC30304	0.078125	DOUBLE ANGLE	DA20	1.81	1.150	2.25	1.62	2.870
QCCC30305	0.093750	DOUBLE ANGLE	DA20	1.81	1.150	2.25	1.62	2.870
QCCC30306	0.109375	DOUBLE ANGLE	DA20	1.81	1.150	2.25	1.62	2.870
QCCC30307	0.125000	DOUBLE ANGLE	DA20	1.81	1.150	2.25	1.62	2.870
QCCC30308	0.140625	DOUBLE ANGLE	DA20	1.81	1.150	2.25	1.62	2.870
QCCC30309	0.156250	DOUBLE ANGLE	DA20	1.81	1.150	2.25	1.62	2.870
QCCC30310	0.171875	DOUBLE ANGLE	DA20	1.81	1.150	2.25	1.62	2.870
QCCC30311	0.187500	DOUBLE ANGLE	DA20	1.81	1.150	2.25	1.62	2.870
QCCC30312	0.203125	DOUBLE ANGLE	DA20	1.81	1.150	2.25	1.62	2.870
QCCC30313	0.218750	DOUBLE ANGLE	DA20	1.81	1.150	2.25	1.62	2.870
QCCC30314	0.234375	DOUBLE ANGLE	DA20	1.81	1.150	2.25	1.62	2.870
QCCC30315	0.250000	DOUBLE ANGLE	DA20	1.81	1.150	2.25	1.62	2.870
QCCC30316	0.265625	DOUBLE ANGLE	DA20	1.81	1.150	2.25	1.62	2.870
QCCC30317	0.281250	DOUBLE ANGLE	DA20	1.81	1.150	2.25	1.62	2.870
QCCC30318	0.296875	DOUBLE ANGLE	DA20	1.81	1.150	2.25	1.62	2.870
QCCC30319	0.312500	DOUBLE ANGLE	DA20	1.81	1.150	2.25	1.62	2.870
QCCC30320	0.328125	DOUBLE ANGLE	DA20	1.81	1.150	2.25	1.62	2.870

## QUICK CHANGE/NMTB TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
QCCC30321	0.343750	DOUBLE ANGLE	DA20	1.81	1.150	2.25	1.62	2.870
QCCC30322	0.359375	DOUBLE ANGLE	DA20	1.81	1.150	2.25	1.62	2.870
QCCC30323	0.375000	DOUBLE ANGLE	DA20	1.81	1.150	2.25	1.62	2.870
QCCC30400	0.015625	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750
QCCC30401	0.031250	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750
QCCC30402	0.046875	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750
QCCC30403	0.062500	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750
QCCC30404	0.078125	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750
QCCC30405	0.093750	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750
QCCC30406	0.109375	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750
QCCC30407	0.125000	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750
QCCC30408	0.140625	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750
QCCC30409	0.156250	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750
QCCC30410	0.171875	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750
QCCC30411	0.187500	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750
QCCC30412	0.203125	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750
QCCC30413	0.218750	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750
QCCC30414	0.234375	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750
QCCC30415	0.250000	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750
QCCC30416	0.265625	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750
QCCC30417	0.281250	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750
QCCC30418	0.296875	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750
QCCC30419	0.312500	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750
QCCC30420	0.328125	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750
QCCC30421	0.343750	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750
QCCC30422	0.359375	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750
QCCC30423	0.375000	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750
QCCC30424	0.390625	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750
QCCC30425	0.406250	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750
QCCC30426	0.421875	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750
QCCC30427	0.437500	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750
QCCC30428	0.453125	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750
QCCC30429	0.468750	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750
QCCC30430	0.484375	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750
QCCC30431	0.500000	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750
QCCC30432	0.515625	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750

## QUICK CHANGE/NMTB TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
QCCC30433	0.531250	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750
QCCC30434	0.546875	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750
QCCC30435	0.562500	DOUBLE ANGLE	DA10	2.00	1.440	2.28	1.81	2.750
QCCC30500	0.031250	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30501	0.046875	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30502	0.062500	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30503	0.078125	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30504	0.093750	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30505	0.109375	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30506	0.125000	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30507	0.140625	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30508	0.156250	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30509	0.171875	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30510	0.187500	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30511	0.203125	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30512	0.218750	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30513	0.234375	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30514	0.250000	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30515	0.265625	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30516	0.281250	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30517	0.296875	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30518	0.312500	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30519	0.328125	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30520	0.343750	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30521	0.359375	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30522	0.375000	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30523	0.390625	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30524	0.406250	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30525	0.421875	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30526	0.437500	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30527	0.453125	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30528	0.468750	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30529	0.484375	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30530	0.500000	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30531	0.515625	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30532	0.531250	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220

## QUICK CHANGE/NMTB TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
QCCC30533	0.546875	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30534	0.562500	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30535	0.578125	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30536	0.593750	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30537	0.609375	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30538	0.625000	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30539	0.640625	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30540	0.656250	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30541	0.671875	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30542	0.687500	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30543	0.703125	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30544	0.718750	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30545	0.734375	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30546	0.750000	DOUBLE ANGLE	DA18	2.06	1.730	2.08	1.94	2.220
QCCC30600	0.062500	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30601	0.078125	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30602	0.093750	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30603	0.109375	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30604	0.125000	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30605	0.140625	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30606	0.156250	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30607	0.171875	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30608	0.187500	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30609	0.203125	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30610	0.218750	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30611	0.234375	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30612	0.250000	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30613	0.265625	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30614	0.281250	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30615	0.296875	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30616	0.312500	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30617	0.328125	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30618	0.343750	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30619	0.359375	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30620	0.375000	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30621	0.390625	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680

## QUICK CHANGE/NMTB TOOLHOLDERS

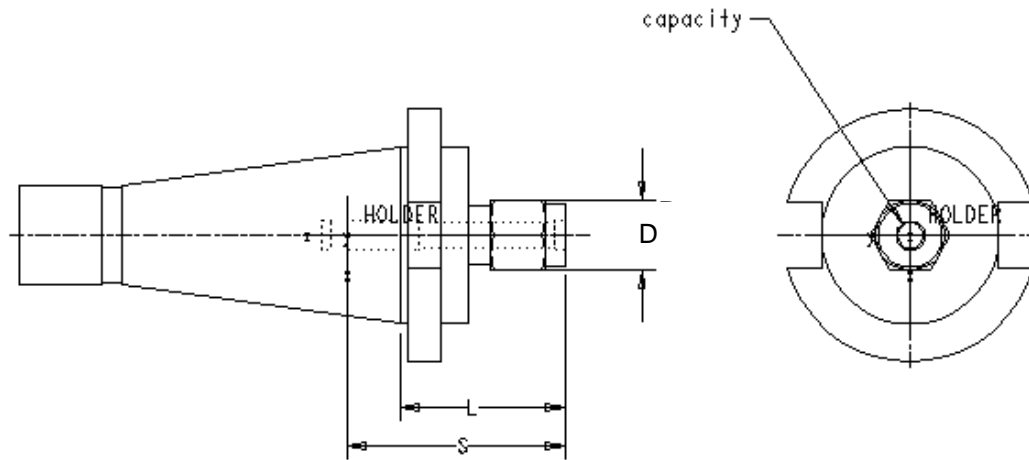
Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
QCCC30622	0.406250	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30623	0.421875	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30624	0.437500	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30625	0.453125	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30626	0.468750	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30627	0.484375	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30628	0.500000	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30629	0.515625	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30630	0.531250	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30631	0.546875	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30632	0.562500	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30633	0.578125	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30634	0.593750	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30635	0.609375	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30636	0.625000	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30637	0.640625	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30638	0.656250	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30639	0.671875	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30640	0.687500	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30641	0.703125	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30642	0.718750	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30643	0.734375	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30644	0.750000	SINGLE ANGLE	SA75	2.53	2.090	2.50	2.31	2.680
QCCC30700	0.375000	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30701	0.390625	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30702	0.406250	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30703	0.421875	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30704	0.437500	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30705	0.453125	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30706	0.468750	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30707	0.484375	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30708	0.500000	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30709	0.515625	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30710	0.531250	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30711	0.546875	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30712	0.562500	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950

## QUICK CHANGE/NMTB TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
QCCC30713	0.578125	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30714	0.593750	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30715	0.609375	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30716	0.625000	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30717	0.640625	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30718	0.656250	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30719	0.671875	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30720	0.687500	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30721	0.703125	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30722	0.718750	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30723	0.734375	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30724	0.750000	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30725	0.765625	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30726	0.781250	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30727	0.796875	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30728	0.812500	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30729	0.828125	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30730	0.843750	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30731	0.859375	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30732	0.875000	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30733	0.890625	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30734	0.906250	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30735	0.921875	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30736	0.937500	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30737	0.953125	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30738	0.968750	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30739	0.984375	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950
QCCC30740	1.000000	SINGLE ANGLE	SA10	3.94	2.440	3.44	2.94	3.950

## QUICK CHANGE/NMTB TOOLHOLDERS

### 40 TAPER, 1/64" THROUGH 1-1/2 TOOL SHANK CAPACITY



**Generic Part Name: QCCC40**

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
QCCC40100	0.015625	DOUBLE ANGLE	DA30	1.62	0.940	2.09	1.50	2.690
QCCC40101	0.031250	DOUBLE ANGLE	DA30	1.62	0.940	2.09	1.50	2.690
QCCC40102	0.046875	DOUBLE ANGLE	DA30	1.62	0.940	2.09	1.50	2.690
QCCC40103	0.062500	DOUBLE ANGLE	DA30	1.62	0.940	2.09	1.50	2.690
QCCC40104	0.078125	DOUBLE ANGLE	DA30	1.62	0.940	2.09	1.50	2.690
QCCC40105	0.093750	DOUBLE ANGLE	DA30	1.62	0.940	2.09	1.50	2.690
QCCC40106	0.109375	DOUBLE ANGLE	DA30	1.62	0.940	2.09	1.50	2.690
QCCC40107	0.125000	DOUBLE ANGLE	DA30	1.62	0.940	2.09	1.50	2.690
QCCC40108	0.140625	DOUBLE ANGLE	DA30	1.62	0.940	2.09	1.50	2.690
QCCC40109	0.156250	DOUBLE ANGLE	DA30	1.62	0.940	2.09	1.50	2.690
QCCC40110	0.171875	DOUBLE ANGLE	DA30	1.62	0.940	2.09	1.50	2.690
QCCC40111	0.187500	DOUBLE ANGLE	DA30	1.62	0.940	2.09	1.50	2.690
QCCC40112	0.203125	DOUBLE ANGLE	DA30	1.62	0.940	2.09	1.50	2.690
QCCC40113	0.218750	DOUBLE ANGLE	DA30	1.62	0.940	2.09	1.50	2.690
QCCC40114	0.234375	DOUBLE ANGLE	DA30	1.62	0.940	2.09	1.50	2.690
QCCC40115	0.250000	DOUBLE ANGLE	DA30	1.62	0.940	2.09	1.50	2.690
QCCC40200	0.125000	DOUBLE ANGLE	DA20	1.79	1.150	2.60	1.62	3.570
QCCC40201	0.140625	DOUBLE ANGLE	DA20	1.79	1.150	2.60	1.62	3.570
QCCC40202	0.156250	DOUBLE ANGLE	DA20	1.79	1.150	2.60	1.62	3.570
QCCC40203	0.171875	DOUBLE ANGLE	DA20	1.79	1.150	2.60	1.62	3.570

## QUICK CHANGE/NMTB TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
QCCC40204	0.187500	DOUBLE ANGLE	DA20	1.79	1.150	2.60	1.62	3.570
QCCC40205	0.203125	DOUBLE ANGLE	DA20	1.79	1.150	2.60	1.62	3.570
QCCC40206	0.218750	DOUBLE ANGLE	DA20	1.79	1.150	2.60	1.62	3.570
QCCC40207	0.234375	DOUBLE ANGLE	DA20	1.79	1.150	2.60	1.62	3.570
QCCC40208	0.250000	DOUBLE ANGLE	DA20	1.79	1.150	2.60	1.62	3.570
QCCC40209	0.265625	DOUBLE ANGLE	DA20	1.79	1.150	2.60	1.62	3.570
QCCC40210	0.281250	DOUBLE ANGLE	DA20	1.79	1.150	2.60	1.62	3.570
QCCC40211	0.296875	DOUBLE ANGLE	DA20	1.79	1.150	2.60	1.62	3.570
QCCC40212	0.312500	DOUBLE ANGLE	DA20	1.79	1.150	2.60	1.62	3.570
QCCC40213	0.328125	DOUBLE ANGLE	DA20	1.79	1.150	2.60	1.62	3.570
QCCC40214	0.343750	DOUBLE ANGLE	DA20	1.79	1.150	2.60	1.62	3.570
QCCC40215	0.359375	DOUBLE ANGLE	DA20	1.79	1.150	2.60	1.62	3.570
QCCC40216	0.375000	DOUBLE ANGLE	DA20	1.79	1.150	2.60	1.62	3.570
QCCC40300	0.125000	DOUBLE ANGLE	DA20	2.39	1.440	2.53	1.69	3.360
QCCC40301	0.140625	DOUBLE ANGLE	DA20	2.39	1.440	2.53	1.69	3.360
QCCC40302	0.156250	DOUBLE ANGLE	DA20	2.39	1.440	2.53	1.69	3.360
QCCC40303	0.171875	DOUBLE ANGLE	DA20	2.39	1.440	2.53	1.69	3.360
QCCC40304	0.187500	DOUBLE ANGLE	DA20	2.39	1.440	2.53	1.69	3.360
QCCC40305	0.203125	DOUBLE ANGLE	DA20	2.39	1.440	2.53	1.69	3.360
QCCC40306	0.218750	DOUBLE ANGLE	DA20	2.39	1.440	2.53	1.69	3.360
QCCC40307	0.234375	DOUBLE ANGLE	DA20	2.39	1.440	2.53	1.69	3.360
QCCC40308	0.250000	DOUBLE ANGLE	DA20	2.39	1.440	2.53	1.69	3.360
QCCC40309	0.265625	DOUBLE ANGLE	DA20	2.39	1.440	2.53	1.69	3.360
QCCC40310	0.281250	DOUBLE ANGLE	DA20	2.39	1.440	2.53	1.69	3.360
QCCC40311	0.296875	DOUBLE ANGLE	DA20	2.39	1.440	2.53	1.69	3.360
QCCC40312	0.312500	DOUBLE ANGLE	DA20	2.39	1.440	2.53	1.69	3.360
QCCC40313	0.328125	DOUBLE ANGLE	DA20	2.39	1.440	2.53	1.69	3.360
QCCC40314	0.343750	DOUBLE ANGLE	DA20	2.39	1.440	2.53	1.69	3.360
QCCC40315	0.359375	DOUBLE ANGLE	DA20	2.39	1.440	2.53	1.69	3.360
QCCC40316	0.375000	DOUBLE ANGLE	DA20	2.39	1.440	2.53	1.69	3.360
QCCC40400	0.250000	DOUBLE ANGLE	DA10	2.00	1.440	2.81	1.81	3.810
QCCC40401	0.265625	DOUBLE ANGLE	DA10	2.00	1.440	2.81	1.81	3.810
QCCC40402	0.281250	DOUBLE ANGLE	DA10	2.00	1.440	2.81	1.81	3.810
QCCC40403	0.296875	DOUBLE ANGLE	DA10	2.00	1.440	2.81	1.81	3.810
QCCC40404	0.312500	DOUBLE ANGLE	DA10	2.00	1.440	2.81	1.81	3.810
QCCC40405	0.328125	DOUBLE ANGLE	DA10	2.00	1.440	2.81	1.81	3.810

## QUICK CHANGE/NMTB TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
QCCC40406	0.343750	DOUBLE ANGLE	DA10	2.00	1.440	2.81	1.81	3.810
QCCC40407	0.359375	DOUBLE ANGLE	DA10	2.00	1.440	2.81	1.81	3.810
QCCC40408	0.375000	DOUBLE ANGLE	DA10	2.00	1.440	2.81	1.81	3.810
QCCC40409	0.390625	DOUBLE ANGLE	DA10	2.00	1.440	2.81	1.81	3.810
QCCC40410	0.406250	DOUBLE ANGLE	DA10	2.00	1.440	2.81	1.81	3.810
QCCC40411	0.421875	DOUBLE ANGLE	DA10	2.00	1.440	2.81	1.81	3.810
QCCC40412	0.437500	DOUBLE ANGLE	DA10	2.00	1.440	2.81	1.81	3.810
QCCC40413	0.453125	DOUBLE ANGLE	DA10	2.00	1.440	2.81	1.81	3.810
QCCC40414	0.468750	DOUBLE ANGLE	DA10	2.00	1.440	2.81	1.81	3.810
QCCC40415	0.484375	DOUBLE ANGLE	DA10	2.00	1.440	2.81	1.81	3.810
QCCC40416	0.500000	DOUBLE ANGLE	DA10	2.00	1.440	2.81	1.81	3.810
QCCC40417	0.515625	DOUBLE ANGLE	DA10	2.00	1.440	2.81	1.81	3.810
QCCC40418	0.531250	DOUBLE ANGLE	DA10	2.00	1.440	2.81	1.81	3.810
QCCC40419	0.546875	DOUBLE ANGLE	DA10	2.00	1.440	2.81	1.81	3.810
QCCC40420	0.562500	DOUBLE ANGLE	DA10	2.00	1.440	2.81	1.81	3.810
QCCC40500	0.250000	DOUBLE ANGLE	DA18	2.06	0.870	2.08	1.94	2.220
QCCC40501	0.265625	DOUBLE ANGLE	DA18	2.06	0.870	2.08	1.94	2.220
QCCC40502	0.281250	DOUBLE ANGLE	DA18	2.06	0.870	2.08	1.94	2.220
QCCC40503	0.296875	DOUBLE ANGLE	DA18	2.06	0.870	2.08	1.94	2.220
QCCC40504	0.312500	DOUBLE ANGLE	DA18	2.06	0.870	2.08	1.94	2.220
QCCC40505	0.328125	DOUBLE ANGLE	DA18	2.06	0.870	2.08	1.94	2.220
QCCC40506	0.343750	DOUBLE ANGLE	DA18	2.06	0.870	2.08	1.94	2.220
QCCC40507	0.359375	DOUBLE ANGLE	DA18	2.06	0.870	2.08	1.94	2.220
QCCC40508	0.375000	DOUBLE ANGLE	DA18	2.06	0.870	2.08	1.94	2.220
QCCC40509	0.390625	DOUBLE ANGLE	DA18	2.06	0.870	2.08	1.94	2.220
QCCC40510	0.406250	DOUBLE ANGLE	DA18	2.06	0.870	2.08	1.94	2.220
QCCC40511	0.421875	DOUBLE ANGLE	DA18	2.06	0.870	2.08	1.94	2.220
QCCC40512	0.437500	DOUBLE ANGLE	DA18	2.06	0.870	2.08	1.94	2.220
QCCC40513	0.453125	DOUBLE ANGLE	DA18	2.06	0.870	2.08	1.94	2.220
QCCC40514	0.468750	DOUBLE ANGLE	DA18	2.06	0.870	2.08	1.94	2.220
QCCC40515	0.484375	DOUBLE ANGLE	DA18	2.06	0.870	2.08	1.94	2.220
QCCC40516	0.500000	DOUBLE ANGLE	DA18	2.06	0.870	2.08	1.94	2.220
QCCC40517	0.515625	DOUBLE ANGLE	DA18	2.06	0.870	2.08	1.94	2.220
QCCC40518	0.531250	DOUBLE ANGLE	DA18	2.06	0.870	2.08	1.94	2.220
QCCC40519	0.546875	DOUBLE ANGLE	DA18	2.06	0.870	2.08	1.94	2.220
QCCC40520	0.562500	DOUBLE ANGLE	DA18	2.06	0.870	2.08	1.94	2.220

## QUICK CHANGE/NMTB TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
QCCC40521	0.578125	DOUBLE ANGLE	DA18	2.06	0.870	2.08	1.94	2.220
QCCC40522	0.593750	DOUBLE ANGLE	DA18	2.06	0.870	2.08	1.94	2.220
QCCC40523	0.609375	DOUBLE ANGLE	DA18	2.06	0.870	2.08	1.94	2.220
QCCC40524	0.625000	DOUBLE ANGLE	DA18	2.06	0.870	2.08	1.94	2.220
QCCC40525	0.640625	DOUBLE ANGLE	DA18	2.06	0.870	2.08	1.94	2.220
QCCC40526	0.656250	DOUBLE ANGLE	DA18	2.06	0.870	2.08	1.94	2.220
QCCC40527	0.671875	DOUBLE ANGLE	DA18	2.06	0.870	2.08	1.94	2.220
QCCC40528	0.687500	DOUBLE ANGLE	DA18	2.06	0.870	2.08	1.94	2.220
QCCC40529	0.703125	DOUBLE ANGLE	DA18	2.06	0.870	2.08	1.94	2.220
QCCC40530	0.718750	DOUBLE ANGLE	DA18	2.06	0.870	2.08	1.94	2.220
QCCC40531	0.734375	DOUBLE ANGLE	DA18	2.06	0.870	2.08	1.94	2.220
QCCC40532	0.750000	DOUBLE ANGLE	DA18	2.06	0.870	2.08	1.94	2.220
QCCC40600	0.375000	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40601	0.390625	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40602	0.406250	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40603	0.421875	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40604	0.437500	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40605	0.453125	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40606	0.468750	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40607	0.484375	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40608	0.500000	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40609	0.515625	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40610	0.531250	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40611	0.546875	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40612	0.562500	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40613	0.578125	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40614	0.593750	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40615	0.609375	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40616	0.625000	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40617	0.640625	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40618	0.656250	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40619	0.671875	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40620	0.687500	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40621	0.703125	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40622	0.718750	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40623	0.734375	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720

## QUICK CHANGE/NMTB TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
QCCC40624	0.750000	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40625	0.765625	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40626	0.781250	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40627	0.796875	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40628	0.812500	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40629	0.828125	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40630	0.843750	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40631	0.859375	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40632	0.875000	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40633	0.890625	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40634	0.906250	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40635	0.921875	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40636	0.937500	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40637	0.953125	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40638	0.968750	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40639	0.984375	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40640	1.000000	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC40700	0.062500	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40701	0.078125	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40702	0.093750	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40703	0.109375	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40704	0.125000	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40705	0.140625	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40706	0.156250	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40707	0.171875	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40708	0.187500	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40709	0.203125	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40710	0.218750	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40711	0.234375	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40712	0.250000	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40713	0.265625	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40714	0.281250	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40715	0.296875	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40716	0.312500	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40717	0.328125	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40718	0.343750	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350

## QUICK CHANGE/NMTB TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
QCCC40719	0.359375	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40720	0.375000	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40721	0.390625	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40722	0.406250	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40723	0.421875	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40724	0.437500	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40725	0.453125	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40726	0.468750	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40727	0.484375	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40728	0.500000	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40729	0.515625	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40730	0.531250	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40731	0.546875	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40732	0.562500	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40733	0.578125	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40734	0.593750	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40735	0.609375	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40736	0.625000	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40737	0.640625	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40738	0.656250	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40739	0.671875	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40740	0.687500	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40741	0.703125	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40742	0.718750	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40743	0.734375	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40744	0.750000	SINGLE ANGLE	SA75	2.11	2.090	2.83	2.31	3.350
QCCC40800	0.375000	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40801	0.390625	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40802	0.406250	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40803	0.421875	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40804	0.437500	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40805	0.453125	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40806	0.468750	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40807	0.484375	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40808	0.500000	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40809	0.515625	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130

## QUICK CHANGE/NMTB TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
QCCC40810	0.531250	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40811	0.546875	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40812	0.562500	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40813	0.578125	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40814	0.593750	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40815	0.609375	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40816	0.625000	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40817	0.640625	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40818	0.656250	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40819	0.671875	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40820	0.687500	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40821	0.703125	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40822	0.718750	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40823	0.734375	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40824	0.750000	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40825	0.765625	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40826	0.781250	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40827	0.796875	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40828	0.812500	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40829	0.828125	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40830	0.843750	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40831	0.859375	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40832	0.875000	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40833	0.890625	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40834	0.906250	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40835	0.921875	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40836	0.937500	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40837	0.953125	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40838	0.968750	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40839	0.984375	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40840	1.000000	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC40900	0.500000	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40901	0.515625	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40902	0.531250	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40903	0.546875	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40904	0.562500	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460

## QUICK CHANGE/NMTB TOOLHOLDERS

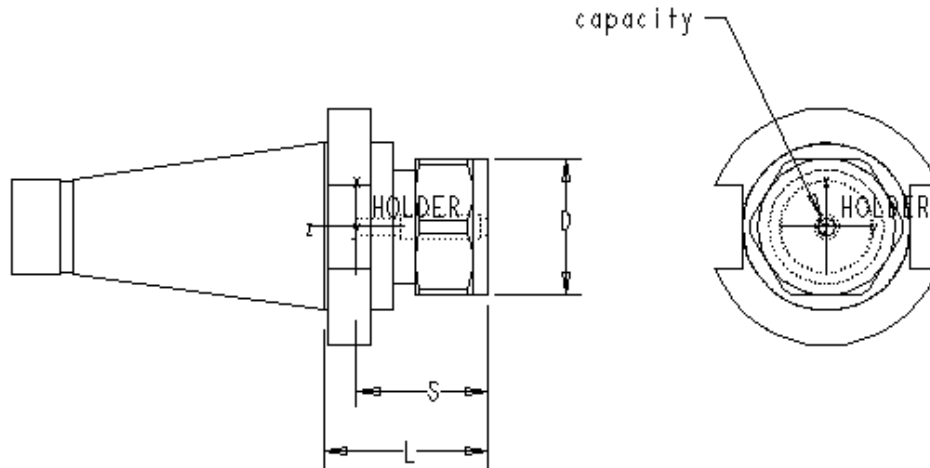
Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
QCCC40905	0.578125	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40906	0.593750	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40907	0.609375	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40908	0.625000	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40909	0.640625	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40910	0.656250	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40911	0.671875	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40912	0.687500	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40913	0.703125	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40914	0.718750	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40915	0.734375	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40916	0.750000	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40917	0.765625	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40918	0.781250	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40919	0.796875	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40920	0.812500	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40921	0.828125	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40922	0.843750	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40923	0.859375	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40924	0.875000	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40925	0.890625	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40926	0.906250	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40927	0.921875	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40928	0.937500	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40929	0.953125	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40930	0.968750	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40931	0.984375	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40932	1.000000	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40933	1.015625	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40934	1.031250	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40935	1.046875	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40936	1.062500	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40937	1.078125	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40938	1.093750	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40939	1.109375	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40940	1.125000	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460

## QUICK CHANGE/NMTB TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
QCCC40941	1.140625	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40942	1.156250	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40943	1.171875	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40944	1.187500	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40945	1.203125	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40946	1.218750	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40947	1.234375	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40948	1.250000	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40949	1.265625	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40950	1.281250	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40951	1.296875	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40952	1.312500	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40953	1.328125	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40954	1.343750	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40955	1.359375	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40956	1.375000	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40957	1.390625	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40958	1.406250	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40959	1.421875	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40960	1.437500	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40961	1.453125	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40962	1.468750	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40963	1.484375	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC40964	1.500000	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460

## QUICK CHANGE/NMTB TOOLHOLDERS

### 50 TAPER, 3/8" THROUGH 1-1/2" TOOL SHANK CAPACITY



**Generic Part Name: QCCC50**

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
QCCC50100	0.3750	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50101	0.3906	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50102	0.4062	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50103	0.4219	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50104	0.4375	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50105	0.4531	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50106	0.4688	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50107	0.4844	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50108	0.5000	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50109	0.5156	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50110	0.5312	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50111	0.5469	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50112	0.5625	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50113	0.5781	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50114	0.5938	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50115	0.6094	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50116	0.6250	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50117	0.6406	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50118	0.6562	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50119	0.6719	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720

## QUICK CHANGE/NMTB TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
QCCC50120	0.6875	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50121	0.7031	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50122	0.7188	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50123	0.7344	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50124	0.7500	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50125	0.7656	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50126	0.7812	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50127	0.7969	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50128	0.8125	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50129	0.8281	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50130	0.8438	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50131	0.8594	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50132	0.8750	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50133	0.8906	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50134	0.9062	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50135	0.9219	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50136	0.9375	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50137	0.9531	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50138	0.9688	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50139	0.9844	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50140	1.0000	DOUBLE ANGLE	DA40	2.50	2.500	2.55	2.38	2.720
QCCC50200	0.3750	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50201	0.3906	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50202	0.4062	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50203	0.4219	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50204	0.4375	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50205	0.4531	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50206	0.4688	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50207	0.4844	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50208	0.5000	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50209	0.5156	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50210	0.5312	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50211	0.5469	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50212	0.5625	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50213	0.5781	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50214	0.5938	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130

## QUICK CHANGE/NMTB TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
QCCC50215	0.6094	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50216	0.6250	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50217	0.6406	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50218	0.6562	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50219	0.6719	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50220	0.6875	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50221	0.7031	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50222	0.7188	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50223	0.7344	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50224	0.7500	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50225	0.7656	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50226	0.7812	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50227	0.7969	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50228	0.8125	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50229	0.8281	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50230	0.8438	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50231	0.8594	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50232	0.8750	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50233	0.8906	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50234	0.9062	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50235	0.9219	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50236	0.9375	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50237	0.9531	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50238	0.9688	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50239	0.9844	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50240	1.0000	SINGLE ANGLE	SA10	2.55	2.440	2.93	2.72	3.130
QCCC50300	0.5000	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50301	0.5156	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50302	0.5312	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50303	0.5469	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50304	0.5625	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50305	0.5781	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50306	0.5938	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50307	0.6094	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50308	0.6250	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50309	0.6406	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460

## QUICK CHANGE/NMTB TOOLHOLDERS

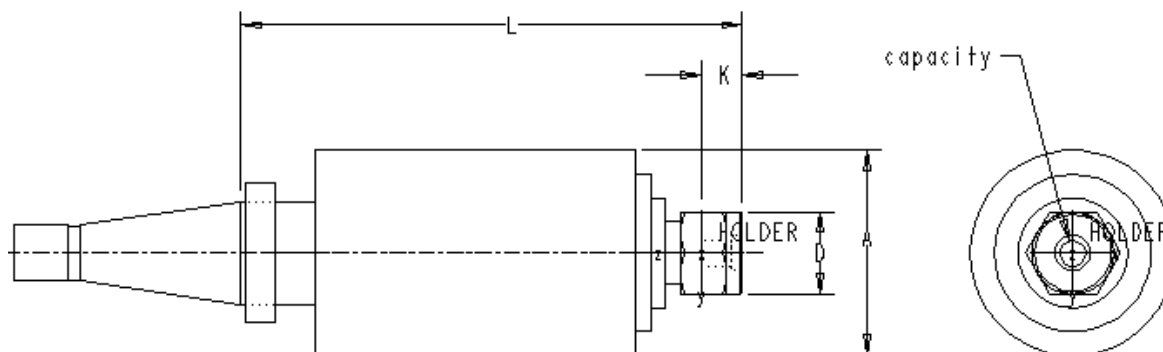
Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
QCCC50310	0.6562	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50311	0.6719	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50312	0.6875	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50313	0.7031	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50314	0.7188	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50315	0.7344	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50316	0.7500	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50317	0.7656	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50318	0.7812	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50319	0.7969	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50320	0.8125	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50321	0.8281	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50322	0.8438	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50323	0.8594	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50324	0.8750	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50325	0.8906	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50326	0.9062	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50327	0.9219	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50328	0.9375	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50329	0.9531	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50330	0.9688	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50331	0.9844	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50332	1.0000	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50333	1.0156	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50334	1.0312	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50335	1.0469	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50336	1.0625	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50337	1.0781	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50338	1.0938	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50339	1.1094	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50340	1.1250	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50341	1.1406	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50342	1.1562	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50343	1.1719	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50344	1.1875	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50345	1.2031	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460

## QUICK CHANGE/NMTB TOOLHOLDERS

Instance Name	capacity	Collet Style	Collet Series	L	D	S	S MIN	S MAX
QCCC50346	1.2188	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50347	1.2344	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50348	1.2500	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50349	1.2656	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50350	1.2812	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50351	1.2969	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50352	1.3125	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50353	1.3281	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50354	1.3438	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50355	1.3594	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50356	1.3750	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50357	1.3906	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50358	1.4062	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50359	1.4219	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50360	1.4375	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50361	1.4531	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50362	1.4688	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50363	1.4844	SINGLE ANGLE	SA15	4.50	3.500	3.84	3.22	4.460
QCCC50364	1.5000	SINGLE ANGLE	DOU	4.50	3.500	3.84	3.22	4.460

## COLLET TAP CHUCKS

30 TAPER, #0 THROUGH 7/8" HAND TAP, 1/16" THROUGH 1/2" PIPE TAP



Generic Part Name: QCTC30

Instance Name	capacity	Collet Series	L	D	K	A
QCTC30000	0.141	J	6.12	1.380	0.50	2.50
QCTC30001	0.168	J	6.12	1.380	0.50	2.50
QCTC30002	0.194	J	6.12	1.380	0.50	2.50
QCTC30003	0.220	J	6.12	1.380	0.50	2.50
QCTC30004	0.255	J	6.12	1.380	0.50	2.50
QCTC30005	0.318	J	6.12	1.380	0.50	2.50
QCTC30006	0.381	J	6.12	1.380	0.50	2.50
QCTC30007	0.323	J	6.12	1.380	0.50	2.50
QCTC30008	0.367	J	6.12	1.380	0.50	2.50
QCTC30009	0.313	J	6.12	1.380	0.50	2.50
QCTC30104	0.255	L	6.12	2.000	0.56	2.50
QCTC30105	0.318	L	6.12	2.000	0.56	2.50
QCTC30106	0.381	L	6.12	2.000	0.56	2.50
QCTC30107	0.323	L	6.12	2.000	0.56	2.50
QCTC30108	0.367	L	6.12	2.000	0.56	2.50
QCTC30109	0.429	L	6.12	2.000	0.56	2.50
QCTC30110	0.480	L	6.12	2.000	0.56	2.50
QCTC30111	0.590	L	6.12	2.000	0.56	2.50
QCTC30112	0.697	L	6.12	2.000	0.56	2.50
QCTC30113	0.313	L	6.12	2.000	0.56	2.50

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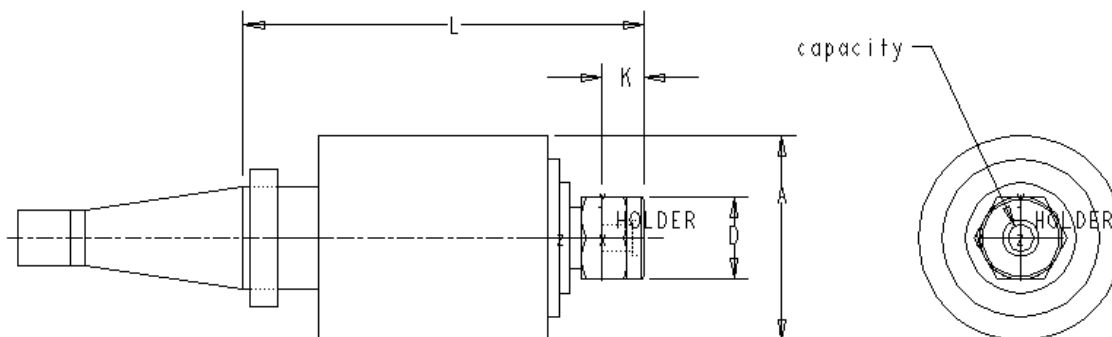
## QUICK CHANGE/NMTB TOOLHOLDERS

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Instance Name	capacity	Collet Series	L	D	K	A
QCTC30114	0.438	L	6.12	2.000	0.56	2.50
QCTC30115	0.563	L	6.12	2.000	0.56	2.50
QCTC30116	0.700	L	6.12	2.000	0.56	2.50
QCTC30117	0.688	L	6.12	2.000	0.56	2.50

## QUICK CHANGE/NMTB TOOLHOLDERS

### 40 TAPER, #0 THROUGH 7/8" HAND TAP, 1/16" THROUGH 1/2" PIPE TAP



**Generic Part Name: QCTC40**

Instance Name	capacity	Collet Series	L	D	K	A
QCTC40000	0.141	J	4.88	1.380	0.50	2.50
QCTC40001	0.168	J	4.88	1.380	0.50	2.50
QCTC40002	0.194	J	4.88	1.380	0.50	2.50
QCTC40003	0.220	J	4.88	1.380	0.50	2.50
QCTC40004	0.255	J	4.88	1.380	0.50	2.50
QCTC40005	0.318	J	4.88	1.380	0.50	2.50
QCTC40006	0.381	J	4.88	1.380	0.50	2.50
QCTC40007	0.323	J	4.88	1.380	0.50	2.50
QCTC40008	0.367	J	4.88	1.380	0.50	2.50
QCTC40009	0.313	J	4.88	1.380	0.50	2.50
QCTC40104	0.255	L	4.88	1.630	0.56	2.50
QCTC40105	0.318	L	4.88	1.630	0.56	2.50
QCTC40106	0.381	L	4.88	1.630	0.56	2.50
QCTC40107	0.323	L	4.88	1.630	0.56	2.50
QCTC40108	0.367	L	4.88	1.630	0.56	2.50
QCTC40109	0.429	L	4.88	1.630	0.56	2.50
QCTC40110	0.480	L	4.88	1.630	0.56	2.50
QCTC40111	0.590	L	4.88	1.630	0.56	2.50
QCTC40112	0.697	L	4.88	1.630	0.56	2.50
QCTC40113	0.313	L	4.88	1.630	0.56	2.50
QCTC40114	0.438	L	4.88	1.630	0.56	2.50

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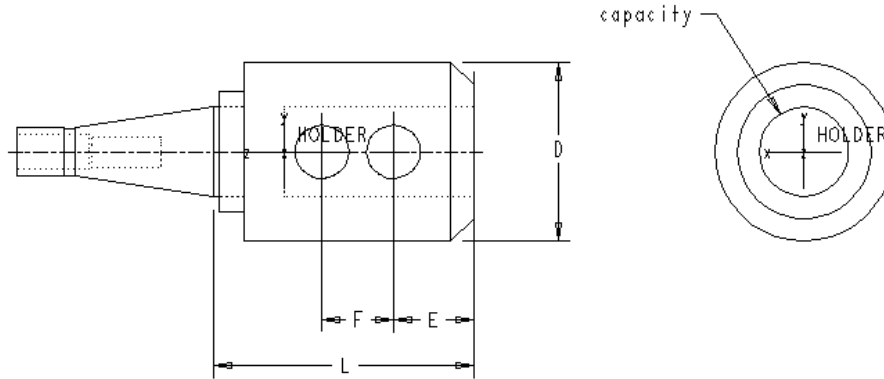
## QUICK CHANGE/NMTB TOOLHOLDERS

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Instance Name	capacity	Collet Series	L	D	K	A
QCTC40115	0.563	L	4.88	1.630	0.56	2.50
QCTC40116	0.700	L	4.88	1.630	0.56	2.50
QCTC40117	0.688	L	4.88	1.630	0.56	2.50

## ENDMILL ADAPTERS

### 30 TAPER, 3/16" THROUGH 1-1/4" DIAMETER



**Generic Part Name: QCEM30**

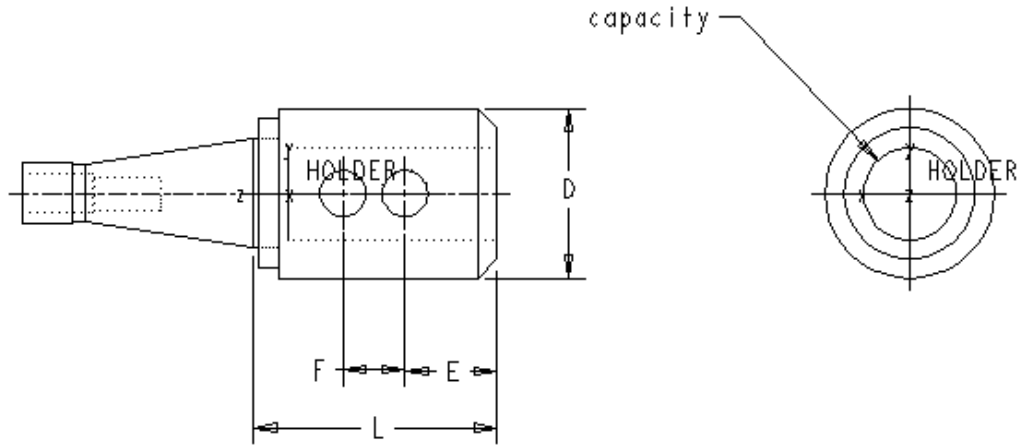
Instance Name	capacity	L	D	E	F
QCEM30001	0.1875	1.75	0.69	0.563	0.000
QCEM30002	0.2500	1.75	1.00	0.563	0.000
QCEM30003	0.3750	1.75	1.00	0.750	0.000
QCEM30004	0.5000	1.75	1.25	0.880	0.000
QCEM30005	0.6250	1.75	1.45	0.940	0.000
QCEM30006	0.7500	2.13	1.81	1.000	0.000
QCEM30007	0.8750	2.50	1.87	1.000	0.000
QCEM30008	1.0000	2.69	2.00	1.120	1.000
QCEM30009	1.2500	3.63	2.50	1.120	1.000

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## QUICK CHANGE/NMTB TOOLHOLDERS

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### 40TAPER, 3/16" THROUGH 1-1/2" DIAMETER



**Generic Part Name: QCEM40**

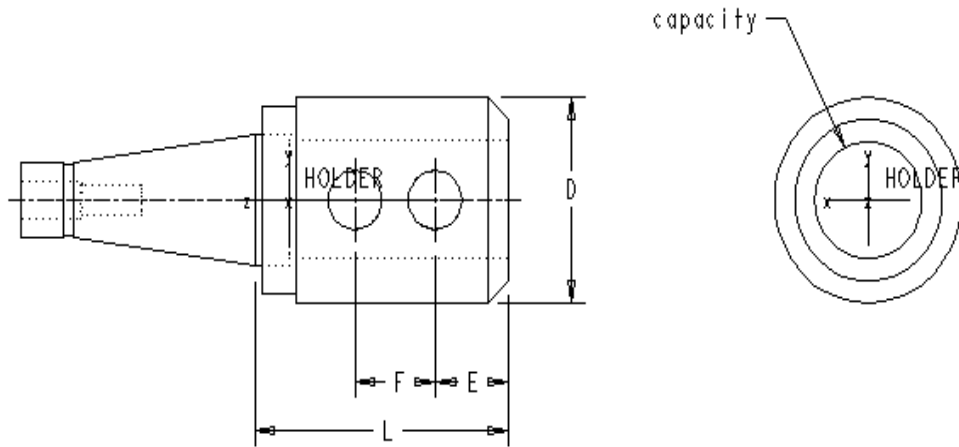
Instance Name	capacity	L	D	E	F
QCEM40001	0.1875	2.31	0.69	0.563	0.000
QCEM40002	0.2500	1.38	1.00	0.563	0.000
QCEM40003	0.3750	2.31	1.00	0.750	0.000
QCEM40004	0.5000	2.31	1.25	0.880	0.000
QCEM40005	0.6250	2.31	1.50	0.940	0.000
QCEM40006	0.7500	2.31	1.75	1.000	0.000
QCEM40007	0.8750	2.94	2.00	1.000	0.000
QCEM40008	1.0000	3.38	2.00	1.120	0.000
QCEM40009	1.2500	3.69	2.50	1.120	1.000
QCEM40010	1.5000	3.95	2.75	1.500	1.000

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## QUICK CHANGE/NMTB TOOLHOLDERS

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### 50 TAPER, 3/8" THROUGH 1-1/2" DIAMETER

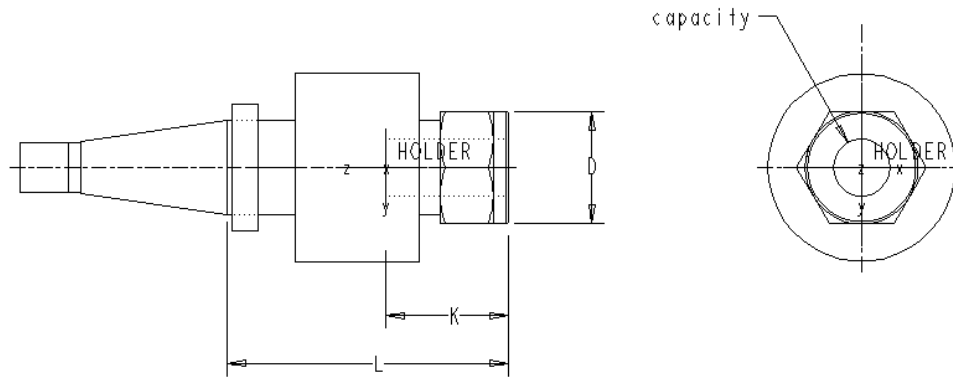


**Generic Part Name: QCEM50**

Instance Name	capacity	L	D	E	F
QCEM50001	0.3750	2.75	1.00	0.750	0.000
QC3M50002	0.5000	2.75	1.38	0.880	0.000
QCEM50003	0.6250	2.75	1.62	0.940	0.000
QC3M50004	0.7500	2.75	1.75	1.000	0.000
QCEM50005	0.8750	2.00	2.00	1.000	0.000
QCEM50006	1.0000	3.06	2.00	1.120	0.000
QCEM50007	1.2500	3.06	2.50	1.120	1.000
QCEM50008	1.5000	3.50	2.75	1.500	1.000
QCEM50009	2.0000	4.75	3.50	1.380	1.500

## FLOATING HOLDERS

**30 TAPER, 1/32" THROUGH 3/4" TOOL SHANK CAPACITY, 15/64" THROUGH 27/32" REAMER SIZE**



**Generic Part Name: QCFH30**

Instance Name	capacity	Collet Series	L	D	K
QCFH30000	0.047	DA18	3.67	1.740	1.63
QCFH30001	0.062	DA18	3.67	1.740	1.63
QCFH30002	0.078	DA18	3.67	1.740	1.63
QCFH30003	0.094	DA18	3.67	1.740	1.63
QCFH30004	0.109	DA18	3.67	1.740	1.63
QCFH30005	0.125	DA18	3.67	1.740	1.63
QCFH30006	0.141	DA18	3.67	1.740	1.63
QCFH30007	0.156	DA18	3.67	1.740	1.63
QCFH30008	0.172	DA18	3.67	1.740	1.63
QCFH30009	0.188	DA18	3.67	1.740	1.63
QCFH30010	0.203	DA18	3.67	1.740	1.63
QCFH30011	0.219	DA18	3.67	1.740	1.63
QCFH30012	0.234	DA18	3.67	1.740	1.63
QCFH30013	0.250	DA18	3.67	1.740	1.63
QCFH30014	0.266	DA18	3.67	1.740	1.63
QCFH30015	0.281	DA18	3.67	1.740	1.63
QCFH30016	0.297	DA18	3.67	1.740	1.63

## QUICK CHANGE/NMTB TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	K
QCFH30017	0.312	DA18	3.67	1.740	1.63
QCFH30018	0.328	DA18	3.67	1.740	1.63
QCFH30019	0.344	DA18	3.67	1.740	1.63
QCFH30020	0.359	DA18	3.67	1.740	1.63
QCFH30021	0.375	DA18	3.67	1.740	1.63
QCFH30022	0.391	DA18	3.67	1.740	1.63
QCFH30023	0.406	DA18	3.67	1.740	1.63
QCFH30024	0.422	DA18	3.67	1.740	1.63
QCFH30025	0.438	DA18	3.67	1.740	1.63
QCFH30026	0.453	DA18	3.67	1.740	1.63
QCFH30027	0.469	DA18	3.67	1.740	1.63
QCFH30028	0.484	DA18	3.67	1.740	1.63
QCFH30029	0.500	DA18	3.67	1.740	1.63
QCFH30030	0.516	DA18	3.67	1.740	1.63
QCFH30031	0.531	DA18	3.67	1.740	1.63
QCFH30032	0.547	DA18	3.67	1.740	1.63
QCFH30033	0.562	DA18	3.67	1.740	1.63
QCFH30034	0.578	DA18	3.67	1.740	1.63
QCFH30035	0.594	DA18	3.67	1.740	1.63
QCFH30036	0.609	DA18	3.67	1.740	1.63
QCFH30037	0.625	DA18	3.67	1.740	1.63
QCFH30038	0.641	DA18	3.67	1.740	1.63
QCFH30039	0.656	DA18	3.67	1.740	1.63
QCFH30040	0.672	DA18	3.67	1.740	1.63
QCFH30041	0.688	DA18	3.67	1.740	1.63
QCFH30042	0.703	DA18	3.67	1.740	1.63
QCFH30043	0.719	DA18	3.67	1.740	1.63
QCFH30044	0.734	DA18	3.67	1.740	1.63
QCFH30045	0.750	DA18	3.67	1.740	1.63
QCFH30100	0.119	L	3.47	1.630	1.09
QCFH30101	0.181	L	3.47	1.630	1.09
QCFH30102	0.241	L	3.47	1.630	1.09
QCFH30103	0.250	L	3.47	1.630	1.09
QCFH30104	0.281	L	3.47	1.630	1.09
QCFH30105	0.312	L	3.47	1.630	1.09
QCFH30106	0.375	L	3.47	1.630	1.09

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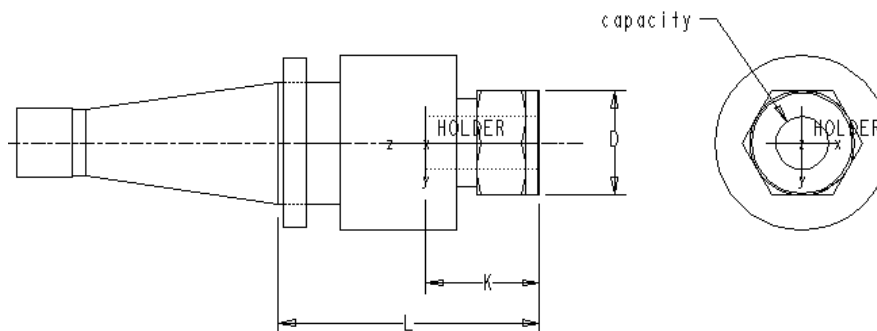
## QUICK CHANGE/NMTB TOOLHOLDERS

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Instance Name	capacity	Collet Series	L	D	K
QCFH30107	0.437	L	3.47	1.630	1.09
QCFH30108	0.562	L	3.47	1.630	1.09
QCFH30109	0.625	L	3.47	1.630	1.09

## QUICK CHANGE/NMTB TOOLHOLDERS

### 40 TAPER, 15/64" THROUGH 27/32" REAMER SIZE



**Generic Part Name: QCFH40**

Instance Name	capacity	Collet Series	L	D	K
QCFH40000	0.047	DA18	3.75	1.730	1.63
QCFH40001	0.062	DA18	3.75	1.730	1.63
QCFH40002	0.078	DA18	3.75	1.730	1.63
QCFH40003	0.094	DA18	3.75	1.730	1.63
QCFH40004	0.109	DA18	3.75	1.730	1.63
QCFH40005	0.125	DA18	3.75	1.730	1.63
QCFH40006	0.141	DA18	3.75	1.730	1.63
QCFH40007	0.156	DA18	3.75	1.730	1.63
QCFH40008	0.172	DA18	3.75	1.730	1.63
QCFH40009	0.188	DA18	3.75	1.730	1.63
QCFH40010	0.203	DA18	3.75	1.730	1.63
QCFH40011	0.219	DA18	3.75	1.730	1.63
QCFH40012	0.234	DA18	3.75	1.730	1.63
QCFH40013	0.250	DA18	3.75	1.730	1.63
QCFH40014	0.266	DA18	3.75	1.730	1.63
QCFH40015	0.281	DA18	3.75	1.730	1.63
QCFH40016	0.297	DA18	3.75	1.730	1.63
QCFH40017	0.312	DA18	3.75	1.730	1.63
QCFH40018	0.328	DA18	3.75	1.730	1.63
QCFH40019	0.344	DA18	3.75	1.730	1.63

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## QUICK CHANGE/NMTB TOOLHOLDERS

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Instance Name	capacity	Collet Series	L	D	K
QCFH40020	0.359	DA18	3.75	1.730	1.63
QCFH40021	0.375	DA18	3.75	1.730	1.63
QCFH40022	0.391	DA18	3.75	1.730	1.63
QCFH40023	0.406	DA18	3.75	1.730	1.63
QCFH40024	0.422	DA18	3.75	1.730	1.63
QCFH40025	0.438	DA18	3.75	1.730	1.63
QCFH40026	0.453	DA18	3.75	1.730	1.63
QCFH40027	0.469	DA18	3.75	1.730	1.63
QCFH40028	0.484	DA18	3.75	1.730	1.63
QCFH40029	0.500	DA18	3.75	1.730	1.63
QCFH40030	0.516	DA18	3.75	1.730	1.63
QCFH40031	0.531	DA18	3.75	1.730	1.63
QCFH40032	0.547	DA18	3.75	1.730	1.63
QCFH40033	0.562	DA18	3.75	1.730	1.63
QCFH40034	0.578	DA18	3.75	1.730	1.63
QCFH40035	0.594	DA18	3.75	1.730	1.63
QCFH40036	0.609	DA18	3.75	1.730	1.63
QCFH40037	0.625	DA18	3.75	1.730	1.63
QCFH40038	0.641	DA18	3.75	1.730	1.63
QCFH40039	0.656	DA18	3.75	1.730	1.63
QCFH40040	0.672	DA18	3.75	1.730	1.63
QCFH40041	0.688	DA18	3.75	1.730	1.63
QCFH40042	0.703	DA18	3.75	1.730	1.63
QCFH40043	0.719	DA18	3.75	1.730	1.63
QCFH40044	0.734	DA18	3.75	1.730	1.63
QCFH40045	0.750	DA18	3.75	1.730	1.63
QCFH40100	0.094	DA40	4.75	2.600	2.00
QCFH40101	0.109	DA40	4.75	2.600	2.00
QCFH40102	0.125	DA40	4.75	2.600	2.00
QCFH40103	0.141	DA40	4.75	2.600	2.00
QCFH40104	0.156	DA40	4.75	2.600	2.00
QCFH40105	0.172	DA40	4.75	2.600	2.00
QCFH40106	0.188	DA40	4.75	2.600	2.00
QCFH40107	0.203	DA40	4.75	2.600	2.00
QCFH40108	0.219	DA40	4.75	2.600	2.00
QCFH40109	0.234	DA40	4.75	2.600	2.00

## QUICK CHANGE/NMTB TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	K
QCFH40110	0.250	DA40	4.75	2.600	2.00
QCFH40111	0.266	DA40	4.75	2.600	2.00
QCFH40112	0.281	DA40	4.75	2.600	2.00
QCFH40113	0.297	DA40	4.75	2.600	2.00
QCFH40114	0.312	DA40	4.75	2.600	2.00
QCFH40115	0.328	DA40	4.75	2.600	2.00
QCFH40116	0.344	DA40	4.75	2.600	2.00
QCFH40117	0.359	DA40	4.75	2.600	2.00
QCFH40118	0.375	DA40	4.75	2.600	2.00
QCFH40119	0.391	DA40	4.75	2.600	2.00
QCFH40120	0.406	DA40	4.75	2.600	2.00
QCFH40121	0.422	DA40	4.75	2.600	2.00
QCFH40122	0.438	DA40	4.75	2.600	2.00
QCFH40123	0.453	DA40	4.75	2.600	2.00
QCFH40124	0.469	DA40	4.75	2.600	2.00
QCFH40125	0.484	DA40	4.75	2.600	2.00
QCFH40126	0.500	DA40	4.75	2.600	2.00
QCFH40127	0.516	DA40	4.75	2.600	2.00
QCFH40128	0.531	DA40	4.75	2.600	2.00
QCFH40129	0.547	DA40	4.75	2.600	2.00
QCFH40130	0.562	DA40	4.75	2.600	2.00
QCFH40131	0.578	DA40	4.75	2.600	2.00
QCFH40132	0.594	DA40	4.75	2.600	2.00
QCFH40133	0.609	DA40	4.75	2.600	2.00
QCFH40134	0.625	DA40	4.75	2.600	2.00
QCFH40135	0.641	DA40	4.75	2.600	2.00
QCFH40136	0.656	DA40	4.75	2.600	2.00
QCFH40137	0.672	DA40	4.75	2.600	2.00
QCFH40138	0.688	DA40	4.75	2.600	2.00
QCFH40139	0.703	DA40	4.75	2.600	2.00
QCFH40140	0.719	DA40	4.75	2.600	2.00
QCFH40141	0.734	DA40	4.75	2.600	2.00
QCFH40142	0.750	DA40	4.75	2.600	2.00
QCFH40143	0.766	DA40	4.75	2.600	2.00
QCFH40144	0.781	DA40	4.75	2.600	2.00
QCFH40145	0.797	DA40	4.75	2.600	2.00

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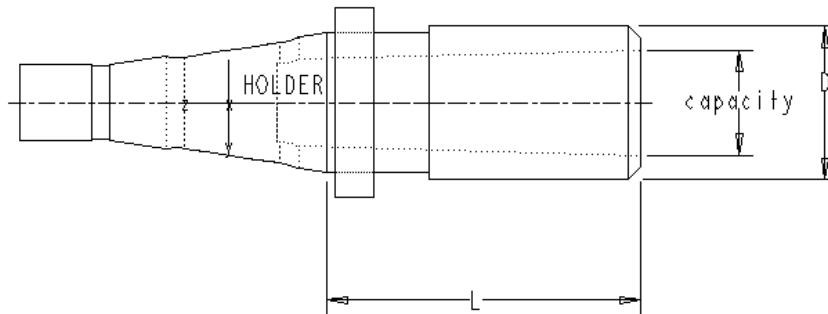
## QUICK CHANGE/NMTB TOOLHOLDERS

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Instance Name	capacity	Collet Series	L	D	K
QCFH40146	0.812	DA40	4.75	2.600	2.00
QCFH40147	0.828	DA40	4.75	2.600	2.00
QCFH40148	0.844	DA40	4.75	2.600	2.00
QCFH40149	0.859	DA40	4.75	2.600	2.00
QCFH40150	0.875	DA40	4.75	2.600	2.00
QCFH40151	0.891	DA40	4.75	2.600	2.00
QCFH40152	0.906	DA40	4.75	2.600	2.00
QCFH40153	0.922	DA40	4.75	2.600	2.00
QCFH40154	0.938	DA40	4.75	2.600	2.00
QCFH40155	0.953	DA40	4.75	2.600	2.00
QCFH40156	0.969	DA40	4.75	2.600	2.00
QCFH40157	0.984	DA40	4.75	2.600	2.00
QCFH40158	1.000	DA40	4.75	2.600	2.00

## MORSE TAPER SHANK ADAPTERS

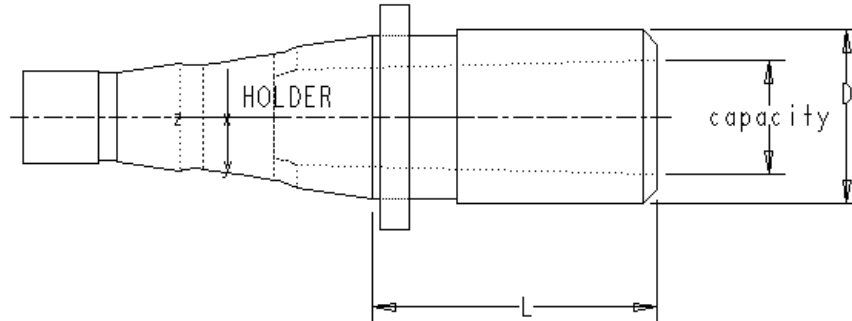
### 30 TAPER, NUMBER 1 THROUGH 3



**Generic Part Name: QCMT30**

Instance Name	Morse Taper	L	D	capacity
QCMT30001	1	1.00	1.00	0.4750
QCMT30002	2	2.12	1.25	0.7000
QCMT30003	3	2.81	1.37	0.9380

**40 TAPER, NUMBER 1 THROUGH 4**



**Generic Part Name: QCMT40**

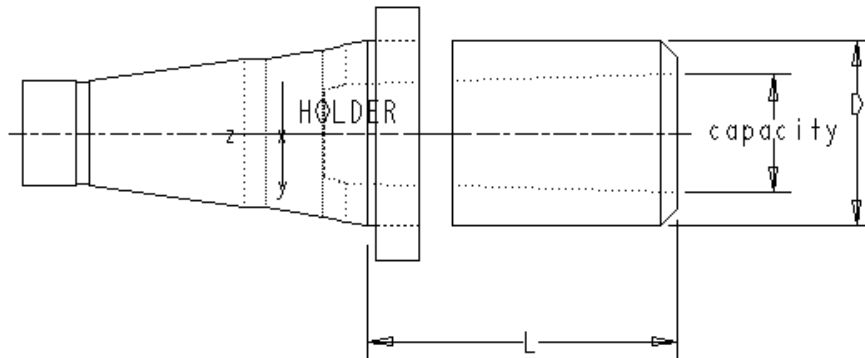
Instance Name	Morse Taper	L	D	capacity
QCMT40001	1	0.94	1.00	0.4750
QCMT40002	2	2.60	1.25	0.7000
QCMT40003	3	2.22	1.50	0.9380
QCMT40004	4	3.06	1.87	1.2310

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## QUICK CHANGE/NMTB TOOLHOLDERS

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### 50 TAPER, NUMBER 2 THROUGH 5



**Generic Part Name: QCMT50**

Instance Name	Morse Taper	L	D	capacity
QCMT50001	2	1.88	1.25	0.7000
QCMT50002	3	2.38	1.62	0.9380
QCMT50003	4	3.25	2.00	1.2310
QCMT50004	5	4.62	2.75	1.7480

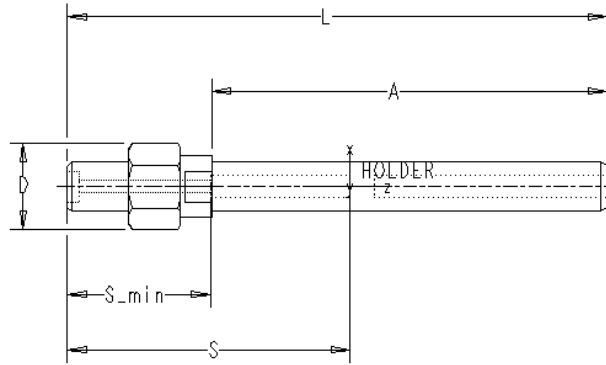
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# STRAIGHT SHANK TOOL HOLDERS

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## COLLET CHUCKS

### 1/2" DIAMETER SHANK, 1/64" THRU 1/4" TOOL SHANK CAPACITY



**Generic Part Name: SSCC050**

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC050100	0.031250	DA30	5.44	3.98	0.87	2.84	1.44	4.250
SSCC050101	0.046875	DA30	5.44	3.98	0.87	2.84	1.44	4.250
SSCC050102	0.062500	DA30	5.44	3.98	0.87	2.84	1.44	4.250
SSCC050103	0.078125	DA30	5.44	3.98	0.87	2.84	1.44	4.250
SSCC050104	0.093750	DA30	5.44	3.98	0.87	2.84	1.44	4.250
SSCC050105	0.109375	DA30	5.44	3.98	0.87	2.84	1.44	4.250
SSCC050106	0.125000	DA30	5.44	3.98	0.87	2.84	1.44	4.250
SSCC050107	0.140625	DA30	5.44	3.98	0.87	2.84	1.44	4.250
SSCC050108	0.156250	DA30	5.44	3.98	0.87	2.84	1.44	4.250
SSCC050109	0.171875	DA30	5.44	3.98	0.87	2.84	1.44	4.250
SSCC050110	0.187500	DA30	5.44	3.98	0.87	2.84	1.44	4.250
SSCC050111	0.203125	DA30	5.44	3.98	0.87	2.84	1.44	4.250
SSCC050112	0.218750	DA30	5.44	3.98	0.87	2.84	1.44	4.250
SSCC050113	0.234375	DA30	5.44	3.98	0.87	2.84	1.44	4.250
SSCC050114	0.250000	DA30	5.44	3.98	0.87	2.84	1.44	4.250
SSCC050200	0.031250	DA30	4.38	3.00	0.56	2.84	1.56	3.940
SSCC050201	0.046875	DA30	4.38	3.00	0.56	2.84	1.56	3.940
SSCC050202	0.062500	DA30	4.38	3.00	0.56	2.84	1.56	3.940

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC050203	0.078125	DA30	4.38	3.00	0.56	2.84	1.56	3.940
SSCC050204	0.093750	DA30	4.38	3.00	0.56	2.84	1.56	3.940
SSCC050205	0.109375	DA30	4.38	3.00	0.56	2.84	1.56	3.940
SSCC050206	0.125000	DA30	4.38	3.00	0.56	2.84	1.56	3.940
SSCC050207	0.140625	DA30	4.38	3.00	0.56	2.84	1.56	3.940
SSCC050208	0.156250	DA30	4.38	3.00	0.56	2.84	1.56	3.940
SSCC050209	0.171875	DA30	4.38	3.00	0.56	2.84	1.56	3.940
SSCC050210	0.187500	DA30	4.38	3.00	0.56	2.84	1.56	3.940
SSCC050211	0.203125	DA30	4.38	3.00	0.56	2.84	1.56	3.940
SSCC050212	0.218750	DA30	4.38	3.00	0.56	2.84	1.56	3.940
SSCC050213	0.234375	DA30	4.38	3.00	0.56	2.84	1.56	3.940
SSCC050214	0.250000	DA30	4.38	3.00	0.56	2.84	1.56	3.940
SSCC050300	0.031250	DA30	6.81	5.42	0.56	2.84	1.50	4.250
SSCC050301	0.046875	DA30	6.81	5.42	0.56	2.84	1.50	4.250
SSCC050302	0.062500	DA30	6.81	5.42	0.56	2.84	1.50	4.250
SSCC050303	0.078125	DA30	6.81	5.42	0.56	2.84	1.50	4.250
SSCC050304	0.093750	DA30	6.81	5.42	0.56	2.84	1.50	4.250
SSCC050305	0.109375	DA30	6.81	5.42	0.56	2.84	1.50	4.250
SSCC050306	0.125000	DA30	6.81	5.42	0.56	2.84	1.50	4.250
SSCC050307	0.140625	DA30	6.81	5.42	0.56	2.84	1.50	4.250
SSCC050308	0.156250	DA30	6.81	5.42	0.56	2.84	1.50	4.250
SSCC050309	0.171875	DA30	6.81	5.42	0.56	2.84	1.50	4.250
SSCC050310	0.187500	DA30	6.81	5.42	0.56	2.84	1.50	4.250
SSCC050311	0.203125	DA30	6.81	5.42	0.56	2.84	1.50	4.250
SSCC050312	0.218750	DA30	6.81	5.42	0.56	2.84	1.50	4.250
SSCC050313	0.234375	DA30	6.81	5.42	0.56	2.84	1.50	4.250
SSCC050314	0.250000	DA30	6.81	5.42	0.56	2.84	1.50	4.250
SSCC050400	0.031250	DA30	5.16	4.00	0.79	2.84	1.50	4.250
SSCC050401	0.046875	DA30	5.16	4.00	0.79	2.84	1.50	4.250
SSCC050402	0.062500	DA30	5.16	4.00	0.79	2.84	1.50	4.250
SSCC050403	0.078125	DA30	5.16	4.00	0.79	2.84	1.50	4.250
SSCC050404	0.093750	DA30	5.16	4.00	0.79	2.84	1.50	4.250
SSCC050405	0.109375	DA30	5.16	4.00	0.79	2.84	1.50	4.250
SSCC050406	0.125000	DA30	5.16	4.00	0.79	2.84	1.50	4.250
SSCC050407	0.140625	DA30	5.16	4.00	0.79	2.84	1.50	4.250
SSCC050408	0.156250	DA30	5.16	4.00	0.79	2.84	1.50	4.250

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## STRAIGHT SHANK TOOLHOLDERS

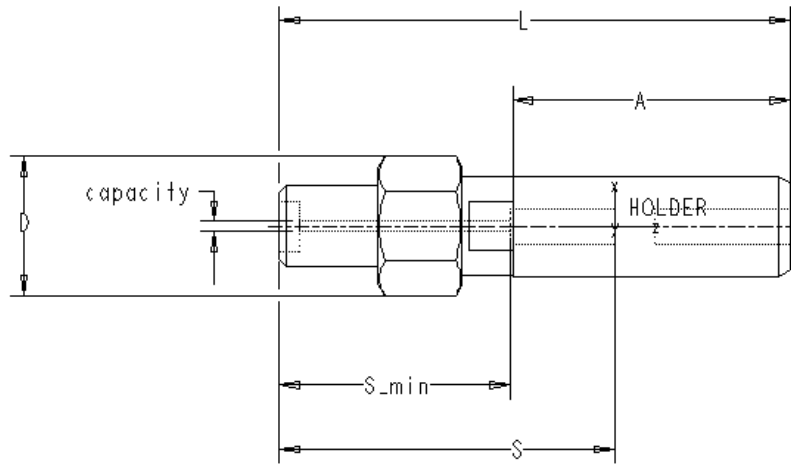
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Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC050409	0.171875	DA30	5.16	4.00	0.79	2.84	1.50	4.250
SSCC050410	0.187500	DA30	5.16	4.00	0.79	2.84	1.50	4.250
SSCC050411	0.203125	DA30	5.16	4.00	0.79	2.84	1.50	4.250
SSCC050412	0.218750	DA30	5.16	4.00	0.79	2.84	1.50	4.250
SSCC050413	0.234375	DA30	5.16	4.00	0.79	2.84	1.50	4.250
SSCC050414	0.250000	DA30	5.16	4.00	0.79	2.84	1.50	4.250

## STRAIGHT SHANK TOOLHOLDERS

### 3/8" DIAMETER SHANK, 1/64" THRU 3/8" TOOL SHANK CAPACITY



**Generic Part Name: SSCC062**

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC062100	0.031250	DA30	3.19	0.87	1.73	2.10	1.44	2.750
SSCC062101	0.046875	DA30	3.19	0.87	1.73	2.10	1.44	2.750
SSCC062102	0.062500	DA30	3.19	0.87	1.73	2.10	1.44	2.750
SSCC062103	0.078125	DA30	3.19	0.87	1.73	2.10	1.44	2.750
SSCC062104	0.093750	DA30	3.19	0.87	1.73	2.10	1.44	2.750
SSCC062105	0.109375	DA30	3.19	0.87	1.73	2.10	1.44	2.750
SSCC062106	0.125000	DA30	3.19	0.87	1.73	2.10	1.44	2.750
SSCC062107	0.140625	DA30	3.19	0.87	1.73	2.10	1.44	2.750
SSCC062108	0.156250	DA30	3.19	0.87	1.73	2.10	1.44	2.750
SSCC062109	0.171875	DA30	3.19	0.87	1.73	2.10	1.44	2.750
SSCC062110	0.187500	DA30	3.19	0.87	1.73	2.10	1.44	2.750
SSCC062111	0.203125	DA30	3.19	0.87	1.73	2.10	1.44	2.750
SSCC062112	0.218750	DA30	3.19	0.87	1.73	2.10	1.44	2.750
SSCC062113	0.234375	DA30	3.19	0.87	1.73	2.10	1.44	2.750
SSCC062114	0.250000	DA30	3.19	0.87	1.73	2.10	1.44	2.750
SSCC062200	0.031250	DA30	5.44	0.87	3.98	2.85	1.44	4.250
SSCC062201	0.046875	DA30	5.44	0.87	3.98	2.85	1.44	4.250
SSCC062202	0.062500	DA30	5.44	0.87	3.98	2.85	1.44	4.250
SSCC062203	0.078125	DA30	5.44	0.87	3.98	2.85	1.44	4.250
SSCC062204	0.093750	DA30	5.44	0.87	3.98	2.85	1.44	4.250

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC062205	0.109375	DA30	5.44	0.87	3.98	2.85	1.44	4.250
SSCC062206	0.125000	DA30	5.44	0.87	3.98	2.85	1.44	4.250
SSCC062207	0.140625	DA30	5.44	0.87	3.98	2.85	1.44	4.250
SSCC062208	0.156250	DA30	5.44	0.87	3.98	2.85	1.44	4.250
SSCC062209	0.171875	DA30	5.44	0.87	3.98	2.85	1.44	4.250
SSCC062210	0.187500	DA30	5.44	0.87	3.98	2.85	1.44	4.250
SSCC062211	0.203125	DA30	5.44	0.87	3.98	2.85	1.44	4.250
SSCC062212	0.218750	DA30	5.44	0.87	3.98	2.85	1.44	4.250
SSCC062213	0.234375	DA30	5.44	0.87	3.98	2.85	1.44	4.250
SSCC062214	0.250000	DA30	5.44	0.87	3.98	2.85	1.44	4.250
SSCC062300	0.031250	DA30	5.16	0.79	3.99	2.88	1.50	4.250
SSCC062301	0.046875	DA30	5.16	0.79	3.99	2.88	1.50	4.250
SSCC062302	0.062500	DA30	5.16	0.79	3.99	2.88	1.50	4.250
SSCC062303	0.078125	DA30	5.16	0.79	3.99	2.88	1.50	4.250
SSCC062304	0.093750	DA30	5.16	0.79	3.99	2.88	1.50	4.250
SSCC062305	0.109375	DA30	5.16	0.79	3.99	2.88	1.50	4.250
SSCC062306	0.125000	DA30	5.16	0.79	3.99	2.88	1.50	4.250
SSCC062307	0.140625	DA30	5.16	0.79	3.99	2.88	1.50	4.250
SSCC062308	0.156250	DA30	5.16	0.79	3.99	2.88	1.50	4.250
SSCC062309	0.171875	DA30	5.16	0.79	3.99	2.88	1.50	4.250
SSCC062310	0.187500	DA30	5.16	0.79	3.99	2.88	1.50	4.250
SSCC062311	0.203125	DA30	5.16	0.79	3.99	2.88	1.50	4.250
SSCC062312	0.218750	DA30	5.16	0.79	3.99	2.88	1.50	4.250
SSCC062313	0.234375	DA30	5.16	0.79	3.99	2.88	1.50	4.250
SSCC062314	0.250000	DA30	5.16	0.79	3.99	2.88	1.50	4.250
SSCC062400	0.125000	DA20	3.25	1.44	1.26	2.13	1.44	2.810
SSCC062401	0.140625	DA20	3.25	1.44	1.26	2.13	1.44	2.810
SSCC062402	0.156250	DA20	3.25	1.44	1.26	2.13	1.44	2.810
SSCC062403	0.171875	DA20	3.25	1.44	1.26	2.13	1.44	2.810
SSCC062404	0.187500	DA20	3.25	1.44	1.26	2.13	1.44	2.810
SSCC062405	0.203125	DA20	3.25	1.44	1.26	2.13	1.44	2.810
SSCC062406	0.218750	DA20	3.25	1.44	1.26	2.13	1.44	2.810
SSCC062407	0.234375	DA20	3.25	1.44	1.26	2.13	1.44	2.810
SSCC062408	0.250000	DA20	3.25	1.44	1.26	2.13	1.44	2.810
SSCC062409	0.265625	DA20	3.25	1.44	1.26	2.13	1.44	2.810
SSCC062410	0.281250	DA20	3.25	1.44	1.26	2.13	1.44	2.810

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC062411	0.296875	DA20	3.25	1.44	1.26	2.13	1.44	2.810
SSCC062412	0.312500	DA20	3.25	1.44	1.26	2.13	1.44	2.810
SSCC062413	0.328125	DA20	3.25	1.44	1.26	2.13	1.44	2.810
SSCC062414	0.343750	DA20	3.25	1.44	1.26	2.13	1.44	2.810
SSCC062415	0.359375	DA20	3.25	1.44	1.26	2.13	1.44	2.810
SSCC062416	0.375000	DA20	3.25	1.44	1.26	2.13	1.44	2.810
SSCC062500	0.125000	DA20	6.00	1.44	4.01	2.85	1.44	4.250
SSCC062501	0.140625	DA20	6.00	1.44	4.01	2.85	1.44	4.250
SSCC062502	0.156250	DA20	6.00	1.44	4.01	2.85	1.44	4.250
SSCC062503	0.171875	DA20	6.00	1.44	4.01	2.85	1.44	4.250
SSCC062504	0.187500	DA20	6.00	1.44	4.01	2.85	1.44	4.250
SSCC062505	0.203125	DA20	6.00	1.44	4.01	2.85	1.44	4.250
SSCC062506	0.218750	DA20	6.00	1.44	4.01	2.85	1.44	4.250
SSCC062507	0.234375	DA20	6.00	1.44	4.01	2.85	1.44	4.250
SSCC062508	0.250000	DA20	6.00	1.44	4.01	2.85	1.44	4.250
SSCC062509	0.265625	DA20	6.00	1.44	4.01	2.85	1.44	4.250
SSCC062510	0.281250	DA20	6.00	1.44	4.01	2.85	1.44	4.250
SSCC062511	0.296875	DA20	6.00	1.44	4.01	2.85	1.44	4.250
SSCC062512	0.312500	DA20	6.00	1.44	4.01	2.85	1.44	4.250
SSCC062513	0.328125	DA20	6.00	1.44	4.01	2.85	1.44	4.250
SSCC062514	0.343750	DA20	6.00	1.44	4.01	2.85	1.44	4.250
SSCC062515	0.359375	DA20	6.00	1.44	4.01	2.85	1.44	4.250
SSCC062516	0.375000	DA20	6.00	1.44	4.01	2.85	1.44	4.250
SSCC625600	0.125000	DA20	5.69	1.15	4.00	2.94	1.62	4.250
SSCC625601	0.140625	DA20	5.69	1.15	4.00	2.94	1.62	4.250
SSCC625602	0.156250	DA20	5.69	1.15	4.00	2.94	1.62	4.250
SSCC625603	0.171875	DA20	5.69	1.15	4.00	2.94	1.62	4.250
SSCC625604	0.187500	DA20	5.69	1.15	4.00	2.94	1.62	4.250
SSCC625605	0.203125	DA20	5.69	1.15	4.00	2.94	1.62	4.250
SSCC625606	0.218750	DA20	5.69	1.15	4.00	2.94	1.62	4.250
SSCC625607	0.234375	DA20	5.69	1.15	4.00	2.94	1.62	4.250
SSCC625608	0.250000	DA20	5.69	1.15	4.00	2.94	1.62	4.250
SSCC625609	0.265625	DA20	5.69	1.15	4.00	2.94	1.62	4.250
SSCC625610	0.281250	DA20	5.69	1.15	4.00	2.94	1.62	4.250
SSCC625611	0.296875	DA20	5.69	1.15	4.00	2.94	1.62	4.250
SSCC625612	0.312500	DA20	5.69	1.15	4.00	2.94	1.62	4.250

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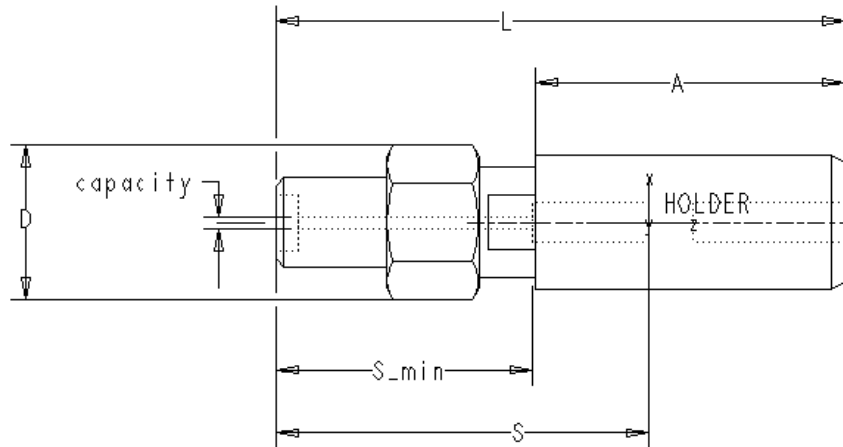
## STRAIGHT SHANK TOOLHOLDERS

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Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC625613	0.328125	DA20	5.69	1.15	4.00	2.94	1.62	4.250
SSCC625614	0.343750	DA20	5.69	1.15	4.00	2.94	1.62	4.250
SSCC625615	0.359375	DA20	5.69	1.15	4.00	2.94	1.62	4.250
SSCC625616	0.375000	DA20	5.69	1.15	4.00	2.94	1.62	4.250

## STRAIGHT SHANK TOOLHOLDERS

### 3/4" DIAMETER SHANK, 1/64" THRU 9/16" TOOL SHANK CAPACITY



#### Generic Part Name: SSCC075

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC075100	0.031250	DA30	3.44	0.87	1.98	2.22	1.44	3.000
SSCC075101	0.046875	DA30	3.44	0.87	1.98	2.22	1.44	3.000
SSCC075102	0.062500	DA30	3.44	0.87	1.98	2.22	1.44	3.000
SSCC075103	0.078125	DA30	3.44	0.87	1.98	2.22	1.44	3.000
SSCC075104	0.093750	DA30	3.44	0.87	1.98	2.22	1.44	3.000
SSCC075105	0.109375	DA30	3.44	0.87	1.98	2.22	1.44	3.000
SSCC075106	0.125000	DA30	3.44	0.87	1.98	2.22	1.44	3.000
SSCC075107	0.140625	DA30	3.44	0.87	1.98	2.22	1.44	3.000
SSCC075108	0.156250	DA30	3.44	0.87	1.98	2.22	1.44	3.000
SSCC075109	0.171875	DA30	3.44	0.87	1.98	2.22	1.44	3.000
SSCC075110	0.187500	DA30	3.44	0.87	1.98	2.22	1.44	3.000
SSCC075111	0.203125	DA30	3.44	0.87	1.98	2.22	1.44	3.000
SSCC075112	0.218750	DA30	3.44	0.87	1.98	2.22	1.44	3.000
SSCC075113	0.234375	DA30	3.44	0.87	1.98	2.22	1.44	3.000
SSCC075114	0.250000	DA30	3.44	0.87	1.98	2.22	1.44	3.000
SSCC075200	0.031250	DA30	5.44	0.87	3.98	3.22	1.44	5.000
SSCC075201	0.046875	DA30	5.44	0.87	3.98	3.22	1.44	5.000
SSCC075202	0.062500	DA30	5.44	0.87	3.98	3.22	1.44	5.000
SSCC075203	0.078125	DA30	5.44	0.87	3.98	3.22	1.44	5.000
SSCC075204	0.093750	DA30	5.44	0.87	3.98	3.22	1.44	5.000

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC075205	0.109375	DA30	5.44	0.87	3.98	3.22	1.44	5.000
SSCC075206	0.125000	DA30	5.44	0.87	3.98	3.22	1.44	5.000
SSCC075207	0.140625	DA30	5.44	0.87	3.98	3.22	1.44	5.000
SSCC075208	0.156250	DA30	5.44	0.87	3.98	3.22	1.44	5.000
SSCC075209	0.171875	DA30	5.44	0.87	3.98	3.22	1.44	5.000
SSCC075210	0.187500	DA30	5.44	0.87	3.98	3.22	1.44	5.000
SSCC075211	0.203125	DA30	5.44	0.87	3.98	3.22	1.44	5.000
SSCC075212	0.218750	DA30	5.44	0.87	3.98	3.22	1.44	5.000
SSCC075213	0.234375	DA30	5.44	0.87	3.98	3.22	1.44	5.000
SSCC075214	0.250000	DA30	5.44	0.87	3.98	3.22	1.44	5.000
SSCC075300	0.031250	DA30	5.16	0.79	4.24	2.88	1.50	4.250
SSCC075301	0.046875	DA30	5.16	0.79	4.24	2.88	1.50	4.250
SSCC075302	0.062500	DA30	5.16	0.79	4.24	2.88	1.50	4.250
SSCC075303	0.078125	DA30	5.16	0.79	4.24	2.88	1.50	4.250
SSCC075304	0.093750	DA30	5.16	0.79	4.24	2.88	1.50	4.250
SSCC075305	0.109375	DA30	5.16	0.79	4.24	2.88	1.50	4.250
SSCC075306	0.125000	DA30	5.16	0.79	4.24	2.88	1.50	4.250
SSCC075307	0.140625	DA30	5.16	0.79	4.24	2.88	1.50	4.250
SSCC075308	0.156250	DA30	5.16	0.79	4.24	2.88	1.50	4.250
SSCC075309	0.171875	DA30	5.16	0.79	4.24	2.88	1.50	4.250
SSCC075310	0.187500	DA30	5.16	0.79	4.24	2.88	1.50	4.250
SSCC075311	0.203125	DA30	5.16	0.79	4.24	2.88	1.50	4.250
SSCC075312	0.218750	DA30	5.16	0.79	4.24	2.88	1.50	4.250
SSCC075313	0.234375	DA30	5.16	0.79	4.24	2.88	1.50	4.250
SSCC075314	0.250000	DA30	5.16	0.79	4.24	2.88	1.50	4.250
SSCC075400	0.125000	DA20	6.00	1.44	4.00	2.91	1.69	4.120
SSCC075401	0.140625	DA20	6.00	1.44	4.00	2.91	1.69	4.120
SSCC075402	0.156250	DA20	6.00	1.44	4.00	2.91	1.69	4.120
SSCC075403	0.171875	DA20	6.00	1.44	4.00	2.91	1.69	4.120
SSCC075404	0.187500	DA20	6.00	1.44	4.00	2.91	1.69	4.120
SSCC075405	0.203125	DA20	6.00	1.44	4.00	2.91	1.69	4.120
SSCC075406	0.218750	DA20	6.00	1.44	4.00	2.91	1.69	4.120
SSCC075407	0.234375	DA20	6.00	1.44	4.00	2.91	1.69	4.120
SSCC075408	0.250000	DA20	6.00	1.44	4.00	2.91	1.69	4.120
SSCC075409	0.265625	DA20	6.00	1.44	4.00	2.91	1.69	4.120
SSCC075410	0.281250	DA20	6.00	1.44	4.00	2.91	1.69	4.120

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC075411	0.296875	DA20	6.00	1.44	4.00	2.91	1.69	4.120
SSCC075412	0.312500	DA20	6.00	1.44	4.00	2.91	1.69	4.120
SSCC075413	0.328125	DA20	6.00	1.44	4.00	2.91	1.69	4.120
SSCC075414	0.343750	DA20	6.00	1.44	4.00	2.91	1.69	4.120
SSCC075415	0.359375	DA20	6.00	1.44	4.00	2.91	1.69	4.120
SSCC075416	0.375000	DA20	6.00	1.44	4.00	2.91	1.69	4.120
SSCC075500	0.125000	DA20	4.69	0.84	3.03	3.16	1.56	4.750
SSCC075501	0.140625	DA20	4.69	0.84	3.03	3.16	1.56	4.750
SSCC075502	0.156250	DA20	4.69	0.84	3.03	3.16	1.56	4.750
SSCC075503	0.171875	DA20	4.69	0.84	3.03	3.16	1.56	4.750
SSCC075504	0.187500	DA20	4.69	0.84	3.03	3.16	1.56	4.750
SSCC075505	0.203125	DA20	4.69	0.84	3.03	3.16	1.56	4.750
SSCC075506	0.218750	DA20	4.69	0.84	3.03	3.16	1.56	4.750
SSCC075507	0.234375	DA20	4.69	0.84	3.03	3.16	1.56	4.750
SSCC075508	0.250000	DA20	4.69	0.84	3.03	3.16	1.56	4.750
SSCC075509	0.265625	DA20	4.69	0.84	3.03	3.16	1.56	4.750
SSCC075510	0.281250	DA20	4.69	0.84	3.03	3.16	1.56	4.750
SSCC075511	0.296875	DA20	4.69	0.84	3.03	3.16	1.56	4.750
SSCC075512	0.312500	DA20	4.69	0.84	3.03	3.16	1.56	4.750
SSCC075513	0.328125	DA20	4.69	0.84	3.03	3.16	1.56	4.750
SSCC075514	0.343750	DA20	4.69	0.84	3.03	3.16	1.56	4.750
SSCC075515	0.359375	DA20	4.69	0.84	3.03	3.16	1.56	4.750
SSCC075516	0.375000	DA20	4.69	0.84	3.03	3.16	1.56	4.750
SSCC075600	0.125000	DA20	7.12	0.84	5.50	3.16	1.56	4.750
SSCC075601	0.140625	DA20	7.12	0.84	5.50	3.16	1.56	4.750
SSCC075602	0.156250	DA20	7.12	0.84	5.50	3.16	1.56	4.750
SSCC075603	0.171875	DA20	7.12	0.84	5.50	3.16	1.56	4.750
SSCC075604	0.187500	DA20	7.12	0.84	5.50	3.16	1.56	4.750
SSCC075605	0.203125	DA20	7.12	0.84	5.50	3.16	1.56	4.750
SSCC075606	0.218750	DA20	7.12	0.84	5.50	3.16	1.56	4.750
SSCC075607	0.234375	DA20	7.12	0.84	5.50	3.16	1.56	4.750
SSCC075608	0.250000	DA20	7.12	0.84	5.50	3.16	1.56	4.750
SSCC075609	0.265625	DA20	7.12	0.84	5.50	3.16	1.56	4.750
SSCC075610	0.281250	DA20	7.12	0.84	5.50	3.16	1.56	4.750
SSCC075611	0.296875	DA20	7.12	0.84	5.50	3.16	1.56	4.750
SSCC075612	0.312500	DA20	7.12	0.84	5.50	3.16	1.56	4.750

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC075613	0.328125	DA20	7.12	0.84	5.50	3.16	1.56	4.750
SSCC075614	0.343750	DA20	7.12	0.84	5.50	3.16	1.56	4.750
SSCC075615	0.359375	DA20	7.12	0.84	5.50	3.16	1.56	4.750
SSCC075616	0.375000	DA20	7.12	0.84	5.50	3.16	1.56	4.750
SSCC075700	0.125000	DA20	5.31	1.15	4.00	2.87	1.62	4.120
SSCC075701	0.140625	DA20	5.31	1.15	4.00	2.87	1.62	4.120
SSCC075702	0.156250	DA20	5.31	1.15	4.00	2.87	1.62	4.120
SSCC075703	0.171875	DA20	5.31	1.15	4.00	2.87	1.62	4.120
SSCC075704	0.187500	DA20	5.31	1.15	4.00	2.87	1.62	4.120
SSCC075705	0.203125	DA20	5.31	1.15	4.00	2.87	1.62	4.120
SSCC075706	0.218750	DA20	5.31	1.15	4.00	2.87	1.62	4.120
SSCC075707	0.234375	DA20	5.31	1.15	4.00	2.87	1.62	4.120
SSCC075708	0.250000	DA20	5.31	1.15	4.00	2.87	1.62	4.120
SSCC075709	0.265625	DA20	5.31	1.15	4.00	2.87	1.62	4.120
SSCC075710	0.281250	DA20	5.31	1.15	4.00	2.87	1.62	4.120
SSCC075711	0.296875	DA20	5.31	1.15	4.00	2.87	1.62	4.120
SSCC075712	0.312500	DA20	5.31	1.15	4.00	2.87	1.62	4.120
SSCC075713	0.328125	DA20	5.31	1.15	4.00	2.87	1.62	4.120
SSCC075714	0.343750	DA20	5.31	1.15	4.00	2.87	1.62	4.120
SSCC075715	0.359375	DA20	5.31	1.15	4.00	2.87	1.62	4.120
SSCC075716	0.375000	DA20	5.31	1.15	4.00	2.87	1.62	4.120
SSCC075800	0.250000	DA10	6.50	1.73	3.97	3.75	1.75	5.750
SSCC075801	0.265625	DA10	6.50	1.73	3.97	3.75	1.75	5.750
SSCC075802	0.281250	DA10	6.50	1.73	3.97	3.75	1.75	5.750
SSCC075803	0.296875	DA10	6.50	1.73	3.97	3.75	1.75	5.750
SSCC075804	0.312500	DA10	6.50	1.73	3.97	3.75	1.75	5.750
SSCC075805	0.328125	DA10	6.50	1.73	3.97	3.75	1.75	5.750
SSCC075806	0.343750	DA10	6.50	1.73	3.97	3.75	1.75	5.750
SSCC075807	0.359375	DA10	6.50	1.73	3.97	3.75	1.75	5.750
SSCC075808	0.375000	DA10	6.50	1.73	3.97	3.75	1.75	5.750
SSCC075809	0.390625	DA10	6.50	1.73	3.97	3.75	1.75	5.750
SSCC075810	0.406250	DA10	6.50	1.73	3.97	3.75	1.75	5.750
SSCC075811	0.421875	DA10	6.50	1.73	3.97	3.75	1.75	5.750
SSCC075812	0.437500	DA10	6.50	1.73	3.97	3.75	1.75	5.750
SSCC075813	0.453125	DA10	6.50	1.73	3.97	3.75	1.75	5.750
SSCC075814	0.468750	DA10	6.50	1.73	3.97	3.75	1.75	5.750

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## STRAIGHT SHANK TOOLHOLDERS

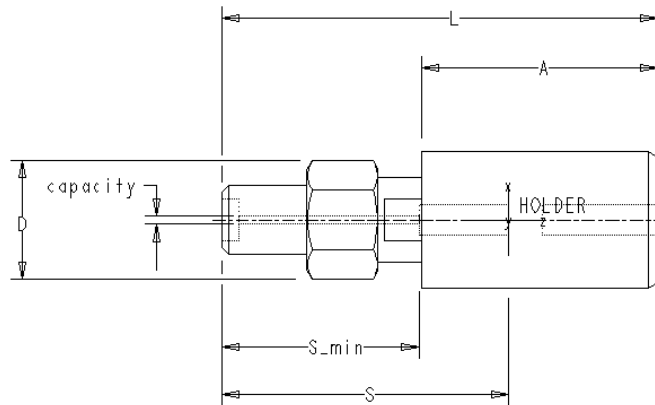
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Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC075815	0.484375	DA10	6.50	1.73	3.97	3.75	1.75	5.750
SSCC075816	0.500000	DA10	6.50	1.73	3.97	3.75	1.75	5.750
SSCC075817	0.515625	DA10	6.50	1.73	3.97	3.75	1.75	5.750
SSCC075818	0.531250	DA10	6.50	1.73	3.97	3.75	1.75	5.750
SSCC075819	0.546875	DA10	6.50	1.73	3.97	3.75	1.75	5.750
SSCC075820	0.562500	DA10	6.50	1.73	3.97	3.75	1.75	5.750
SSCC075900	0.250000	DA10	5.88	1.42	4.00	3.56	1.81	5.310
SSCC075901	0.265625	DA10	5.88	1.42	4.00	3.56	1.81	5.310
SSCC075902	0.281250	DA10	5.88	1.42	4.00	3.56	1.81	5.310
SSCC075903	0.296875	DA10	5.88	1.42	4.00	3.56	1.81	5.310
SSCC075904	0.312500	DA10	5.88	1.42	4.00	3.56	1.81	5.310
SSCC075905	0.328125	DA10	5.88	1.42	4.00	3.56	1.81	5.310
SSCC075906	0.343750	DA10	5.88	1.42	4.00	3.56	1.81	5.310
SSCC075907	0.359375	DA10	5.88	1.42	4.00	3.56	1.81	5.310
SSCC075908	0.375000	DA10	5.88	1.42	4.00	3.56	1.81	5.310
SSCC075909	0.390625	DA10	5.88	1.42	4.00	3.56	1.81	5.310
SSCC075910	0.406250	DA10	5.88	1.42	4.00	3.56	1.81	5.310
SSCC075911	0.421875	DA10	5.88	1.42	4.00	3.56	1.81	5.310
SSCC075912	0.437500	DA10	5.88	1.42	4.00	3.56	1.81	5.310
SSCC075913	0.453125	DA10	5.88	1.42	4.00	3.56	1.81	5.310
SSCC075914	0.468750	DA10	5.88	1.42	4.00	3.56	1.81	5.310
SSCC075915	0.484375	DA10	5.88	1.42	4.00	3.56	1.81	5.310
SSCC075916	0.500000	DA10	5.88	1.42	4.00	3.56	1.81	5.310
SSCC075917	0.515625	DA10	5.88	1.42	4.00	3.56	1.81	5.310
SSCC075918	0.531250	DA10	5.88	1.42	4.00	3.56	1.81	5.310
SSCC075919	0.546875	DA10	5.88	1.42	4.00	3.56	1.81	5.310
SSCC075920	0.562500	DA10	5.88	1.42	4.00	3.56	1.81	5.310

## STRAIGHT SHANK TOOLHOLDERS

### 1" DIAMETER SHANK, 1/64" THRU 3/4" TOOL SHANK CAPACITY



### Generic Part Name: SSCC100

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC100100	0.031250	DA30	5.44	0.87	4.00	2.85	1.44	4.250
SSCC100101	0.046875	DA30	5.44	0.87	4.00	2.85	1.44	4.250
SSCC100102	0.062500	DA30	5.44	0.87	4.00	2.85	1.44	4.250
SSCC100103	0.078125	DA30	5.44	0.87	4.00	2.85	1.44	4.250
SSCC100104	0.093750	DA30	5.44	0.87	4.00	2.85	1.44	4.250
SSCC100105	0.109375	DA30	5.44	0.87	4.00	2.85	1.44	4.250
SSCC100106	0.125000	DA30	5.44	0.87	4.00	2.85	1.44	4.250
SSCC100107	0.140625	DA30	5.44	0.87	4.00	2.85	1.44	4.250
SSCC100108	0.156250	DA30	5.44	0.87	4.00	2.85	1.44	4.250
SSCC100109	0.171875	DA30	5.44	0.87	4.00	2.85	1.44	4.250
SSCC100110	0.187500	DA30	5.44	0.87	4.00	2.85	1.44	4.250
SSCC100111	0.203125	DA30	5.44	0.87	4.00	2.85	1.44	4.250
SSCC100112	0.218750	DA30	5.44	0.87	4.00	2.85	1.44	4.250
SSCC100113	0.234375	DA30	5.44	0.87	4.00	2.85	1.44	4.250
SSCC100114	0.250000	DA30	5.44	0.87	4.00	2.85	1.44	4.250
SSCC100200	0.031250	DA30	5.16	0.79	4.00	2.88	1.50	4.250
SSCC100201	0.046875	DA30	5.16	0.79	4.00	2.88	1.50	4.250
SSCC100202	0.062500	DA30	5.16	0.79	4.00	2.88	1.50	4.250
SSCC100203	0.078125	DA30	5.16	0.79	4.00	2.88	1.50	4.250
SSCC100204	0.093750	DA30	5.16	0.79	4.00	2.88	1.50	4.250
SSCC100205	0.109375	DA30	5.16	0.79	4.00	2.88	1.50	4.250

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC100206	0.125000	DA30	5.16	0.79	4.00	2.88	1.50	4.250
SSCC100207	0.140625	DA30	5.16	0.79	4.00	2.88	1.50	4.250
SSCC100208	0.156250	DA30	5.16	0.79	4.00	2.88	1.50	4.250
SSCC100209	0.171875	DA30	5.16	0.79	4.00	2.88	1.50	4.250
SSCC100210	0.187500	DA30	5.16	0.79	4.00	2.88	1.50	4.250
SSCC100211	0.203125	DA30	5.16	0.79	4.00	2.88	1.50	4.250
SSCC100212	0.218750	DA30	5.16	0.79	4.00	2.88	1.50	4.250
SSCC100213	0.234375	DA30	5.16	0.79	4.00	2.88	1.50	4.250
SSCC100214	0.250000	DA30	5.16	0.79	4.00	2.88	1.50	4.250
SSCC100300	0.125000	DA20	6.00	1.44	4.00	2.91	1.69	4.120
SSCC100301	0.140625	DA20	6.00	1.44	4.00	2.91	1.69	4.120
SSCC100302	0.156250	DA20	6.00	1.44	4.00	2.91	1.69	4.120
SSCC100303	0.171875	DA20	6.00	1.44	4.00	2.91	1.69	4.120
SSCC100304	0.187500	DA20	6.00	1.44	4.00	2.91	1.69	4.120
SSCC100305	0.203125	DA20	6.00	1.44	4.00	2.91	1.69	4.120
SSCC100306	0.218750	DA20	6.00	1.44	4.00	2.91	1.69	4.120
SSCC100307	0.234375	DA20	6.00	1.44	4.00	2.91	1.69	4.120
SSCC100308	0.250000	DA20	6.00	1.44	4.00	2.91	1.69	4.120
SSCC100309	0.265625	DA20	6.00	1.44	4.00	2.91	1.69	4.120
SSCC100310	0.281250	DA20	6.00	1.44	4.00	2.91	1.69	4.120
SSCC100311	0.296875	DA20	6.00	1.44	4.00	2.91	1.69	4.120
SSCC100312	0.312500	DA20	6.00	1.44	4.00	2.91	1.69	4.120
SSCC100313	0.328125	DA20	6.00	1.44	4.00	2.91	1.69	4.120
SSCC100314	0.343750	DA20	6.00	1.44	4.00	2.91	1.69	4.120
SSCC100315	0.359375	DA20	6.00	1.44	4.00	2.91	1.69	4.120
SSCC100316	0.375000	DA20	6.00	1.44	4.00	2.91	1.69	4.120
SSCC100400	0.125000	DA20	5.31	1.15	4.00	2.91	1.62	4.120
SSCC100401	0.140625	DA20	5.31	1.15	4.00	2.91	1.62	4.120
SSCC100402	0.156250	DA20	5.31	1.15	4.00	2.91	1.62	4.120
SSCC100403	0.171875	DA20	5.31	1.15	4.00	2.91	1.62	4.120
SSCC100404	0.187500	DA20	5.31	1.15	4.00	2.91	1.62	4.120
SSCC100405	0.203125	DA20	5.31	1.15	4.00	2.91	1.62	4.120
SSCC100406	0.218750	DA20	5.31	1.15	4.00	2.91	1.62	4.120
SSCC100407	0.234375	DA20	5.31	1.15	4.00	2.91	1.62	4.120
SSCC100408	0.250000	DA20	5.31	1.15	4.00	2.91	1.62	4.120
SSCC100409	0.265625	DA20	5.31	1.15	4.00	2.91	1.62	4.120

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC100410	0.281250	DA20	5.31	1.15	4.00	2.91	1.62	4.120
SSCC100411	0.296875	DA20	5.31	1.15	4.00	2.91	1.62	4.120
SSCC100412	0.312500	DA20	5.31	1.15	4.00	2.91	1.62	4.120
SSCC100413	0.328125	DA20	5.31	1.15	4.00	2.91	1.62	4.120
SSCC100414	0.343750	DA20	5.31	1.15	4.00	2.91	1.62	4.120
SSCC100415	0.359375	DA20	5.31	1.15	4.00	2.91	1.62	4.120
SSCC100416	0.375000	DA20	5.31	1.15	4.00	2.91	1.62	4.120
SSCC100500	0.250000	DA10	6.50	1.73	4.00	3.75	1.88	5.620
SSCC100501	0.265625	DA10	6.50	1.73	4.00	3.75	1.88	5.620
SSCC100502	0.281250	DA10	6.50	1.73	4.00	3.75	1.88	5.620
SSCC100503	0.296875	DA10	6.50	1.73	4.00	3.75	1.88	5.620
SSCC100504	0.312500	DA10	6.50	1.73	4.00	3.75	1.88	5.620
SSCC100505	0.328125	DA10	6.50	1.73	4.00	3.75	1.88	5.620
SSCC100506	0.343750	DA10	6.50	1.73	4.00	3.75	1.88	5.620
SSCC100507	0.359375	DA10	6.50	1.73	4.00	3.75	1.88	5.620
SSCC100508	0.375000	DA10	6.50	1.73	4.00	3.75	1.88	5.620
SSCC100509	0.390625	DA10	6.50	1.73	4.00	3.75	1.88	5.620
SSCC100510	0.406250	DA10	6.50	1.73	4.00	3.75	1.88	5.620
SSCC100511	0.421875	DA10	6.50	1.73	4.00	3.75	1.88	5.620
SSCC100512	0.437500	DA10	6.50	1.73	4.00	3.75	1.88	5.620
SSCC100513	0.453125	DA10	6.50	1.73	4.00	3.75	1.88	5.620
SSCC100514	0.468750	DA10	6.50	1.73	4.00	3.75	1.88	5.620
SSCC100515	0.484375	DA10	6.50	1.73	4.00	3.75	1.88	5.620
SSCC100516	0.500000	DA10	6.50	1.73	4.00	3.75	1.88	5.620
SSCC100517	0.515625	DA10	6.50	1.73	4.00	3.75	1.88	5.620
SSCC100518	0.531250	DA10	6.50	1.73	4.00	3.75	1.88	5.620
SSCC100519	0.546875	DA10	6.50	1.73	4.00	3.75	1.88	5.620
SSCC100520	0.562500	DA10	6.50	1.73	4.00	3.75	1.88	5.620
SSCC100600	0.250000	DA10	4.88	1.06	2.97	3.07	1.94	4.190
SSCC100601	0.265625	DA10	4.88	1.06	2.97	3.07	1.94	4.190
SSCC100602	0.281250	DA10	4.88	1.06	2.97	3.07	1.94	4.190
SSCC100603	0.296875	DA10	4.88	1.06	2.97	3.07	1.94	4.190
SSCC100604	0.312500	DA10	4.88	1.06	2.97	3.07	1.94	4.190
SSCC100605	0.328125	DA10	4.88	1.06	2.97	3.07	1.94	4.190
SSCC100606	0.343750	DA10	4.88	1.06	2.97	3.07	1.94	4.190
SSCC100607	0.359375	DA10	4.88	1.06	2.97	3.07	1.94	4.190

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC100608	0.375000	DA10	4.88	1.06	2.97	3.07	1.94	4.190
SSCC100609	0.390625	DA10	4.88	1.06	2.97	3.07	1.94	4.190
SSCC100610	0.406250	DA10	4.88	1.06	2.97	3.07	1.94	4.190
SSCC100611	0.421875	DA10	4.88	1.06	2.97	3.07	1.94	4.190
SSCC100612	0.437500	DA10	4.88	1.06	2.97	3.07	1.94	4.190
SSCC100613	0.453125	DA10	4.88	1.06	2.97	3.07	1.94	4.190
SSCC100614	0.468750	DA10	4.88	1.06	2.97	3.07	1.94	4.190
SSCC100615	0.484375	DA10	4.88	1.06	2.97	3.07	1.94	4.190
SSCC100616	0.500000	DA10	4.88	1.06	2.97	3.07	1.94	4.190
SSCC100617	0.515625	DA10	4.88	1.06	2.97	3.07	1.94	4.190
SSCC100618	0.531250	DA10	4.88	1.06	2.97	3.07	1.94	4.190
SSCC100619	0.546875	DA10	4.88	1.06	2.97	3.07	1.94	4.190
SSCC100620	0.562500	DA10	4.88	1.06	2.97	3.07	1.94	4.190
SSCC100700	0.250000	DA10	7.31	1.06	5.40	4.28	1.94	6.620
SSCC100701	0.265625	DA10	7.31	1.06	5.40	4.28	1.94	6.620
SSCC100702	0.281250	DA10	7.31	1.06	5.40	4.28	1.94	6.620
SSCC100703	0.296875	DA10	7.31	1.06	5.40	4.28	1.94	6.620
SSCC100704	0.312500	DA10	7.31	1.06	5.40	4.28	1.94	6.620
SSCC100705	0.328125	DA10	7.31	1.06	5.40	4.28	1.94	6.620
SSCC100706	0.343750	DA10	7.31	1.06	5.40	4.28	1.94	6.620
SSCC100707	0.359375	DA10	7.31	1.06	5.40	4.28	1.94	6.620
SSCC100708	0.375000	DA10	7.31	1.06	5.40	4.28	1.94	6.620
SSCC100709	0.390625	DA10	7.31	1.06	5.40	4.28	1.94	6.620
SSCC100710	0.406250	DA10	7.31	1.06	5.40	4.28	1.94	6.620
SSCC100711	0.421875	DA10	7.31	1.06	5.40	4.28	1.94	6.620
SSCC100712	0.437500	DA10	7.31	1.06	5.40	4.28	1.94	6.620
SSCC100713	0.453125	DA10	7.31	1.06	5.40	4.28	1.94	6.620
SSCC100714	0.468750	DA10	7.31	1.06	5.40	4.28	1.94	6.620
SSCC100715	0.484375	DA10	7.31	1.06	5.40	4.28	1.94	6.620
SSCC100716	0.500000	DA10	7.31	1.06	5.40	4.28	1.94	6.620
SSCC100717	0.515625	DA10	7.31	1.06	5.40	4.28	1.94	6.620
SSCC100718	0.531250	DA10	7.31	1.06	5.40	4.28	1.94	6.620
SSCC100719	0.546875	DA10	7.31	1.06	5.40	4.28	1.94	6.620
SSCC100720	0.562500	DA10	7.31	1.06	5.40	4.28	1.94	6.620
SSCC100800	0.250000	DA10	5.56	1.44	4.00	3.41	1.94	4.880
SSCC100801	0.265625	DA10	5.56	1.44	4.00	3.41	1.94	4.880

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC100802	0.281250	DA10	5.56	1.44	4.00	3.41	1.94	4.880
SSCC100803	0.296875	DA10	5.56	1.44	4.00	3.41	1.94	4.880
SSCC100804	0.312500	DA10	5.56	1.44	4.00	3.41	1.94	4.880
SSCC100805	0.328125	DA10	5.56	1.44	4.00	3.41	1.94	4.880
SSCC100806	0.343750	DA10	5.56	1.44	4.00	3.41	1.94	4.880
SSCC100807	0.359375	DA10	5.56	1.44	4.00	3.41	1.94	4.880
SSCC100808	0.375000	DA10	5.56	1.44	4.00	3.41	1.94	4.880
SSCC100809	0.390625	DA10	5.56	1.44	4.00	3.41	1.94	4.880
SSCC100810	0.406250	DA10	5.56	1.44	4.00	3.41	1.94	4.880
SSCC100811	0.421875	DA10	5.56	1.44	4.00	3.41	1.94	4.880
SSCC100812	0.437500	DA10	5.56	1.44	4.00	3.41	1.94	4.880
SSCC100813	0.453125	DA10	5.56	1.44	4.00	3.41	1.94	4.880
SSCC100814	0.468750	DA10	5.56	1.44	4.00	3.41	1.94	4.880
SSCC100815	0.484375	DA10	5.56	1.44	4.00	3.41	1.94	4.880
SSCC100816	0.500000	DA10	5.56	1.44	4.00	3.41	1.94	4.880
SSCC100817	0.515625	DA10	5.56	1.44	4.00	3.41	1.94	4.880
SSCC100818	0.531250	DA10	5.56	1.44	4.00	3.41	1.94	4.880
SSCC100819	0.546875	DA10	5.56	1.44	4.00	3.41	1.94	4.880
SSCC100820	0.562500	DA10	5.56	1.44	4.00	3.41	1.94	4.880
SSCC100900	0.250000	DA18	6.38	2.02	4.00	3.69	1.75	5.620
SSCC100901	0.265625	DA18	6.38	2.02	4.00	3.69	1.75	5.620
SSCC100902	0.281250	DA18	6.38	2.02	4.00	3.69	1.75	5.620
SSCC100903	0.296875	DA18	6.38	2.02	4.00	3.69	1.75	5.620
SSCC100904	0.312500	DA18	6.38	2.02	4.00	3.69	1.75	5.620
SSCC100905	0.328125	DA18	6.38	2.02	4.00	3.69	1.75	5.620
SSCC100906	0.343750	DA18	6.38	2.02	4.00	3.69	1.75	5.620
SSCC100907	0.359375	DA18	6.38	2.02	4.00	3.69	1.75	5.620
SSCC100908	0.375000	DA18	6.38	2.02	4.00	3.69	1.75	5.620
SSCC100909	0.390625	DA18	6.38	2.02	4.00	3.69	1.75	5.620
SSCC100910	0.406250	DA18	6.38	2.02	4.00	3.69	1.75	5.620
SSCC100911	0.421875	DA18	6.38	2.02	4.00	3.69	1.75	5.620
SSCC100912	0.437500	DA18	6.38	2.02	4.00	3.69	1.75	5.620
SSCC100913	0.453125	DA18	6.38	2.02	4.00	3.69	1.75	5.620
SSCC100914	0.468750	DA18	6.38	2.02	4.00	3.69	1.75	5.620
SSCC100915	0.484375	DA18	6.38	2.02	4.00	3.69	1.75	5.620
SSCC100916	0.500000	DA18	6.38	2.02	4.00	3.69	1.75	5.620

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC100917	0.515625	DA18	6.38	2.02	4.00	3.69	1.75	5.620
SSCC100918	0.531250	DA18	6.38	2.02	4.00	3.69	1.75	5.620
SSCC100919	0.546875	DA18	6.38	2.02	4.00	3.69	1.75	5.620
SSCC100920	0.562500	DA18	6.38	2.02	4.00	3.69	1.75	5.620
SSCC100921	0.578125	DA18	6.38	2.02	4.00	3.69	1.75	5.620
SSCC100922	0.593750	DA18	6.38	2.02	4.00	3.69	1.75	5.620
SSCC100923	0.609375	DA18	6.38	2.02	4.00	3.69	1.75	5.620
SSCC100924	0.625000	DA18	6.38	2.02	4.00	3.69	1.75	5.620
SSCC100925	0.640625	DA18	6.38	2.02	4.00	3.69	1.75	5.620
SSCC100926	0.656250	DA18	6.38	2.02	4.00	3.69	1.75	5.620
SSCC100927	0.671875	DA18	6.38	2.02	4.00	3.69	1.75	5.620
SSCC100928	0.687500	DA18	6.38	2.02	4.00	3.69	1.75	5.620
SSCC100929	0.703125	DA18	6.38	2.02	4.00	3.69	1.75	5.620
SSCC100930	0.718750	DA18	6.38	2.02	4.00	3.69	1.75	5.620
SSCC100931	0.734375	DA18	6.38	2.02	4.00	3.69	1.75	5.620
SSCC100932	0.750000	DA18	6.38	2.02	4.00	3.69	1.75	5.620
SSCC101000	0.250000	DA18	6.38	1.73	4.00	3.78	1.94	5.620
SSCC101001	0.265625	DA18	6.38	1.73	4.00	3.78	1.94	5.620
SSCC101002	0.281250	DA18	6.38	1.73	4.00	3.78	1.94	5.620
SSCC101003	0.296875	DA18	6.38	1.73	4.00	3.78	1.94	5.620
SSCC101004	0.312500	DA18	6.38	1.73	4.00	3.78	1.94	5.620
SSCC101005	0.328125	DA18	6.38	1.73	4.00	3.78	1.94	5.620
SSCC101006	0.343750	DA18	6.38	1.73	4.00	3.78	1.94	5.620
SSCC101007	0.359375	DA18	6.38	1.73	4.00	3.78	1.94	5.620
SSCC101008	0.375000	DA18	6.38	1.73	4.00	3.78	1.94	5.620
SSCC101009	0.390625	DA18	6.38	1.73	4.00	3.78	1.94	5.620
SSCC101010	0.406250	DA18	6.38	1.73	4.00	3.78	1.94	5.620
SSCC101011	0.421875	DA18	6.38	1.73	4.00	3.78	1.94	5.620
SSCC101012	0.437500	DA18	6.38	1.73	4.00	3.78	1.94	5.620
SSCC101013	0.453125	DA18	6.38	1.73	4.00	3.78	1.94	5.620
SSCC101014	0.468750	DA18	6.38	1.73	4.00	3.78	1.94	5.620
SSCC101015	0.484375	DA18	6.38	1.73	4.00	3.78	1.94	5.620
SSCC101016	0.500000	DA18	6.38	1.73	4.00	3.78	1.94	5.620
SSCC101017	0.515625	DA18	6.38	1.73	4.00	3.78	1.94	5.620
SSCC101018	0.531250	DA18	6.38	1.73	4.00	3.78	1.94	5.620
SSCC101019	0.546875	DA18	6.38	1.73	4.00	3.78	1.94	5.620

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## STRAIGHT SHANK TOOLHOLDERS

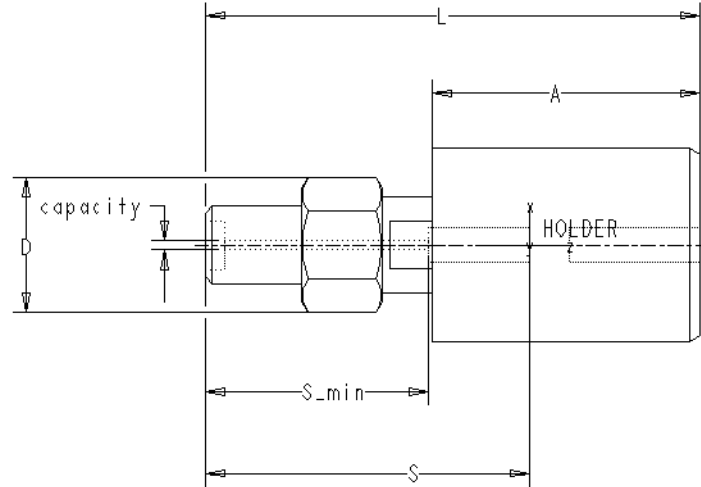
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Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC101020	0.562500	DA18	6.38	1.73	4.00	3.78	1.94	5.620
SSCC101021	0.578125	DA18	6.38	1.73	4.00	3.78	1.94	5.620
SSCC101022	0.593750	DA18	6.38	1.73	4.00	3.78	1.94	5.620
SSCC101023	0.609375	DA18	6.38	1.73	4.00	3.78	1.94	5.620
SSCC101024	0.625000	DA18	6.38	1.73	4.00	3.78	1.94	5.620
SSCC101025	0.640625	DA18	6.38	1.73	4.00	3.78	1.94	5.620
SSCC101026	0.656250	DA18	6.38	1.73	4.00	3.78	1.94	5.620
SSCC101027	0.671875	DA18	6.38	1.73	4.00	3.78	1.94	5.620
SSCC101028	0.687500	DA18	6.38	1.73	4.00	3.78	1.94	5.620
SSCC101029	0.703125	DA18	6.38	1.73	4.00	3.78	1.94	5.620
SSCC101030	0.718750	DA18	6.38	1.73	4.00	3.78	1.94	5.620
SSCC101031	0.734375	DA18	6.38	1.73	4.00	3.78	1.94	5.620
SSCC101032	0.750000	DA18	6.38	1.73	4.00	3.78	1.94	5.620

## STRAIGHT SHANK TOOLHOLDERS

### 1-1/4" DIAMETER SHANK, 1/8" THRU 1" TOOL SHANK CAPACITY



**Generic Part Name: SSCC125**

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC125100	0.125000	DA20	5.31	1.16	4.00	2.87	1.62	4.120
SSCC125101	0.140625	DA20	5.31	1.16	4.00	2.87	1.62	4.120
SSCC125102	0.156250	DA20	5.31	1.16	4.00	2.87	1.62	4.120
SSCC125103	0.171875	DA20	5.31	1.16	4.00	2.87	1.62	4.120
SSCC125104	0.187500	DA20	5.31	1.16	4.00	2.87	1.62	4.120
SSCC125105	0.203125	DA20	5.31	1.16	4.00	2.87	1.62	4.120
SSCC125106	0.218750	DA20	5.31	1.16	4.00	2.87	1.62	4.120
SSCC125107	0.234375	DA20	5.31	1.16	4.00	2.87	1.62	4.120
SSCC125108	0.250000	DA20	5.31	1.16	4.00	2.87	1.62	4.120
SSCC125109	0.265625	DA20	5.31	1.16	4.00	2.87	1.62	4.120
SSCC125110	0.281250	DA20	5.31	1.16	4.00	2.87	1.62	4.120
SSCC125111	0.296875	DA20	5.31	1.16	4.00	2.87	1.62	4.120
SSCC125112	0.312500	DA20	5.31	1.16	4.00	2.87	1.62	4.120
SSCC125113	0.328125	DA20	5.31	1.16	4.00	2.87	1.62	4.120
SSCC125114	0.343750	DA20	5.31	1.16	4.00	2.87	1.62	4.120
SSCC125115	0.359375	DA20	5.31	1.16	4.00	2.87	1.62	4.120
SSCC125116	0.375000	DA20	5.31	1.16	4.00	2.87	1.62	4.120
SSCC125200	0.250000	DA10	5.56	1.42	4.31	3.41	1.94	4.880
SSCC125201	0.265625	DA10	5.56	1.42	4.31	3.41	1.94	4.880
SSCC125202	0.281250	DA10	5.56	1.42	4.31	3.41	1.94	4.880

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC125203	0.296875	DA10	5.56	1.42	4.31	3.41	1.94	4.880
SSCC125204	0.312500	DA10	5.56	1.42	4.31	3.41	1.94	4.880
SSCC125205	0.328125	DA10	5.56	1.42	4.31	3.41	1.94	4.880
SSCC125206	0.343750	DA10	5.56	1.42	4.31	3.41	1.94	4.880
SSCC125207	0.359375	DA10	5.56	1.42	4.31	3.41	1.94	4.880
SSCC125208	0.375000	DA10	5.56	1.42	4.31	3.41	1.94	4.880
SSCC125209	0.390625	DA10	5.56	1.42	4.31	3.41	1.94	4.880
SSCC125210	0.406250	DA10	5.56	1.42	4.31	3.41	1.94	4.880
SSCC125211	0.421875	DA10	5.56	1.42	4.31	3.41	1.94	4.880
SSCC125212	0.437500	DA10	5.56	1.42	4.31	3.41	1.94	4.880
SSCC125213	0.453125	DA10	5.56	1.42	4.31	3.41	1.94	4.880
SSCC125214	0.468750	DA10	5.56	1.42	4.31	3.41	1.94	4.880
SSCC125215	0.484375	DA10	5.56	1.42	4.31	3.41	1.94	4.880
SSCC125216	0.500000	DA10	5.56	1.42	4.31	3.41	1.94	4.880
SSCC125217	0.515625	DA10	5.56	1.42	4.31	3.41	1.94	4.880
SSCC125218	0.531250	DA10	5.56	1.42	4.31	3.41	1.94	4.880
SSCC125219	0.546875	DA10	5.56	1.42	4.31	3.41	1.94	4.880
SSCC125220	0.562500	DA10	5.56	1.42	4.31	3.41	1.94	4.880
SSCC125300	0.250000	DA10	7.56	1.42	6.31	3.78	1.94	5.620
SSCC125301	0.265625	DA10	7.56	1.42	6.31	3.78	1.94	5.620
SSCC125302	0.281250	DA10	7.56	1.42	6.31	3.78	1.94	5.620
SSCC125303	0.296875	DA10	7.56	1.42	6.31	3.78	1.94	5.620
SSCC125304	0.312500	DA10	7.56	1.42	6.31	3.78	1.94	5.620
SSCC125305	0.328125	DA10	7.56	1.42	6.31	3.78	1.94	5.620
SSCC125306	0.343750	DA10	7.56	1.42	6.31	3.78	1.94	5.620
SSCC125307	0.359375	DA10	7.56	1.42	6.31	3.78	1.94	5.620
SSCC125308	0.375000	DA10	7.56	1.42	6.31	3.78	1.94	5.620
SSCC125309	0.390625	DA10	7.56	1.42	6.31	3.78	1.94	5.620
SSCC125310	0.406250	DA10	7.56	1.42	6.31	3.78	1.94	5.620
SSCC125311	0.421875	DA10	7.56	1.42	6.31	3.78	1.94	5.620
SSCC125312	0.437500	DA10	7.56	1.42	6.31	3.78	1.94	5.620
SSCC125313	0.453125	DA10	7.56	1.42	6.31	3.78	1.94	5.620
SSCC125314	0.468750	DA10	7.56	1.42	6.31	3.78	1.94	5.620
SSCC125315	0.484375	DA10	7.56	1.42	6.31	3.78	1.94	5.620
SSCC125316	0.500000	DA10	7.56	1.42	6.31	3.78	1.94	5.620
SSCC125317	0.515625	DA10	7.56	1.42	6.31	3.78	1.94	5.620

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC125318	0.531250	DA10	7.56	1.42	6.31	3.78	1.94	5.620
SSCC125319	0.546875	DA10	7.56	1.42	6.31	3.78	1.94	5.620
SSCC125320	0.562500	DA10	7.56	1.42	6.31	3.78	1.94	5.620
SSCC125400	0.250000	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC125401	0.265625	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC125402	0.281250	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC125403	0.296875	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC125404	0.312500	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC125405	0.328125	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC125406	0.343750	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC125407	0.359375	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC125408	0.375000	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC125409	0.390625	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC125410	0.406250	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC125411	0.421875	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC125412	0.437500	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC125413	0.453125	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC125414	0.468750	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC125415	0.484375	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC125416	0.500000	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC125417	0.515625	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC125418	0.531250	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC125419	0.546875	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC125420	0.562500	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC125421	0.578125	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC125422	0.593750	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC125423	0.609375	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC125424	0.625000	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC125425	0.640625	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC125426	0.656250	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC125427	0.671875	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC125428	0.687500	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC125429	0.703125	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC125430	0.718750	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC125431	0.734375	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC125432	0.750000	DA18	8.38	2.02	6.00	3.69	1.75	5.620

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC125500	0.250000	DA18	7.38	1.44	5.50	4.25	1.88	6.620
SSCC125501	0.265625	DA18	7.38	1.44	5.50	4.25	1.88	6.620
SSCC125502	0.281250	DA18	7.38	1.44	5.50	4.25	1.88	6.620
SSCC125503	0.296875	DA18	7.38	1.44	5.50	4.25	1.88	6.620
SSCC125504	0.312500	DA18	7.38	1.44	5.50	4.25	1.88	6.620
SSCC125505	0.328125	DA18	7.38	1.44	5.50	4.25	1.88	6.620
SSCC125506	0.343750	DA18	7.38	1.44	5.50	4.25	1.88	6.620
SSCC125507	0.359375	DA18	7.38	1.44	5.50	4.25	1.88	6.620
SSCC125508	0.375000	DA18	7.38	1.44	5.50	4.25	1.88	6.620
SSCC125509	0.390625	DA18	7.38	1.44	5.50	4.25	1.88	6.620
SSCC125510	0.406250	DA18	7.38	1.44	5.50	4.25	1.88	6.620
SSCC125511	0.421875	DA18	7.38	1.44	5.50	4.25	1.88	6.620
SSCC125512	0.437500	DA18	7.38	1.44	5.50	4.25	1.88	6.620
SSCC125513	0.453125	DA18	7.38	1.44	5.50	4.25	1.88	6.620
SSCC125514	0.468750	DA18	7.38	1.44	5.50	4.25	1.88	6.620
SSCC125515	0.484375	DA18	7.38	1.44	5.50	4.25	1.88	6.620
SSCC125516	0.500000	DA18	7.38	1.44	5.50	4.25	1.88	6.620
SSCC125517	0.515625	DA18	7.38	1.44	5.50	4.25	1.88	6.620
SSCC125518	0.531250	DA18	7.38	1.44	5.50	4.25	1.88	6.620
SSCC125519	0.546875	DA18	7.38	1.44	5.50	4.25	1.88	6.620
SSCC125520	0.562500	DA18	7.38	1.44	5.50	4.25	1.88	6.620
SSCC125521	0.578125	DA18	7.38	1.44	5.50	4.25	1.88	6.620
SSCC125522	0.593750	DA18	7.38	1.44	5.50	4.25	1.88	6.620
SSCC125523	0.609375	DA18	7.38	1.44	5.50	4.25	1.88	6.620
SSCC125524	0.625000	DA18	7.38	1.44	5.50	4.25	1.88	6.620
SSCC125525	0.640625	DA18	7.38	1.44	5.50	4.25	1.88	6.620
SSCC125526	0.656250	DA18	7.38	1.44	5.50	4.25	1.88	6.620
SSCC125527	0.671875	DA18	7.38	1.44	5.50	4.25	1.88	6.620
SSCC125528	0.687500	DA18	7.38	1.44	5.50	4.25	1.88	6.620
SSCC125529	0.703125	DA18	7.38	1.44	5.50	4.25	1.88	6.620
SSCC125530	0.718750	DA18	7.38	1.44	5.50	4.25	1.88	6.620
SSCC125531	0.734375	DA18	7.38	1.44	5.50	4.25	1.88	6.620
SSCC125532	0.750000	DA18	7.38	1.44	5.50	4.25	1.88	6.620
SSCC125600	0.250000	DA18	9.88	1.44	8.00	4.25	1.88	6.620
SSCC125601	0.265625	DA18	9.88	1.44	8.00	4.25	1.88	6.620
SSCC125602	0.281250	DA18	9.88	1.44	8.00	4.25	1.88	6.620

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC125603	0.296875	DA18	9.88	1.44	8.00	4.25	1.88	6.620
SSCC125604	0.312500	DA18	9.88	1.44	8.00	4.25	1.88	6.620
SSCC125605	0.328125	DA18	9.88	1.44	8.00	4.25	1.88	6.620
SSCC125606	0.343750	DA18	9.88	1.44	8.00	4.25	1.88	6.620
SSCC125607	0.359375	DA18	9.88	1.44	8.00	4.25	1.88	6.620
SSCC125608	0.375000	DA18	9.88	1.44	8.00	4.25	1.88	6.620
SSCC125609	0.390625	DA18	9.88	1.44	8.00	4.25	1.88	6.620
SSCC125610	0.406250	DA18	9.88	1.44	8.00	4.25	1.88	6.620
SSCC125611	0.421875	DA18	9.88	1.44	8.00	4.25	1.88	6.620
SSCC125612	0.437500	DA18	9.88	1.44	8.00	4.25	1.88	6.620
SSCC125613	0.453125	DA18	9.88	1.44	8.00	4.25	1.88	6.620
SSCC125614	0.468750	DA18	9.88	1.44	8.00	4.25	1.88	6.620
SSCC125615	0.484375	DA18	9.88	1.44	8.00	4.25	1.88	6.620
SSCC125616	0.500000	DA18	9.88	1.44	8.00	4.25	1.88	6.620
SSCC125617	0.515625	DA18	9.88	1.44	8.00	4.25	1.88	6.620
SSCC125618	0.531250	DA18	9.88	1.44	8.00	4.25	1.88	6.620
SSCC125619	0.546875	DA18	9.88	1.44	8.00	4.25	1.88	6.620
SSCC125620	0.562500	DA18	9.88	1.44	8.00	4.25	1.88	6.620
SSCC125621	0.578125	DA18	9.88	1.44	8.00	4.25	1.88	6.620
SSCC125622	0.593750	DA18	9.88	1.44	8.00	4.25	1.88	6.620
SSCC125623	0.609375	DA18	9.88	1.44	8.00	4.25	1.88	6.620
SSCC125624	0.625000	DA18	9.88	1.44	8.00	4.25	1.88	6.620
SSCC125625	0.640625	DA18	9.88	1.44	8.00	4.25	1.88	6.620
SSCC125626	0.656250	DA18	9.88	1.44	8.00	4.25	1.88	6.620
SSCC125627	0.671875	DA18	9.88	1.44	8.00	4.25	1.88	6.620
SSCC125628	0.687500	DA18	9.88	1.44	8.00	4.25	1.88	6.620
SSCC125629	0.703125	DA18	9.88	1.44	8.00	4.25	1.88	6.620
SSCC125630	0.718750	DA18	9.88	1.44	8.00	4.25	1.88	6.620
SSCC125631	0.734375	DA18	9.88	1.44	8.00	4.25	1.88	6.620
SSCC125632	0.750000	DA18	9.88	1.44	8.00	4.25	1.88	6.620
SSCC125700	0.250000	DA18	7.62	1.72	6.00	4.28	1.94	6.620
SSCC125701	0.265625	DA18	7.62	1.72	6.00	4.28	1.94	6.620
SSCC125702	0.281250	DA18	7.62	1.72	6.00	4.28	1.94	6.620
SSCC125703	0.296875	DA18	7.62	1.72	6.00	4.28	1.94	6.620
SSCC125704	0.312500	DA18	7.62	1.72	6.00	4.28	1.94	6.620
SSCC125705	0.328125	DA18	7.62	1.72	6.00	4.28	1.94	6.620

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC125706	0.343750	DA18	7.62	1.72	6.00	4.28	1.94	6.620
SSCC125707	0.359375	DA18	7.62	1.72	6.00	4.28	1.94	6.620
SSCC125708	0.375000	DA18	7.62	1.72	6.00	4.28	1.94	6.620
SSCC125709	0.390625	DA18	7.62	1.72	6.00	4.28	1.94	6.620
SSCC125710	0.406250	DA18	7.62	1.72	6.00	4.28	1.94	6.620
SSCC125711	0.421875	DA18	7.62	1.72	6.00	4.28	1.94	6.620
SSCC125712	0.437500	DA18	7.62	1.72	6.00	4.28	1.94	6.620
SSCC125713	0.453125	DA18	7.62	1.72	6.00	4.28	1.94	6.620
SSCC125714	0.468750	DA18	7.62	1.72	6.00	4.28	1.94	6.620
SSCC125715	0.484375	DA18	7.62	1.72	6.00	4.28	1.94	6.620
SSCC125716	0.500000	DA18	7.62	1.72	6.00	4.28	1.94	6.620
SSCC125717	0.515625	DA18	7.62	1.72	6.00	4.28	1.94	6.620
SSCC125718	0.531250	DA18	7.62	1.72	6.00	4.28	1.94	6.620
SSCC125719	0.546875	DA18	7.62	1.72	6.00	4.28	1.94	6.620
SSCC125720	0.562500	DA18	7.62	1.72	6.00	4.28	1.94	6.620
SSCC125721	0.578125	DA18	7.62	1.72	6.00	4.28	1.94	6.620
SSCC125722	0.593750	DA18	7.62	1.72	6.00	4.28	1.94	6.620
SSCC125723	0.609375	DA18	7.62	1.72	6.00	4.28	1.94	6.620
SSCC125724	0.625000	DA18	7.62	1.72	6.00	4.28	1.94	6.620
SSCC125725	0.640625	DA18	7.62	1.72	6.00	4.28	1.94	6.620
SSCC125726	0.656250	DA18	7.62	1.72	6.00	4.28	1.94	6.620
SSCC125727	0.671875	DA18	7.62	1.72	6.00	4.28	1.94	6.620
SSCC125728	0.687500	DA18	7.62	1.72	6.00	4.28	1.94	6.620
SSCC125729	0.703125	DA18	7.62	1.72	6.00	4.28	1.94	6.620
SSCC125730	0.718750	DA18	7.62	1.72	6.00	4.28	1.94	6.620
SSCC125731	0.734375	DA18	7.62	1.72	6.00	4.28	1.94	6.620
SSCC125732	0.750000	DA18	7.62	1.72	6.00	4.28	1.94	6.620
SSCC125800	0.375000	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125801	0.390625	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125802	0.406250	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125803	0.421875	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125804	0.437500	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125805	0.453125	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125806	0.468750	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125807	0.484375	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125808	0.500000	DA40	8.62	2.50	6.00	4.90	2.12	7.680

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC125809	0.515625	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125810	0.531250	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125811	0.546875	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125812	0.562500	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125813	0.578125	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125814	0.593750	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125815	0.609375	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125816	0.625000	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125817	0.640625	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125818	0.656250	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125819	0.671875	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125820	0.687500	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125821	0.703125	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125822	0.718750	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125823	0.734375	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125824	0.750000	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125825	0.765625	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125826	0.781250	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125827	0.796875	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125828	0.812500	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125829	0.828125	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125830	0.843750	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125831	0.859375	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125832	0.875000	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125833	0.890625	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125834	0.906250	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125835	0.921875	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125836	0.937500	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125837	0.953125	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125838	0.968750	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125839	0.984375	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125840	1.000000	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC125900	0.062500	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125901	0.078125	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125902	0.093750	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125903	0.109375	SA75	8.50	2.09	6.00	4.84	2.06	7.620

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## STRAIGHT SHANK TOOLHOLDERS

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Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC125904	0.125000	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125905	0.140625	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125906	0.156250	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125907	0.171875	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125908	0.187500	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125909	0.203125	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125910	0.218750	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125911	0.234375	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125912	0.250000	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125913	0.265625	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125914	0.281250	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125915	0.296875	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125916	0.312500	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125917	0.328125	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125918	0.343750	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125919	0.359375	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125920	0.375000	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125921	0.390625	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125922	0.406250	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125923	0.421875	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125924	0.437500	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125925	0.453125	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125926	0.468750	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125927	0.484375	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125928	0.500000	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125929	0.515625	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125930	0.531250	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125931	0.546875	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125932	0.562500	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125933	0.578125	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125934	0.593750	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125935	0.609375	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125936	0.625000	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125937	0.640625	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125938	0.656250	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125939	0.671875	SA75	8.50	2.09	6.00	4.84	2.06	7.620

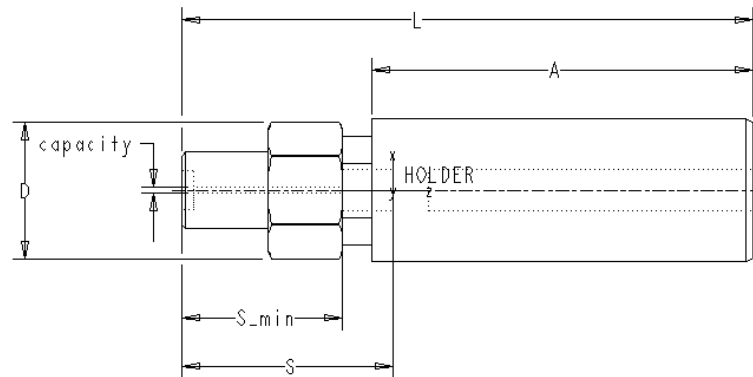
## STRAIGHT SHANK TOOLHOLDERS

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Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC125940	0.687500	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125941	0.703125	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125942	0.718750	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125943	0.734375	SA75	8.50	2.09	6.00	4.84	2.06	7.620
SSCC125944	0.750000	SA75	8.50	2.09	6.00	4.84	2.06	7.620

## STRAIGHT SHANK TOOLHOLDERS

### 1-1/2" DIAMETER SHANK, 1/8" THRU 1" TOOL SHANK CAPACITY



### Generic Part Name: SSCC150

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC150100	0.125000	DA20	6.00	1.44	4.00	2.90	1.69	4.120
SSCC150101	0.140625	DA20	6.00	1.44	4.00	2.90	1.69	4.120
SSCC150102	0.156250	DA20	6.00	1.44	4.00	2.90	1.69	4.120
SSCC150103	0.171875	DA20	6.00	1.44	4.00	2.90	1.69	4.120
SSCC150104	0.187500	DA20	6.00	1.44	4.00	2.90	1.69	4.120
SSCC150105	0.203125	DA20	6.00	1.44	4.00	2.90	1.69	4.120
SSCC150106	0.218750	DA20	6.00	1.44	4.00	2.90	1.69	4.120
SSCC150107	0.234375	DA20	6.00	1.44	4.00	2.90	1.69	4.120
SSCC150108	0.250000	DA20	6.00	1.44	4.00	2.90	1.69	4.120
SSCC150109	0.265625	DA20	6.00	1.44	4.00	2.90	1.69	4.120
SSCC150110	0.281250	DA20	6.00	1.44	4.00	2.90	1.69	4.120
SSCC150111	0.296875	DA20	6.00	1.44	4.00	2.90	1.69	4.120
SSCC150112	0.312500	DA20	6.00	1.44	4.00	2.90	1.69	4.120
SSCC150113	0.328125	DA20	6.00	1.44	4.00	2.90	1.69	4.120
SSCC150114	0.343750	DA20	6.00	1.44	4.00	2.90	1.69	4.120
SSCC150115	0.359375	DA20	6.00	1.44	4.00	2.90	1.69	4.120
SSCC150116	0.375000	DA20	6.00	1.44	4.00	2.90	1.69	4.120
SSCC150200	0.125000	DA20	8.00	1.44	6.00	2.90	1.69	4.120
SSCC150201	0.140625	DA20	8.00	1.44	6.00	2.90	1.69	4.120
SSCC150202	0.156250	DA20	8.00	1.44	6.00	2.90	1.69	4.120
SSCC150203	0.171875	DA20	8.00	1.44	6.00	2.90	1.69	4.120
SSCC150204	0.187500	DA20	8.00	1.44	6.00	2.90	1.69	4.120

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC150205	0.203125	DA20	8.00	1.44	6.00	2.90	1.69	4.120
SSCC150206	0.218750	DA20	8.00	1.44	6.00	2.90	1.69	4.120
SSCC150207	0.234375	DA20	8.00	1.44	6.00	2.90	1.69	4.120
SSCC150208	0.250000	DA20	8.00	1.44	6.00	2.90	1.69	4.120
SSCC150209	0.265625	DA20	8.00	1.44	6.00	2.90	1.69	4.120
SSCC150210	0.281250	DA20	8.00	1.44	6.00	2.90	1.69	4.120
SSCC150211	0.296875	DA20	8.00	1.44	6.00	2.90	1.69	4.120
SSCC150212	0.312500	DA20	8.00	1.44	6.00	2.90	1.69	4.120
SSCC150213	0.328125	DA20	8.00	1.44	6.00	2.90	1.69	4.120
SSCC150214	0.343750	DA20	8.00	1.44	6.00	2.90	1.69	4.120
SSCC150215	0.359375	DA20	8.00	1.44	6.00	2.90	1.69	4.120
SSCC150216	0.375000	DA20	8.00	1.44	6.00	2.90	1.69	4.120
SSCC150300	0.125000	DA20	5.31	1.16	4.00	3.19	1.62	4.750
SSCC150301	0.140625	DA20	5.31	1.16	4.00	3.19	1.62	4.750
SSCC150302	0.156250	DA20	5.31	1.16	4.00	3.19	1.62	4.750
SSCC150303	0.171875	DA20	5.31	1.16	4.00	3.19	1.62	4.750
SSCC150304	0.187500	DA20	5.31	1.16	4.00	3.19	1.62	4.750
SSCC150305	0.203125	DA20	5.31	1.16	4.00	3.19	1.62	4.750
SSCC150306	0.218750	DA20	5.31	1.16	4.00	3.19	1.62	4.750
SSCC150307	0.234375	DA20	5.31	1.16	4.00	3.19	1.62	4.750
SSCC150308	0.250000	DA20	5.31	1.16	4.00	3.19	1.62	4.750
SSCC150309	0.265625	DA20	5.31	1.16	4.00	3.19	1.62	4.750
SSCC150310	0.281250	DA20	5.31	1.16	4.00	3.19	1.62	4.750
SSCC150311	0.296875	DA20	5.31	1.16	4.00	3.19	1.62	4.750
SSCC150312	0.312500	DA20	5.31	1.16	4.00	3.19	1.62	4.750
SSCC150313	0.328125	DA20	5.31	1.16	4.00	3.19	1.62	4.750
SSCC150314	0.343750	DA20	5.31	1.16	4.00	3.19	1.62	4.750
SSCC150315	0.359375	DA20	5.31	1.16	4.00	3.19	1.62	4.750
SSCC150316	0.375000	DA20	5.31	1.16	4.00	3.19	1.62	4.750
SSCC150400	0.125000	DA20	7.31	1.16	6.00	3.19	1.62	4.750
SSCC150401	0.140625	DA20	7.31	1.16	6.00	3.19	1.62	4.750
SSCC150402	0.156250	DA20	7.31	1.16	6.00	3.19	1.62	4.750
SSCC150403	0.171875	DA20	7.31	1.16	6.00	3.19	1.62	4.750
SSCC150404	0.187500	DA20	7.31	1.16	6.00	3.19	1.62	4.750
SSCC150405	0.203125	DA20	7.31	1.16	6.00	3.19	1.62	4.750
SSCC150406	0.218750	DA20	7.31	1.16	6.00	3.19	1.62	4.750

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC150407	0.234375	DA20	7.31	1.16	6.00	3.19	1.62	4.750
SSCC150408	0.250000	DA20	7.31	1.16	6.00	3.19	1.62	4.750
SSCC150409	0.265625	DA20	7.31	1.16	6.00	3.19	1.62	4.750
SSCC150410	0.281250	DA20	7.31	1.16	6.00	3.19	1.62	4.750
SSCC150411	0.296875	DA20	7.31	1.16	6.00	3.19	1.62	4.750
SSCC150412	0.312500	DA20	7.31	1.16	6.00	3.19	1.62	4.750
SSCC150413	0.328125	DA20	7.31	1.16	6.00	3.19	1.62	4.750
SSCC150414	0.343750	DA20	7.31	1.16	6.00	3.19	1.62	4.750
SSCC150415	0.359375	DA20	7.31	1.16	6.00	3.19	1.62	4.750
SSCC150416	0.375000	DA20	7.31	1.16	6.00	3.19	1.62	4.750
SSCC150500	0.250000	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC150501	0.265625	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC150502	0.281250	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC150503	0.296875	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC150504	0.312500	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC150505	0.328125	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC150506	0.343750	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC150507	0.359375	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC150508	0.375000	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC150509	0.390625	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC150510	0.406250	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC150511	0.421875	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC150512	0.437500	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC150513	0.453125	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC150514	0.468750	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC150515	0.484375	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC150516	0.500000	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC150517	0.515625	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC150518	0.531250	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC150519	0.546875	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC150520	0.562500	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC150600	0.250000	DA10	7.56	1.42	6.00	3.78	1.94	5.620
SSCC150601	0.265625	DA10	7.56	1.42	6.00	3.78	1.94	5.620
SSCC150602	0.281250	DA10	7.56	1.42	6.00	3.78	1.94	5.620
SSCC150603	0.296875	DA10	7.56	1.42	6.00	3.78	1.94	5.620
SSCC150604	0.312500	DA10	7.56	1.42	6.00	3.78	1.94	5.620

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC150605	0.328125	DA10	7.56	1.42	6.00	3.78	1.94	5.620
SSCC150606	0.343750	DA10	7.56	1.42	6.00	3.78	1.94	5.620
SSCC150607	0.359375	DA10	7.56	1.42	6.00	3.78	1.94	5.620
SSCC150608	0.375000	DA10	7.56	1.42	6.00	3.78	1.94	5.620
SSCC150609	0.390625	DA10	7.56	1.42	6.00	3.78	1.94	5.620
SSCC150610	0.406250	DA10	7.56	1.42	6.00	3.78	1.94	5.620
SSCC150611	0.421875	DA10	7.56	1.42	6.00	3.78	1.94	5.620
SSCC150612	0.437500	DA10	7.56	1.42	6.00	3.78	1.94	5.620
SSCC150613	0.453125	DA10	7.56	1.42	6.00	3.78	1.94	5.620
SSCC150614	0.468750	DA10	7.56	1.42	6.00	3.78	1.94	5.620
SSCC150615	0.484375	DA10	7.56	1.42	6.00	3.78	1.94	5.620
SSCC150616	0.500000	DA10	7.56	1.42	6.00	3.78	1.94	5.620
SSCC150617	0.515625	DA10	7.56	1.42	6.00	3.78	1.94	5.620
SSCC150618	0.531250	DA10	7.56	1.42	6.00	3.78	1.94	5.620
SSCC150619	0.546875	DA10	7.56	1.42	6.00	3.78	1.94	5.620
SSCC150620	0.562500	DA10	7.56	1.42	6.00	3.78	1.94	5.620
SSCC150700	0.250000	DA18	8.38	2.20	6.00	3.69	1.75	5.620
SSCC150701	0.265625	DA18	8.38	2.20	6.00	3.69	1.75	5.620
SSCC150702	0.281250	DA18	8.38	2.20	6.00	3.69	1.75	5.620
SSCC150703	0.296875	DA18	8.38	2.20	6.00	3.69	1.75	5.620
SSCC150704	0.312500	DA18	8.38	2.20	6.00	3.69	1.75	5.620
SSCC150705	0.328125	DA18	8.38	2.20	6.00	3.69	1.75	5.620
SSCC150706	0.343750	DA18	8.38	2.20	6.00	3.69	1.75	5.620
SSCC150707	0.359375	DA18	8.38	2.20	6.00	3.69	1.75	5.620
SSCC150708	0.375000	DA18	8.38	2.20	6.00	3.69	1.75	5.620
SSCC150709	0.390625	DA18	8.38	2.20	6.00	3.69	1.75	5.620
SSCC150710	0.406250	DA18	8.38	2.20	6.00	3.69	1.75	5.620
SSCC150711	0.421875	DA18	8.38	2.20	6.00	3.69	1.75	5.620
SSCC150712	0.437500	DA18	8.38	2.20	6.00	3.69	1.75	5.620
SSCC150713	0.453125	DA18	8.38	2.20	6.00	3.69	1.75	5.620
SSCC150714	0.468750	DA18	8.38	2.20	6.00	3.69	1.75	5.620
SSCC150715	0.484375	DA18	8.38	2.20	6.00	3.69	1.75	5.620
SSCC150716	0.500000	DA18	8.38	2.20	6.00	3.69	1.75	5.620
SSCC150717	0.515625	DA18	8.38	2.20	6.00	3.69	1.75	5.620
SSCC150718	0.531250	DA18	8.38	2.20	6.00	3.69	1.75	5.620
SSCC150719	0.546875	DA18	8.38	2.20	6.00	3.69	1.75	5.620

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC150720	0.562500	DA18	8.38	2.20	6.00	3.69	1.75	5.620
SSCC150721	0.578125	DA18	8.38	2.20	6.00	3.69	1.75	5.620
SSCC150722	0.593750	DA18	8.38	2.20	6.00	3.69	1.75	5.620
SSCC150723	0.609375	DA18	8.38	2.20	6.00	3.69	1.75	5.620
SSCC150724	0.625000	DA18	8.38	2.20	6.00	3.69	1.75	5.620
SSCC150725	0.640625	DA18	8.38	2.20	6.00	3.69	1.75	5.620
SSCC150726	0.656250	DA18	8.38	2.20	6.00	3.69	1.75	5.620
SSCC150727	0.671875	DA18	8.38	2.20	6.00	3.69	1.75	5.620
SSCC150728	0.687500	DA18	8.38	2.20	6.00	3.69	1.75	5.620
SSCC150729	0.703125	DA18	8.38	2.20	6.00	3.69	1.75	5.620
SSCC150730	0.718750	DA18	8.38	2.20	6.00	3.69	1.75	5.620
SSCC150731	0.734375	DA18	8.38	2.20	6.00	3.69	1.75	5.620
SSCC150732	0.750000	DA18	8.38	2.20	6.00	3.69	1.75	5.620
SSCC150800	0.250000	DA18	7.62	1.72	6.00	4.31	1.94	6.680
SSCC150801	0.265625	DA18	7.62	1.72	6.00	4.31	1.94	6.680
SSCC150802	0.281250	DA18	7.62	1.72	6.00	4.31	1.94	6.680
SSCC150803	0.296875	DA18	7.62	1.72	6.00	4.31	1.94	6.680
SSCC150804	0.312500	DA18	7.62	1.72	6.00	4.31	1.94	6.680
SSCC150805	0.328125	DA18	7.62	1.72	6.00	4.31	1.94	6.680
SSCC150806	0.343750	DA18	7.62	1.72	6.00	4.31	1.94	6.680
SSCC150807	0.359375	DA18	7.62	1.72	6.00	4.31	1.94	6.680
SSCC150808	0.375000	DA18	7.62	1.72	6.00	4.31	1.94	6.680
SSCC150809	0.390625	DA18	7.62	1.72	6.00	4.31	1.94	6.680
SSCC150810	0.406250	DA18	7.62	1.72	6.00	4.31	1.94	6.680
SSCC150811	0.421875	DA18	7.62	1.72	6.00	4.31	1.94	6.680
SSCC150812	0.437500	DA18	7.62	1.72	6.00	4.31	1.94	6.680
SSCC150813	0.453125	DA18	7.62	1.72	6.00	4.31	1.94	6.680
SSCC150814	0.468750	DA18	7.62	1.72	6.00	4.31	1.94	6.680
SSCC150815	0.484375	DA18	7.62	1.72	6.00	4.31	1.94	6.680
SSCC150816	0.500000	DA18	7.62	1.72	6.00	4.31	1.94	6.680
SSCC150817	0.515625	DA18	7.62	1.72	6.00	4.31	1.94	6.680
SSCC150818	0.531250	DA18	7.62	1.72	6.00	4.31	1.94	6.680
SSCC150819	0.546875	DA18	7.62	1.72	6.00	4.31	1.94	6.680
SSCC150820	0.562500	DA18	7.62	1.72	6.00	4.31	1.94	6.680
SSCC150821	0.578125	DA18	7.62	1.72	6.00	4.31	1.94	6.680
SSCC150822	0.593750	DA18	7.62	1.72	6.00	4.31	1.94	6.680

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC150823	0.609375	DA18	7.62	1.72	6.00	4.31	1.94	6.680
SSCC150824	0.625000	DA18	7.62	1.72	6.00	4.31	1.94	6.680
SSCC150825	0.640625	DA18	7.62	1.72	6.00	4.31	1.94	6.680
SSCC150826	0.656250	DA18	7.62	1.72	6.00	4.31	1.94	6.680
SSCC150827	0.671875	DA18	7.62	1.72	6.00	4.31	1.94	6.680
SSCC150828	0.687500	DA18	7.62	1.72	6.00	4.31	1.94	6.680
SSCC150829	0.703125	DA18	7.62	1.72	6.00	4.31	1.94	6.680
SSCC150830	0.718750	DA18	7.62	1.72	6.00	4.31	1.94	6.680
SSCC150831	0.734375	DA18	7.62	1.72	6.00	4.31	1.94	6.680
SSCC150832	0.750000	DA18	7.62	1.72	6.00	4.31	1.94	6.680
SSCC150900	0.375000	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150901	0.390625	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150902	0.406250	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150903	0.421875	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150904	0.437500	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150905	0.453125	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150906	0.468750	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150907	0.484375	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150908	0.500000	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150909	0.515625	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150910	0.531250	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150911	0.546875	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150912	0.562500	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150913	0.578125	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150914	0.593750	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150915	0.609375	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150916	0.625000	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150917	0.640625	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150918	0.656250	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150919	0.671875	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150920	0.687500	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150921	0.703125	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150922	0.718750	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150923	0.734375	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150924	0.750000	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150925	0.765625	DA40	7.91	1.88	5.50	4.59	2.19	7.000

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC150926	0.781250	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150927	0.796875	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150928	0.812500	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150929	0.828125	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150930	0.843750	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150931	0.859375	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150932	0.875000	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150933	0.890625	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150934	0.906250	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150935	0.921875	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150936	0.937500	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150937	0.953125	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150938	0.968750	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150939	0.984375	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC150940	1.000000	DA40	7.91	1.88	5.50	4.59	2.19	7.000
SSCC151000	0.375000	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151001	0.390625	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151002	0.406250	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151003	0.421875	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151004	0.437500	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151005	0.453125	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151006	0.468750	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151007	0.484375	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151008	0.500000	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151009	0.515625	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151010	0.531250	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151011	0.546875	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151012	0.562500	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151013	0.578125	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151014	0.593750	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151015	0.609375	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151016	0.625000	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151017	0.640625	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151018	0.656250	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151019	0.671875	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151020	0.687500	DA40	10.40	1.88	8.00	5.82	2.19	9.440

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC151021	0.703125	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151022	0.718750	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151023	0.734375	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151024	0.750000	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151025	0.765625	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151026	0.781250	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151027	0.796875	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151028	0.812500	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151029	0.828125	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151030	0.843750	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151031	0.859375	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151032	0.875000	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151033	0.890625	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151034	0.906250	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151035	0.921875	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151036	0.937500	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151037	0.953125	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151038	0.968750	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151039	0.984375	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151040	1.000000	DA40	10.40	1.88	8.00	5.82	2.19	9.440
SSCC151100	0.375000	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151101	0.390625	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151102	0.406250	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151103	0.421875	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151104	0.437500	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151105	0.453125	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151106	0.468750	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151107	0.484375	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151108	0.500000	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151109	0.515625	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151110	0.531250	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151111	0.546875	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151112	0.562500	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151113	0.578125	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151114	0.593750	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151115	0.609375	DA40	8.62	2.50	6.00	4.90	2.12	7.680

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC151116	0.625000	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151117	0.640625	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151118	0.656250	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151119	0.671875	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151120	0.687500	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151121	0.703125	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151122	0.718750	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151123	0.734375	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151124	0.750000	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151125	0.765625	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151126	0.781250	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151127	0.796875	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151128	0.812500	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151129	0.828125	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151130	0.843750	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151131	0.859375	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151132	0.875000	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151133	0.890625	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151134	0.906250	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151135	0.921875	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151136	0.937500	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151137	0.953125	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151138	0.968750	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151139	0.984375	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151140	1.000000	DA40	8.62	2.50	6.00	4.90	2.12	7.680
SSCC151200	0.062500	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151201	0.078125	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151202	0.093750	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151203	0.109375	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151204	0.125000	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151205	0.140625	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151206	0.156250	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151207	0.171875	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151208	0.187500	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151209	0.203125	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151210	0.218750	SA75	7.75	2.09	6.00	4.56	2.06	7.060

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC151211	0.234375	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151212	0.250000	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151213	0.265625	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151214	0.281250	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151215	0.296875	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151216	0.312500	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151217	0.328125	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151218	0.343750	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151219	0.359375	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151220	0.375000	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151221	0.390625	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151222	0.406250	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151223	0.421875	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151224	0.437500	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151225	0.453125	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151226	0.468750	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151227	0.484375	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151228	0.500000	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151229	0.515625	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151230	0.531250	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151231	0.546875	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151232	0.562500	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151233	0.578125	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151234	0.593750	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151235	0.609375	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151236	0.625000	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151237	0.640625	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151238	0.656250	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151239	0.671875	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151240	0.687500	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151241	0.703125	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151242	0.718750	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151243	0.734375	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151244	0.750000	SA75	7.75	2.09	6.00	4.56	2.06	7.060
SSCC151300	0.093750	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151301	0.109375	SA10	9.25	2.50	6.00	5.59	2.63	8.560

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC151302	0.125000	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151303	0.140625	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151304	0.156250	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151305	0.171875	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151306	0.187500	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151307	0.203125	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151308	0.218750	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151309	0.234375	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151310	0.250000	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151311	0.265625	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151312	0.281250	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151313	0.296875	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151314	0.312500	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151315	0.328125	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151316	0.343750	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151317	0.359375	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151318	0.375000	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151319	0.390625	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151320	0.406250	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151321	0.421875	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151322	0.437500	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151323	0.453125	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151324	0.468750	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151325	0.484375	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151326	0.500000	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151327	0.515625	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151328	0.531250	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151329	0.546875	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151330	0.562500	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151331	0.578125	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151332	0.593750	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151333	0.609375	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151334	0.625000	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151335	0.640625	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151336	0.656250	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151337	0.671875	SA10	9.25	2.50	6.00	5.59	2.63	8.560

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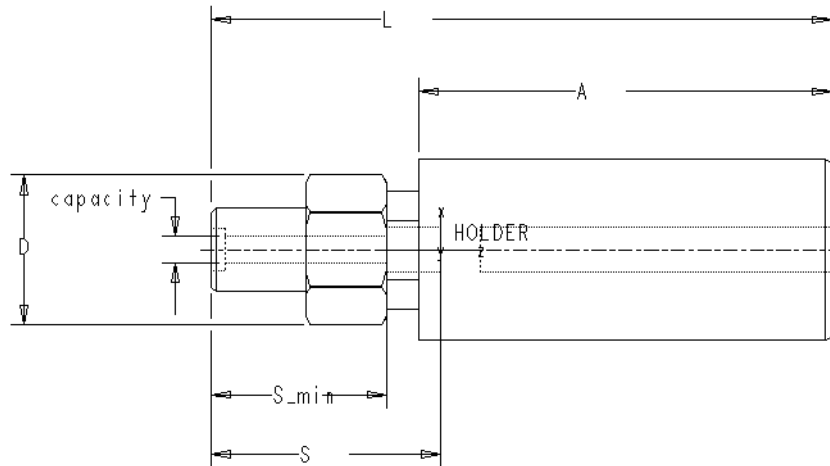
## STRAIGHT SHANK TOOLHOLDERS

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Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC151338	0.687500	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151339	0.703125	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151340	0.718750	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151341	0.734375	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151342	0.750000	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151343	0.765625	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151344	0.781250	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151345	0.796875	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151346	0.812500	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151347	0.828125	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151348	0.843750	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151349	0.859375	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151350	0.875000	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151351	0.890625	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151352	0.906250	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151353	0.921875	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151354	0.937500	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151355	0.953125	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151356	0.968750	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151357	0.984375	SA10	9.25	2.50	6.00	5.59	2.63	8.560
SSCC151358	1.000000	SA10	9.25	2.50	6.00	5.59	2.63	8.560

## STRAIGHT SHANK TOOLHOLDERS

### 1-3/4" DIAMETER SHANK, 1/4" THRU 1-1/2" TOOL SHANK CAPACITY



**Generic Part Name: SSCC175**

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC175100	0.250000	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC175101	0.265625	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC175102	0.281250	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC175103	0.296875	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC175104	0.312500	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC175105	0.328125	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC175106	0.343750	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC175107	0.359375	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC175108	0.375000	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC175109	0.390625	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC175110	0.406250	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC175111	0.421875	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC175112	0.437500	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC175113	0.453125	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC175114	0.468750	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC175115	0.484375	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC175116	0.500000	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC175117	0.515625	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC175118	0.531250	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC175119	0.546875	DA18	8.38	2.02	6.00	3.69	1.75	5.620

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC175120	0.562500	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC175121	0.578125	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC175122	0.593750	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC175123	0.609375	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC175124	0.625000	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC175125	0.640625	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC175126	0.656250	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC175127	0.671875	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC175128	0.687500	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC175129	0.703125	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC175130	0.718750	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC175131	0.734375	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC175132	0.750000	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC175200	0.250000	DA18	7.62	1.73	6.00	4.31	1.94	6.680
SSCC175201	0.265625	DA18	7.62	1.73	6.00	4.31	1.94	6.680
SSCC175202	0.281250	DA18	7.62	1.73	6.00	4.31	1.94	6.680
SSCC175203	0.296875	DA18	7.62	1.73	6.00	4.31	1.94	6.680
SSCC175204	0.312500	DA18	7.62	1.73	6.00	4.31	1.94	6.680
SSCC175205	0.328125	DA18	7.62	1.73	6.00	4.31	1.94	6.680
SSCC175206	0.343750	DA18	7.62	1.73	6.00	4.31	1.94	6.680
SSCC175207	0.359375	DA18	7.62	1.73	6.00	4.31	1.94	6.680
SSCC175208	0.375000	DA18	7.62	1.73	6.00	4.31	1.94	6.680
SSCC175209	0.390625	DA18	7.62	1.73	6.00	4.31	1.94	6.680
SSCC175210	0.406250	DA18	7.62	1.73	6.00	4.31	1.94	6.680
SSCC175211	0.421875	DA18	7.62	1.73	6.00	4.31	1.94	6.680
SSCC175212	0.437500	DA18	7.62	1.73	6.00	4.31	1.94	6.680
SSCC175213	0.453125	DA18	7.62	1.73	6.00	4.31	1.94	6.680
SSCC175214	0.468750	DA18	7.62	1.73	6.00	4.31	1.94	6.680
SSCC175215	0.484375	DA18	7.62	1.73	6.00	4.31	1.94	6.680
SSCC175216	0.500000	DA18	7.62	1.73	6.00	4.31	1.94	6.680
SSCC175217	0.515625	DA18	7.62	1.73	6.00	4.31	1.94	6.680
SSCC175218	0.531250	DA18	7.62	1.73	6.00	4.31	1.94	6.680
SSCC175219	0.546875	DA18	7.62	1.73	6.00	4.31	1.94	6.680
SSCC175220	0.562500	DA18	7.62	1.73	6.00	4.31	1.94	6.680
SSCC175221	0.578125	DA18	7.62	1.73	6.00	4.31	1.94	6.680
SSCC175222	0.593750	DA18	7.62	1.73	6.00	4.31	1.94	6.680

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC175223	0.609375	DA18	7.62	1.73	6.00	4.31	1.94	6.680
SSCC175224	0.625000	DA18	7.62	1.73	6.00	4.31	1.94	6.680
SSCC175225	0.640625	DA18	7.62	1.73	6.00	4.31	1.94	6.680
SSCC175226	0.656250	DA18	7.62	1.73	6.00	4.31	1.94	6.680
SSCC175227	0.671875	DA18	7.62	1.73	6.00	4.31	1.94	6.680
SSCC175228	0.687500	DA18	7.62	1.73	6.00	4.31	1.94	6.680
SSCC175229	0.703125	DA18	7.62	1.73	6.00	4.31	1.94	6.680
SSCC175230	0.718750	DA18	7.62	1.73	6.00	4.31	1.94	6.680
SSCC175231	0.734375	DA18	7.62	1.73	6.00	4.31	1.94	6.680
SSCC175232	0.750000	DA18	7.62	1.73	6.00	4.31	1.94	6.680
SSCC175300	0.375000	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175301	0.390625	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175302	0.406250	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175303	0.421875	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175304	0.437500	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175305	0.453125	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175306	0.468750	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175307	0.484375	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175308	0.500000	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175309	0.515625	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175310	0.531250	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175311	0.546875	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175312	0.562500	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175313	0.578125	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175314	0.593750	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175315	0.609375	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175316	0.625000	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175317	0.640625	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175318	0.656250	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175319	0.671875	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175320	0.687500	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175321	0.703125	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175322	0.718750	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175323	0.734375	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175324	0.750000	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175325	0.765625	DA40	8.06	2.50	6.00	4.62	2.12	7.120

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC175326	0.781250	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175327	0.796875	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175328	0.812500	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175329	0.828125	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175330	0.843750	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175331	0.859375	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175332	0.875000	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175333	0.890625	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175334	0.906250	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175335	0.921875	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175336	0.937500	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175337	0.953125	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175338	0.968750	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175339	0.984375	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175340	1.000000	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC175400	0.375000	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175401	0.390625	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175402	0.406250	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175403	0.421875	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175404	0.437500	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175405	0.453125	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175406	0.468750	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175407	0.484375	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175408	0.500000	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175409	0.515625	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175410	0.531250	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175411	0.546875	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175412	0.562500	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175413	0.578125	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175414	0.593750	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175415	0.609375	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175416	0.625000	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175417	0.640625	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175418	0.656250	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175419	0.671875	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175420	0.687500	SA10	8.19	2.44	5.00	5.19	2.88	7.500

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC175421	0.703125	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175422	0.718750	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175423	0.734375	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175424	0.750000	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175425	0.765625	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175426	0.781250	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175427	0.796875	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175428	0.812500	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175429	0.828125	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175430	0.843750	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175431	0.859375	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175432	0.875000	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175433	0.890625	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175434	0.906250	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175435	0.921875	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175436	0.937500	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175437	0.953125	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175438	0.968750	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175439	0.984375	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175440	1.000000	SA10	8.19	2.44	5.00	5.19	2.88	7.500
SSCC175500	0.500000	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175501	0.515625	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175502	0.531250	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175503	0.546875	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175504	0.562500	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175505	0.578125	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175506	0.593750	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175507	0.609375	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175508	0.625000	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175509	0.640625	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175510	0.656250	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175511	0.671875	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175512	0.687500	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175513	0.703125	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175514	0.718750	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175515	0.734375	SA15	11.70	3.50	8.00	7.11	3.21	11.000

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC175516	0.750000	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175517	0.765625	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175518	0.781250	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175519	0.796875	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175520	0.812500	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175521	0.828125	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175522	0.843750	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175523	0.859375	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175524	0.875000	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175525	0.890625	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175526	0.906250	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175527	0.921875	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175528	0.937500	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175529	0.953125	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175530	0.968750	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175531	0.984375	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175532	1.000000	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175533	1.015625	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175534	1.031250	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175535	1.046875	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175536	1.062500	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175537	1.078125	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175538	1.093750	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175539	1.109375	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175540	1.125000	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175541	1.140625	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175542	1.156250	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175543	1.171875	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175544	1.187500	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175545	1.203125	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175546	1.218750	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175547	1.234375	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175548	1.250000	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175549	1.265625	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175550	1.281250	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175551	1.296875	SA15	11.70	3.50	8.00	7.11	3.21	11.000

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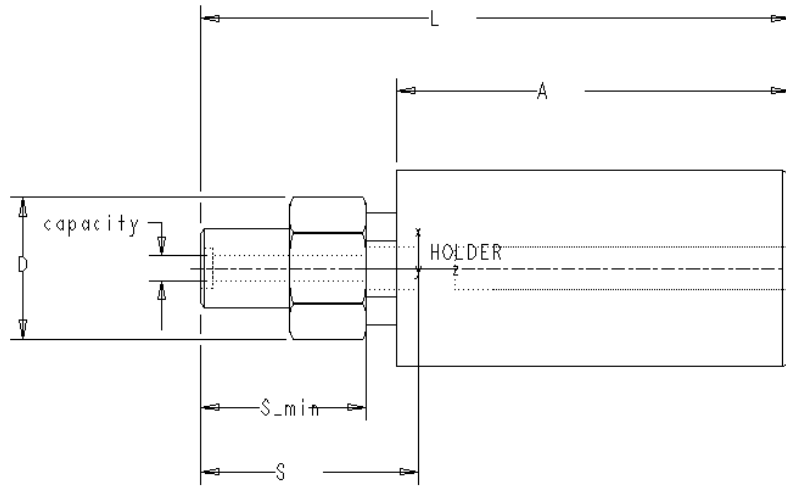
## STRAIGHT SHANK TOOLHOLDERS

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Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC175552	1.312500	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175553	1.328125	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175554	1.343750	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175555	1.359375	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175556	1.375000	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175557	1.390625	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175558	1.406250	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175559	1.421875	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175560	1.437500	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175561	1.453125	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175562	1.468750	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175563	1.484375	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC175564	1.500000	SA15	11.70	3.50	8.00	7.11	3.21	11.000

## STRAIGHT SHANK TOOLHOLDERS

### 2" DIAMETER SHANK, 1/8" THRU 1-1/2" TOOL SHANK CAPACITY



### Generic Part Name: SSCC200

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC200100	0.125000	DA20	8.00	1.44	6.00	2.90	1.68	4.120
SSCC200101	0.140625	DA20	8.00	1.44	6.00	2.90	1.68	4.120
SSCC200102	0.156250	DA20	8.00	1.44	6.00	2.90	1.68	4.120
SSCC200103	0.171875	DA20	8.00	1.44	6.00	2.90	1.68	4.120
SSCC200104	0.187500	DA20	8.00	1.44	6.00	2.90	1.68	4.120
SSCC200105	0.203125	DA20	8.00	1.44	6.00	2.90	1.68	4.120
SSCC200106	0.218750	DA20	8.00	1.44	6.00	2.90	1.68	4.120
SSCC200107	0.234375	DA20	8.00	1.44	6.00	2.90	1.68	4.120
SSCC200108	0.250000	DA20	8.00	1.44	6.00	2.90	1.68	4.120
SSCC200109	0.265625	DA20	8.00	1.44	6.00	2.90	1.68	4.120
SSCC200110	0.281250	DA20	8.00	1.44	6.00	2.90	1.68	4.120
SSCC200111	0.296875	DA20	8.00	1.44	6.00	2.90	1.68	4.120
SSCC200112	0.312500	DA20	8.00	1.44	6.00	2.90	1.68	4.120
SSCC200113	0.328125	DA20	8.00	1.44	6.00	2.90	1.68	4.120
SSCC200114	0.343750	DA20	8.00	1.44	6.00	2.90	1.68	4.120
SSCC200115	0.359375	DA20	8.00	1.44	6.00	2.90	1.68	4.120
SSCC200116	0.375000	DA20	8.00	1.44	6.00	2.90	1.68	4.120
SSCC200200	0.250000	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC200201	0.265625	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC200202	0.281250	DA10	8.50	1.73	6.00	3.75	1.88	5.620

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC200203	0.296875	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC200204	0.312500	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC200205	0.328125	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC200206	0.343750	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC200207	0.359375	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC200208	0.375000	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC200209	0.390625	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC200210	0.406250	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC200211	0.421875	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC200212	0.437500	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC200213	0.453125	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC200214	0.468750	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC200215	0.484375	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC200216	0.500000	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC200217	0.515625	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC200218	0.531250	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC200219	0.546875	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC200220	0.562500	DA10	8.50	1.73	6.00	3.75	1.88	5.620
SSCC200300	0.250000	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC200301	0.265625	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC200302	0.281250	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC200303	0.296875	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC200304	0.312500	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC200305	0.328125	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC200306	0.343750	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC200307	0.359375	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC200308	0.375000	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC200309	0.390625	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC200310	0.406250	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC200311	0.421875	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC200312	0.437500	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC200313	0.453125	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC200314	0.468750	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC200315	0.484375	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC200316	0.500000	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC200317	0.515625	DA18	8.38	2.02	6.00	3.69	1.75	5.620

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC200318	0.531250	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC200319	0.546875	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC200320	0.562500	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC200321	0.578125	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC200322	0.593750	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC200323	0.609375	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC200324	0.625000	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC200325	0.640625	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC200326	0.656250	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC200327	0.671875	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC200328	0.687500	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC200329	0.703125	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC200330	0.718750	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC200331	0.734375	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC200332	0.750000	DA18	8.38	2.02	6.00	3.69	1.75	5.620
SSCC200400	0.250000	DA18	7.62	1.73	6.00	3.78	1.94	5.620
SSCC200401	0.265625	DA18	7.62	1.73	6.00	3.78	1.94	5.620
SSCC200402	0.281250	DA18	7.62	1.73	6.00	3.78	1.94	5.620
SSCC200403	0.296875	DA18	7.62	1.73	6.00	3.78	1.94	5.620
SSCC200404	0.312500	DA18	7.62	1.73	6.00	3.78	1.94	5.620
SSCC200405	0.328125	DA18	7.62	1.73	6.00	3.78	1.94	5.620
SSCC200406	0.343750	DA18	7.62	1.73	6.00	3.78	1.94	5.620
SSCC200407	0.359375	DA18	7.62	1.73	6.00	3.78	1.94	5.620
SSCC200408	0.375000	DA18	7.62	1.73	6.00	3.78	1.94	5.620
SSCC200409	0.390625	DA18	7.62	1.73	6.00	3.78	1.94	5.620
SSCC200410	0.406250	DA18	7.62	1.73	6.00	3.78	1.94	5.620
SSCC200411	0.421875	DA18	7.62	1.73	6.00	3.78	1.94	5.620
SSCC200412	0.437500	DA18	7.62	1.73	6.00	3.78	1.94	5.620
SSCC200413	0.453125	DA18	7.62	1.73	6.00	3.78	1.94	5.620
SSCC200414	0.468750	DA18	7.62	1.73	6.00	3.78	1.94	5.620
SSCC200415	0.484375	DA18	7.62	1.73	6.00	3.78	1.94	5.620
SSCC200416	0.500000	DA18	7.62	1.73	6.00	3.78	1.94	5.620
SSCC200417	0.515625	DA18	7.62	1.73	6.00	3.78	1.94	5.620
SSCC200418	0.531250	DA18	7.62	1.73	6.00	3.78	1.94	5.620
SSCC200419	0.546875	DA18	7.62	1.73	6.00	3.78	1.94	5.620
SSCC200420	0.562500	DA18	7.62	1.73	6.00	3.78	1.94	5.620

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC200421	0.578125	DA18	7.62	1.73	6.00	3.78	1.94	5.620
SSCC200422	0.593750	DA18	7.62	1.73	6.00	3.78	1.94	5.620
SSCC200423	0.609375	DA18	7.62	1.73	6.00	3.78	1.94	5.620
SSCC200424	0.625000	DA18	7.62	1.73	6.00	3.78	1.94	5.620
SSCC200425	0.640625	DA18	7.62	1.73	6.00	3.78	1.94	5.620
SSCC200426	0.656250	DA18	7.62	1.73	6.00	3.78	1.94	5.620
SSCC200427	0.671875	DA18	7.62	1.73	6.00	3.78	1.94	5.620
SSCC200428	0.687500	DA18	7.62	1.73	6.00	3.78	1.94	5.620
SSCC200429	0.703125	DA18	7.62	1.73	6.00	3.78	1.94	5.620
SSCC200430	0.718750	DA18	7.62	1.73	6.00	3.78	1.94	5.620
SSCC200431	0.734375	DA18	7.62	1.73	6.00	3.78	1.94	5.620
SSCC200432	0.750000	DA18	7.62	1.73	6.00	3.78	1.94	5.620
SSCC200500	0.375000	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200501	0.390625	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200502	0.406250	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200503	0.421875	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200504	0.437500	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200505	0.453125	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200506	0.468750	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200507	0.484375	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200508	0.500000	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200509	0.515625	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200510	0.531250	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200511	0.546875	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200512	0.562500	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200513	0.578125	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200514	0.593750	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200515	0.609375	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200516	0.625000	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200517	0.640625	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200518	0.656250	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200519	0.671875	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200520	0.687500	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200521	0.703125	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200522	0.718750	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200523	0.734375	DA40	9.06	2.72	6.00	4.37	2.12	6.620

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC200524	0.750000	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200525	0.765625	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200526	0.781250	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200527	0.796875	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200528	0.812500	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200529	0.828125	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200530	0.843750	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200531	0.859375	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200532	0.875000	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200533	0.890625	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200534	0.906250	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200535	0.921875	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200536	0.937500	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200537	0.953125	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200538	0.968750	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200539	0.984375	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200540	1.000000	DA40	9.06	2.72	6.00	4.37	2.12	6.620
SSCC200600	0.375000	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200601	0.390625	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200602	0.406250	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200603	0.421875	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200604	0.437500	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200605	0.453125	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200606	0.468750	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200607	0.484375	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200608	0.500000	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200609	0.515625	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200610	0.531250	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200611	0.546875	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200612	0.562500	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200613	0.578125	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200614	0.593750	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200615	0.609375	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200616	0.625000	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200617	0.640625	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200618	0.656250	DA40	8.06	2.50	6.00	4.62	2.12	7.120

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC200619	0.671875	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200620	0.687500	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200621	0.703125	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200622	0.718750	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200623	0.734375	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200624	0.750000	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200625	0.765625	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200626	0.781250	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200627	0.796875	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200628	0.812500	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200629	0.828125	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200630	0.843750	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200631	0.859375	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200632	0.875000	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200633	0.890625	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200634	0.906250	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200635	0.921875	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200636	0.937500	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200637	0.953125	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200638	0.968750	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200639	0.984375	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200640	1.000000	DA40	8.06	2.50	6.00	4.62	2.12	7.120
SSCC200700	0.375000	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200701	0.390625	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200702	0.406250	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200703	0.421875	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200704	0.437500	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200705	0.453125	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200706	0.468750	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200707	0.484375	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200708	0.500000	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200709	0.515625	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200710	0.531250	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200711	0.546875	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200712	0.562500	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200713	0.578125	SA10	8.17	2.44	6.00	5.07	2.63	7.500

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC200714	0.593750	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200715	0.609375	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200716	0.625000	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200717	0.640625	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200718	0.656250	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200719	0.671875	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200720	0.687500	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200721	0.703125	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200722	0.718750	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200723	0.734375	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200724	0.750000	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200725	0.765625	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200726	0.781250	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200727	0.796875	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200728	0.812500	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200729	0.828125	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200730	0.843750	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200731	0.859375	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200732	0.875000	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200733	0.890625	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200734	0.906250	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200735	0.921875	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200736	0.937500	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200737	0.953125	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200738	0.968750	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200739	0.984375	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200740	1.000000	SA10	8.17	2.44	6.00	5.07	2.63	7.500
SSCC200800	0.500000	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200801	0.515625	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200802	0.531250	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200803	0.546875	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200804	0.562500	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200805	0.578125	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200806	0.593750	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200807	0.609375	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200808	0.625000	SA15	11.70	3.50	8.00	7.11	3.21	11.000

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC200809	0.640625	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200810	0.656250	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200811	0.671875	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200812	0.687500	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200813	0.703125	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200814	0.718750	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200815	0.734375	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200816	0.750000	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200817	0.765625	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200818	0.781250	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200819	0.796875	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200820	0.812500	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200821	0.828125	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200822	0.843750	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200823	0.859375	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200824	0.875000	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200825	0.890625	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200826	0.906250	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200827	0.921875	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200828	0.937500	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200829	0.953125	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200830	0.968750	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200831	0.984375	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200832	1.000000	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200833	1.015625	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200834	1.031250	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200835	1.046875	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200836	1.062500	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200837	1.078125	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200838	1.093750	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200839	1.109375	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200840	1.125000	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200841	1.140625	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200842	1.156250	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200843	1.171875	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200844	1.187500	SA15	11.70	3.50	8.00	7.11	3.21	11.000

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## STRAIGHT SHANK TOOLHOLDERS

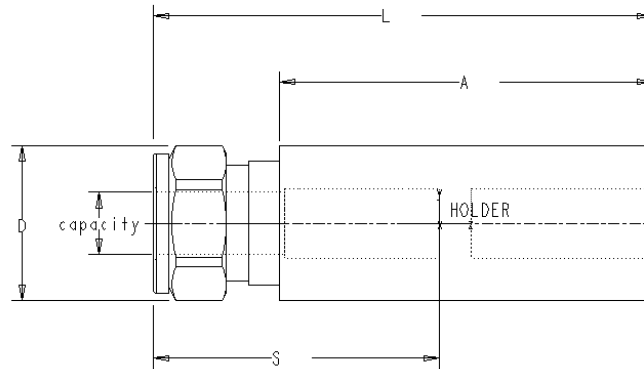
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Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC200845	1.203125	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200846	1.218750	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200847	1.234375	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200848	1.250000	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200849	1.265625	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200850	1.281250	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200851	1.296875	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200852	1.312500	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200853	1.328125	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200854	1.343750	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200855	1.359375	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200856	1.375000	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200857	1.390625	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200858	1.406250	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200859	1.421875	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200860	1.437500	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200861	1.453125	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200862	1.468750	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200863	1.484375	SA15	11.70	3.50	8.00	7.11	3.21	11.000
SSCC200864	1.500000	SA15	11.70	3.50	8.00	7.11	3.21	11.000

## STRAIGHT SHANK TOOLHOLDERS

### 2-1/2" DIAMETER SHANK, 3/8" THRU 1" TOOL SHANK CAPACITY



**Generic Part Name: SSCC250**

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC250000	0.09375	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250001	0.10938	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250002	0.12500	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250003	0.14062	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250004	0.15625	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250005	0.17188	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250006	0.18750	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250007	0.20312	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250008	0.21875	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250009	0.23438	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250010	0.25000	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250011	0.26562	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250012	0.28125	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250013	0.29688	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250014	0.31250	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250015	0.32812	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250016	0.34375	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250017	0.35938	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250018	0.37500	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250019	0.39062	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250020	0.40625	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250021	0.42188	DA40	8.06	2.50	6.02	4.62	2.120	7.120

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## STRAIGHT SHANK TOOLHOLDERS

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Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC250022	0.43750	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250023	0.45312	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250024	0.46875	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250025	0.48438	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250026	0.50000	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250027	0.51562	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250028	0.53125	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250029	0.54688	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250030	0.56250	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250031	0.57812	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250032	0.59375	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250033	0.60938	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250034	0.62500	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250035	0.64062	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250036	0.65625	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250037	0.67188	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250038	0.68750	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250039	0.70312	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250040	0.71875	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250041	0.73438	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250042	0.75000	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250043	0.76562	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250044	0.78125	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250045	0.79688	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250046	0.81250	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250047	0.82812	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250048	0.84375	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250049	0.85938	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250050	0.87500	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250051	0.89062	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250052	0.90625	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250053	0.92188	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250054	0.93750	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250055	0.95312	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250056	0.96875	DA40	8.06	2.50	6.02	4.62	2.120	7.120

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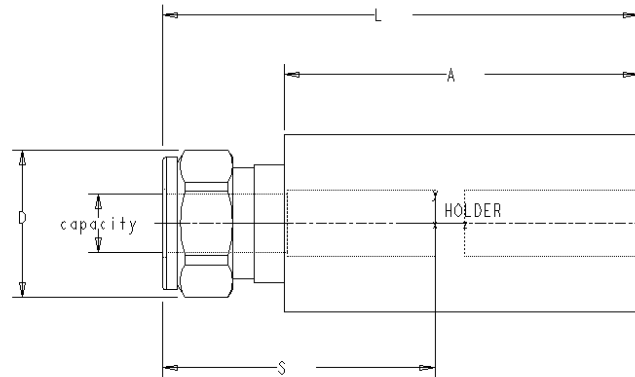
## STRAIGHT SHANK TOOLHOLDERS

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Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC250057	0.98438	DA40	8.06	2.50	6.02	4.62	2.120	7.120
SSCC250058	1.00000	DA40	8.06	2.50	6.02	4.62	2.120	7.120

## STRAIGHT SHANK TOOLHOLDERS

### 3" DIAMETER SHANK, 3/8" THRU 1" TOOL SHANK CAPACITY



#### Generic Part Name: SSCC300

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC300000	0.09375	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300001	0.10938	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300002	0.12500	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300003	0.14062	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300004	0.15625	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300005	0.17188	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300006	0.18750	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300007	0.20312	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300008	0.21875	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300009	0.23438	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300010	0.25000	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300011	0.26562	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300012	0.28125	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300013	0.29688	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300014	0.31250	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300015	0.32812	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300016	0.34375	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300017	0.35938	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300018	0.37500	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300019	0.39062	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300020	0.40625	DA40	8.06	2.50	6.00	4.62	2.120	7.120

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC300021	0.42188	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300022	0.43750	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300023	0.45312	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300024	0.46875	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300025	0.48438	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300026	0.50000	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300027	0.51562	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300028	0.53125	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300029	0.54688	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300030	0.56250	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300031	0.57812	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300032	0.59375	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300033	0.60938	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300034	0.62500	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300035	0.64062	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300036	0.65625	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300037	0.67188	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300038	0.68750	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300039	0.70312	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300040	0.71875	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300041	0.73438	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300042	0.75000	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300043	0.76562	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300044	0.78125	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300045	0.79688	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300046	0.81250	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300047	0.82812	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300048	0.84375	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300049	0.85938	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300050	0.87500	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300051	0.89062	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300052	0.90625	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300053	0.92188	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300054	0.93750	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300055	0.95312	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300056	0.96875	DA40	8.06	2.50	6.00	4.62	2.120	7.120

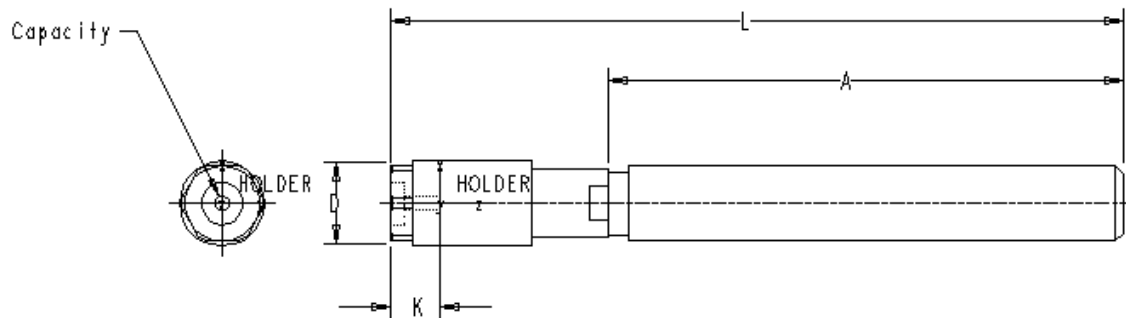
## STRAIGHT SHANK TOOLHOLDERS

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Instance Name	capacity	Collet Series	L	D	A	S	S_min	S_max
SSCC300057	0.98438	DA40	8.06	2.50	6.00	4.62	2.120	7.120
SSCC300058	1.00000	DA40	8.06	2.50	6.00	4.62	2.120	7.120

## COLLET TAP CHUCKS

**3/4" DIAMETER SHANK, #0 THRU 1/2" HAND TAP, 1/8" PIPE TAP**

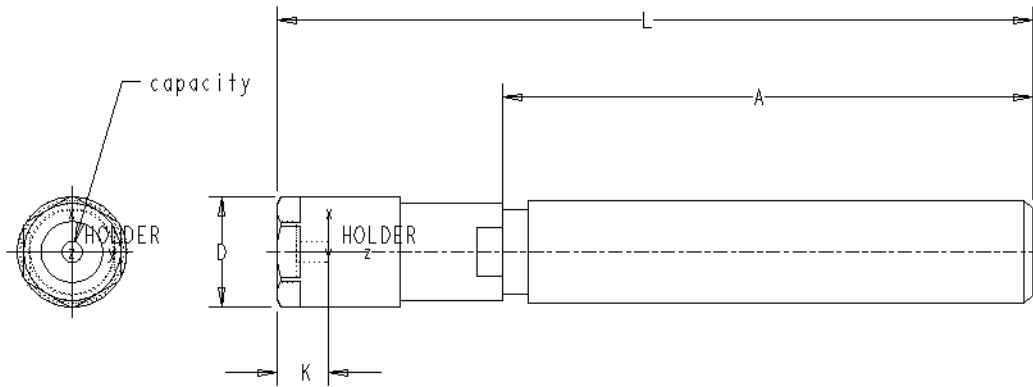


**Generic Part Name: SSTC075**

Instance Name	capacity	Collet Series	Tap Size	L	D	A	K
SSTC075100	0.141	0 THRU 6	J	7.31	0.81	5.13	0.500
SSTC075101	0.168	NO. 8	J	7.31	0.81	5.13	0.500
SSTC075102	0.194	NO. 10	J	7.31	0.81	5.13	0.500
SSTC075103	0.220	NO. 12	J	7.31	0.81	5.13	0.500
SSTC075104	0.255	NO.14,	J	7.31	0.81	5.13	0.500
SSTC075105	0.318	5/16 IN	J	7.31	0.81	5.13	0.500
SSTC075106	0.381	3/8 IN	J	7.31	0.81	5.13	0.500
SSTC075107	0.323	7/16 IN	J	7.31	0.81	5.13	0.500
SSTC075108	0.367	1/2 IN	J	7.31	0.81	5.13	0.500
SSTC075109	0.313	1/16 PIPE	J	7.31	0.81	5.13	0.500

## STRAIGHT SHANK TOOLHOLDERS

### 1" DIAMETER SHANK, #0 THRU 7/8" HAND TAP, 1/8" THRU 1/2" PIPE TAP



### Generic Part Name: SSTC100

Instance Name	capacity	Tap Size	Collet Series	L	D	A	K
SSTC075100	0.141	0 THRU 6	K	7.19	1.06	5.12	0.48
SSTC075101	0.168	NO. 8	K	7.19	1.06	5.12	0.48
SSTC075102	0.194	NO. 10	K	7.19	1.06	5.12	0.48
SSTC075103	0.220	NO. 12	K	7.19	1.06	5.12	0.48
SSTC075104	0.255	NO. 14,	K	7.19	1.06	5.12	0.48
SSTC075105	0.318	5/16 IN	K	7.19	1.06	5.12	0.48
SSTC075106	0.381	3/8 IN	K	7.19	1.06	5.12	0.48
SSTC075107	0.323	7/16 IN	K	7.19	1.06	5.12	0.48
SSTC075108	0.367	1/2 IN	K	7.19	1.06	5.12	0.48
SSTC075109	0.429	9/16 IN	K	7.19	1.06	5.12	0.48
SSTC075110	0.480	5/8 IN	K	7.19	1.06	5.12	0.48
SSTC075111	0.313	1/16 PIPE	K	7.19	1.06	5.12	0.48
SSTC075112	0.438	1/8 PIPE	K	7.19	1.06	5.12	0.48
SSTC075200	0.141	0 THRU 6	L	7.69	1.31	3.75	0.56
SSTC075201	0.168	NO. 8	L	7.69	1.31	3.75	0.56
SSTC075202	0.194	NO. 10	L	7.69	1.31	3.75	0.56
SSTC075203	0.220	NO. 12	L	7.69	1.31	3.75	0.56
SSTC075204	0.255	1/4 IN	L	7.69	1.31	3.75	0.56
SSTC075205	0.318	5/16 IN	L	7.69	1.31	3.75	0.56
SSTC075206	0.381	3/8 IN	L	7.69	1.31	3.75	0.56

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## STRAIGHT SHANK TOOLHOLDERS

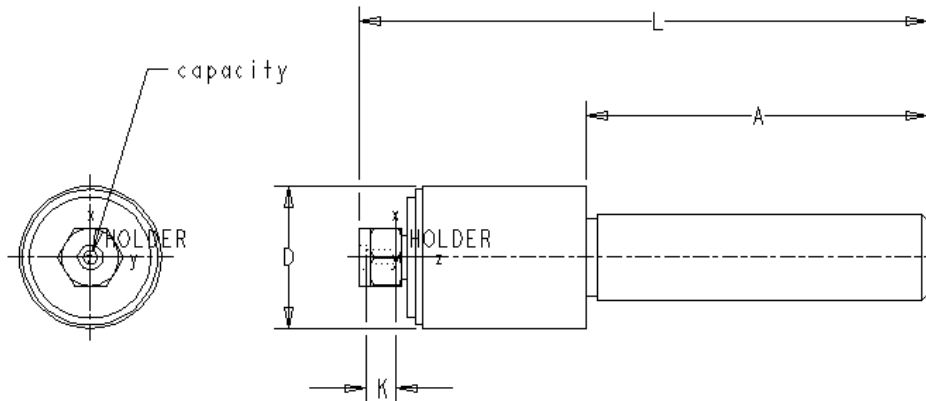
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Instance Name	capacity	Tap Size	Collet Series	L	D	A	K
SSTC075207	0.323	7/16 IN	L	7.69	1.31	3.75	0.56
SSTC075208	0.367	1/2 IN	L	7.69	1.31	3.75	0.56
SSTC075209	0.429	9/16 IN	L	7.69	1.31	3.75	0.56
SSTC075210	0.480	5/8 IN	L	7.69	1.31	3.75	0.56
SSTC075211	0.590	3/4 IN	L	7.69	1.31	3.75	0.56
SSTC075212	0.697	7/8 IN	L	7.69	1.31	3.75	0.56
SSTC075213	0.313	1/16 PIPE	L	7.69	1.31	3.75	0.56
SSTC075214	0.438	1/8 PIPE	L	7.69	1.31	3.75	0.56
SSTC075215	0.563	1/4 PIPE	L	7.69	1.31	3.75	0.56
SSTC075216	0.700	3/8 PIPE	L	7.69	1.31	3.75	0.56
SSTC075217	0.688	1/2 PIPE	L	7.69	1.31	3.75	0.56

## STRAIGHT SHANK TOOLHOLDERS

### 1-1/2" DIAMETER SHANK, #0 THRU 1-5/8" HAND TAP, 1/8" THRU 1-1/4" PIPE TAP



### Generic Part Name: SSTC150

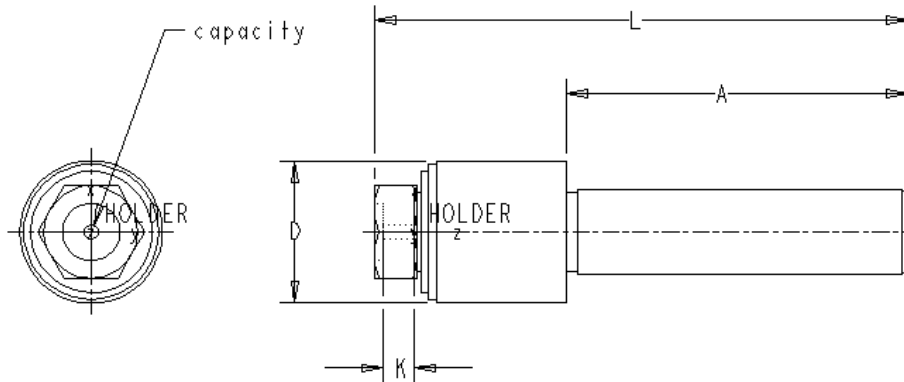
Instance Name	capacity	Collet Series	Tap Size	L	D	A	K
SSTC150100	0.141	J	0 THRU 6	10.00	2.50	6.00	0.500
SSTC150101	0.168	J	NO. 8	10.00	2.50	6.00	0.500
SSTC150102	0.194	J	NO. 10	10.00	2.50	6.00	0.500
SSTC150103	0.220	J	NO. 12	10.00	2.50	6.00	0.500
SSTC150104	0.255	J	NO. 14, 1/4 IN.	10.00	2.50	6.00	0.5000
SSTC150105	0.318	J	5/16 IN.	10.00	2.50	6.00	0.500
SSTC150106	0.381	J	3/8 IN.	10.00	2.50	6.00	0.500
SSTC150107	0.323	J	7/16 IN.	10.00	2.50	6.00	0.500
SSTC150108	0.367	J	1/2	10.00	2.50	6.00	0.500
SSTC150109	0.313	J	1/16 PIPE	10.00	2.50	6.00	0.500
SSTC150200	0.141	L	0 THRU 6	10.00	2.50	6.00	0.562
SSTC150201	0.168	L	NO. 8	10.00	2.50	6.00	0.562
SSTC150202	0.194	L	NO. 10	10.00	2.50	6.00	0.562
SSTC150203	0.220	L	NO. 12	10.00	2.50	6.00	0.562
SSTC150204	0.255	L	1/4 IN.	10.00	2.50	6.00	0.562
SSTC150205	0.318	L	5/16 IN.	10.00	2.50	6.00	0.562
SSTC150206	0.381	L	3/8 IN.	10.00	2.50	6.00	0.562
SSTC150207	0.323	L	7/16 IN.	10.00	2.50	6.00	0.562
SSTC150208	0.367	L	1/2 IN.	10.00	2.50	6.00	0.562

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	Tap Size	L	D	A	K
SSTC150209	0.429	L	9/16 IN.	10.00	2.50	6.00	0.562
SSTC150210	0.480	L	5/8 IN.	10.00	2.50	6.00	0.562
SSTC150211	0.590	L	3/4 IN.	10.00	2.50	6.00	0.562
SSTC150212	0.697	L	7/8 IN.	10.00	2.50	6.00	0.562
SSTC150213	0.313	L	1/16 PIPE	10.00	2.50	6.00	0.562
SSTC150214	0.438	L	1/8 PIPE	10.00	2.50	6.00	0.562
SSTC150215	0.563	L	1/4 PIPE	10.00	2.50	6.00	0.562
SSTC150216	0.700	L	3/8 PIPE	10.00	2.50	6.00	0.562
SSTC150217	0.688	L	1/2 PIPE	10.00	2.50	6.00	0.562
SSTC150300	0.590	N	3/4 IN.	11.60	2.50	6.00	0.750
SSTC150301	0.697	N	7/8 IN.	11.60	2.50	6.00	0.750
SSTC150302	0.800	N	1 IN.	11.60	2.50	6.00	0.750
SSTC150303	0.896	N	1-1/8 IN.	11.60	2.50	6.00	0.750
SSTC150304	1.021	N	1-1/4 IN.	11.60	2.50	6.00	0.750
SSTC150305	1.108	N	1-3/8 IN.	11.60	2.50	6.00	0.750
SSTC150306	1.233	N	1-1/2 IN.	11.60	2.50	6.00	0.750
SSTC150307	1.305	N	1-5/8 IN.	11.60	2.50	6.00	0.750
SSTC150308	0.688	N	1/2 PIPE	11.60	2.50	6.00	0.750
SSTC150309	0.906	N	3/4 PIPE	11.60	2.50	6.00	0.750
SSTC150310	1.125	N	1 PIPE	11.60	2.50	6.00	0.750
SSTC150311	1.313	N	1-1/4 PIPE	11.60	2.50	6.00	0.750

## STRAIGHT SHANK TOOLHOLDERS

### 2" DIAMETER SHANK, 1/4" THRU 1-5/8" HAND TAP, 1/16" THRU 1-1/4" PIPE TAP



### Generic Part Name: SSTC200

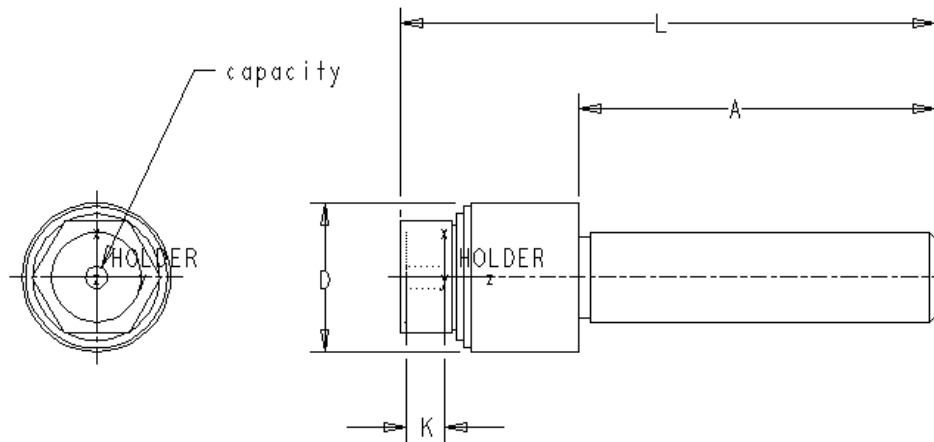
Instance Name	capacity	Collet Series	Tap Size	L	D	A	K
SSTC200100	0.141	L	0 THRU 6	9.37	2.50	6.00	0.562
SSTC200101	0.168	L	NO. 8	9.37	2.50	6.00	0.562
SSTC200102	0.194	L	NO. 10	9.37	2.50	6.00	0.562
SSTC200103	0.220	L	NO. 12	9.37	2.50	6.00	0.562
SSTC200104	0.255	L	1/4 IN.	9.37	2.50	6.00	0.562
SSTC200105	0.318	L	5/16 IN.	9.37	2.50	6.00	0.562
SSTC200106	0.381	L	3/8 IN.	9.37	2.50	6.00	0.562
SSTC200107	0.323	L	7/16 IN.	9.37	2.50	6.00	0.562
SSTC200108	0.367	L	1/2 IN.	9.37	2.50	6.00	0.562
SSTC200109	0.429	L	9/16 IN.	9.37	2.50	6.00	0.562
SSTC200110	0.480	L	5/8 IN.	9.37	2.50	6.00	0.562
SSTC200111	0.590	L	3/4 IN.	9.37	2.50	6.00	0.562
SSTC200112	0.697	L	7/8 IN.	9.37	2.50	6.00	0.562
SSTC200113	0.313	L	1/16 PIPE	9.37	2.50	6.00	0.562
SSTC200114	0.438	L	1/8 PIPE	9.37	2.50	6.00	0.562
SSTC200115	0.563	L	1/4 PIPE	9.37	2.50	6.00	0.562
SSTC200116	0.700	L	3/8 PIPE	9.37	2.50	6.00	0.562
SSTC200117	0.688	L	1/2 PIPE	9.37	2.50	6.00	0.562
SSTC200200	0.367	M	1/2 IN.	9.25	2.50	6.00	0.625

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	Tap Size	L	D	A	K
SSTC200201	0.429	M	9/16 IN.	9.25	2.50	6.00	0.625
SSTC200202	0.480	M	5/8 IN.	9.25	2.50	6.00	0.625
SSTC200203	0.542	M	11/16 IN.	9.25	2.50	6.00	0.625
SSTC200204	0.590	M	3/4 IN.	9.25	2.50	6.00	0.625
SSTC200205	0.697	M	7/8 IN.	9.25	2.50	6.00	0.625
SSTC200206	0.800	M	1 IN.	9.25	2.50	6.00	0.625
SSTC200207	0.896	M	1-1/8 IN.	9.25	2.50	6.00	0.625
SSTC200208	1.021	M	1-1/4 IN.	9.25	2.50	6.00	0.625
SSTC200209	0.700	M	3/8 PIPE	9.25	2.50	6.00	0.625
SSTC200210	0.688	M	1/2 PIPE	9.25	2.50	6.00	0.625
SSTC200211	0.906	M	3/4 PIPE	9.25	2.50	6.00	0.625
SSTC200300	0.590	N	3/4 IN.	11.00	2.50	6.00	0.750
SSTC200301	0.697	N	7/8 IN.	11.00	2.50	6.00	0.750
SSTC200302	0.800	N	1 IN.	11.00	2.50	6.00	0.750
SSTC200303	0.896	N	1-1/8 IN.	11.00	2.50	6.00	0.750
SSTC200304	1.021	N	1-1/4 IN.	11.00	2.50	6.00	0.750
SSTC200305	1.108	N	1-3/8 IN.	11.00	2.50	6.00	0.750
SSTC200306	1.233	N	1-1/2 IN.	11.00	2.50	6.00	0.750
SSTC200307	1.305	N	1-5/8 IN.	11.00	2.50	6.00	0.750
SSTC200308	0.688	N	1/2 PIPE	11.00	2.50	6.00	0.750
SSTC200309	0.906	N	3/4 PIPE	11.00	2.50	6.00	0.750
SSTC200310	1.125	N	1 PIPE	11.00	2.50	6.00	0.750
SSTC200311	1.313	N	1-1/4 PIPE	11.00	2.50	6.00	0.750

## STRAIGHT SHANK TOOLHOLDERS

### 2-1/2" DIAMETER SHANK, 1/2" THRU 1-1/4" HAND TAP, 3/8" THRU 3/4" PIPE TAP

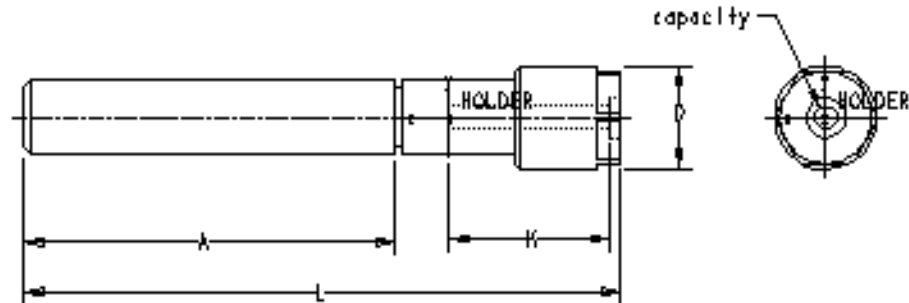


### Generic Part Name: SSTC250

Instance Name	capacity	Collet Series	Tap Size	L	D	A	K
SSTC250100	0.367	M	1/2 IN.	9.00	2.50	6.00	0.625
SSTC250101	0.429	M	9/16 IN.	9.00	2.50	6.00	0.625
SSTC250102	0.480	M	5/8 IN.	9.00	2.50	6.00	0.625
SSTC250103	0.542	M	11/16 IN.	9.00	2.50	6.00	0.625
SSTC250104	0.590	M	3/4 IN.	9.00	2.50	6.00	0.625
SSTC250105	0.697	M	7/8 IN.	9.00	2.50	6.00	0.625
SSTC250106	0.800	M	1 IN.	9.00	2.50	6.00	0.625
SSTC250107	0.896	M	1-1/8 IN.	9.00	2.50	6.00	0.625
SSTC250108	1.021	M	1-1/4 IN.	9.00	2.50	6.00	0.625
SSTC250109	0.700	M	3/8 PIPE	9.00	2.50	6.00	0.625
SSTC250110	0.688	M	1/2 PIPE	9.00	2.50	6.00	0.625
SSTC250111	0.906	M	3/4 PIPE	9.00	2.50	6.00	0.625

## FLOATING HOLDERS

1/2" DIAMETER SHANK, 1/64" THRU 1/4" TOOL SHANK CAPACITY

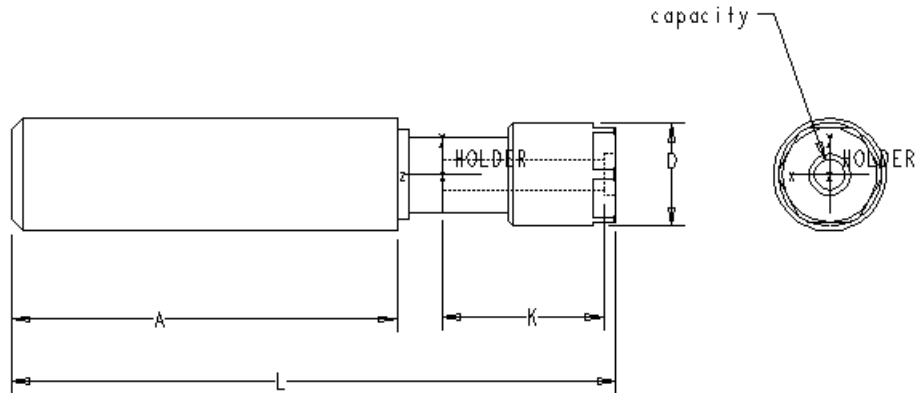


Generic Part Name: SSDP050

Instance Name	capacity	Collet Series	L	D	A
SSDP050100	0.031250	DA30	4.03	0.690	2.50
SSDP050101	0.046875	DA30	4.03	0.690	2.50
SSDP050102	0.062500	DA30	4.03	0.690	2.50
SSDP050103	0.078125	DA30	4.03	0.690	2.50
SSDP050104	0.093750	DA30	4.03	0.690	2.50
SSDP050105	0.109375	DA30	4.03	0.690	2.50
SSDP050106	0.125000	DA30	4.03	0.690	2.50
SSDP050107	0.140625	DA30	4.03	0.690	2.50
SSDP050108	0.156250	DA30	4.03	0.690	2.50
SSDP050109	0.171875	DA30	4.03	0.690	2.50
SSDP050110	0.187500	DA30	4.03	0.690	2.50
SSDP050111	0.203125	DA30	4.03	0.690	2.50
SSDP050112	0.218750	DA30	4.03	0.690	2.50
SSDP050113	0.234375	DA30	4.03	0.690	2.50
SSDP050114	0.250000	DA30	4.03	0.690	2.50

## STRAIGHT SHANK TOOLHOLDERS

### 3/4" DIAMETER SHANK, 1/64" THRU 3/8" TOOL SHANK CAPACITY



**Generic Part Name: SSDP075**

Instance Name	capacity	Collet Series	L	D	A
SSDP075100	0.031250	DA30	4.03	0.690	2.57
SSDP075101	0.046875	DA30	4.03	0.690	2.57
SSDP075102	0.062500	DA30	4.03	0.690	2.57
SSDP075103	0.078125	DA30	4.03	0.690	2.57
SSDP075104	0.093750	DA30	4.03	0.690	2.57
SSDP075105	0.109375	DA30	4.03	0.690	2.57
SSDP075106	0.125000	DA30	4.03	0.690	2.57
SSDP075107	0.140625	DA30	4.03	0.690	2.57
SSDP075108	0.156250	DA30	4.03	0.690	2.57
SSDP075109	0.171875	DA30	4.03	0.690	2.57
SSDP075110	0.187500	DA30	4.03	0.690	2.57
SSDP075111	0.203125	DA30	4.03	0.690	2.57
SSDP075112	0.218750	DA30	4.03	0.690	2.57
SSDP075113	0.234375	DA30	4.03	0.690	2.57
SSDP075114	0.250000	DA30	4.03	0.690	2.57
SSDP075200	0.125000	DA20	4.48	0.940	2.88
SSDP075201	0.140625	DA20	4.48	0.940	2.88
SSDP075202	0.156250	DA20	4.48	0.940	2.88
SSDP075203	0.171875	DA20	4.48	0.940	2.88
SSDP075204	0.187500	DA20	4.48	0.940	2.88
SSDP075205	0.203125	DA20	4.48	0.940	2.88

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## STRAIGHT SHANK TOOLHOLDERS

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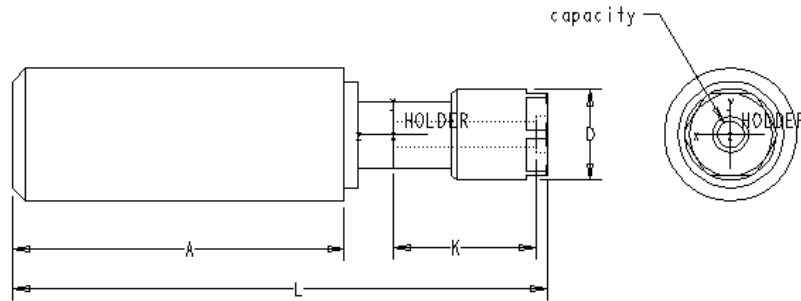
Instance Name	capacity	Collet Series	L	D	A
SSDP075206	0.218750	DA20	4.48	0.940	2.88
SSDP075207	0.234375	DA20	4.48	0.940	2.88
SSDP075208	0.250000	DA20	4.48	0.940	2.88
SSDP075209	0.265625	DA20	4.48	0.940	2.88
SSDP075210	0.281250	DA20	4.48	0.940	2.88
SSDP075211	0.296875	DA20	4.48	0.940	2.88
SSDP075212	0.312500	DA20	4.48	0.940	2.88
SSDP075213	0.328125	DA20	4.48	0.940	2.88
SSDP075214	0.343750	DA20	4.48	0.940	2.88
SSDP075215	0.359375	DA20	4.48	0.940	2.88
SSDP075216	0.375000	DA20	4.48	0.940	2.88

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## STRAIGHT SHANK TOOLHOLDERS

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### 1" DIAMETER SHANK, 1/64" THRU 9/16" TOOL SHANK CAPACITY



#### Generic Part Name: SSDP100

Instance Name	capacity	Collet Series	L	D	A
SSDP100100	0.031250	DA30	4.03	0.750	2.50
SSDP100101	0.046875	DA30	4.03	0.750	2.50
SSDP100102	0.062500	DA30	4.03	0.750	2.50
SSDP100103	0.078125	DA30	4.03	0.750	2.50
SSDP100104	0.093750	DA30	4.03	0.750	2.50
SSDP100105	0.109375	DA30	4.03	0.750	2.50
SSDP100106	0.125000	DA30	4.03	0.750	2.50
SSDP100107	0.140625	DA30	4.03	0.750	2.50
SSDP100108	0.156250	DA30	4.03	0.750	2.50
SSDP100109	0.171875	DA30	4.03	0.750	2.50
SSDP100110	0.187500	DA30	4.03	0.750	2.50
SSDP100111	0.203125	DA30	4.03	0.750	2.50
SSDP100112	0.218750	DA30	4.03	0.750	2.50
SSDP100113	0.234375	DA30	4.03	0.750	2.50
SSDP100114	0.250000	DA30	4.03	0.750	2.50
SSDP100200	0.125000	DA20	4.50	0.940	3.00
SSDP100201	0.140625	DA20	4.50	0.940	3.00
SSDP100202	0.156250	DA20	4.50	0.940	3.00
SSDP100203	0.171875	DA20	4.50	0.940	3.00
SSDP100204	0.187500	DA20	4.50	0.940	3.00
SSDP100205	0.203125	DA20	4.50	0.940	3.00
SSDP100206	0.218750	DA20	4.50	0.940	3.00

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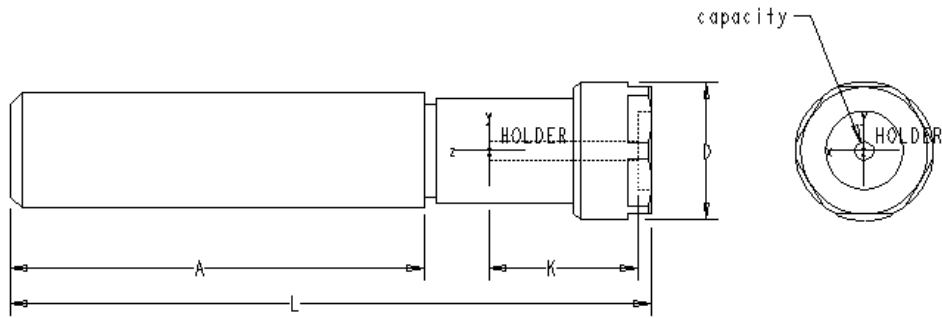
## STRAIGHT SHANK TOOLHOLDERS

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Instance Name	capacity	Collet Series	L	D	A
SSDP100207	0.234375	DA20	4.50	0.940	3.00
SSDP100208	0.250000	DA20	4.50	0.940	3.00
SSDP100209	0.265625	DA20	4.50	0.940	3.00
SSDP100210	0.281250	DA20	4.50	0.940	3.00
SSDP100211	0.296875	DA20	4.50	0.940	3.00
SSDP100212	0.312500	DA20	4.50	0.940	3.00
SSDP100213	0.328125	DA20	4.50	0.940	3.00
SSDP100214	0.343750	DA20	4.50	0.940	3.00
SSDP100215	0.359375	DA20	4.50	0.940	3.00
SSDP100216	0.375000	DA20	4.50	0.940	3.00
SSDP100300	0.250000	DA10	5.62	1.190	3.50
SSDP100301	0.265625	DA10	5.62	1.190	3.50
SSDP100302	0.281250	DA10	5.62	1.190	3.50
SSDP100303	0.296875	DA10	5.62	1.190	3.50
SSDP100304	0.312500	DA10	5.62	1.190	3.50
SSDP100305	0.328125	DA10	5.62	1.190	3.50
SSDP100306	0.343750	DA10	5.62	1.190	3.50
SSDP100307	0.359375	DA10	5.62	1.190	3.50
SSDP100308	0.375000	DA10	5.62	1.190	3.50
SSDP100309	0.390625	DA10	5.62	1.190	3.50
SSDP100310	0.406250	DA10	5.62	1.190	3.50
SSDP100311	0.421875	DA10	5.62	1.190	3.50
SSDP100312	0.437500	DA10	5.62	1.190	3.50
SSDP100313	0.453125	DA10	5.62	1.190	3.50
SSDP100314	0.468750	DA10	5.62	1.190	3.50
SSDP100315	0.484375	DA10	5.62	1.190	3.50
SSDP100316	0.500000	DA10	5.62	1.190	3.50
SSDP100317	0.515625	DA10	5.62	1.190	3.50
SSDP100318	0.531250	DA10	5.62	1.190	3.50
SSDP100319	0.546875	DA10	5.62	1.190	3.50
SSDP100320	0.562500	DA10	5.62	1.190	3.50

## STRAIGHT SHANK TOOLHOLDERS

### 1-1/4" DIAMETER SHANK, 1/4" THRU 3/4" TOOL SHANK CAPACITY



#### Generic Part Name: SSDP125

Instance Name	capacity	Collet Series	L	D	A
SSDP1251000	0.250000	DA18	6.96	1.500	4.50
SSDP1251001	0.265625	DA18	6.96	1.500	4.50
SSDP1251002	0.281250	DA18	6.96	1.500	4.50
SSDP1251003	0.296875	DA18	6.96	1.500	4.50
SSDP1251004	0.312500	DA18	6.96	1.500	4.50
SSDP1251005	0.328125	DA18	6.96	1.500	4.50
SSDP1251006	0.343750	DA18	6.96	1.500	4.50
SSDP1251007	0.359375	DA18	6.96	1.500	4.50
SSDP1251008	0.375000	DA18	6.96	1.500	4.50
SSDP1251009	0.390625	DA18	6.96	1.500	4.50
SSDP1251010	0.406250	DA18	6.96	1.500	4.50
SSDP1251011	0.421875	DA18	6.96	1.500	4.50
SSDP1251012	0.437500	DA18	6.96	1.500	4.50
SSDP1251013	0.453125	DA18	6.96	1.500	4.50
SSDP1251014	0.468750	DA18	6.96	1.500	4.50
SSDP1251015	0.484375	DA18	6.96	1.500	4.50
SSDP1251016	0.500000	DA18	6.96	1.500	4.50
SSDP1251017	0.515625	DA18	6.96	1.500	4.50
SSDP1251018	0.531250	DA18	6.96	1.500	4.50
SSDP1251019	0.546875	DA18	6.96	1.500	4.50
SSDP1251020	0.562500	DA18	6.96	1.500	4.50

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## STRAIGHT SHANK TOOLHOLDERS

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Instance Name	capacity	Collet Series	L	D	A
SSDP1251021	0.578125	DA18	6.96	1.500	4.50
SSDP1251022	0.593750	DA18	6.96	1.500	4.50
SSDP1251023	0.609375	DA18	6.96	1.500	4.50
SSDP1251024	0.625000	DA18	6.96	1.500	4.50
SSDP1251025	0.640625	DA18	6.96	1.500	4.50
SSDP1251026	0.656250	DA18	6.96	1.500	4.50
SSDP1251027	0.671875	DA18	6.96	1.500	4.50
SSDP1251028	0.687500	DA18	6.96	1.500	4.50
SSDP1251029	0.703125	DA18	6.96	1.500	4.50
SSDP1251030	0.718750	DA18	6.96	1.500	4.50
SSDP1251031	0.734375	DA18	6.96	1.500	4.50
SSDP1251032	0.750000	DA18	6.96	1.500	4.50

### 3/4" DIAMETER SHANK, 1/8" THRU 3/4" TOOL SHANK CAPACITY



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## STRAIGHT SHANK TOOLHOLDERS

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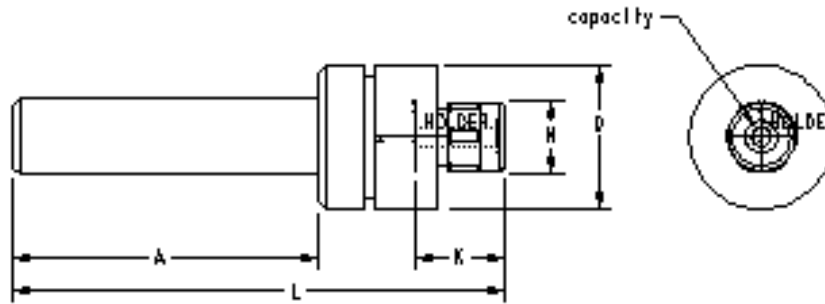
Instance Name	capacity	Collet Series	L	D	A	N	K
SSFC075205	0.328	DA18	6.88	2.38	4.00	1.72	1.62
SSFC075206	0.344	DA18	6.88	2.38	4.00	1.72	1.62
SSFC075207	0.359	DA18	6.88	2.38	4.00	1.72	1.62
SSFC075208	0.375	DA18	6.88	2.38	4.00	1.72	1.62
SSFC075209	0.391	DA18	6.88	2.38	4.00	1.72	1.62
SSFC075210	0.406	DA18	6.88	2.38	4.00	1.72	1.62
SSFC075211	0.422	DA18	6.88	2.38	4.00	1.72	1.62
SSFC075212	0.438	DA18	6.88	2.38	4.00	1.72	1.62
SSFC075213	0.453	DA18	6.88	2.38	4.00	1.72	1.62
SSFC075214	0.469	DA18	6.88	2.38	4.00	1.72	1.62
SSFC075215	0.484	DA18	6.88	2.38	4.00	1.72	1.62
SSFC075216	0.500	DA18	6.88	2.38	4.00	1.72	1.62
SSFC075217	0.516	DA18	6.88	2.38	4.00	1.72	1.62
SSFC075218	0.531	DA18	6.88	2.38	4.00	1.72	1.62
SSFC075219	0.547	DA18	6.88	2.38	4.00	1.72	1.62
SSFC075220	0.562	DA18	6.88	2.38	4.00	1.72	1.62
SSFC075221	0.578	DA18	6.88	2.38	4.00	1.72	1.62
SSFC075222	0.594	DA18	6.88	2.38	4.00	1.72	1.62
SSFC075223	0.609	DA18	6.88	2.38	4.00	1.72	1.62
SSFC075224	0.625	DA18	6.88	2.38	4.00	1.72	1.62
SSFC075225	0.641	DA18	6.88	2.38	4.00	1.72	1.62
SSFC075226	0.656	DA18	6.88	2.38	4.00	1.72	1.62
SSFC075227	0.672	DA18	6.88	2.38	4.00	1.72	1.62
SSFC075228	0.688	DA18	6.88	2.38	4.00	1.72	1.62
SSFC075229	0.703	DA18	6.88	2.38	4.00	1.72	1.62
SSFC075230	0.719	DA18	6.88	2.38	4.00	1.72	1.62
SSFC075231	0.734	DA18	6.88	2.38	4.00	1.72	1.62
SSFC075232	0.750	DA18	6.88	2.38	4.00	1.72	1.62

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## STRAIGHT SHANK TOOLHOLDERS

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### 1" DIAMETER SHANK, 1/8" THRU 3/4" TOOL SHANK CAPACITY



**Generic Part Name: SSFC100**

Instance Name	capacity	Collet Series	L	D	A	N	K
SSFC100100	0.125	DA20	6.44	1.88	4.00	0.94	1.18
SSFC100101	0.141	DA20	6.44	1.88	4.00	0.94	1.18
SSFC100102	0.156	DA20	6.44	1.88	4.00	0.94	1.18
SSFC100103	0.172	DA20	6.44	1.88	4.00	0.94	1.18
SSFC100104	0.188	DA20	6.44	1.88	4.00	0.94	1.18
SSFC100105	0.203	DA20	6.44	1.88	4.00	0.94	1.18
SSFC100106	0.219	DA20	6.44	1.88	4.00	0.94	1.18
SSFC100107	0.234	DA20	6.44	1.88	4.00	0.94	1.18
SSFC100108	0.250	DA20	6.44	1.88	4.00	0.94	1.18
SSFC100109	0.266	DA20	6.44	1.88	4.00	0.94	1.18
SSFC100110	0.281	DA20	6.44	1.88	4.00	0.94	1.18
SSFC100111	0.297	DA20	6.44	1.88	4.00	0.94	1.18
SSFC100112	0.312	DA20	6.44	1.88	4.00	0.94	1.18
SSFC100113	0.328	DA20	6.44	1.88	4.00	0.94	1.18
SSFC100114	0.344	DA20	6.44	1.88	4.00	0.94	1.18
SSFC100115	0.359	DA20	6.44	1.88	4.00	0.94	1.18
SSFC100116	0.375	DA20	6.44	1.88	4.00	0.94	1.18
SSFC100200	0.250	DA10	6.59	2.06	4.00	1.42	1.44
SSFC100201	0.266	DA10	6.59	2.06	4.00	1.42	1.44
SSFC100202	0.281	DA10	6.59	2.06	4.00	1.42	1.44
SSFC100203	0.297	DA10	6.59	2.06	4.00	1.42	1.44
SSFC100204	0.312	DA10	6.59	2.06	4.00	1.42	1.44

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	N	K
SSFC100205	0.328	DA10	6.59	2.06	4.00	1.42	1.44
SSFC100206	0.344	DA10	6.59	2.06	4.00	1.42	1.44
SSFC100207	0.359	DA10	6.59	2.06	4.00	1.42	1.44
SSFC100208	0.375	DA10	6.59	2.06	4.00	1.42	1.44
SSFC100209	0.391	DA10	6.59	2.06	4.00	1.42	1.44
SSFC100210	0.406	DA10	6.59	2.06	4.00	1.42	1.44
SSFC100211	0.422	DA10	6.59	2.06	4.00	1.42	1.44
SSFC100212	0.438	DA10	6.59	2.06	4.00	1.42	1.44
SSFC100213	0.453	DA10	6.59	2.06	4.00	1.42	1.44
SSFC100214	0.469	DA10	6.59	2.06	4.00	1.42	1.44
SSFC100215	0.484	DA10	6.59	2.06	4.00	1.42	1.44
SSFC100216	0.500	DA10	6.59	2.06	4.00	1.42	1.44
SSFC100217	0.516	DA10	6.59	2.06	4.00	1.42	1.44
SSFC100218	0.531	DA10	6.59	2.06	4.00	1.42	1.44
SSFC100219	0.547	DA10	6.59	2.06	4.00	1.42	1.44
SSFC100220	0.562	DA10	6.59	2.06	4.00	1.42	1.44
SSFC100300	0.250	DA18	6.88	2.38	4.00	1.74	1.62
SSFC100301	0.266	DA18	6.88	2.38	4.00	1.74	1.62
SSFC100302	0.281	DA18	6.88	2.38	4.00	1.74	1.62
SSFC100303	0.297	DA18	6.88	2.38	4.00	1.74	1.62
SSFC100304	0.312	DA18	6.88	2.38	4.00	1.74	1.62
SSFC100305	0.328	DA18	6.88	2.38	4.00	1.74	1.62
SSFC100306	0.344	DA18	6.88	2.38	4.00	1.74	1.62
SSFC100307	0.359	DA18	6.88	2.38	4.00	1.74	1.62
SSFC100308	0.375	DA18	6.88	2.38	4.00	1.74	1.62
SSFC100309	0.391	DA18	6.88	2.38	4.00	1.74	1.62
SSFC100310	0.406	DA18	6.88	2.38	4.00	1.74	1.62
SSFC100311	0.422	DA18	6.88	2.38	4.00	1.74	1.62
SSFC100312	0.438	DA18	6.88	2.38	4.00	1.74	1.62
SSFC100313	0.453	DA18	6.88	2.38	4.00	1.74	1.62
SSFC100314	0.469	DA18	6.88	2.38	4.00	1.74	1.62
SSFC100315	0.484	DA18	6.88	2.38	4.00	1.74	1.62
SSFC100316	0.500	DA18	6.88	2.38	4.00	1.74	1.62
SSFC100317	0.516	DA18	6.88	2.38	4.00	1.74	1.62
SSFC100318	0.531	DA18	6.88	2.38	4.00	1.74	1.62
SSFC100319	0.547	DA18	6.88	2.38	4.00	1.74	1.62

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	N	K
SSFC100320	0.562	DA18	6.88	2.38	4.00	1.74	1.62
SSFC100321	0.578	DA18	6.88	2.38	4.00	1.74	1.62
SSFC100322	0.594	DA18	6.88	2.38	4.00	1.74	1.62
SSFC100323	0.609	DA18	6.88	2.38	4.00	1.74	1.62
SSFC100324	0.625	DA18	6.88	2.38	4.00	1.74	1.62
SSFC100325	0.641	DA18	6.88	2.38	4.00	1.74	1.62
SSFC100326	0.656	DA18	6.88	2.38	4.00	1.74	1.62
SSFC100327	0.672	DA18	6.88	2.38	4.00	1.74	1.62
SSFC100328	0.688	DA18	6.88	2.38	4.00	1.74	1.62
SSFC100329	0.703	DA18	6.88	2.38	4.00	1.74	1.62
SSFC100330	0.719	DA18	6.88	2.38	4.00	1.74	1.62
SSFC100331	0.734	DA18	6.88	2.38	4.00	1.74	1.62
SSFC100332	0.750	DA18	6.88	2.38	4.00	1.74	1.62
SSFC100400	0.250	DA18	8.88	2.38	6.00	1.74	1.62
SSFC100401	0.266	DA18	8.88	2.38	6.00	1.74	1.62
SSFC100402	0.281	DA18	8.88	2.38	6.00	1.74	1.62
SSFC100403	0.297	DA18	8.88	2.38	6.00	1.74	1.62
SSFC100404	0.312	DA18	8.88	2.38	6.00	1.74	1.62
SSFC100405	0.328	DA18	8.88	2.38	6.00	1.74	1.62
SSFC100406	0.344	DA18	8.88	2.38	6.00	1.74	1.62
SSFC100407	0.359	DA18	8.88	2.38	6.00	1.74	1.62
SSFC100408	0.375	DA18	8.88	2.38	6.00	1.74	1.62
SSFC100409	0.391	DA18	8.88	2.38	6.00	1.74	1.62
SSFC100410	0.406	DA18	8.88	2.38	6.00	1.74	1.62
SSFC100411	0.422	DA18	8.88	2.38	6.00	1.74	1.62
SSFC100412	0.438	DA18	8.88	2.38	6.00	1.74	1.62
SSFC100413	0.453	DA18	8.88	2.38	6.00	1.74	1.62
SSFC100414	0.469	DA18	8.88	2.38	6.00	1.74	1.62
SSFC100415	0.484	DA18	8.88	2.38	6.00	1.74	1.62
SSFC100416	0.500	DA18	8.88	2.38	6.00	1.74	1.62
SSFC100417	0.516	DA18	8.88	2.38	6.00	1.74	1.62
SSFC100418	0.531	DA18	8.88	2.38	6.00	1.74	1.62
SSFC100419	0.547	DA18	8.88	2.38	6.00	1.74	1.62
SSFC100420	0.562	DA18	8.88	2.38	6.00	1.74	1.62
SSFC100421	0.578	DA18	8.88	2.38	6.00	1.74	1.62
SSFC100422	0.594	DA18	8.88	2.38	6.00	1.74	1.62

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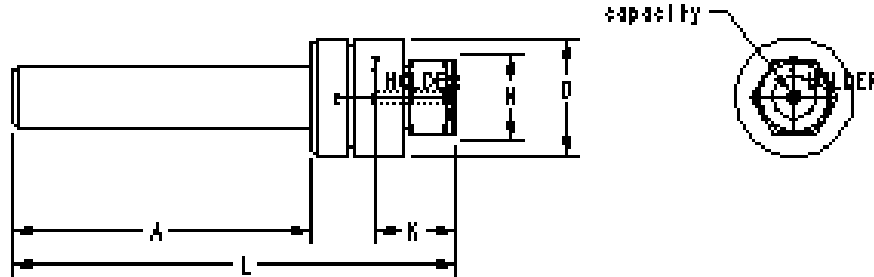
## STRAIGHT SHANK TOOLHOLDERS

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Instance Name	capacity	Collet Series	L	D	A	N	K
SSFC100423	0.609	DA18	8.88	2.38	6.00	1.74	1.62
SSFC100424	0.625	DA18	8.88	2.38	6.00	1.74	1.62
SSFC100425	0.641	DA18	8.88	2.38	6.00	1.74	1.62
SSFC100426	0.656	DA18	8.88	2.38	6.00	1.74	1.62
SSFC100427	0.672	DA18	8.88	2.38	6.00	1.74	1.62
SSFC100428	0.688	DA18	8.88	2.38	6.00	1.74	1.62
SSFC100429	0.703	DA18	8.88	2.38	6.00	1.74	1.62
SSFC100430	0.719	DA18	8.88	2.38	6.00	1.74	1.62
SSFC100431	0.734	DA18	8.88	2.38	6.00	1.74	1.62
SSFC100432	0.750	DA18	8.88	2.38	6.00	1.74	1.62

## STRAIGHT SHANK TOOLHOLDERS

### 1-1/4" DIAMETER SHANK, 1/4" THRU 3/4" TOOL SHANK CAPACITY



**Generic Part Name: SSFC125**

Instance Name	capacity	Collet Series	L	D	A	N	K
SSFC125100	0.250	DA18	8.88	2.38	6.00	1.74	1.62
SSFC125101	0.266	DA18	8.88	2.38	6.00	1.74	1.62
SSFC125102	0.281	DA18	8.88	2.38	6.00	1.74	1.62
SSFC125103	0.297	DA18	8.88	2.38	6.00	1.74	1.62
SSFC125104	0.312	DA18	8.88	2.38	6.00	1.74	1.62
SSFC125105	0.328	DA18	8.88	2.38	6.00	1.74	1.62
SSFC125106	0.344	DA18	8.88	2.38	6.00	1.74	1.62
SSFC125107	0.359	DA18	8.88	2.38	6.00	1.74	1.62
SSFC125108	0.375	DA18	8.88	2.38	6.00	1.74	1.62
SSFC125109	0.391	DA18	8.88	2.38	6.00	1.74	1.62
SSFC125110	0.406	DA18	8.88	2.38	6.00	1.74	1.62
SSFC125111	0.422	DA18	8.88	2.38	6.00	1.74	1.62
SSFC125112	0.438	DA18	8.88	2.38	6.00	1.74	1.62
SSFC125113	0.453	DA18	8.88	2.38	6.00	1.74	1.62
SSFC125114	0.469	DA18	8.88	2.38	6.00	1.74	1.62
SSFC125115	0.484	DA18	8.88	2.38	6.00	1.74	1.62
SSFC125116	0.500	DA18	8.88	2.38	6.00	1.74	1.62
SSFC125117	0.516	DA18	8.88	2.38	6.00	1.74	1.62
SSFC125118	0.531	DA18	8.88	2.38	6.00	1.74	1.62
SSFC125119	0.547	DA18	8.88	2.38	6.00	1.74	1.62
SSFC125120	0.562	DA18	8.88	2.38	6.00	1.74	1.62
SSFC125121	0.578	DA18	8.88	2.38	6.00	1.74	1.62

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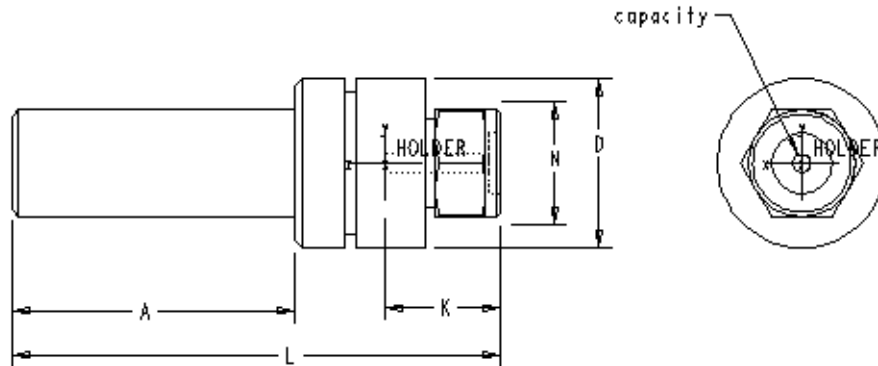
## STRAIGHT SHANK TOOLHOLDERS

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Instance Name	capacity	Collet Series	L	D	A	N	K
SSFC125122	0.594	DA18	8.88	2.38	6.00	1.74	1.62
SSFC125123	0.609	DA18	8.88	2.38	6.00	1.74	1.62
SSFC125124	0.625	DA18	8.88	2.38	6.00	1.74	1.62
SSFC125125	0.641	DA18	8.88	2.38	6.00	1.74	1.62
SSFC125126	0.656	DA18	8.88	2.38	6.00	1.74	1.62
SSFC125127	0.672	DA18	8.88	2.38	6.00	1.74	1.62
SSFC125128	0.688	DA18	8.88	2.38	6.00	1.74	1.62
SSFC125129	0.703	DA18	8.88	2.38	6.00	1.74	1.62
SSFC125130	0.719	DA18	8.88	2.38	6.00	1.74	1.62
SSFC125131	0.734	DA18	8.88	2.38	6.00	1.74	1.62
SSFC125132	0.750	DA18	8.88	2.38	6.00	1.74	1.62

## STRAIGHT SHANK TOOLHOLDERS

### 1-1/2" DIAMETER SHANK, 1/8" THRU 1" TOOL SHANK CAPACITY



**Generic Part Name: SSFC150**

Instance Name	capacity	Collet Series	L	D	A	N	K
SSFC150100	0.125	DA20	6.44	1.88	4.00	0.94	1.18
SSFC150101	0.141	DA20	6.44	1.88	4.00	0.94	1.18
SSFC150102	0.156	DA20	6.44	1.88	4.00	0.94	1.18
SSFC150103	0.172	DA20	6.44	1.88	4.00	0.94	1.18
SSFC150104	0.188	DA20	6.44	1.88	4.00	0.94	1.18
SSFC150105	0.203	DA20	6.44	1.88	4.00	0.94	1.18
SSFC150106	0.219	DA20	6.44	1.88	4.00	0.94	1.18
SSFC150107	0.234	DA20	6.44	1.88	4.00	0.94	1.18
SSFC150108	0.250	DA20	6.44	1.88	4.00	0.94	1.18
SSFC150109	0.266	DA20	6.44	1.88	4.00	0.94	1.18
SSFC150110	0.281	DA20	6.44	1.88	4.00	0.94	1.18
SSFC150111	0.297	DA20	6.44	1.88	4.00	0.94	1.18
SSFC150112	0.312	DA20	6.44	1.88	4.00	0.94	1.18
SSFC150113	0.328	DA20	6.44	1.88	4.00	0.94	1.18
SSFC150114	0.344	DA20	6.44	1.88	4.00	0.94	1.18
SSFC150115	0.359	DA20	6.44	1.88	4.00	0.94	1.18
SSFC150116	0.375	DA20	6.44	1.88	4.00	0.94	1.18
SSFC150200	0.250	DA10	6.59	2.06	4.00	1.42	1.44
SSFC150201	0.266	DA10	6.59	2.06	4.00	1.42	1.44
SSFC150202	0.281	DA10	6.59	2.06	4.00	1.42	1.44

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	N	K
SSFC150203	0.297	DA10	6.59	2.06	4.00	1.42	1.44
SSFC150204	0.312	DA10	6.59	2.06	4.00	1.42	1.44
SSFC150205	0.328	DA10	6.59	2.06	4.00	1.42	1.44
SSFC150206	0.344	DA10	6.59	2.06	4.00	1.42	1.44
SSFC150207	0.359	DA10	6.59	2.06	4.00	1.42	1.44
SSFC150208	0.375	DA10	6.59	2.06	4.00	1.42	1.44
SSFC150209	0.391	DA10	6.59	2.06	4.00	1.42	1.44
SSFC150210	0.406	DA10	6.59	2.06	4.00	1.42	1.44
SSFC150211	0.422	DA10	6.59	2.06	4.00	1.42	1.44
SSFC150212	0.438	DA10	6.59	2.06	4.00	1.42	1.44
SSFC150213	0.453	DA10	6.59	2.06	4.00	1.42	1.44
SSFC150214	0.469	DA10	6.59	2.06	4.00	1.42	1.44
SSFC150215	0.484	DA10	6.59	2.06	4.00	1.42	1.44
SSFC150216	0.500	DA10	6.59	2.06	4.00	1.42	1.44
SSFC150217	0.516	DA10	6.59	2.06	4.00	1.42	1.44
SSFC150218	0.531	DA10	6.59	2.06	4.00	1.42	1.44
SSFC150219	0.547	DA10	6.59	2.06	4.00	1.42	1.44
SSFC150220	0.562	DA10	6.59	2.06	4.00	1.42	1.44
SSFC150300	0.250	DA18	6.88	2.38	4.00	1.72	1.62
SSFC150301	0.266	DA18	6.88	2.38	4.00	1.72	1.62
SSFC150302	0.281	DA18	6.88	2.38	4.00	1.72	1.62
SSFC150303	0.297	DA18	6.88	2.38	4.00	1.72	1.62
SSFC150304	0.312	DA18	6.88	2.38	4.00	1.72	1.62
SSFC150305	0.328	DA18	6.88	2.38	4.00	1.72	1.62
SSFC150306	0.344	DA18	6.88	2.38	4.00	1.72	1.62
SSFC150307	0.359	DA18	6.88	2.38	4.00	1.72	1.62
SSFC150308	0.375	DA18	6.88	2.38	4.00	1.72	1.62
SSFC150309	0.391	DA18	6.88	2.38	4.00	1.72	1.62
SSFC150310	0.406	DA18	6.88	2.38	4.00	1.72	1.62
SSFC150311	0.422	DA18	6.88	2.38	4.00	1.72	1.62
SSFC150312	0.438	DA18	6.88	2.38	4.00	1.72	1.62
SSFC150313	0.453	DA18	6.88	2.38	4.00	1.72	1.62
SSFC150314	0.469	DA18	6.88	2.38	4.00	1.72	1.62
SSFC150315	0.484	DA18	6.88	2.38	4.00	1.72	1.62
SSFC150316	0.500	DA18	6.88	2.38	4.00	1.72	1.62
SSFC150317	0.516	DA18	6.88	2.38	4.00	1.72	1.62

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	N	K
SSFC150318	0.531	DA18	6.88	2.38	4.00	1.72	1.62
SSFC150319	0.547	DA18	6.88	2.38	4.00	1.72	1.62
SSFC150320	0.562	DA18	6.88	2.38	4.00	1.72	1.62
SSFC150321	0.578	DA18	6.88	2.38	4.00	1.72	1.62
SSFC150322	0.594	DA18	6.88	2.38	4.00	1.72	1.62
SSFC150323	0.609	DA18	6.88	2.38	4.00	1.72	1.62
SSFC150324	0.625	DA18	6.88	2.38	4.00	1.72	1.62
SSFC150325	0.641	DA18	6.88	2.38	4.00	1.72	1.62
SSFC150326	0.656	DA18	6.88	2.38	4.00	1.72	1.62
SSFC150327	0.672	DA18	6.88	2.38	4.00	1.72	1.62
SSFC150328	0.688	DA18	6.88	2.38	4.00	1.72	1.62
SSFC150329	0.703	DA18	6.88	2.38	4.00	1.72	1.62
SSFC150330	0.719	DA18	6.88	2.38	4.00	1.72	1.62
SSFC150331	0.734	DA18	6.88	2.38	4.00	1.72	1.62
SSFC150332	0.750	DA18	6.88	2.38	4.00	1.72	1.62
SSFC150400	0.250	DA18	8.88	2.38	6.00	1.72	1.62
SSFC150401	0.266	DA18	8.88	2.38	6.00	1.72	1.62
SSFC150402	0.281	DA18	8.88	2.38	6.00	1.72	1.62
SSFC150403	0.297	DA18	8.88	2.38	6.00	1.72	1.62
SSFC150404	0.312	DA18	8.88	2.38	6.00	1.72	1.62
SSFC150405	0.328	DA18	8.88	2.38	6.00	1.72	1.62
SSFC150406	0.344	DA18	8.88	2.38	6.00	1.72	1.62
SSFC150407	0.359	DA18	8.88	2.38	6.00	1.72	1.62
SSFC150408	0.375	DA18	8.88	2.38	6.00	1.72	1.62
SSFC150409	0.391	DA18	8.88	2.38	6.00	1.72	1.62
SSFC150410	0.406	DA18	8.88	2.38	6.00	1.72	1.62
SSFC150411	0.422	DA18	8.88	2.38	6.00	1.72	1.62
SSFC150412	0.438	DA18	8.88	2.38	6.00	1.72	1.62
SSFC150413	0.453	DA18	8.88	2.38	6.00	1.72	1.62
SSFC150414	0.469	DA18	8.88	2.38	6.00	1.72	1.62
SSFC150415	0.484	DA18	8.88	2.38	6.00	1.72	1.62
SSFC150416	0.500	DA18	8.88	2.38	6.00	1.72	1.62
SSFC150417	0.516	DA18	8.88	2.38	6.00	1.72	1.62
SSFC150418	0.531	DA18	8.88	2.38	6.00	1.72	1.62
SSFC150419	0.547	DA18	8.88	2.38	6.00	1.72	1.62
SSFC150420	0.562	DA18	8.88	2.38	6.00	1.72	1.62

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	N	K
SSFC150421	0.578	DA18	8.88	2.38	6.00	1.72	1.62
SSFC150422	0.594	DA18	8.88	2.38	6.00	1.72	1.62
SSFC150423	0.609	DA18	8.88	2.38	6.00	1.72	1.62
SSFC150424	0.625	DA18	8.88	2.38	6.00	1.72	1.62
SSFC150425	0.641	DA18	8.88	2.38	6.00	1.72	1.62
SSFC150426	0.656	DA18	8.88	2.38	6.00	1.72	1.62
SSFC150427	0.672	DA18	8.88	2.38	6.00	1.72	1.62
SSFC150428	0.688	DA18	8.88	2.38	6.00	1.72	1.62
SSFC150429	0.703	DA18	8.88	2.38	6.00	1.72	1.62
SSFC150430	0.719	DA18	8.88	2.38	6.00	1.72	1.62
SSFC150431	0.734	DA18	8.88	2.38	6.00	1.72	1.62
SSFC150432	0.750	DA18	8.88	2.38	6.00	1.72	1.62
SSFC150500	0.375	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150501	0.391	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150502	0.406	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150503	0.422	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150504	0.438	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150505	0.453	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150506	0.469	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150507	0.484	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150508	0.500	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150509	0.516	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150510	0.531	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150511	0.547	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150512	0.562	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150513	0.578	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150514	0.594	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150515	0.609	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150516	0.625	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150517	0.641	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150518	0.656	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150519	0.672	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150520	0.688	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150521	0.703	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150522	0.719	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150523	0.734	DA40	9.88	3.75	6.00	2.50	2.00

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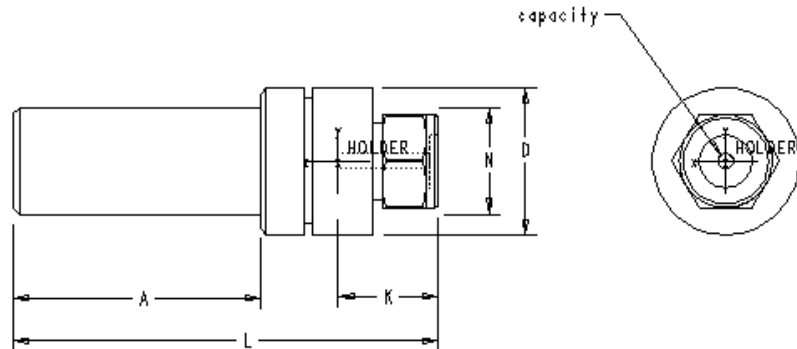
## STRAIGHT SHANK TOOLHOLDERS

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Instance Name	capacity	Collet Series	L	D	A	N	K
SSFC150524	0.750	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150525	0.766	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150526	0.781	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150527	0.797	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150528	0.812	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150529	0.828	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150530	0.844	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150531	0.859	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150532	0.875	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150533	0.891	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150534	0.906	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150535	0.922	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150536	0.938	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150537	0.953	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150538	0.969	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150539	0.984	DA40	9.88	3.75	6.00	2.50	2.00
SSFC150540	1.000	DA40	9.88	3.75	6.00	2.50	2.00

## STRAIGHT SHANK TOOLHOLDERS

### 1-3/4" DIAMETER SHANK, 1/4" THRU 1" TOOL SHANK CAPACITY



**Generic Part Name: SSFC175**

Instance Name	capacity	Collet Series	L	D	A	N	K
SSFC175100	0.250	DA10	6.59	2.06	4.00	1.42	1.44
SSFC175101	0.266	DA10	6.59	2.06	4.00	1.42	1.44
SSFC175102	0.281	DA10	6.59	2.06	4.00	1.42	1.44
SSFC175103	0.297	DA10	6.59	2.06	4.00	1.42	1.44
SSFC175104	0.312	DA10	6.59	2.06	4.00	1.42	1.44
SSFC175105	0.328	DA10	6.59	2.06	4.00	1.42	1.44
SSFC175106	0.344	DA10	6.59	2.06	4.00	1.42	1.44
SSFC175107	0.359	DA10	6.59	2.06	4.00	1.42	1.44
SSFC175108	0.375	DA10	6.59	2.06	4.00	1.42	1.44
SSFC175109	0.391	DA10	6.59	2.06	4.00	1.42	1.44
SSFC175110	0.406	DA10	6.59	2.06	4.00	1.42	1.44
SSFC175111	0.422	DA10	6.59	2.06	4.00	1.42	1.44
SSFC175112	0.438	DA10	6.59	2.06	4.00	1.42	1.44
SSFC175113	0.453	DA10	6.59	2.06	4.00	1.42	1.44
SSFC175114	0.469	DA10	6.59	2.06	4.00	1.42	1.44
SSFC175115	0.484	DA10	6.59	2.06	4.00	1.42	1.44
SSFC175116	0.500	DA10	6.59	2.06	4.00	1.42	1.44
SSFC175117	0.516	DA10	6.59	2.06	4.00	1.42	1.44
SSFC175118	0.531	DA10	6.59	2.06	4.00	1.42	1.44
SSFC175119	0.547	DA10	6.59	2.06	4.00	1.42	1.44
SSFC175120	0.562	DA10	6.59	2.06	4.00	1.42	1.44

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	N	K
SSFC175200	0.250	DA18	8.88	2.38	6.00	1.72	1.62
SSFC175201	0.266	DA18	8.88	2.38	6.00	1.72	1.62
SSFC175202	0.281	DA18	8.88	2.38	6.00	1.72	1.62
SSFC175203	0.297	DA18	8.88	2.38	6.00	1.72	1.62
SSFC175204	0.312	DA18	8.88	2.38	6.00	1.72	1.62
SSFC175205	0.328	DA18	8.88	2.38	6.00	1.72	1.62
SSFC175206	0.344	DA18	8.88	2.38	6.00	1.72	1.62
SSFC175207	0.359	DA18	8.88	2.38	6.00	1.72	1.62
SSFC175208	0.375	DA18	8.88	2.38	6.00	1.72	1.62
SSFC175209	0.391	DA18	8.88	2.38	6.00	1.72	1.62
SSFC175210	0.406	DA18	8.88	2.38	6.00	1.72	1.62
SSFC175211	0.422	DA18	8.88	2.38	6.00	1.72	1.62
SSFC175212	0.438	DA18	8.88	2.38	6.00	1.72	1.62
SSFC175213	0.453	DA18	8.88	2.38	6.00	1.72	1.62
SSFC175214	0.469	DA18	8.88	2.38	6.00	1.72	1.62
SSFC175215	0.484	DA18	8.88	2.38	6.00	1.72	1.62
SSFC175216	0.500	DA18	8.88	2.38	6.00	1.72	1.62
SSFC175217	0.516	DA18	8.88	2.38	6.00	1.72	1.62
SSFC175218	0.531	DA18	8.88	2.38	6.00	1.72	1.62
SSFC175219	0.547	DA18	8.88	2.38	6.00	1.72	1.62
SSFC175220	0.562	DA18	8.88	2.38	6.00	1.72	1.62
SSFC175221	0.578	DA18	8.88	2.38	6.00	1.72	1.62
SSFC175222	0.594	DA18	8.88	2.38	6.00	1.72	1.62
SSFC175223	0.609	DA18	8.88	2.38	6.00	1.72	1.62
SSFC175224	0.625	DA18	8.88	2.38	6.00	1.72	1.62
SSFC175225	0.641	DA18	8.88	2.38	6.00	1.72	1.62
SSFC175226	0.656	DA18	8.88	2.38	6.00	1.72	1.62
SSFC175227	0.672	DA18	8.88	2.38	6.00	1.72	1.62
SSFC175228	0.688	DA18	8.88	2.38	6.00	1.72	1.62
SSFC175229	0.703	DA18	8.88	2.38	6.00	1.72	1.62
SSFC175230	0.719	DA18	8.88	2.38	6.00	1.72	1.62
SSFC175231	0.734	DA18	8.88	2.38	6.00	1.72	1.62
SSFC175232	0.750	DA18	8.88	2.38	6.00	1.72	1.62
SSFC175300	0.375	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175301	0.391	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175302	0.406	DA40	9.88	3.75	6.00	2.50	2.00

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## STRAIGHT SHANK TOOLHOLDERS

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Instance Name	capacity	Collet Series	L	D	A	N	K
SSFC175303	0.422	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175304	0.438	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175305	0.453	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175306	0.469	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175307	0.484	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175308	0.500	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175309	0.516	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175310	0.531	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175311	0.547	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175312	0.562	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175313	0.578	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175314	0.594	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175315	0.609	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175316	0.625	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175317	0.641	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175318	0.656	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175319	0.672	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175320	0.688	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175321	0.703	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175322	0.719	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175323	0.734	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175324	0.750	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175325	0.766	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175326	0.781	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175327	0.797	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175328	0.812	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175329	0.828	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175330	0.844	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175331	0.859	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175332	0.875	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175333	0.891	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175334	0.906	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175335	0.922	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175336	0.938	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175337	0.953	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175338	0.969	DA40	9.88	3.75	6.00	2.50	2.00

## STRAIGHT SHANK TOOLHOLDERS

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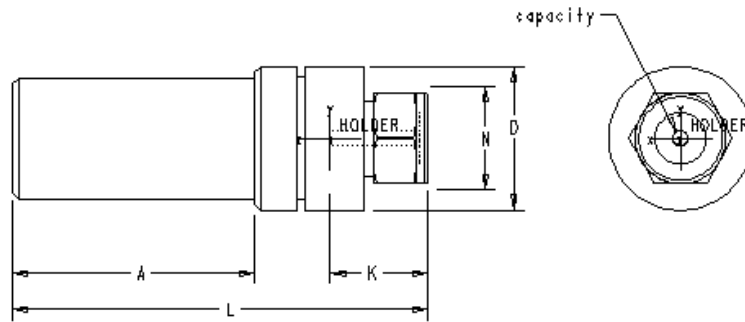
Instance Name	capacity	Collet Series	L	D	A	N	K
SSFC175339	0.984	DA40	9.88	3.75	6.00	2.50	2.00
SSFC175340	1.000	DA40	9.88	3.75	6.00	2.50	2.00

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## STRAIGHT SHANK TOOLHOLDERS

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### 2" DIAMETER SHANK, 1/4" THRU 1" TOOL SHANK CAPACITY



**Generic Part Name: SSFC200**

Instance Name	capacity	Collet Series	L	D	A	N	K
SSFC200100	0.250	DA18	8.88	2.38	6.00	1.72	1.62
SSFC200101	0.266	DA18	8.88	2.38	6.00	1.72	1.62
SSFC200102	0.281	DA18	8.88	2.38	6.00	1.72	1.62
SSFC200103	0.297	DA18	8.88	2.38	6.00	1.72	1.62
SSFC200104	0.312	DA18	8.88	2.38	6.00	1.72	1.62
SSFC200105	0.328	DA18	8.88	2.38	6.00	1.72	1.62
SSFC200106	0.344	DA18	8.88	2.38	6.00	1.72	1.62
SSFC200107	0.359	DA18	8.88	2.38	6.00	1.72	1.62
SSFC200108	0.375	DA18	8.88	2.38	6.00	1.72	1.62
SSFC200109	0.391	DA18	8.88	2.38	6.00	1.72	1.62
SSFC200110	0.406	DA18	8.88	2.38	6.00	1.72	1.62
SSFC200111	0.422	DA18	8.88	2.38	6.00	1.72	1.62
SSFC200112	0.438	DA18	8.88	2.38	6.00	1.72	1.62
SSFC200113	0.453	DA18	8.88	2.38	6.00	1.72	1.62
SSFC200114	0.469	DA18	8.88	2.38	6.00	1.72	1.62
SSFC200115	0.484	DA18	8.88	2.38	6.00	1.72	1.62
SSFC200116	0.500	DA18	8.88	2.38	6.00	1.72	1.62
SSFC200117	0.516	DA18	8.88	2.38	6.00	1.72	1.62
SSFC200118	0.531	DA18	8.88	2.38	6.00	1.72	1.62
SSFC200119	0.547	DA18	8.88	2.38	6.00	1.72	1.62
SSFC200120	0.562	DA18	8.88	2.38	6.00	1.72	1.62
SSFC200121	0.578	DA18	8.88	2.38	6.00	1.72	1.62

## STRAIGHT SHANK TOOLHOLDERS

Instance Name	capacity	Collet Series	L	D	A	N	K
SSFC200122	0.594	DA18	8.88	2.38	6.00	1.72	1.62
SSFC200123	0.609	DA18	8.88	2.38	6.00	1.72	1.62
SSFC200124	0.625	DA18	8.88	2.38	6.00	1.72	1.62
SSFC200125	0.641	DA18	8.88	2.38	6.00	1.72	1.62
SSFC200126	0.656	DA18	8.88	2.38	6.00	1.72	1.62
SSFC200127	0.672	DA18	8.88	2.38	6.00	1.72	1.62
SSFC200128	0.688	DA18	8.88	2.38	6.00	1.72	1.62
SSFC200129	0.703	DA18	8.88	2.38	6.00	1.72	1.62
SSFC200130	0.719	DA18	8.88	2.38	6.00	1.72	1.62
SSFC200131	0.734	DA18	8.88	2.38	6.00	1.72	1.62
SSFC200132	0.750	DA18	8.88	2.38	6.00	1.72	1.62
SSFC200200	0.375	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200201	0.391	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200202	0.406	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200203	0.422	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200204	0.438	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200205	0.453	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200206	0.469	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200207	0.484	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200208	0.500	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200209	0.516	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200210	0.531	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200211	0.547	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200212	0.562	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200213	0.578	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200214	0.594	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200215	0.609	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200216	0.625	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200217	0.641	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200218	0.656	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200219	0.672	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200220	0.688	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200221	0.703	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200222	0.719	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200223	0.734	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200224	0.750	DA40	9.88	3.75	6.00	2.50	2.00

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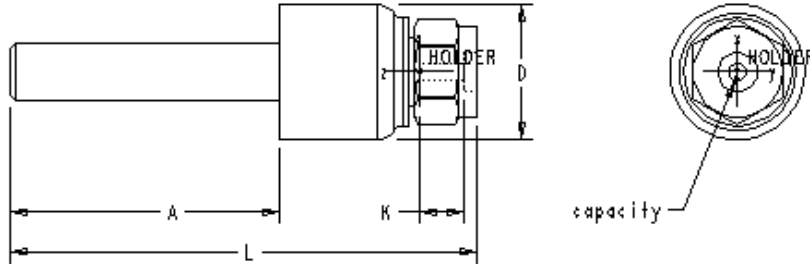
## STRAIGHT SHANK TOOLHOLDERS

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Instance Name	capacity	Collet Series	L	D	A	N	K
SSFC200225	0.766	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200226	0.781	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200227	0.797	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200228	0.812	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200229	0.828	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200230	0.844	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200231	0.859	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200232	0.875	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200233	0.891	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200234	0.906	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200235	0.922	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200236	0.938	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200237	0.953	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200238	0.969	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200239	0.984	DA40	9.88	3.75	6.00	2.50	2.00
SSFC200240	1.000	DA40	9.88	3.75	6.00	2.50	2.00

## STRAIGHT SHANK TOOLHOLDERS

### 5/8" DIAMETER SHANK, #0 THRU 1/2" HAND TAP, 1/8" PIPE TAP

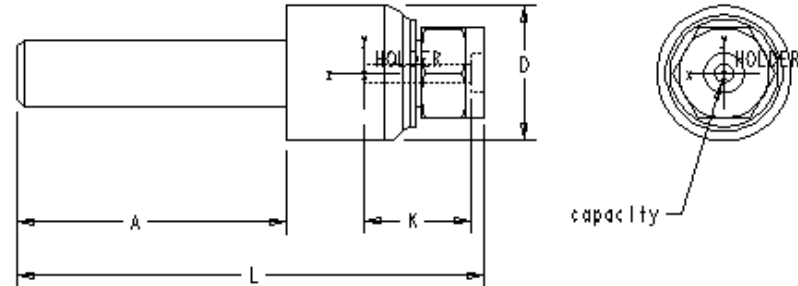


**Generic Part Name: SSRD062**

Instance Name	capacity	Collet Series	L	D	A	K
SSRD062101	0.1410	J	5.19	1.50	3.00	0.50
SSRD062102	0.1680	J	5.19	1.50	3.00	0.50
SSRD062103	0.1940	J	5.19	1.50	3.00	0.50
SSRD062104	0.2200	J	5.19	1.50	3.00	0.50
SSRD062105	0.2550	J	5.19	1.50	3.00	0.50
SSRD062106	0.3180	J	5.19	1.50	3.00	0.50
SSRD062107	0.3810	J	5.19	1.50	3.00	0.50
SSRD062108	0.3230	J	5.19	1.50	3.00	0.50
SSRD062109	0.3670	J	5.19	1.50	3.00	0.50
SSRD062110	0.3130	J	5.19	1.50	3.00	0.50

## STRAIGHT SHANK TOOLHOLDERS

### 3/4" DIAMETER SHANK, 1/16" THRU 19/32" REAMER SIZE



#### Generic Part Name: SSRD075

Instance Name	capacity	Collet Series	L	D	A	K
SSRD075101	0.1410	J	5.19	1.50	3.00	1.19
SSRD075102	0.1680	J	5.19	1.50	3.00	1.19
SSRD075103	0.1940	J	5.19	1.50	3.00	1.19
SSRD075104	0.2200	J	5.19	1.50	3.00	1.19
SSRD075105	0.2550	J	5.19	1.50	3.00	1.19
SSRD075106	0.3180	J	5.19	1.50	3.00	1.19
SSRD075107	0.3810	J	5.19	1.50	3.00	1.19
SSRD075108	0.3230	J	5.19	1.50	3.00	1.19
SSRD075109	0.3670	J	5.19	1.50	3.00	1.19
SSRD075110	0.3130	J	5.19	1.50	3.00	1.19
SSRD075201	0.1410	K	5.19	1.81	3.00	1.00
SSRD075202	0.1680	K	5.19	1.81	3.00	1.00
SSRD075203	0.1940	K	5.19	1.81	3.00	1.00
SSRD075204	0.2200	K	5.19	1.81	3.00	1.00
SSRD075205	0.2550	K	5.19	1.81	3.00	1.00
SSRD075206	0.3180	K	5.19	1.81	3.00	1.00
SSRD075207	0.3810	K	5.19	1.81	3.00	1.00
SSRD075208	0.3230	K	5.19	1.81	3.00	1.00
SSRD075209	0.3670	K	5.19	1.81	3.00	1.00
SSRD075210	0.4290	K	5.19	1.81	3.00	1.00
SSRD075211	0.4800	K	5.19	1.81	3.00	1.00

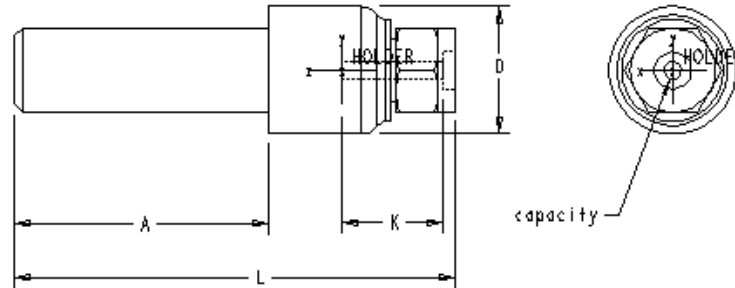
## STRAIGHT SHANK TOOLHOLDERS

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Instance Name	capacity	Collet Series	L	D	A	K
SSRD075212	0.3130	K	5.19	1.81	3.00	1.00
SSRD075213	0.4380	K	5.19	1.81	3.00	1.00

## STRAIGHT SHANK TOOLHOLDERS

### 1" DIAMETER SHANK, 1/16" THRU 27/32" REAMER SIZE



**Generic Part Name: SSRD100**

Instance Name	capacity	Collet Series	L	D	A	K
SSRD100101	0.1410	J	5.19	1.50	3.00	1.19
SSRD100102	0.1680	J	5.19	1.50	3.00	1.19
SSRD100103	0.1940	J	5.19	1.50	3.00	1.19
SSRD100104	0.2200	J	5.19	1.50	3.00	1.19
SSRD100105	0.2550	J	5.19	1.50	3.00	1.19
SSRD100106	0.3180	J	5.19	1.50	3.00	1.19
SSRD100107	0.3810	J	5.19	1.50	3.00	1.19
SSRD100108	0.3230	J	5.19	1.50	3.00	1.19
SSRD100109	0.3670	J	5.19	1.50	3.00	1.19
SSRD100110	0.3130	J	5.19	1.50	3.00	1.19
SSRD100201	0.1410	K	5.19	1.81	3.00	1.00
SSRD100202	0.1680	K	5.19	1.81	3.00	1.00
SSRD100203	0.1940	K	5.19	1.81	3.00	1.00
SSRD100204	0.2200	K	5.19	1.81	3.00	1.00
SSRD100205	0.2550	K	5.19	1.81	3.00	1.00
SSRD100206	0.3180	K	5.19	1.81	3.00	1.00
SSRD100207	0.3810	K	5.19	1.81	3.00	1.00
SSRD100208	0.3230	K	5.19	1.81	3.00	1.00
SSRD100209	0.3670	K	5.19	1.81	3.00	1.00
SSRD100210	0.4290	K	5.19	1.81	3.00	1.00
SSRD100211	0.4800	K	5.19	1.81	3.00	1.00
SSRD100212	0.3130	K	5.19	1.81	3.00	1.00

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## STRAIGHT SHANK TOOLHOLDERS

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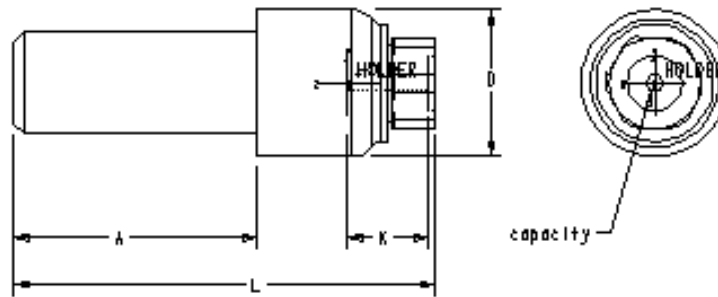
Instance Name	capacity	Collet Series	L	D	A	K
SSRD100213	0.4380	K	5.19	1.81	3.00	1.00
SSRD100301	0.1410	L	6.66	2.19	4.00	1.41
SSRD100302	0.1680	L	6.66	2.19	4.00	1.41
SSRD100303	0.1940	L	6.66	2.19	4.00	1.41
SSRD100304	0.2200	L	6.66	2.19	4.00	1.41
SSRD100305	0.2550	L	6.66	2.19	4.00	1.41
SSRD100306	0.3180	L	6.66	2.19	4.00	1.41
SSRD100307	0.3810	L	6.66	2.19	4.00	1.41
SSRD100308	0.3230	L	6.66	2.19	4.00	1.41
SSRD100309	0.3670	L	6.66	2.19	4.00	1.41
SSRD100310	0.4290	L	6.66	2.19	4.00	1.41
SSRD100311	0.4800	L	6.66	2.19	4.00	1.41
SSRD100312	0.5900	L	6.66	2.19	4.00	1.41
SSRD100313	0.6970	L	6.66	2.19	4.00	1.41
SSRD100314	0.3130	L	6.66	2.19	4.00	1.41
SSRD100315	0.4380	L	6.66	2.19	4.00	1.41
SSRD100316	0.5630	L	6.66	2.19	4.00	1.41
SSRD100317	0.7000	L	6.66	2.19	4.00	1.41
SSRD100318	0.6880	L	6.66	2.19	4.00	1.41

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## STRAIGHT SHANK TOOLHOLDERS

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### 1-1/4" DIAMETER SHANK, 7/64" THRU 1-3/8" REAMER SIZE



### Generic Part Name: SSRD125

Instance Name	capacity	Collet Series	L	D	A	K
SSRD125101	0.1410	K	5.19	1.81	3.00	1.18
SSRD125102	0.1680	K	5.19	1.81	3.00	1.18
SSRD125103	0.1940	K	5.19	1.81	3.00	1.18
SSRD125104	0.2200	K	5.19	1.81	3.00	1.18
SSRD125105	0.2550	K	5.19	1.81	3.00	1.18
SSRD125106	0.3180	K	5.19	1.81	3.00	1.18
SSRD125107	0.3810	K	5.19	1.81	3.00	1.18
SSRD125108	0.3230	K	5.19	1.81	3.00	1.18
SSRD125109	0.3670	K	5.19	1.81	3.00	1.18
SSRD125110	0.4290	K	5.19	1.81	3.00	1.18
SSRD125111	0.4800	K	5.19	1.81	3.00	1.18
SSRD125112	0.3130	K	5.19	1.81	3.00	1.18
SSRD125113	0.4380	K	5.19	1.81	3.00	1.18
SSRD125201	0.1410	L	6.66	1.41	4.00	1.41
SSRD125202	0.1680	L	6.66	1.41	4.00	1.41
SSRD125203	0.1940	L	6.66	1.41	4.00	1.41
SSRD125204	0.2200	L	6.66	1.41	4.00	1.41
SSRD125205	0.2550	L	6.66	1.41	4.00	1.41
SSRD125206	0.3180	L	6.66	1.41	4.00	1.41
SSRD125207	0.3810	L	6.66	1.41	4.00	1.41
SSRD125208	0.3230	L	6.66	1.41	4.00	1.41
SSRD125209	0.3670	L	6.66	1.41	4.00	1.41

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## STRAIGHT SHANK TOOLHOLDERS

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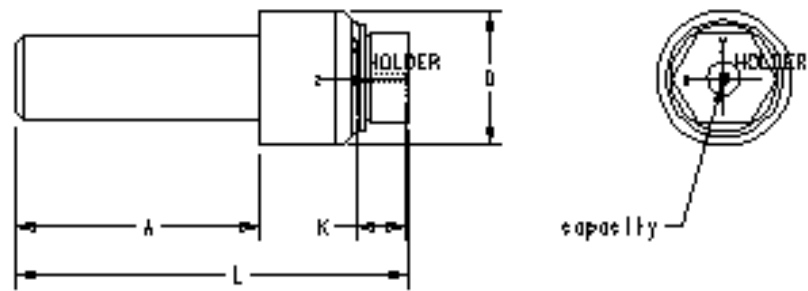
Instance Name	capacity	Collet Series	L	D	A	K
SSRD125210	0.4290	L	6.66	1.41	4.00	1.41
SSRD125211	0.4800	L	6.66	1.41	4.00	1.41
SSRD125212	0.5900	L	6.66	1.41	4.00	1.41
SSRD125213	0.6970	L	6.66	1.41	4.00	1.41
SSRD125214	0.3130	L	6.66	1.41	4.00	1.41
SSRD125215	0.4380	L	6.66	1.41	4.00	1.41
SSRD125216	0.5630	L	6.66	1.41	4.00	1.41
SSRD125217	0.7000	L	6.66	1.41	4.00	1.41
SSRD125218	0.6880	L	6.66	1.41	4.00	1.41
SSRD125301	0.3670	M	8.06	1.72	5.00	1.72
SSRD125302	0.4290	M	8.06	1.72	5.00	1.72
SSRD125303	0.4800	M	8.06	1.72	5.00	1.72
SSRD125304	0.5420	M	8.06	1.72	5.00	1.72
SSRD125305	0.5900	M	8.06	1.72	5.00	1.72
SSRD125306	0.6970	M	8.06	1.72	5.00	1.72
SSRD125307	0.8000	M	8.06	1.72	5.00	1.72
SSRD125308	0.8960	M	8.06	1.72	5.00	1.72
SSRD125309	1.0210	M	8.06	1.72	5.00	1.72
SSRD125310	0.7000	M	8.06	1.72	5.00	1.72
SSRD125311	0.6880	M	8.06	1.72	5.00	1.72
SSRD125312	0.9060	M	8.06	1.72	5.00	1.72

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## STRAIGHT SHANK TOOLHOLDERS

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### 1-1/2" DIAMETER SHANK, 31/64" THRU 1-3/8" REAMER SIZE

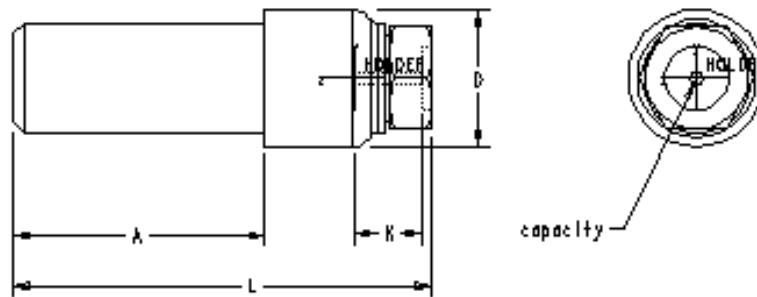


### Generic Part Name: SSRD150

Instance Name	capacity	Collet Series	L	D	K	A
SSRD150101	0.3670	M	8.06	2.75	5.00	1.78
SSRD150102	0.4290	M	8.06	2.75	5.00	1.78
SSRD150103	0.4800	M	8.06	2.75	5.00	1.78
SSRD150104	0.5420	M	8.06	2.75	5.00	1.78
SSRD150105	0.5900	M	8.06	2.75	5.00	1.78
SSRD150106	0.6970	M	8.06	2.75	5.00	1.78
SSRD150107	0.8000	M	8.06	2.75	5.00	1.78
SSRD150108	0.8960	M	8.06	2.75	5.00	1.78
SSRD150109	1.0210	M	8.06	2.75	5.00	1.78
SSRD150110	0.7000	M	8.06	2.75	5.00	1.78
SSRD150111	0.6880	M	8.06	2.75	5.00	1.78
SSRD150112	0.9060	M	8.06	2.75	5.00	1.78

## STRAIGHT SHANK TOOLHOLDERS

### 1-3/4" DIAMETER SHANK, 31/64" THRU 1-3/8" REAMER SIZE



#### Generic Part Name: SSRD175

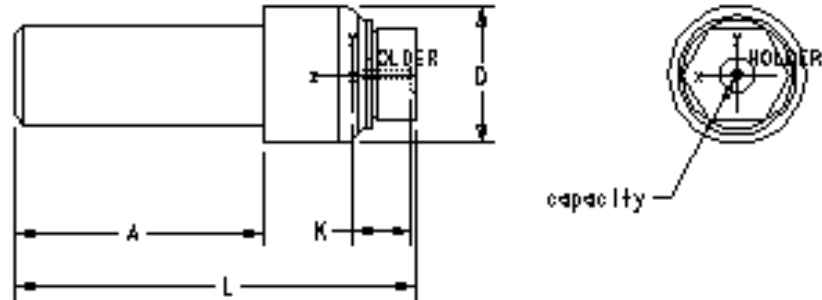
Instance Name	capacity	Collet Series	L	D	A	K
SSRD175101	0.1410	L	6.66	2.18	4.00	1.09
SSRD175102	0.1680	L	6.66	2.18	4.00	1.09
SSRD175103	0.1940	L	6.66	2.18	4.00	1.09
SSRD175104	0.2200	L	6.66	2.18	4.00	1.09
SSRD175105	0.2550	L	6.66	2.18	4.00	1.09
SSRD175106	0.3180	L	6.66	2.18	4.00	1.09
SSRD175107	0.3810	L	6.66	2.18	4.00	1.09
SSRD175108	0.3230	L	6.66	2.18	4.00	1.09
SSRD175109	0.3670	L	6.66	2.18	4.00	1.09
SSRD175110	0.4290	L	6.66	2.18	4.00	1.09
SSRD175111	0.4800	L	6.66	2.18	4.00	1.09
SSRD175112	0.5900	L	6.66	2.18	4.00	1.09
SSRD175113	0.6970	L	6.66	2.18	4.00	1.09
SSRD175114	0.3130	L	6.66	2.18	4.00	1.09
SSRD175115	0.4380	L	6.66	2.18	4.00	1.09
SSRD175116	0.5630	L	6.66	2.18	4.00	1.09
SSRD175117	0.7000	L	6.66	2.18	4.00	1.09
SSRD175118	0.6880	L	6.66	2.18	4.00	1.09

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## STRAIGHT SHANK TOOLHOLDERS

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### 2" DIAMETER SHANK, 31/64" THRU 1-3/8" REAMER SIZE



**Generic Part Name: SSRD200**

Instance Name	capacity	Collet Series	L	D	A	K
SSRD200101	0.3670	M	8.06	1.72	5.00	1.18
SSRD200102	0.4290	M	8.06	1.72	5.00	1.18
SSRD200103	0.4800	M	8.06	1.72	5.00	1.18
SSRD200104	0.5420	M	8.06	1.72	5.00	1.18
SSRD200105	0.5900	M	8.06	1.72	5.00	1.18
SSRD200106	0.6970	M	8.06	1.72	5.00	1.18
SSRD200107	0.8000	M	8.06	1.72	5.00	1.18
SSRD200108	0.8960	M	8.06	1.72	5.00	1.18
SSRD200109	1.0210	M	8.06	1.72	5.00	1.18
SSRD200110	0.7000	M	8.06	1.72	5.00	1.18
SSRD200111	0.6880	M	8.06	1.72	5.00	1.18
SSRD200112	0.9060	M	8.06	1.72	5.00	1.18

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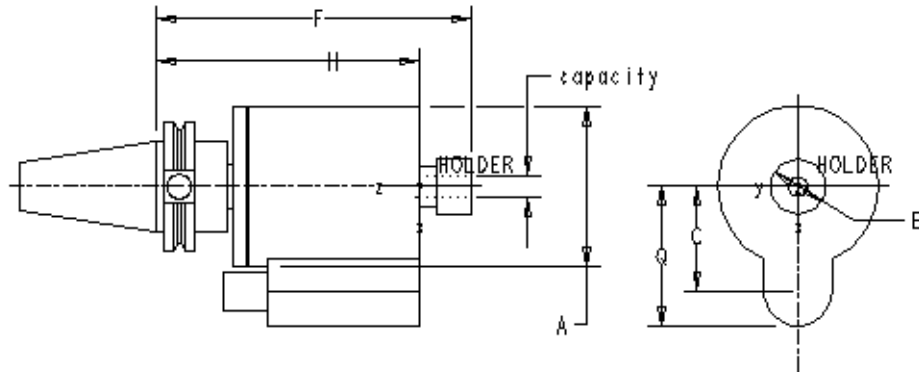
# TAPPING SYSTEMS

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## REVERSING ASSEMBLIES

### CATERPILLAR V-FLANGE

#### 40 TAPER, #4 THROUGH 1/2" TAP SIZE, COLLET TAP CHUCK

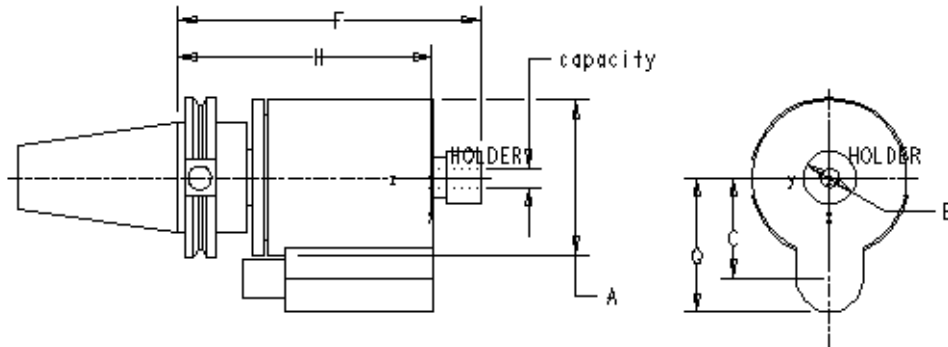


**Generic Part Name: REACV40**

Instance Name	capacity	B	C	F	H	Q	A
REACV40000	0.118-0.142	0.47	1.012	4.04	3.47	1.380	1.56
REACV40001	0.039-0.059	0.47	1.012	4.04	3.47	1.380	1.56
REACV40002	0.059-0.079	0.47	1.012	4.04	3.47	1.380	1.56
REACV40003	0.079-0.098	0.47	1.012	4.04	3.47	1.380	1.56
REACV40004	0.098-0.118	0.47	1.012	4.04	3.47	1.380	1.56
REACV40005	0.098-0.177	0.75	1.625	5.22	4.47	1.950	2.25
REACV40006	0.040-0.098	0.75	1.625	5.22	4.47	1.950	2.25
REACV40007	0.177-0.256	0.75	1.625	5.22	4.47	1.950	2.25
REACV40008	0.139-0.257	1.07	2.045	6.15	5.15	2.720	3.15
REACV40009	0.176-0.320	1.07	2.045	6.15	5.15	2.720	3.15
REACV40010	0.253-0.383	1.07	2.045	6.15	5.15	2.720	3.15
REACV40011	0.090-0.180	1.07	2.045	6.15	5.15	2.720	3.15

## TAPPING SYSTEMS

### 45 TAPER, #4 THROUGH 1/2" TAP SIZE, COLLET TAP CHUCK

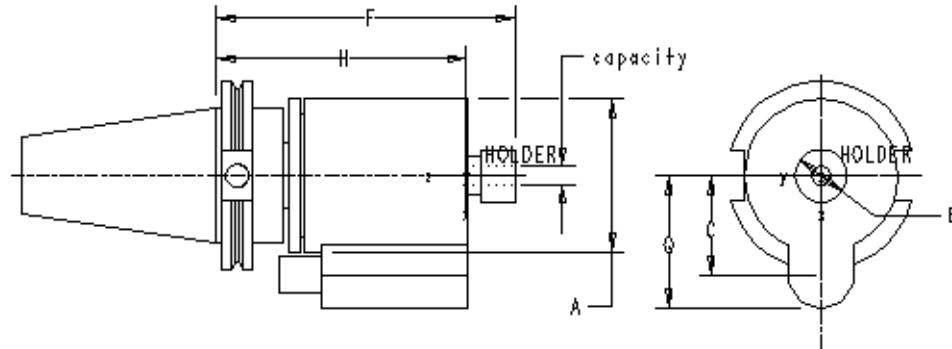


### Generic Part Name: REACV45

Instance Name	capacity	B	C	F	H	Q	A
REACV45000	0.118-0.142	0.47	1.012	4.04	3.47	1.380	1.56
REACV45001	0.039-0.059	0.47	1.012	4.04	3.47	1.380	1.56
REACV45002	0.059-0.079	0.47	1.012	4.04	3.47	1.380	1.56
REACV45003	0.079-0.098	0.47	1.012	4.04	3.47	1.380	1.56
REACV45004	0.098-0.118	0.47	1.012	4.04	3.47	1.380	1.56
REACV45005	0.098-0.177	0.75	1.625	5.22	4.47	1.950	2.25
REACV45006	0.040-0.098	0.75	1.625	5.22	4.47	1.950	2.25
REACV45007	0.177-0.256	0.75	1.625	5.22	4.47	1.950	2.25
REACV45008	0.139-0.257	1.07	2.045	6.15	5.15	2.720	3.15
REACV45009	0.176-0.320	1.07	2.045	6.15	5.15	2.720	3.15
REACV45010	0.253-0.383	1.07	2.045	6.15	5.15	2.720	3.15
REACV45011	0.090-0.180	1.07	2.045	6.15	5.15	2.720	3.15

## TAPPING SYSTEMS

### 50 TAPER, #4 THROUGH 1/2" TAP SIZE, COLLET TAP CHUCK



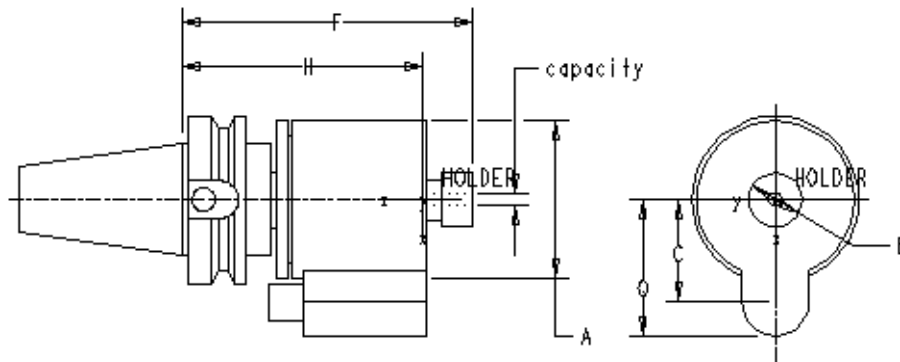
**Generic Part Name: REACV50**

Instance Name	capacity	B	C	F	H	Q	A
REACV50000	0.118-0.142	0.47	1.012	4.04	3.47	1.380	1.56
REACV50001	0.039-0.059	0.47	1.012	4.04	3.47	1.380	1.56
REACV50002	0.059-0.079	0.47	1.012	4.04	3.47	1.380	1.56
REACV50003	0.079-0.098	0.47	1.012	4.04	3.47	1.380	1.56
REACV50004	0.098-0.118	0.47	1.012	4.04	3.47	1.380	1.56
REACV50005	0.098-0.177	0.75	1.625	5.22	4.47	1.950	2.25
REACV50006	0.040-0.098	0.75	1.625	5.22	4.47	1.950	2.25
REACV50007	0.177-0.256	0.75	1.625	5.22	4.47	1.950	2.25
REACV50008	0.139-0.257	1.07	2.045	6.15	5.15	2.720	3.15
REACV50009	0.176-0.320	1.07	2.045	6.15	5.15	2.720	3.15
REACV50010	0.253-0.383	1.07	2.045	6.15	5.15	2.720	3.15
REACV50011	0.090-0.180	1.07	2.045	6.15	5.15	2.720	3.15

## TAPPING SYSTEMS

### BT FLANGE

#### 40 TAPER, #4 THROUGH 7/8" TAP SIZE, COLLET TAP CHUCK

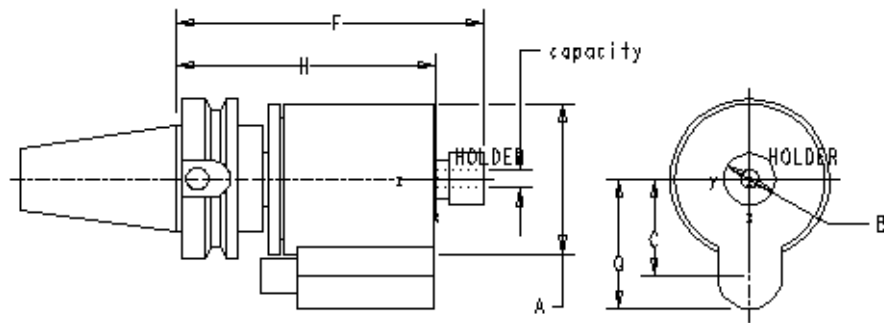


**Generic Part Name: REACB40**

Instance Name	capacity	B	C	F	H	Q	A
REACB40000	0.118-0.142	0.465	1.012	3.73	3.16	1.380	1.56
REACB40001	0.039-0.059	0.465	1.012	3.73	3.16	1.380	1.56
REACB40002	0.059-0.079	0.465	1.012	3.73	3.16	1.380	1.56
REACB40003	0.079-0.098	0.465	1.012	3.73	3.16	1.380	1.56
REACB40004	0.098-0.118	0.465	1.012	3.73	3.16	1.380	1.56
REACB40005	0.098-0.177	0.750	1.625	4.91	4.16	1.950	2.25
REACB40006	0.040-0.098	0.750	1.625	4.91	4.16	1.950	2.25
REACB40007	0.177-0.256	0.750	1.625	4.91	4.16	1.950	2.25
REACB40008	0.139-0.257	1.070	2.045	5.84	4.84	2.720	3.15
REACB40009	0.176-0.320	1.070	2.045	5.84	4.84	2.720	3.15
REACB40010	0.253-0.383	1.070	2.045	5.84	4.84	2.720	3.15
REACB40011	0.090-0.180	1.070	2.045	5.84	4.84	2.720	3.15

## TAPPING SYSTEMS

### 45 TAPER, #4 THROUGH 7/8" TAP SIZE, COLLET TAP CHUCK

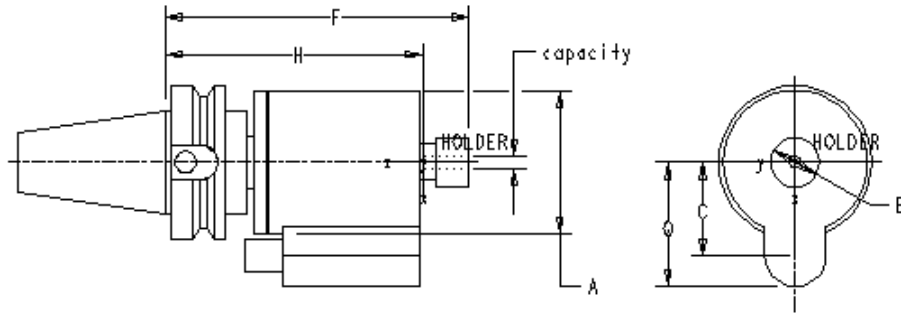


### Generic Part Name: REACB45

Instance Name	capacity	B	C	F	H	Q	A
REACB45000	0.118-0.142	0.465	1.012	4.34	3.77	1.380	1.56
REACB45001	0.039-0.059	0.465	1.012	4.34	3.77	1.380	1.56
REACB45002	0.059-0.079	0.465	1.012	4.34	3.77	1.380	1.56
REACB45003	0.079-0.098	0.465	1.012	4.34	3.77	1.380	1.56
REACB45004	0.098-0.118	0.465	1.012	4.34	3.77	1.380	1.56
REACB45005	0.098-0.177	0.750	1.625	5.52	4.77	1.950	2.25
REACB45006	0.040-0.098	0.750	1.625	5.52	4.77	1.950	2.25
REACB45007	0.177-0.256	0.750	1.625	5.52	4.77	1.950	2.25
REACB45008	0.139-0.257	1.070	2.045	6.45	5.45	2.720	3.15
REACB45009	0.176-0.320	1.070	2.045	6.45	5.45	2.720	3.15
REACB45010	0.253-0.383	1.070	2.045	6.45	5.45	2.720	3.15
REACB45011	0.090-0.180	1.070	2.045	6.45	5.45	2.720	3.15

## TAPPING SYSTEMS

### 50 TAPER, #4 THROUGH 7/8" TAP SIZE, COLLET TAP CHUCK



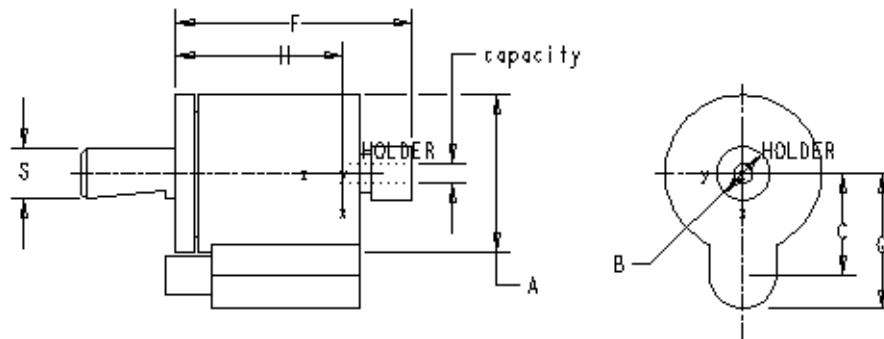
#### Generic Part Name: REACB50

Instance Name	capacity	B	C	F	H	Q	A
REACB50000	0.118-0.142	0.465	1.012	4.54	3.97	1.380	1.56
REACB50001	0.039-0.059	0.465	1.012	4.54	3.97	1.380	1.56
REACB50002	0.059-0.079	0.465	1.012	4.54	3.97	1.380	1.56
REACB50003	0.079-0.098	0.465	1.012	4.54	3.97	1.380	1.56
REACB50004	0.098-0.118	0.465	1.012	4.54	3.97	1.380	1.56
REACB50005	0.098-0.177	0.750	1.625	5.72	4.97	1.950	2.25
REACB50006	0.040-0.098	0.750	1.625	5.72	4.97	1.950	2.25
REACB50007	0.177-0.256	0.750	1.625	5.72	4.97	1.950	2.25
REACB50008	0.139-0.257	1.070	2.045	6.65	5.65	2.720	3.15
REACB50009	0.176-0.320	1.070	2.045	6.65	5.65	2.720	3.15
REACB50010	0.253-0.383	1.070	2.045	6.65	5.65	2.720	3.15
REACB50011	0.090-0.180	1.070	2.045	6.65	5.65	2.720	3.15

## TAPPING SYSTEMS

### REVERSING TAP CHUCK

**1" DIAMETER STRAIGHT SHANK, #4 THROUGH 7/8" TAP SIZE,  
COLLET TAP CHUCK**



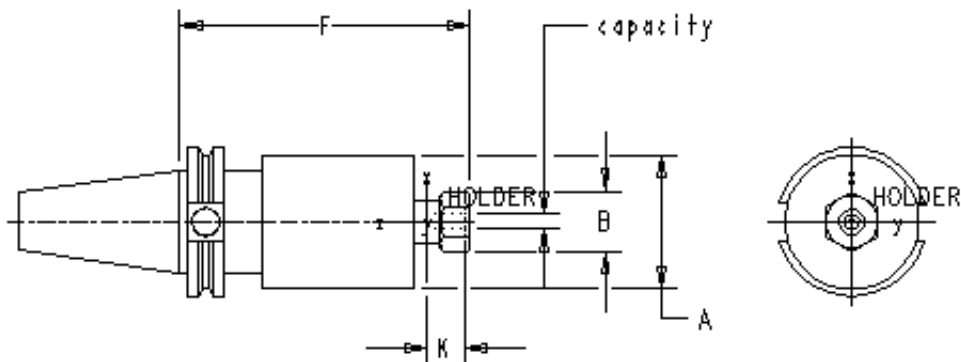
**Generic Part Name: RETSSC**

Instance Name	capacity	A	B	C	F	H	Q	S
RETC000	0.145-0.158	1.56	0.47	1.01	2.67	2.10	1.38	0.50
RETC001	0.039-0.059	1.56	0.47	1.01	2.67	2.10	1.38	0.50
RETC002	0.059-0.079	1.56	0.47	1.01	2.67	2.10	1.38	0.50
RETC003	0.079-0.098	1.56	0.47	1.01	2.67	2.10	1.38	0.50
RETC004	0.098-0.118	1.56	0.47	1.01	2.67	2.10	1.38	0.50
RETC005	0.098-0.177	2.25	0.75	1.62	3.85	3.10	1.95	1.00
RETC006	0.177-0.256	2.25	0.75	1.62	3.85	3.10	1.95	1.00
RETC007	0.040-0.098	2.25	0.75	1.62	3.85	3.10	1.95	1.00
RETC008	0.139-0.257	3.15	1.07	2.05	4.78	3.78	2.72	1.00
RETC009	0.253-0.383	3.15	1.07	2.05	4.78	3.78	2.72	1.00
RETC010	0.176-0.320	3.15	1.07	2.05	4.78	3.78	2.72	1.00
RETC011	0.090-0.180	3.15	1.07	2.05	4.78	3.78	2.72	1.00

## SAFE DRIVE ASSEMBLIES

### CATERPILLAR V-FLANGE

#### 40 TAPER, #0 THROUGH 7/8" TAP SIZE, COLLET TAP CHUCK



#### Generic Part Name: SAACV40

##### Notes:

1. **K** is set equal to collet length.

Instance Name	capacity	Collet Series	A	B	F	K
SAACV40100	0.141	D	2.25	0.880	4.88	0.625
SAACV40101	0.168	D	2.25	0.880	4.88	0.625
SAACV40102	0.194	D	2.25	0.880	4.88	0.625
SAACV40103	0.220	D	2.25	0.880	4.88	0.625
SAACV40104	0.255	D	2.25	0.880	4.88	0.625
SAACV40200	0.141	F	2.50	1.630	7.31	1.094
SAACV40201	0.168	F	2.50	1.630	7.31	1.094
SAACV40202	0.194	F	2.50	1.630	7.31	1.094
SAACV40203	0.220	F	2.50	1.630	7.31	1.094
SAACV40204	0.255	F	2.50	1.630	7.31	1.094
SAACV40205	0.318	F	2.50	1.630	7.31	1.094
SAACV40206	0.381	F	2.50	1.630	7.31	1.094
SAACV40207	0.323	F	2.50	1.630	7.31	1.094
SAACV40208	0.367	F	2.50	1.630	7.31	1.094
SAACV40209	0.429	F	2.50	1.630	7.31	1.094

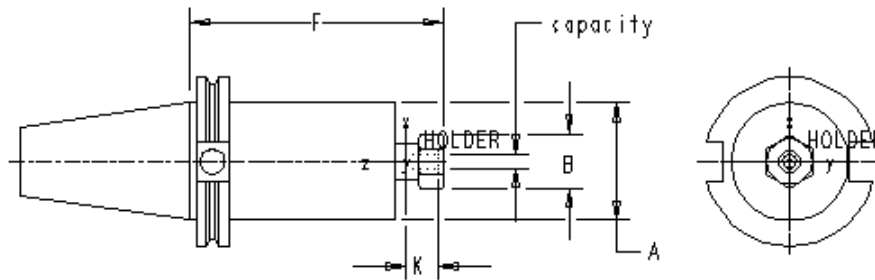
## TAPPING SYSTEMS

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Instance Name	capacity	Collet Series	A	B	F	K
SAACV40210	0.480	F	2.50	1.630	7.31	1.094
SAACV40211	0.590	F	2.50	1.630	7.31	1.094
SAACV40212	0.697	F	2.50	1.630	7.31	1.094
SAACV40213	0.313	F	2.50	1.630	7.31	1.094
SAACV40214	0.438	F	2.50	1.630	7.31	1.094
SAACV40215	0.563	F	2.50	1.630	7.31	1.094
SAACV40216	0.700	F	2.50	1.630	7.31	1.094
SAACV40217	0.688	F	2.50	1.630	7.31	1.094

## TAPPING SYSTEMS

### 45 TAPER, #0 THROUGH 7/8" TAP SIZE, COLLET TAP CHUCK



#### Generic Part Name: SAACV45

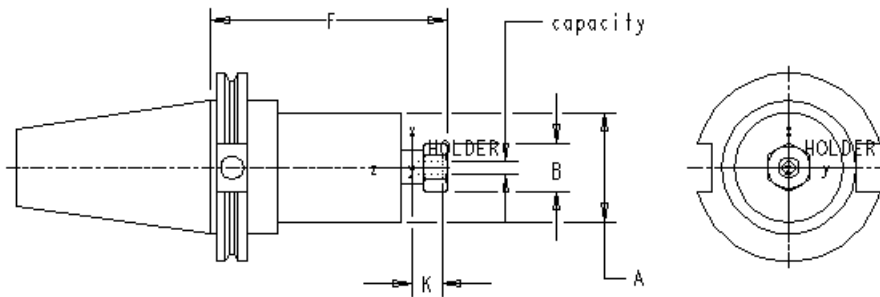
##### Notes:

1. **K** is set equal to collet length.

Instance Name	capacity	Collet Series	A	B	F	K
SAACV45100	0.141	F	2.50	1.630	6.88	1.094
SAACV45101	0.168	F	2.50	1.630	6.88	1.094
SAACV45102	0.194	F	2.50	1.630	6.88	1.094
SAACV45103	0.220	F	2.50	1.630	6.88	1.094
SAACV45104	0.255	F	2.50	1.630	6.88	1.094
SAACV45105	0.318	F	2.50	1.630	6.88	1.094
SAACV45106	0.381	F	2.50	1.630	6.88	1.094
SAACV45107	0.323	F	2.50	1.630	6.88	1.094
SAACV45108	0.367	F	2.50	1.630	6.88	1.094
SAACV45109	0.429	F	2.50	1.630	6.88	1.094
SAACV45110	0.480	F	2.50	1.630	6.88	1.094
SAACV45111	0.590	F	2.50	1.630	6.88	1.094
SAACV45112	0.697	F	2.50	1.630	6.88	1.094
SAACV45113	0.313	F	2.50	1.630	6.88	1.094
SAACV45114	0.438	F	2.50	1.630	6.88	1.094
SAACV45115	0.563	F	2.50	1.630	6.88	1.094
SAACV45116	0.700	F	2.50	1.630	6.88	1.094
SAACV45117	0.688	F	2.50	1.630	6.88	1.094

## TAPPING SYSTEMS

### 50 TAPER, #0 THROUGH 7/8" TAP SIZE



### Generic Part Name: SAACV50

#### Notes:

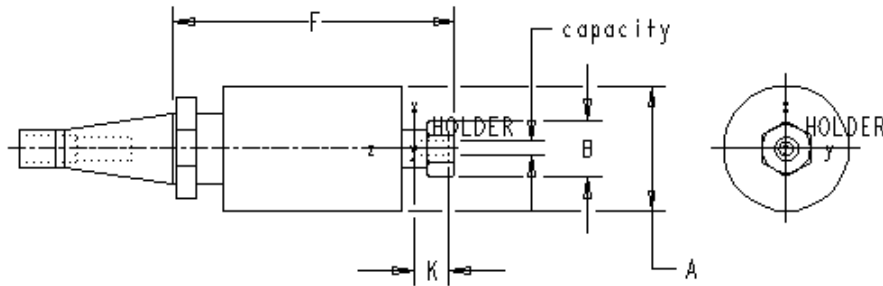
1. **K** is set equal to the collet length.

Instance Name	capacity	Collet Series	A	B	F	K
SAACV50100	0.141	F	2.50	1.630	6.88	1.094
SAACV50101	0.168	F	2.50	1.630	6.88	1.094
SAACV50102	0.194	F	2.50	1.630	6.88	1.094
SAACV50103	0.220	F	2.50	1.630	6.88	1.094
SAACV50104	0.255	F	2.50	1.630	6.88	1.094
SAACV50105	0.318	F	2.50	1.630	6.88	1.094
SAACV50106	0.381	F	2.50	1.630	6.88	1.094
SAACV50107	0.323	F	2.50	1.630	6.88	1.094
SAACV50108	0.367	F	2.50	1.630	6.88	1.094
SAACV50109	0.429	F	2.50	1.630	6.88	1.094
SAACV50110	0.480	F	2.50	1.630	6.88	1.094
SAACV50111	0.590	F	2.50	1.630	6.88	1.094
SAACV50112	0.697	F	2.50	1.630	6.88	1.094
SAACV50113	0.313	F	2.50	1.630	6.88	1.094
SAACV50114	0.438	F	2.50	1.630	6.88	1.094
SAACV50115	0.563	F	2.50	1.630	6.88	1.094
SAACV50116	0.700	F	2.50	1.630	6.88	1.094
SAACV50117	0.688	F	2.50	1.630	6.88	1.094

## TAPPING SYSTEMS

### QUICK CHANGE FLANGE

### 30 TAPER, #0 THROUGH 7/8" TAP SIZE, COLLET TAP CHUCK



### Generic Part Name: SAACQ30

#### Notes:

1. K is set equal to the collet length.

Instance Name	capacity	Collet Series	A	B	F	K
SAACQ30100	0.141	D	2.25	0.880	5.06	0.625
SAACQ30101	0.168	D	2.25	0.880	5.06	0.625
SAACQ30102	0.194	D	2.25	0.880	5.06	0.625
SAACQ30103	0.220	D	2.25	0.880	5.06	0.625
SAACQ30104	0.255	D	2.25	0.880	5.06	0.625
SAACQ30200	0.141	F	2.75	1.630	6.31	1.094
SAACQ30201	0.168	F	2.75	1.630	6.31	1.094
SAACQ30202	0.194	F	2.75	1.630	6.31	1.094
SAACQ30203	0.220	F	2.75	1.630	6.31	1.094
SAACQ30204	0.255	F	2.75	1.630	6.31	1.094
SAACQ30205	0.318	F	2.75	1.630	6.31	1.094
SAACQ30206	0.381	F	2.75	1.630	6.31	1.094
SAACQ30207	0.323	F	2.75	1.630	6.31	1.094
SAACQ30208	0.367	F	2.75	1.630	6.31	1.094
SAACQ30209	0.429	F	2.75	1.630	6.31	1.094
SAACQ30210	0.480	F	2.75	1.630	6.31	1.094
SAACQ30211	0.590	F	2.75	1.630	6.31	1.094
SAACQ30212	0.697	F	2.75	1.630	6.31	1.094

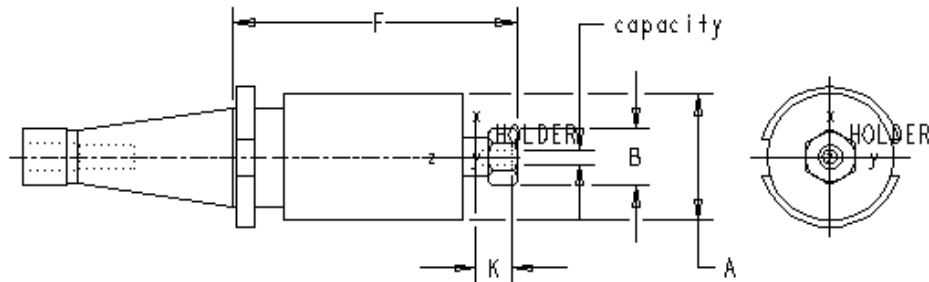
## TAPPING SYSTEMS

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Instance Name	capacity	Collet Series	A	B	F	K
SAACQ30213	0.313	F	2.75	1.630	6.31	1.094
SAACQ30214	0.438	F	2.75	1.630	6.31	1.094
SAACQ30215	0.563	F	2.75	1.630	6.31	1.094
SAACQ30216	0.700	F	2.75	1.630	6.31	1.094
SAACQ30217	0.688	F	2.75	1.630	6.31	1.094

## TAPPING SYSTEMS

### 40 TAPER, #0 THROUGH 7/8" TAP SIZE, COLLET TAP CHUCK



#### Generic Part Name: SAACQ40

##### Notes:

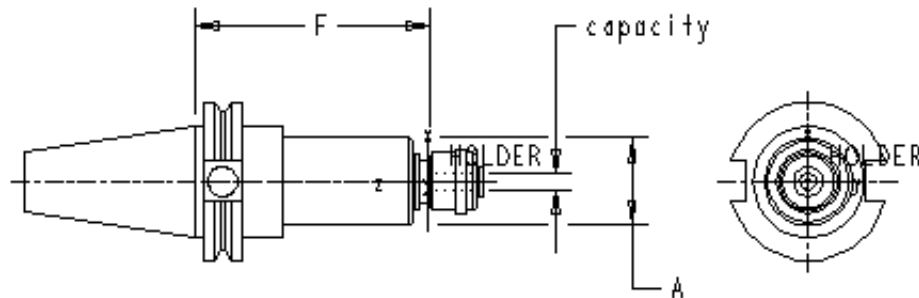
1. **K** is set equal to collet length.

Instance Name	capacity	Collet Series	A	B	F	K
SAACQ40100	0.141	F	2.50	1.630	6.71	1.094
SAACQ40101	0.168	F	2.50	1.630	6.71	1.094
SAACQ40102	0.194	F	2.50	1.630	6.71	1.094
SAACQ40103	0.220	F	2.50	1.630	6.71	1.094
SAACQ40104	0.255	F	2.50	1.630	6.71	1.094
SAACQ40105	0.318	F	2.50	1.630	6.71	1.094
SAACQ40106	0.381	F	2.50	1.630	6.71	1.094
SAACQ40107	0.323	F	2.50	1.630	6.71	1.094
SAACQ40108	0.367	F	2.50	1.630	6.71	1.094
SAACQ40109	0.429	F	2.50	1.630	6.71	1.094
SAACQ40110	0.480	F	2.50	1.630	6.71	1.094
SAACQ40111	0.590	F	2.50	1.630	6.71	1.094
SAACQ40112	0.697	F	2.50	1.630	6.71	1.094
SAACQ40113	0.313	F	2.50	1.630	6.71	1.094
SAACQ40114	0.438	F	2.50	1.630	6.71	1.094
SAACQ40115	0.563	F	2.50	1.630	6.71	1.094
SAACQ40116	0.700	F	2.50	1.630	6.71	1.094
SAACQ40117	0.688	F	2.50	1.630	6.71	1.094

## SELF-RELEASING ASSEMBLIES

### CATERPILLAR V-FLANGE

40 TAPER, #4 THROUGH 7/8" TAP SIZE, 1/8" THROUGH 3/4" PIPE  
TAP, TAP ADAPTER



**Generic Part Name: SEAAV40**

Instance Name	capacity	Adapter Size	A	F	Tap Adapter Style
SEAAV40100	0.141	#0	1.38	3.72	T
SEAAV40101	0.168	#0	1.38	3.72	T
SEAAV40102	0.194	#0	1.38	3.72	T
SEAAV40103	0.220	#0	1.38	3.72	T
SEAAV40104	0.255	#0	1.38	3.72	T
SEAAV40200	0.141	#0	1.38	3.72	TC
SEAAV40201	0.168	#0	1.38	3.72	TC
SEAAV40202	0.194	#0	1.38	3.72	TC
SEAAV40203	0.220	#0	1.38	3.72	TC
SEAAV40204	0.255	#0	1.38	3.72	TC
SEAAV40300	0.141	#1	2.00	4.72	T
SEAAV40301	0.168	#1	2.00	4.72	T
SEAAV40302	0.194	#1	2.00	4.72	T
SEAAV40303	0.220	#1	2.00	4.72	T
SEAAV40304	0.255	#1	2.00	4.72	T
SEAAV40305	0.318	#1	2.00	4.72	T

## TAPPING SYSTEMS

Instance Name	capacity	Adapter Size	A	F	Tap Adapter Style
SEAAV40306	0.381	#1	2.00	4.72	T
SEAAV40307	0.323	#1	2.00	4.72	T
SEAAV40308	0.367	#1	2.00	4.72	T
SEAAV40309	0.429	#1	2.00	4.72	T
SEAAV40310	0.313	#1	2.00	4.72	T
SEAAV40311	0.438	#1	2.00	4.72	T
SEAAV40400	0.141	#1	2.00	4.72	TC
SEAAV40401	0.168	#1	2.00	4.72	TC
SEAAV40402	0.194	#1	2.00	4.72	TC
SEAAV40403	0.220	#1	2.00	4.72	TC
SEAAV40404	0.255	#1	2.00	4.72	TC
SEAAV40405	0.318	#1	2.00	4.72	TC
SEAAV40406	0.381	#1	2.00	4.72	TC
SEAAV40407	0.323	#1	2.00	4.72	TC
SEAAV40408	0.367	#1	2.00	4.72	TC
SEAAV40409	0.429	#1	2.00	4.72	TC
SEAAV40410	0.313	#1	2.00	4.72	TC
SEAAV40411	0.438	#1	2.00	4.72	TC
SEAAV40500	0.318	#2	2.75	4.88	T
SEAAV40501	0.381	#2	2.75	4.88	T
SEAAV40502	0.323	#2	2.75	4.88	T
SEAAV40503	0.367	#2	2.75	4.88	T
SEAAV40504	0.429	#2	2.75	4.88	T
SEAAV40505	0.480	#2	2.75	4.88	T
SEAAV40506	0.542	#2	2.75	4.88	T
SEAAV40507	0.590	#2	2.75	4.88	T
SEAAV40508	0.652	#2	2.75	4.88	T
SEAAV40509	0.697	#2	2.75	4.88	T
SEAAV40510	0.562	#2	2.75	4.88	T
SEAAV40511	0.700	#2	2.75	4.88	T
SEAAV40512	0.687	#2	2.75	4.88	T
SEAAV40600	0.318	#2	2.75	4.88	TC
SEAAV40601	0.381	#2	2.75	4.88	TC
SEAAV40602	0.323	#2	2.75	4.88	TC
SEAAV40603	0.367	#2	2.75	4.88	TC
SEAAV40604	0.429	#2	2.75	4.88	TC

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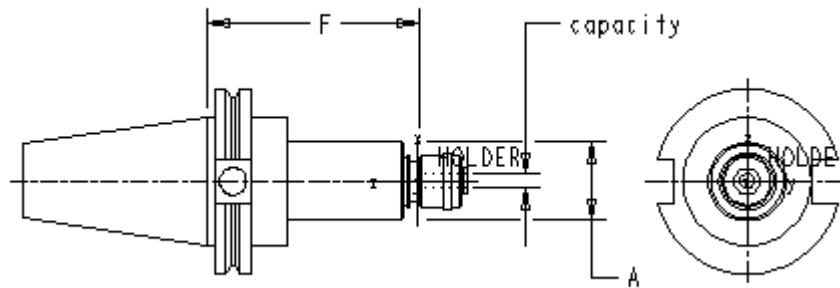
## TAPPING SYSTEMS

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Instance Name	capacity	Adapter Size	A	F	Tap Adapter Style
SEAAV40605	0.480	#2	2.75	4.88	TC
SEAAV40606	0.542	#2	2.75	4.88	TC
SEAAV40607	0.590	#2	2.75	4.88	TC
SEAAV40608	0.652	#2	2.75	4.88	TC
SEAAV40609	0.697	#2	2.75	4.88	TC
SEAAV40610	0.562	#2	2.75	4.88	TC
SEAAV40611	0.700	#2	2.75	4.88	TC
SEAAV40612	0.687	#2	2.75	4.88	TC

## TAPPING SYSTEMS

### 45 TAPER, #4 THROUGH 7/8" TAP SIZE, 1/8" THROUGH 3/4" PIPE TAP, TAP ADAPTER



### Generic Part Name: SEAAV45

Instance Name	capacity	Adapter Size	A	F	Tap Adapter Style
SEAAV45100	0.141	#0	1.38	3.72	T
SEAAV45101	0.168	#0	1.38	3.72	T
SEAAV45102	0.194	#0	1.38	3.72	T
SEAAV45103	0.220	#0	1.38	3.72	T
SEAAV45104	0.255	#0	1.38	3.72	T
SEAAV45200	0.141	#0	1.38	3.72	TC
SEAAV45201	0.168	#0	1.38	3.72	TC
SEAAV45202	0.194	#0	1.38	3.72	TC
SEAAV45203	0.220	#0	1.38	3.72	TC
SEAAV45204	0.255	#0	1.38	3.72	TC
SEAAV45300	0.141	#1	2.00	4.72	T
SEAAV45301	0.168	#1	2.00	4.72	T
SEAAV45302	0.194	#1	2.00	4.72	T
SEAAV45303	0.220	#1	2.00	4.72	T
SEAAV45304	0.255	#1	2.00	4.72	T
SEAAV45305	0.318	#1	2.00	4.72	T
SEAAV45306	0.381	#1	2.00	4.72	T
SEAAV45307	0.323	#1	2.00	4.72	T
SEAAV45308	0.367	#1	2.00	4.72	T
SEAAV45309	0.429	#1	2.00	4.72	T
SEAAV45310	0.313	#1	2.00	4.72	T

## TAPPING SYSTEMS

Instance Name	capacity	Adapter Size	A	F	Tap Adapter Style
SEAAV45311	0.438	#1	2.00	4.72	T
SEAAV45400	0.141	#1	2.00	4.72	TC
SEAAV45401	0.168	#1	2.00	4.72	TC
SEAAV45402	0.194	#1	2.00	4.72	TC
SEAAV45403	0.220	#1	2.00	4.72	TC
SEAAV45404	0.255	#1	2.00	4.72	TC
SEAAV45405	0.318	#1	2.00	4.72	TC
SEAAV45406	0.381	#1	2.00	4.72	TC
SEAAV45407	0.323	#1	2.00	4.72	TC
SEAAV45408	0.367	#1	2.00	4.72	TC
SEAAV45409	0.429	#1	2.00	4.72	TC
SEAAV45410	0.313	#1	2.00	4.72	TC
SEAAV45411	0.438	#1	2.00	4.72	TC
SEAAV45500	0.318	#2	2.75	4.88	T
SEAAV45501	0.381	#2	2.75	4.88	T
SEAAV45502	0.323	#2	2.75	4.88	T
SEAAV45503	0.367	#2	2.75	4.88	T
SEAAV45504	0.429	#2	2.75	4.88	T
SEAAV45505	0.480	#2	2.75	4.88	T
SEAAV45506	0.542	#2	2.75	4.88	T
SEAAV45507	0.590	#2	2.75	4.88	T
SEAAV45508	0.652	#2	2.75	4.88	T
SEAAV45509	0.697	#2	2.75	4.88	T
SEAAV45510	0.562	#2	2.75	4.88	T
SEAAV45511	0.700	#2	2.75	4.88	T
SEAAV45512	0.687	#2	2.75	4.88	T
SEAAV45600	0.318	#2	2.75	4.88	TC
SEAAV45601	0.381	#2	2.75	4.88	TC
SEAAV45602	0.323	#2	2.75	4.88	TC
SEAAV45603	0.367	#2	2.75	4.88	TC
SEAAV45604	0.429	#2	2.75	4.88	TC
SEAAV45605	0.480	#2	2.75	4.88	TC
SEAAV45606	0.542	#2	2.75	4.88	TC
SEAAV45607	0.590	#2	2.75	4.88	TC
SEAAV45608	0.652	#2	2.75	4.88	TC
SEAAV45609	0.697	#2	2.75	4.88	TC

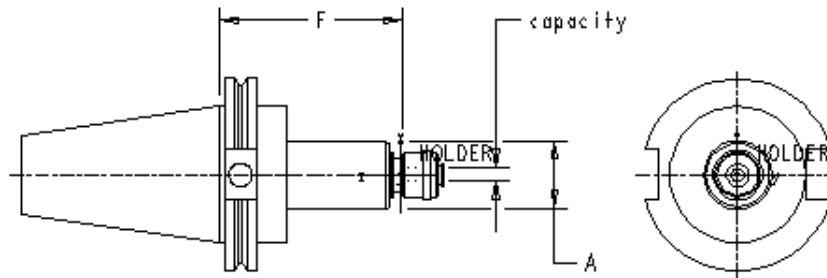
## TAPPING SYSTEMS

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Instance Name	capacity	Adapter Size	A	F	Tap Adapter Style
SEAAV45610	0.562	#2	2.75	4.88	TC
SEAAV45611	0.700	#2	2.75	4.88	TC
SEAAV45612	0.687	#2	2.75	4.88	TC

## TAPPING SYSTEMS

### 50 TAPER, #4 THROUGH 7/8" TAP SIZE, 1/8" THROUGH 3/4" PIPE TAP, TAP ADAPTER



**Generic Part Name: SEAAV50**

Instance Name	capacity	Adapter Size	A	F	Tap Adapter Style
SEAAV50100	0.141	#0	1.38	3.72	T
SEAAV50101	0.168	#0	1.38	3.72	T
SEAAV50102	0.194	#0	1.38	3.72	T
SEAAV50103	0.220	#0	1.38	3.72	T
SEAAV50104	0.255	#0	1.38	3.72	T
SEAAV50200	0.141	#0	1.38	3.72	TC
SEAAV50201	0.168	#0	1.38	3.72	TC
SEAAV50202	0.194	#0	1.38	3.72	TC
SEAAV50203	0.220	#0	1.38	3.72	TC
SEAAV50204	0.255	#0	1.38	3.72	TC
SEAAV50300	0.141	#1	2.00	4.72	T
SEAAV50301	0.168	#1	2.00	4.72	T
SEAAV50302	0.194	#1	2.00	4.72	T
SEAAV50303	0.220	#1	2.00	4.72	T
SEAAV50304	0.255	#1	2.00	4.72	T
SEAAV50305	0.318	#1	2.00	4.72	T
SEAAV50306	0.381	#1	2.00	4.72	T
SEAAV50307	0.323	#1	2.00	4.72	T
SEAAV50308	0.367	#1	2.00	4.72	T
SEAAV50309	0.429	#1	2.00	4.72	T
SEAAV50310	0.313	#1	2.00	4.72	T
SEAAV50311	0.438	#1	2.00	4.72	T

## TAPPING SYSTEMS

Instance Name	capacity	Adapter Size	A	F	Tap Adapter Style
SEAAV50400	0.141	#1	2.00	4.72	TC
SEAAV50401	0.168	#1	2.00	4.72	TC
SEAAV50402	0.194	#1	2.00	4.72	TC
SEAAV50403	0.220	#1	2.00	4.72	TC
SEAAV50404	0.255	#1	2.00	4.72	TC
SEAAV50405	0.318	#1	2.00	4.72	TC
SEAAV50406	0.381	#1	2.00	4.72	TC
SEAAV50407	0.323	#1	2.00	4.72	TC
SEAAV50408	0.367	#1	2.00	4.72	TC
SEAAV50409	0.429	#1	2.00	4.72	TC
SEAAV50410	0.313	#1	2.00	4.72	TC
SEAAV50411	0.438	#1	2.00	4.72	TC
SEAAV50500	0.318	#2	2.75	4.88	T
SEAAV50501	0.381	#2	2.75	4.88	T
SEAAV50502	0.323	#2	2.75	4.88	T
SEAAV50503	0.367	#2	2.75	4.88	T
SEAAV50504	0.429	#2	2.75	4.88	T
SEAAV50505	0.480	#2	2.75	4.88	T
SEAAV50506	0.542	#2	2.75	4.88	T
SEAAV50507	0.590	#2	2.75	4.88	T
SEAAV50508	0.652	#2	2.75	4.88	T
SEAAV50509	0.697	#2	2.75	4.88	T
SEAAV50510	0.562	#2	2.75	4.88	T
SEAAV50511	0.700	#2	2.75	4.88	T
SEAAV50512	0.687	#2	2.75	4.88	T
SEAAV50600	0.318	#2	2.75	4.88	TC
SEAAV50601	0.381	#2	2.75	4.88	TC
SEAAV50602	0.323	#2	2.75	4.88	TC
SEAAV50603	0.367	#2	2.75	4.88	TC
SEAAV50604	0.429	#2	2.75	4.88	TC
SEAAV50605	0.480	#2	2.75	4.88	TC
SEAAV50606	0.542	#2	2.75	4.88	TC
SEAAV50607	0.590	#2	2.75	4.88	TC
SEAAV50608	0.652	#2	2.75	4.88	TC
SEAAV50609	0.697	#2	2.75	4.88	TC
SEAAV50610	0.562	#2	2.75	4.88	TC

## TAPPING SYSTEMS

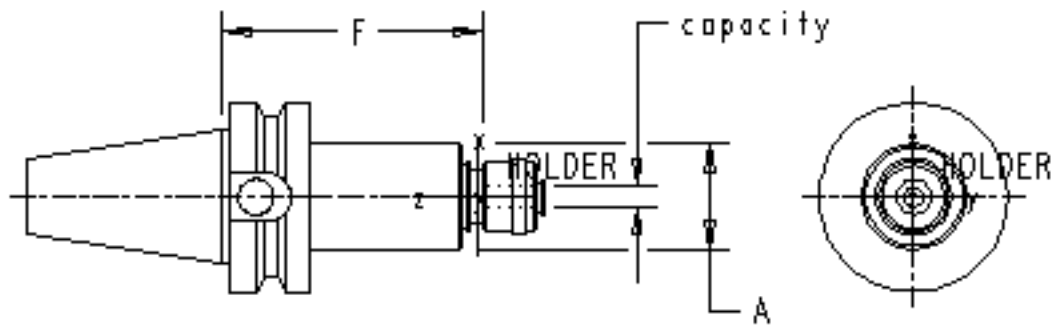
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Instance Name	capacity	Adapter Size	A	F	Tap Adapter Style
SEAAV50611	0.700	#2	2.75	4.88	TC
SEAAV50612	0.687	#2	2.75	4.88	TC

## TAPPING SYSTEMS

### BT FLANGE

#### 40 TAPER, #4 THROUGH 7/8" TAP SIZE, 1/8" THROUGH 3/4" PIPE TAP, TAP ADAPTER



#### Generic Part Name: SEAAB40

Instance Name	capacity	Adapter Size	A	F	Tap Adapter Style
SEAAB40100	0.141	#0	1.38	3.41	T
SEAAB40101	0.168	#0	1.38	3.41	T
SEAAB40102	0.194	#0	1.38	3.41	T
SEAAB40103	0.220	#0	1.38	3.41	T
SEAAB40104	0.255	#0	1.38	3.41	T
SEAAB40200	0.141	#0	1.38	3.41	TC
SEAAB40201	0.168	#0	1.38	3.41	TC
SEAAB40202	0.194	#0	1.38	3.41	TC
SEAAB40203	0.220	#0	1.38	3.41	TC
SEAAB40204	0.255	#0	1.38	3.41	TC
SEAAB40300	0.141	#1	2.00	4.41	T
SEAAB40301	0.168	#1	2.00	4.41	T
SEAAB40302	0.194	#1	2.00	4.41	T
SEAAB40303	0.220	#1	2.00	4.41	T
SEAAB40304	0.255	#1	2.00	4.41	T
SEAAB40305	0.318	#1	2.00	4.41	T
SEAAB40306	0.381	#1	2.00	4.41	T

## TAPPING SYSTEMS

Instance Name	capacity	Adapter Size	A	F	Tap Adapter Style
SEAAB40307	0.323	#1	2.00	4.41	T
SEAAB40308	0.367	#1	2.00	4.41	T
SEAAB40309	0.429	#1	2.00	4.41	T
SEAAB40310	0.313	#1	2.00	4.41	T
SEAAB40311	0.438	#1	2.00	4.41	T
SEAAB40400	0.141	#1	2.00	4.41	TC
SEAAB40401	0.168	#1	2.00	4.41	TC
SEAAB40402	0.194	#1	2.00	4.41	TC
SEAAB40403	0.220	#1	2.00	4.41	TC
SEAAB40404	0.255	#1	2.00	4.41	TC
SEAAB40405	0.318	#1	2.00	4.41	TC
SEAAB40406	0.381	#1	2.00	4.41	TC
SEAAB40407	0.323	#1	2.00	4.41	TC
SEAAB40408	0.367	#1	2.00	4.41	TC
SEAAB40409	0.429	#1	2.00	4.41	TC
SEAAB40410	0.313	#1	2.00	4.41	TC
SEAAB40411	0.438	#1	2.00	4.41	TC
SEAAB40500	0.318	#2	2.75	4.56	T
SEAAB40501	0.381	#2	2.75	4.56	T
SEAAB40502	0.323	#2	2.75	4.56	T
SEAAB40503	0.367	#2	2.75	4.56	T
SEAAB40504	0.429	#2	2.75	4.56	T
SEAAB40505	0.480	#2	2.75	4.56	T
SEAAB40506	0.542	#2	2.75	4.56	T
SEAAB40507	0.590	#2	2.75	4.56	T
SEAAB40508	0.652	#2	2.75	4.56	T
SEAAB40509	0.697	#2	2.75	4.56	T
SEAAB40510	0.562	#2	2.75	4.56	T
SEAAB40511	0.700	#2	2.75	4.56	T
SEAAB40512	0.687	#2	2.75	4.56	T
SEAAB40600	0.318	#2	2.75	4.56	TC
SEAAB40601	0.381	#2	2.75	4.56	TC
SEAAB40602	0.323	#2	2.75	4.56	TC
SEAAB40603	0.367	#2	2.75	4.56	TC
SEAAB40604	0.429	#2	2.75	4.56	TC
SEAAB40605	0.480	#2	2.75	4.56	TC

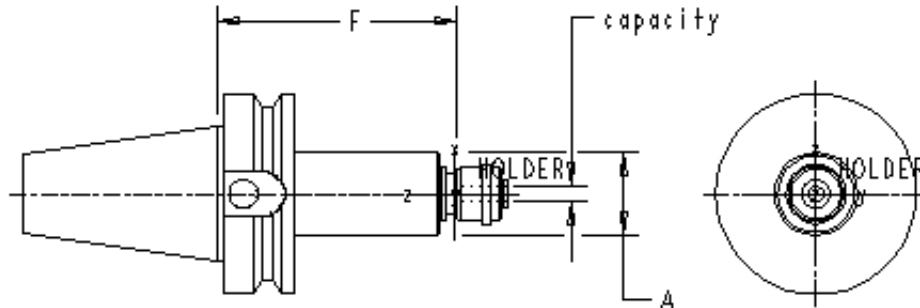
## TAPPING SYSTEMS

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Instance Name	capacity	Adapter Size	A	F	Tap Adapter Style
SEAAB40606	0.542	#2	2.75	4.56	TC
SEAAB40607	0.590	#2	2.75	4.56	TC
SEAAB40608	0.652	#2	2.75	4.56	TC
SEAAB40609	0.697	#2	2.75	4.56	TC
SEAAB40610	0.562	#2	2.75	4.56	TC
SEAAB40611	0.700	#2	2.75	4.56	TC
SEAAB40612	0.687	#2	2.75	4.56	TC

## TAPPING SYSTEMS

### 45 TAPER, #4 THROUGH 7/8" TAP SIZE, 1/8" THROUGH 3/4" PIPE TAP, TAP ADAPTER



**Generic Part Name: SEAAB45**

Instance Name	capacity	Adapter Size	A	F	Tap Adapter Style
SEAAB45100	0.141	#0	1.38	4.02	T
SEAAB45101	0.168	#0	1.38	4.02	T
SEAAB45102	0.194	#0	1.38	4.02	T
SEAAB45103	0.220	#0	1.38	4.02	T
SEAAB45104	0.255	#0	1.38	4.02	T
SEAAB45200	0.141	#0	1.38	4.02	TC
SEAAB45201	0.168	#0	1.38	4.02	TC
SEAAB45202	0.194	#0	1.38	4.02	TC
SEAAB45203	0.220	#0	1.38	4.02	TC
SEAAB45204	0.255	#0	1.38	4.02	TC
SEAAB45300	0.141	#1	2.00	5.02	T
SEAAB45301	0.168	#1	2.00	5.02	T
SEAAB45302	0.194	#1	2.00	5.02	T
SEAAB45303	0.220	#1	2.00	5.02	T
SEAAB45304	0.255	#1	2.00	5.02	T
SEAAB45305	0.318	#1	2.00	5.02	T
SEAAB45306	0.381	#1	2.00	5.02	T
SEAAB45307	0.323	#1	2.00	5.02	T
SEAAB45308	0.367	#1	2.00	5.02	T
SEAAB45309	0.429	#1	2.00	5.02	T

## TAPPING SYSTEMS

Instance Name	capacity	Adapter Size	A	F	Tap Adapter Style
SEAAB45310	0.313	#1	2.00	5.02	T
SEAAB45311	0.438	#1	2.00	5.02	T
SEAAB45400	0.141	#1	2.00	5.02	TC
SEAAB45401	0.168	#1	2.00	5.02	TC
SEAAB45402	0.194	#1	2.00	5.02	TC
SEAAB45403	0.220	#1	2.00	5.02	TC
SEAAB45404	0.255	#1	2.00	5.02	TC
SEAAB45405	0.318	#1	2.00	5.02	TC
SEAAB45406	0.381	#1	2.00	5.02	TC
SEAAB45407	0.323	#1	2.00	5.02	TC
SEAAB45408	0.367	#1	2.00	5.02	TC
SEAAB45409	0.429	#1	2.00	5.02	TC
SEAAB45410	0.313	#1	2.00	5.02	TC
SEAAB45411	0.438	#1	2.00	5.02	TC
SEAAB45500	0.318	#2	2.75	5.18	T
SEAAB45501	0.381	#2	2.75	5.18	T
SEAAB45502	0.323	#2	2.75	5.18	T
SEAAB45503	0.367	#2	2.75	5.18	T
SEAAB45504	0.429	#2	2.75	5.18	T
SEAAB45505	0.480	#2	2.75	5.18	T
SEAAB45506	0.542	#2	2.75	5.18	T
SEAAB45507	0.590	#2	2.75	5.18	T
SEAAB45508	0.652	#2	2.75	5.18	T
SEAAB45509	0.697	#2	2.75	5.18	T
SEAAB45510	0.562	#2	2.75	5.18	T
SEAAB45511	0.700	#2	2.75	5.18	T
SEAAB45512	0.687	#2	2.75	5.18	T
SEAAB45600	0.318	#2	2.75	5.18	TC
SEAAB45601	0.381	#2	2.75	5.18	TC
SEAAB45602	0.323	#2	2.75	5.18	TC
SEAAB45603	0.367	#2	2.75	5.18	TC
SEAAB45604	0.429	#2	2.75	5.18	TC
SEAAB45605	0.480	#2	2.75	5.18	TC
SEAAB45606	0.542	#2	2.75	5.18	TC
SEAAB45607	0.590	#2	2.75	5.18	TC
SEAAB45608	0.652	#2	2.75	5.18	TC

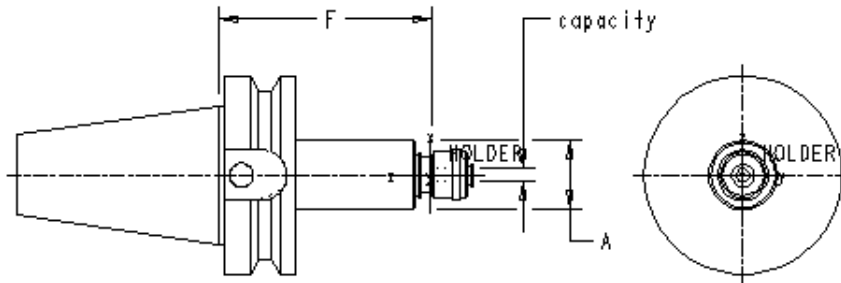
## TAPPING SYSTEMS

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Instance Name	capacity	Adapter Size	A	F	Tap Adapter Style
SEAAB45609	0.697	#2	2.75	5.18	TC
SEAAB45610	0.562	#2	2.75	5.18	TC
SEAAB45611	0.700	#2	2.75	5.18	TC
SEAAB45612	0.687	#2	2.75	5.18	TC

## TAPPING SYSTEMS

### 50 TAPER, #4 THROUGH 7/8" TAP SIZE, 1/8" THROUGH 3/4" PIPE TAP, TAP ADAPTER



#### Generic Part Name: SEAAB50

Instance Name	capacity	Adapter Size	A	F	Tap Adapter Style
SEAAB50100	0.141	#0	1.38	4.22	T
SEAAB50101	0.168	#0	1.38	4.22	T
SEAAB50102	0.194	#0	1.38	4.22	T
SEAAB50103	0.220	#0	1.38	4.22	T
SEAAB50104	0.255	#0	1.38	4.22	T
SEAAB50200	0.141	#0	1.38	4.22	TC
SEAAB50201	0.168	#0	1.38	4.22	TC
SEAAB50202	0.194	#0	1.38	4.22	TC
SEAAB50203	0.220	#0	1.38	4.22	TC
SEAAB50204	0.255	#0	1.38	4.22	TC
SEAAB50300	0.141	#1	2.00	5.22	T
SEAAB50301	0.168	#1	2.00	5.22	T
SEAAB50302	0.194	#1	2.00	5.22	T
SEAAB50303	0.220	#1	2.00	5.22	T
SEAAB50304	0.255	#1	2.00	5.22	T
SEAAB50305	0.318	#1	2.00	5.22	T
SEAAB50306	0.381	#1	2.00	5.22	T
SEAAB50307	0.323	#1	2.00	5.22	T
SEAAB50308	0.367	#1	2.00	5.22	T
SEAAB50309	0.429	#1	2.00	5.22	T
SEAAB50310	0.313	#1	2.00	5.22	T

## TAPPING SYSTEMS

Instance Name	capacity	Adapter Size	A	F	Tap Adapter Style
SEAAB50311	0.438	#1	2.00	5.22	T
SEAAB50400	0.141	#1	2.00	5.22	TC
SEAAB50401	0.168	#1	2.00	5.22	TC
SEAAB50402	0.194	#1	2.00	5.22	TC
SEAAB50403	0.220	#1	2.00	5.22	TC
SEAAB50404	0.255	#1	2.00	5.22	TC
SEAAB50405	0.318	#1	2.00	5.22	TC
SEAAB50406	0.381	#1	2.00	5.22	TC
SEAAB50407	0.323	#1	2.00	5.22	TC
SEAAB50408	0.367	#1	2.00	5.22	TC
SEAAB50409	0.429	#1	2.00	5.22	TC
SEAAB50410	0.313	#1	2.00	5.22	TC
SEAAB50411	0.438	#1	2.00	5.22	TC
SEAAB50500	0.318	#2	2.75	5.38	T
SEAAB50501	0.381	#2	2.75	5.38	T
SEAAB50502	0.323	#2	2.75	5.38	T
SEAAB50503	0.367	#2	2.75	5.38	T
SEAAB50504	0.429	#2	2.75	5.38	T
SEAAB50505	0.480	#2	2.75	5.38	T
SEAAB50506	0.542	#2	2.75	5.38	T
SEAAB50507	0.590	#2	2.75	5.38	T
SEAAB50508	0.652	#2	2.75	5.38	T
SEAAB50509	0.697	#2	2.75	5.38	T
SEAAB50510	0.562	#2	2.75	5.38	T
SEAAB50511	0.700	#2	2.75	5.38	T
SEAAB50512	0.687	#2	2.75	5.38	T
SEAAB50600	0.318	#2	2.75	5.38	TC
SEAAB50601	0.381	#2	2.75	5.38	TC
SEAAB50602	0.323	#2	2.75	5.38	TC
SEAAB50603	0.367	#2	2.75	5.38	TC
SEAAB50604	0.429	#2	2.75	5.38	TC
SEAAB50605	0.480	#2	2.75	5.38	TC
SEAAB50606	0.542	#2	2.75	5.38	TC
SEAAB50607	0.590	#2	2.75	5.38	TC
SEAAB50608	0.652	#2	2.75	5.38	TC
SEAAB50609	0.697	#2	2.75	5.38	TC

## TAPPING SYSTEMS

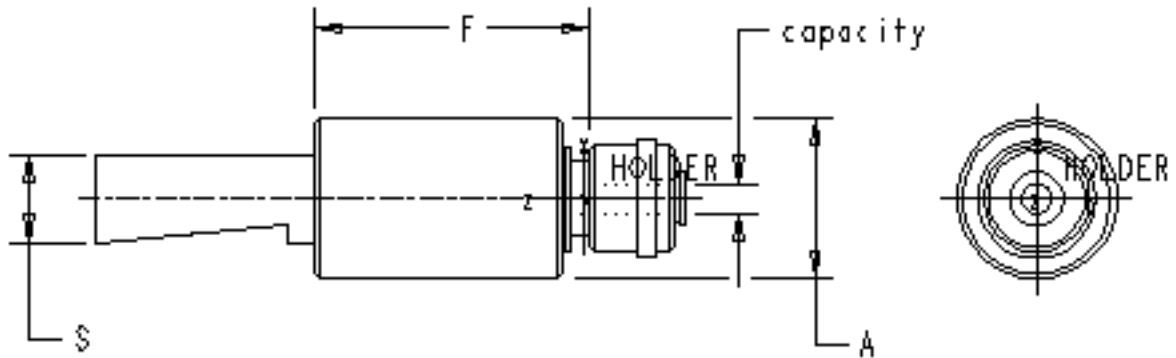
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Instance Name	capacity	Adapter Size	A	F	Tap Adapter Style
SEAAB50610	0.562	#2	2.75	5.38	TC
SEAAB50611	0.700	#2	2.75	5.38	TC
SEAAB50612	0.687	#2	2.75	5.38	TC

## TAPPING SYSTEMS

### SELF-RELEASING TAP CHUCK

**0.75" AND 1" SHANK DIAMETER, #4 THROUGH 7/8" TAP SIZE, 1/8" THROUGH 3/4" PIPE TAP, TAP ADAPTER**



**Generic Part Name: SETSSA**

Instance Name	Capacity	Adapter Size	A	F	S	Tap Adapter Style
SETSSA100	0.141	#0	1.37	2.35	0.75	T
SETSSA101	0.168	#0	1.37	2.35	0.75	T
SETSSA102	0.194	#0	1.37	2.35	0.75	T
SETSSA103	0.220	#0	1.37	2.35	0.75	T
SETSSA104	0.255	#0	1.37	2.35	0.75	T
SETSSA200	0.141	#0	1.37	2.35	0.75	TC
SETSSA201	0.168	#0	1.37	2.35	0.75	TC
SETSSA202	0.194	#0	1.37	2.35	0.75	TC
SETSSA203	0.220	#0	1.37	2.35	0.75	TC
SETSSA204	0.255	#0	1.37	2.35	0.75	TC
SETSSA300	0.141	#1	2.00	3.35	1.00	T
SETSSA301	0.168	#1	2.00	3.35	1.00	T
SETSSA302	0.194	#1	2.00	3.35	1.00	T
SETSSA303	0.220	#1	2.00	3.35	1.00	T
SETSSA304	0.255	#1	2.00	3.35	1.00	T
SETSSA305	0.318	#1	2.00	3.35	1.00	T
SETSSA306	0.381	#1	2.00	3.35	1.00	T

## TAPPING SYSTEMS

Instance Name	Capacity	Adapter Size	A	F	S	Tap Adapter Style
SETSSA307	0.323	#1	2.00	3.35	1.00	T
SETSSA308	0.367	#1	2.00	3.35	1.00	T
SETSSA309	0.429	#1	2.00	3.35	1.00	T
SETSSA310	0.313	#1	2.00	3.35	1.00	T
SETSSA311	0.438	#1	2.00	3.35	1.00	T
SETSSA400	0.141	#1	2.00	3.35	1.00	TC
SETSSA401	0.168	#1	2.00	3.35	1.00	TC
SETSSA402	0.194	#1	2.00	3.35	1.00	TC
SETSSA403	0.220	#1	2.00	3.35	1.00	TC
SETSSA404	0.255	#1	2.00	3.35	1.00	TC
SETSSA405	0.318	#1	2.00	3.35	1.00	TC
SETSSA406	0.381	#1	2.00	3.35	1.00	TC
SETSSA407	0.323	#1	2.00	3.35	1.00	TC
SETSSA408	0.367	#1	2.00	3.35	1.00	TC
SETSSA409	0.429	#1	2.00	3.35	1.00	TC
SETSSA410	0.313	#1	2.00	3.35	1.00	TC
SETSSA411	0.438	#1	2.00	3.35	1.00	TC
SETSSA500	0.318	#2	2.75	3.50	1.00	T
SETSSA501	0.381	#2	2.75	3.50	1.00	T
SETSSA502	0.323	#2	2.75	3.50	1.00	T
SETSSA503	0.367	#2	2.75	3.50	1.00	T
SETSSA504	0.429	#2	2.75	3.50	1.00	T
SETSSA505	0.480	#2	2.75	3.50	1.00	T
SETSSA506	0.542	#2	2.75	3.50	1.00	T
SETSSA507	0.590	#2	2.75	3.50	1.00	T
SETSSA508	0.652	#2	2.75	3.50	1.00	T
SETSSA509	0.697	#2	2.75	3.50	1.00	T
SETSSA510	0.562	#2	2.75	3.50	1.00	T
SETSSA511	0.700	#2	2.75	3.50	1.00	T
SETSSA512	0.687	#2	2.75	3.50	1.00	T
SETSSA600	0.318	#2	2.75	3.50	1.00	TC
SETSSA601	0.381	#2	2.75	3.50	1.00	TC
SETSSA602	0.323	#2	2.75	3.50	1.00	TC
SETSSA603	0.367	#2	2.75	3.50	1.00	TC
SETSSA604	0.429	#2	2.75	3.50	1.00	TC
SETSSA605	0.480	#2	2.75	3.50	1.00	TC

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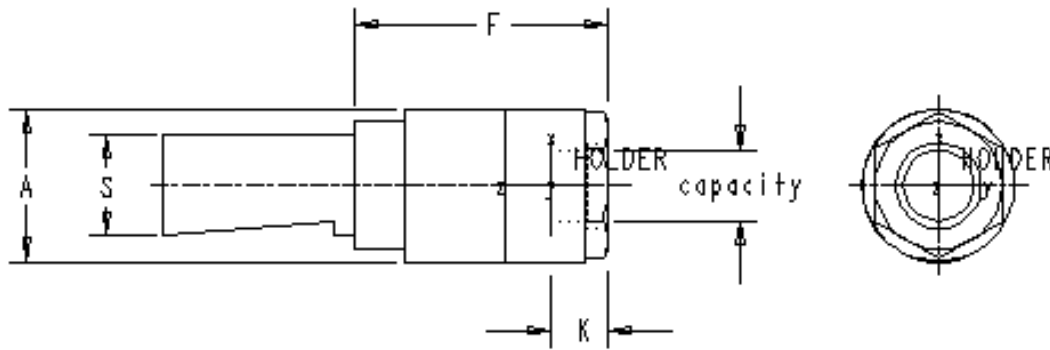
## TAPPING SYSTEMS

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Instance Name	Capacity	Adapter Size	A	F	S	Tap Adapter Style
SETSSA606	0.542	#2	2.75	3.50	1.00	TC
SETSSA607	0.590	#2	2.75	3.50	1.00	TC
SETSSA608	0.652	#2	2.75	3.50	1.00	TC
SETSSA609	0.697	#2	2.75	3.50	1.00	TC
SETSSA610	0.562	#2	2.75	3.50	1.00	TC
SETSSA611	0.700	#2	2.75	3.50	1.00	TC
SETSSA612	0.687	#2	2.75	3.50	1.00	TC

## SOLID DRIVE STRAIGHT SHANK ASSEMBLIES

1" SHANK DIAMETER, #0 THROUGH 1-5/8" TAP SIZE, 1/8" THROUGH 1-1/4" PIPE TAP, COLLET TAP CHUCK



**Generic Part Name: SOTSSC**

Instance Name	capacity	Collet Series	A	F	K	S
SDSSCT000	0.141	L	1.50	1.69	0.56	1.00
SDSSCT001	0.168	L	1.50	1.69	0.56	1.00
SDSSCT002	0.194	L	1.50	1.69	0.56	1.00
SDSSCT003	0.220	L	1.50	1.69	0.56	1.00
SDSSCT004	0.255	L	1.50	1.69	0.56	1.00
SDSSCT005	0.318	L	1.50	1.69	0.56	1.00
SDSSCT006	0.381	L	1.50	1.69	0.56	1.00
SDSSCT007	0.323	L	1.50	1.69	0.56	1.00
SDSSCT008	0.367	L	1.50	1.69	0.56	1.00
SDSSCT009	0.429	L	1.50	1.69	0.56	1.00
SDSSCT010	0.480	L	1.50	1.69	0.56	1.00
SDSSCT011	0.590	L	1.50	1.69	0.56	1.00
SDSSCT012	0.697	L	1.50	1.69	0.56	1.00
SDSSCT013	0.313	L	1.50	1.69	0.56	1.00
SDSSCT014	0.438	L	1.50	1.69	0.56	1.00
SDSSCT015	0.563	L	1.50	1.69	0.56	1.00
SDSSCT016	0.700	L	1.50	1.69	0.56	1.00
SDSSCT017	0.688	L	1.50	1.69	0.56	1.00

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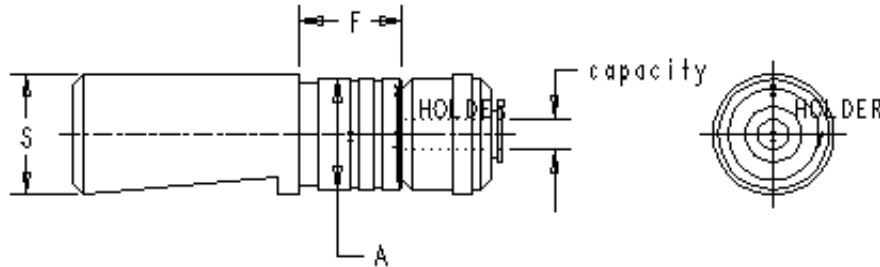
## TAPPING SYSTEMS

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Instance Name	capacity	Collet Series	A	F	K	S
SDSSCT100	0.590	N	2.75	2.50	0.75	1.00
SDSSCT101	0.697	N	2.75	2.50	0.75	1.00
SDSSCT102	0.800	N	2.75	2.50	0.75	1.00
SDSSCT103	0.896	N	2.75	2.50	0.75	1.00
SDSSCT104	1.021	N	2.75	2.50	0.75	1.00
SDSSCT105	1.108	N	2.75	2.50	0.75	1.00
SDSSCT106	1.233	N	2.75	2.50	0.75	1.00
SDSSCT107	1.305	N	2.75	2.50	0.75	1.00
SDSSCT108	0.688	N	2.75	2.50	0.75	1.00
SDSSCT109	0.906	N	2.75	2.50	0.75	1.00
SDSSCT110	1.125	N	2.75	2.50	0.75	1.00
SDSSCT111	1.313	N	2.75	2.50	0.75	1.00

## TAPPING SYSTEMS

### 1" SHANK DIAMETER, #0 THROUGH 7/8" TAP SIZE, 1/8" THROUGH 3/4" PIPE TAP, TAP ADAPTER



### Generic Part Name: SOTSSA

Instance Name	capacity	Adapter Size	A	F	S	Tap Adapter Style
SOTSSA100	0.141	#0	0.90	1.38	1.00	T
SOTSSA101	0.168	#0	0.90	1.38	1.00	T
SOTSSA102	0.194	#0	0.90	1.38	1.00	T
SOTSSA103	0.220	#0	0.90	1.38	1.00	T
SOTSSA104	0.255	#0	0.90	1.38	1.00	T
SOTSSA200	0.141	#0	0.90	1.38	1.00	TC
SOTSSA201	0.168	#0	0.90	1.38	1.00	TC
SOTSSA202	0.194	#0	0.90	1.38	1.00	TC
SOTSSA203	0.220	#0	0.90	1.38	1.00	TC
SOTSSA204	0.255	#0	0.90	1.38	1.00	TC
SOTSSA300	0.141	#1	1.26	1.38	1.00	T
SOTSSA301	0.168	#1	1.26	1.38	1.00	T
SOTSSA302	0.194	#1	1.26	1.38	1.00	T
SOTSSA303	0.220	#1	1.26	1.38	1.00	T
SOTSSA304	0.255	#1	1.26	1.38	1.00	T
SOTSSA305	0.318	#1	1.26	1.38	1.00	T
SOTSSA306	0.381	#1	1.26	1.38	1.00	T
SOTSSA307	0.323	#1	1.26	1.38	1.00	T
SOTSSA308	0.367	#1	1.26	1.38	1.00	T
SOTSSA309	0.429	#1	1.26	1.38	1.00	T
SOTSSA310	0.313	#1	1.26	1.38	1.00	T
SOTSSA311	0.438	#1	1.26	1.38	1.00	T

## TAPPING SYSTEMS

Instance Name	capacity	Adapter Size	A	F	S	Tap Adapter Style
SOTSSA400	0.141	#1	1.26	1.38	1.00	TC
SOTSSA401	0.168	#1	1.26	1.38	1.00	TC
SOTSSA402	0.194	#1	1.26	1.38	1.00	TC
SOTSSA403	0.220	#1	1.26	1.38	1.00	TC
SOTSSA404	0.255	#1	1.26	1.38	1.00	TC
SOTSSA405	0.318	#1	1.26	1.38	1.00	TC
SOTSSA406	0.381	#1	1.26	1.38	1.00	TC
SOTSSA407	0.323	#1	1.26	1.38	1.00	TC
SOTSSA408	0.367	#1	1.26	1.38	1.00	TC
SOTSSA409	0.429	#1	1.26	1.38	1.00	TC
SOTSSA410	0.313	#1	1.26	1.38	1.00	TC
SOTSSA411	0.438	#1	1.26	1.38	1.00	TC
SOTSSA500	0.318	#2	1.85	2.17	1.00	T
SOTSSA501	0.381	#2	1.85	2.17	1.00	T
SOTSSA502	0.323	#2	1.85	2.17	1.00	T
SOTSSA503	0.367	#2	1.85	2.17	1.00	T
SOTSSA504	0.429	#2	1.85	2.17	1.00	T
SOTSSA505	0.480	#2	1.85	2.17	1.00	T
SOTSSA506	0.542	#2	1.85	2.17	1.00	T
SOTSSA507	0.590	#2	1.85	2.17	1.00	T
SOTSSA508	0.652	#2	1.85	2.17	1.00	T
SOTSSA509	0.697	#2	1.85	2.17	1.00	T
SOTSSA510	0.562	#2	1.85	2.17	1.00	T
SOTSSA511	0.700	#2	1.85	2.17	1.00	T
SOTSSA512	0.687	#2	1.85	2.17	1.00	T
SOTSSA600	0.318	#2	1.85	2.17	1.00	TC
SOTSSA601	0.381	#2	1.85	2.17	1.00	TC
SOTSSA602	0.323	#2	1.85	2.17	1.00	TC
SOTSSA603	0.367	#2	1.85	2.17	1.00	TC
SOTSSA604	0.429	#2	1.85	2.17	1.00	TC
SOTSSA605	0.480	#2	1.85	2.17	1.00	TC
SOTSSA606	0.542	#2	1.85	2.17	1.00	TC
SOTSSA607	0.590	#2	1.85	2.17	1.00	TC
SOTSSA608	0.652	#2	1.85	1.73	1.00	TC
SOTSSA609	0.697	#2	1.85	2.17	1.00	TC
SOTSSA610	0.562	#2	1.85	1.73	1.00	TC

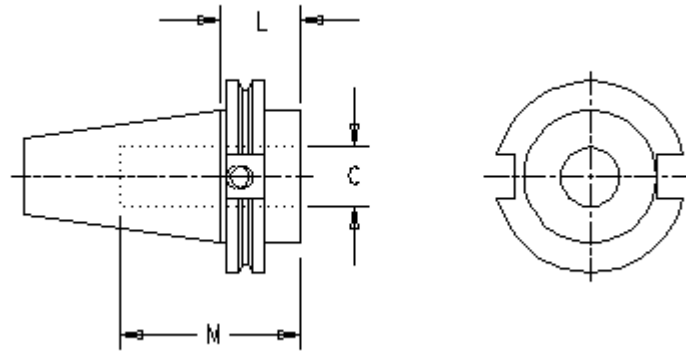
## TAPPING SYSTEMS

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Instance Name	capacity	Adapter Size	A	F	S	Tap Adapter Style
SOTSSA611	0.700	#2	1.85	2.17	1.00	TC
SOTSSA612	0.687	#2	1.85	2.17	1.00	TC

## STRAIGHT SHANK ADAPTERS

### CATERPILLAR V-FLANGE, 30, 40, 45, AND 50 TAPER



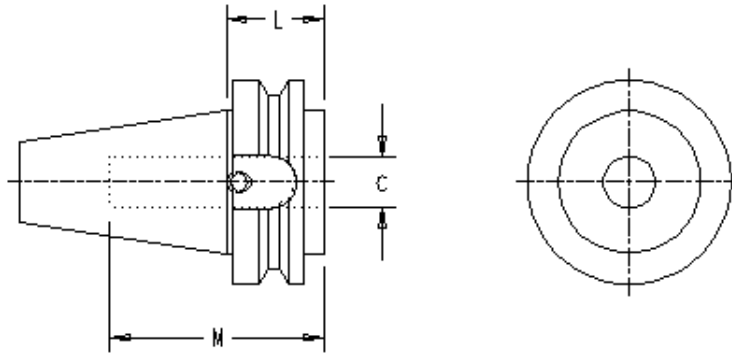
**Generic Part Name: SSVF**

Instance Name	Taper	M	L	C
SSVF3001	30	1.500	1.375	1.000
SSVF4001	40	2.812	1.375	1.000
SSVF4501	45	3.062	1.375	1.000
SSVF5001	50	3.625	1.375	1.000
SSVF5002	50	3.625	1.375	1.250

## TAPPING SYSTEMS

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### BT (JMBTA) FLANGE, 30, 40, 45, AND 50 TAPER



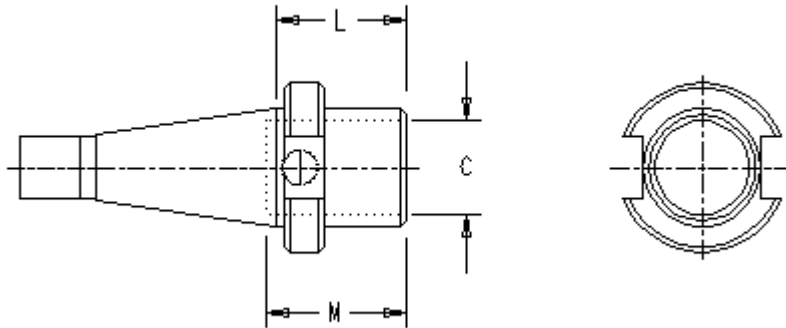
### Generic Part Name: SSBT

Instance Name	Taper	M	L	C
SSBT3001	30	1.500	1.566	1.000
SSBT4001	40	2.440	1.062	1.000
SSBT4501	45	3.380	1.675	1.000
SSBT5001	50	4.120	1.875	1.000

## TAPPING SYSTEMS

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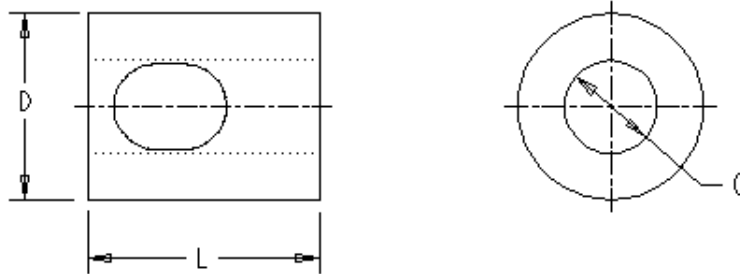
### QUICK CHANGE/NMTB FLANGE, 30 AND 40 TAPER



**Generic Part Name: SSQC**

Instance Name	Taper	M	L	C
SSQC3001	30	1.500	1.375	1.000
SSQC4001	40	2.750	1.375	1.000

### STRAIGHT SHANK REDUCING SLEEVES



**Generic Part Name: SSSL**

Instance Name	Taper	D	L	C
SSSL0001	0.50IN-1.00IN.	1.000	1.250	0.500
SSSL0002	0.75IN.-1.00IN.	1.000	1.650	0.750