

CADGE

TOOLS



CONTENT

MISSION & VISION



Vision

To be a global leader in carbon cutting tool manufacturing, driving innovation, precision, and sustainability for industries worldwide.



Mission

To innovate and manufacture high-precision carbon cutting tools, delivering exceptional quality, durability, and performance for diverse industries worldwide

Values

Integrity, innovation, precision, sustainability, quality, customer satisfaction, teamwork, reliability, and continuous improvement in every tool we create.





WELCOME TO CARBON CUTTING TOOLS MANUFACTURING COMPANY



At **CADGE TOOLS** Carbon Cutting Tools Manufacturing Company, we pride ourselves on being a trusted leader in the design and production of high-quality cutting tools. With a commitment to precision engineering and advanced technology, we serve industries worldwide, empowering them with reliable tools for their most demanding applications.

WHY CHOOSE US ?

Innovative Technology:

We stay ahead with the latest advancements in machining and design.

Tailored Solutions:

Our team works closely with clients to deliver customized tools.

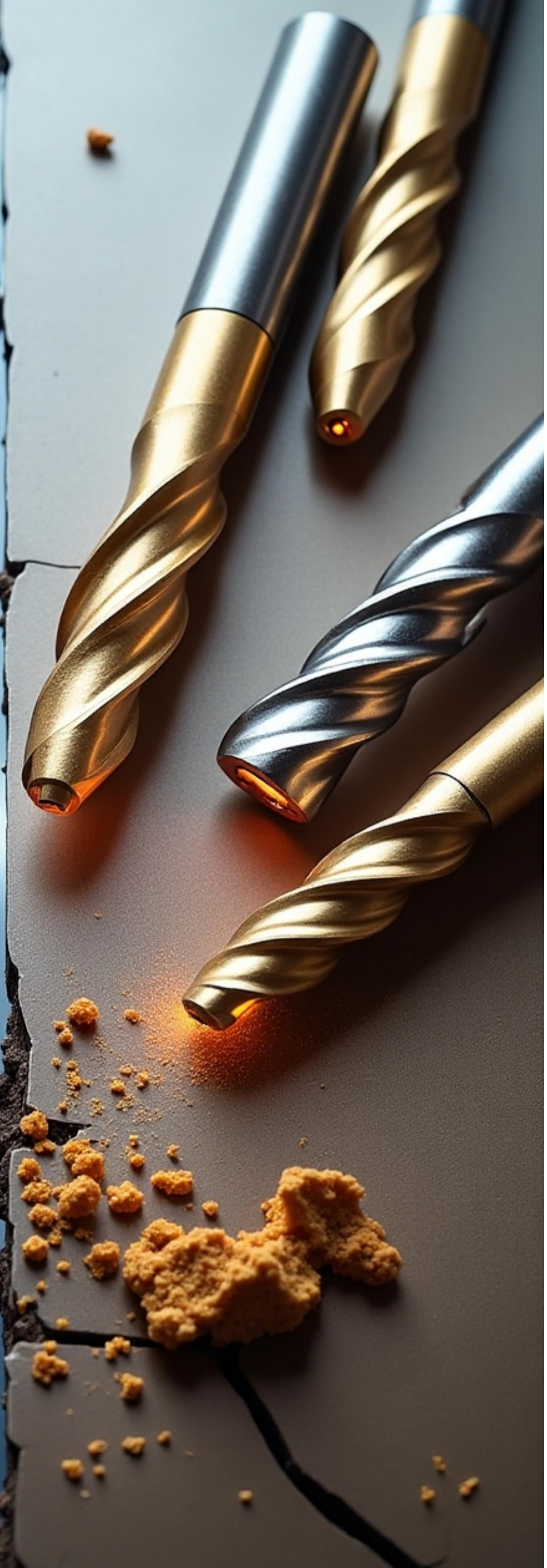
Global Reach:

Serving industries across continents, our tools are a preferred choice worldwide.

Exceptional Support:

Our dedicated customer service team is here to assist you every step of the way.







APPLICATION



Aerospace



Medical



Power & Energy



Automotive



Mould & Die



Casting & Foundry



General Energy

ICON GUIDE

Endface Type



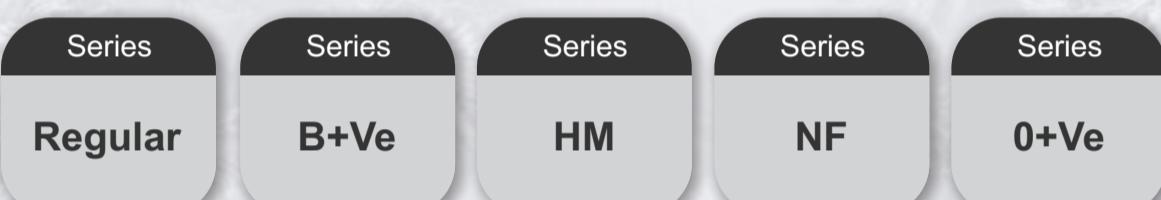
Helix Angle



No. of Flutes



Material Series



Work Material Hardness



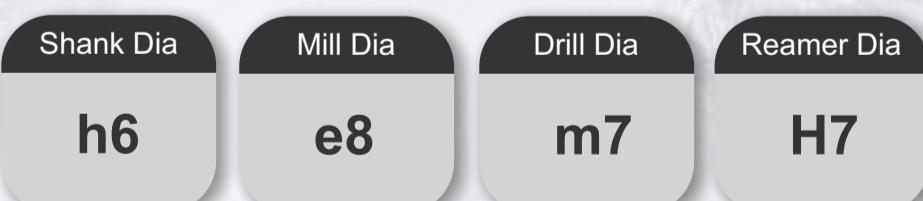
Coating



Tool Length Series



Tolerance



Standard

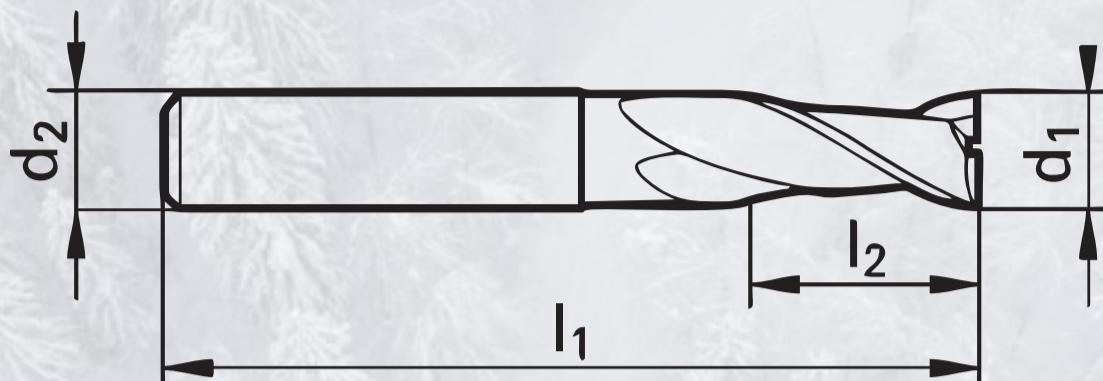


ENDMILL



CEM2

2 FLUTE ENDMILL



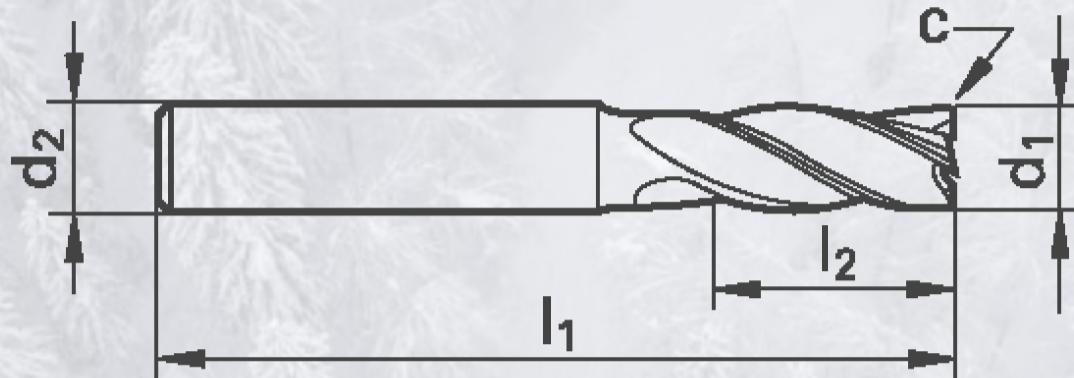
2 FLUTE ENDMILL (REGULAR)				
ITEAM COED	MILL DIA	SHANK DIA	FLUTE	OAL
CEM2 030R	3	3	10	39
CEM2 040R	4	4	14	51
CEM2 050R	5	5	16	51
CEM2 060R	6	6	19	63
CEM2 080R	8	8	22	63
CEM2 100R	10	10	25	70
CEM2 120R	12	12	25	75
CEM2 140R	14	14	30	80
CEM2 160R	16	16	32	80
CEM2 180R	18	18	35	101
CEM2 200R	20	20	38	101

2 FLUTE ENDMILL (Long)				
ITEAM COED	MILL DIA	SHANK DIA	FLUTE	OAL
CEM2 030L	3	3	19	57
CEM2 040L	4	4	19	57
CEM2 050L	5	5	25	63
CEM2 060L	6	6	28	76
CEM2 080L	8	8	29	76
CEM2 100L	10	10	32	76
CEM2 120L	12	12	51	101
CEM2 140L	14	14	55	125
CEM2 160L	16	16	55	125
CEM2 180L	18	18	55	125
CEM2 200L	20	20	55	125

2 FLUTE ENDMILL (Ex.Long)				
ITEAM COED	MILL DIA	SHANK DIA	FLUTE	OAL
CEM2 030XL	3	3	25	75
CEM2 040XL	4	4	25	75
CEM2 050XL	5	5	28	75
CEM2 060XL	6	6	38	100
CEM2 080XL	8	8	40	100
CEM2 100XL	10	10	45	100
CEM2 120XL	12	12	60	150
CEM2 140XL	14	14	75	150
CEM2 160XL	16	16	75	150
CEM2 180XL	18	18	75	150
CEM2 200XL	20	20	75	150

CEM4

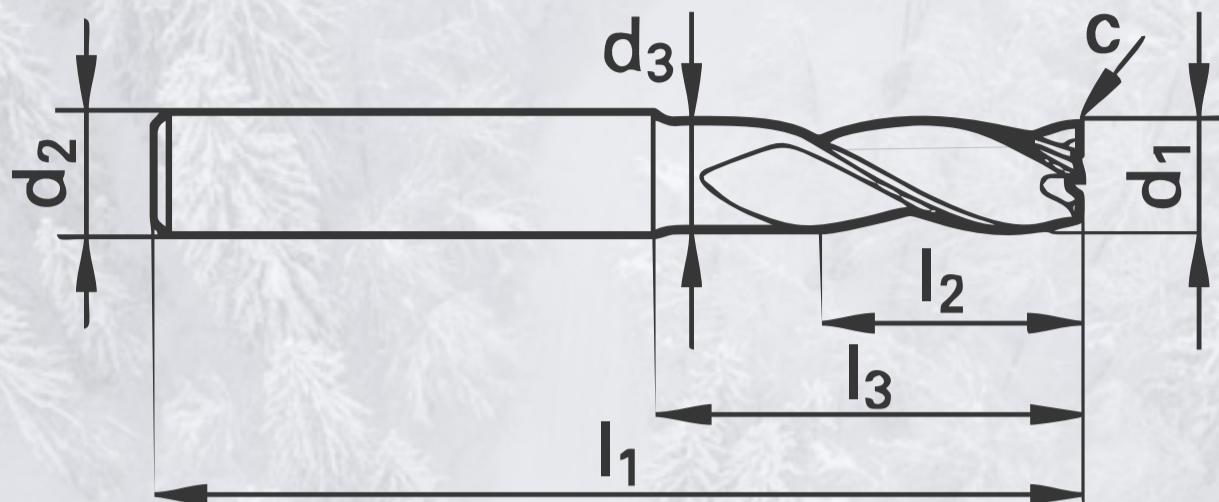
4 FLUTE ENDMILL



4 FLUTE ENDMILL (REGULAR)				
ITEM COED	MILL DIA	SHANK DIA	FLUTE	OAL
CEM4 030R	3	3	10	39
CEM4 040R	4	4	14	51
CEM4 050R	5	5	16	51
CEM4 060R	6	6	19	63
CEM4 080R	8	8	22	63
CEM4 100R	10	10	25	70
CEM4 120R	12	12	25	75
CEM4 140R	14	14	30	80
CEM4 160R	16	16	32	80
CEM4 180R	18	18	35	101
CEM4 200R	20	20	38	101
4 FLUTE ENDMILL (Long)				
ITEM COED	MILL DIA	SHANK DIA	FLUTE	OAL
CEM4 030L	3	3	19	57
CEM4 040L	4	4	19	57
CEM4 050L	5	5	25	63
CEM4 060L	6	6	28	76
CEM4 080L	8	8	29	76
CEM4 100L	10	10	32	76
CEM4 120L	12	12	51	101
CEM4 140L	14	14	55	125
CEM4 160L	16	16	55	125
CEM4 180L	18	18	55	125
CEM4 200L	20	20	55	125
4 FLUTE ENDMILL (Ex.Long)				
ITEM COED	MILL DIA	SHANK DIA	FLUTE	OAL
CEM4 030XL	3	3	25	75
CEM4 040XL	4	4	25	75
CEM4 050XL	5	5	28	75
CEM4 060XL	6	6	38	100
CEM4 080XL	8	8	40	100
CEM4 100XL	10	10	45	100
CEM4 120XL	12	12	60	150
CEM4 140XL	14	14	75	150
CEM4 160XL	16	16	75	150
CEM4 180XL	18	18	75	150
CEM4 200XL	20	20	75	150

CEM3

3 FLUTE ENDMILL



3 FLUTE SQUARE ENDMILL				
ITEM COED	MILL DIA	SHANK DIA	FLUTE	OAL
CEM3 030R	3	3	10	39
CEM3 040R	4	4	14	51
CEM3 050R	5	5	16	51
CEM3 060R	6	6	19	63
CEM3 080R	8	8	22	63
CEM3 100R	10	10	25	70
CEM3 120R	12	12	25	75
CEM3 140R	14	14	30	80
CEM3 160R	16	16	32	80
CEM3 180R	18	18	35	101
CEM3 200R	20	20	38	101

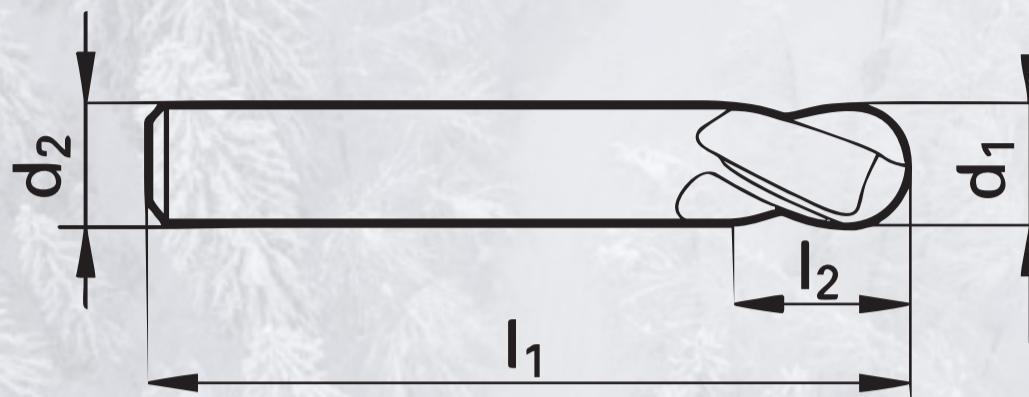
BALLNOSE



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CBN2

2 FLUTE BALLNOSE



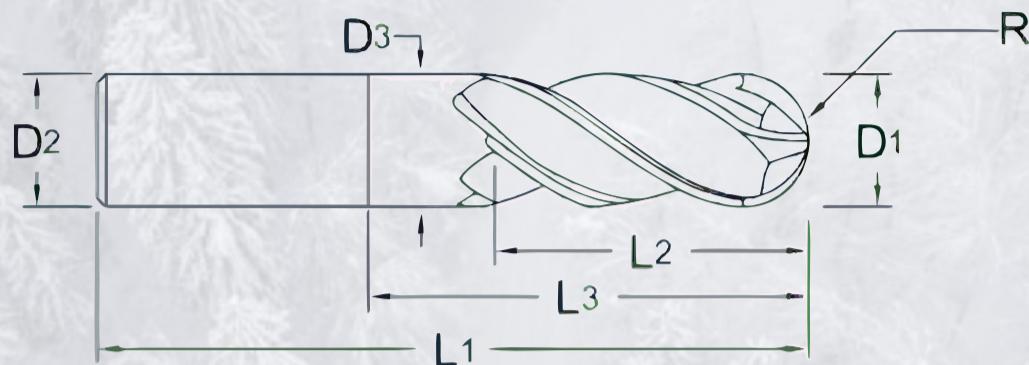
2 FLUTE BALLNOSE (REGULAR)					
ITEM	COED	MILL DIA	HANK DIA	FLUTE	OAL
CBN2 030R	3	3	3	10	39
CBN2 040R	4	4	4	14	51
CBN2 050R	5	5	5	16	51
CBN2 060R	6	6	6	19	63
CBN2 080R	8	8	8	22	63
CBN2 100R	10	10	10	25	70
CBN2 120R	12	12	12	25	75
CBN2 140R	14	14	14	30	80
CBN2 160R	16	16	16	32	80
CBN2 180R	18	18	18	35	101
CBN2 200R	20	20	20	38	101

2 FLUTE BALLNOSE (Long)					
ITEM	COED	MILL DIA	HANK DIA	FLUTE	OAL
CBN2 030L	3	3	3	19	57
CBN2 040L	4	4	4	19	57
CBN2 050L	5	5	5	25	63
CBN2 060L	6	6	6	28	76
CBN2 080L	8	8	8	29	76
CBN2 100L	10	10	10	32	76
CBN2 120L	12	12	12	51	101
CBN2 140L	14	14	14	55	125
CBN2 160L	16	16	16	55	125
CBN2 180L	18	18	18	55	125
CBN2 200L	20	20	20	55	125

2 FLUTE BALLNOSE (Ex.Long)					
ITEM	COED	MILL DIA	HANK DIA	FLUTE	OAL
CBN2 030XL	3	3	3	25	75
CBN2 040XL	4	4	4	25	75
CBN2 050XL	5	5	5	28	75
CBN2 060XL	6	6	6	38	100
CBN2 080XL	8	8	8	40	100
CBN2 100XL	10	10	10	45	100
CBN2 120XL	12	12	12	60	150
CBN2 140XL	14	14	14	75	150
CBN2 160XL	16	16	16	75	150
CBN2 180XL	18	18	18	75	150
CBN2 200XL	20	20	20	75	150

CBN4

4 FLUTE BALLNOSE



4 FLUTE BALLNOSE (REGULAR)				
ITEM COED	MILL DIA	SHANK DIA	FLUTE	OAL
CBN4 030R	3	3	10	39
CBN4 040R	4	4	14	51
CBN4 050R	5	5	16	51
CBN4 060R	6	6	19	63
CBN4 080R	8	8	22	63
CBN4 100R	10	10	25	70
CBN4 120R	12	12	25	75
CBN4 140R	14	14	30	80
CBN4 160R	16	16	32	80
CBN4 180R	18	18	35	101
CBN4 200R	20	20	38	101

4 FLUTE BALLNOSE (Long)				
ITEM COED	MILL DIA	SHANK DIA	FLUTE	OAL
CBN4 030L	3	3	19	57
CBN4 040L	4	4	19	57
CBN4 050L	5	5	25	63
CBN4 060L	6	6	28	76
CBN4 080L	8	8	29	76
CBN4 100L	10	10	32	76
CBN4 120L	12	12	51	101
CBN4 140L	14	14	55	125
CBN4 160L	16	16	55	125
CBN4 180L	18	18	55	125
CBN4 200L	20	20	55	125

4 FLUTE BALLNOSE (Ex.Long)				
ITEM COED	MILL DIA	SHANK DIA	FLUTE	OAL
CBN4 030XL	3	3	25	75
CBN4 040XL	4	4	25	75
CBN4 050XL	5	5	28	75
CBN4 060XL	6	6	38	100
CBN4 080XL	8	8	40	100
CBN4 100XL	10	10	45	100
CBN4 120XL	12	12	60	150
CBN4 140XL	14	14	75	150
CBN4 160XL	16	16	75	150
CBN4 180XL	18	18	75	150
CBN4 200XL	20	20	75	150

CORNER RADIUS



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CCR2

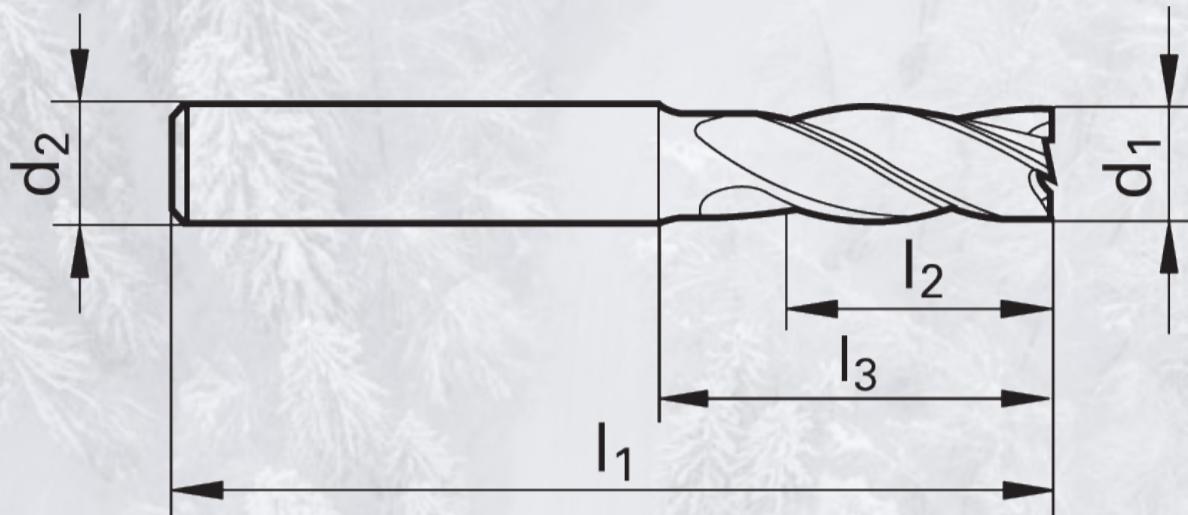
2 FLUTE CORNER RADIUS



2 FLUTE CORNER RADIUS					
ITEM COED	MILL DIA	SHANK DIA	RADIUS	FLUTE	OAL
CCR2 030R	3	3	0.5	10	39
CCR2 030R	3	3	1	10	39
CCR2 040R	4	4	0.5	14	51
CCR2 040R	4	4	1	14	51
CCR2 050R	5	5	0.5	16	51
CCR2 050R	5	5	1	16	51
CCR2 060R	6	6	0.5	19	63
CCR2 060R	6	6	1	19	63
CCR2 060R	6	6	1.5	19	63
CCR2 080R	8	8	0.5	22	63
CCR2 080R	8	8	1	22	63
CCR2 080R	8	8	2	22	63
CCR2 100R	10	10	0.5	25	70
CCR2 100R	10	10	1	25	70
CCR2 100R	10	10	2	25	70
CCR2 100R	10	10	2.5	25	70
CCR2 120R	12	12	0.5	25	75
CCR2 120R	12	12	1	25	75
CCR2 120R	12	12	2	25	75
CCR2 120R	12	12	3	25	75
CCR2 140R	14	14	1	30	80
CCR2 140R	14	14	2	30	80
CCR2 140R	14	14	3	30	80
CCR2 140R	14	14	4	30	80
CCR2 160R	16	16	1	32	80
CCR2 160R	16	16	2	32	80
CCR2 160R	16	16	3	32	80
CCR2 160R	16	16	4	32	80
CCR2 180R	18	18	1	35	101
CCR2 180R	18	18	2	35	101
CCR2 180R	18	18	3	35	101
CCR2 180R	18	18	4	35	101
CCR2 200R	20	20	1	38	101
CCR2 200R	20	20	2	38	101
CCR2 200R	20	20	3	38	101
CCR2 200R	20	20	4	38	101

CCR4

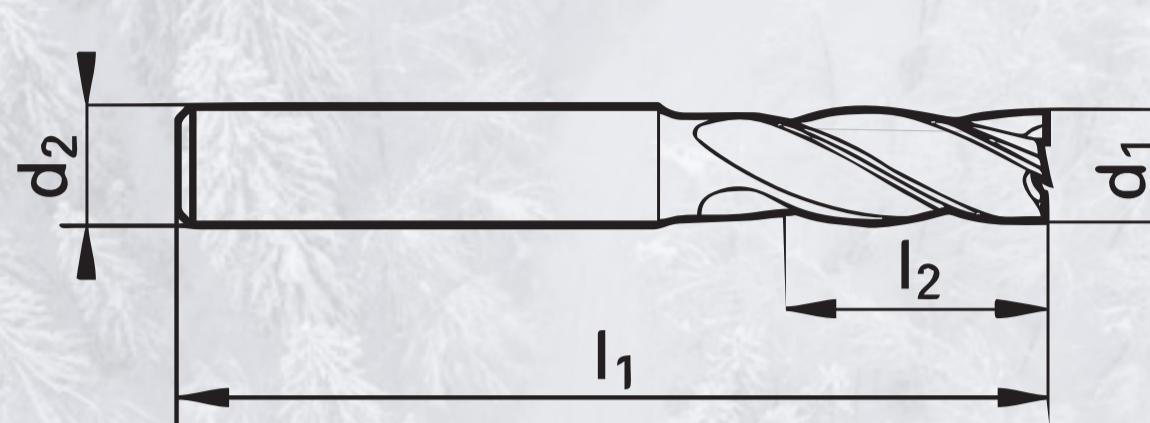
4 FLUTE CORNER RADIUS



4 FLUTE CORNER RADIUS					
ITEM COED	MILL DIA	SHANK DIA	RADIUS	FLUTE	OAL
CCR4 030R	3	3	0.5	10	39
CCR4 030R	3	3	1	10	39
CCR4 040R	4	4	0.5	14	51
CCR4 040R	4	4	1	14	51
CCR4 050R	5	5	0.5	16	51
CCR4 050R	5	5	1	16	51
CCR4 060R	6	6	0.5	19	63
CCR4 060R	6	6	1	19	63
CCR4 060R	6	6	1.5	19	63
CCR4 080R	8	8	0.5	22	63
CCR4 080R	8	8	1	22	63
CCR4 080R	8	8	2	22	63
CCR4 100R	10	10	0.5	25	70
CCR4 100R	10	10	1	25	70
CCR4 100R	10	10	2	25	70
CCR4 100R	10	10	2.5	25	70
CCR4 120R	12	12	0.5	25	75
CCR4 120R	12	12	1	25	75
CCR4 120R	12	12	2	25	75
CCR4 120R	12	12	3	25	75
CCR4 140R	14	14	1	30	80
CCR4 140R	14	14	2	30	80
CCR4 140R	14	14	3	30	80
CCR4 140R	14	14	4	30	80
CCR4 160R	16	16	1	32	80
CCR4 160R	16	16	2	32	80
CCR4 160R	16	16	3	32	80
CCR4 160R	16	16	4	32	80
CCR4 180R	18	18	1	35	101
CCR4 180R	18	18	2	35	101
CCR4 180R	18	18	3	35	101
CCR4 180R	18	18	4	35	101
CCR4 200R	20	20	1	38	101
CCR4 200R	20	20	2	38	101
CCR4 200R	20	20	3	38	101
CCR4 200R	20	20	4	38	101

CEM4

4 FLUTE DMP SQUIRE ENDMILL



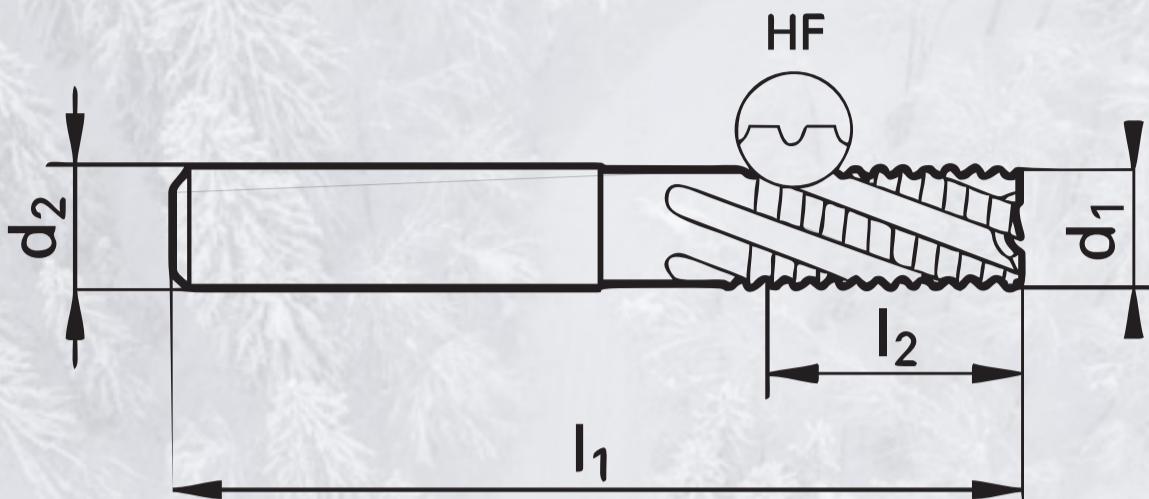
4 FLUTE DMP SQUIRE ENDMILL (Regular)					
ITEM COED	MILL DIA	SHANK DIA	FLUTE	OAL	PRICE
CEM4 030 RUTP	3	3	10	39	710
CEM4 040 RUTP	4	4	14	51	910
CEM4 050 RUTP	5	5	16	51	1050
CEM4 060 RUTP	6	6	19	63	1200
CEM4 080 RUTP	8	8	22	63	1720
CEM4 100 RUTP	10	10	25	70	2350
CEM4 120 RUTP	12	12	25	75	2730
CEM4 140 RUTP	14	14	30	80	4950
CEM4 160 RUTP	16	16	32	80	5820
CEM4 180 RUTP	18	18	35	101	7490
CEM4 200 RUTP	20	20	38	101	9720

4 FLUTE DMP SQUIRE ENDMILL (Long)					
ITEM COED	MILL DIA	SHANK DIA	FLUTE	OAL	PRICE
CEM4 030 LUTP	3	3	19	57	850
CEM4 040 LUTP	4	4	19	57	1050
CEM4 050 LUTP	5	5	25	63	1190
CEM4 060 LUTP	6	6	28	76	1520
CEM4 080 LUTP	8	8	29	76	2130
CEM4 100 LUTP	10	10	32	76	2950
CEM4 120 LUTP	12	12	51	101	4280
CEM4 140 LUTP	14	14	55	125	7190
CEM4 160 LUTP	16	16	55	125	9050
CEM4 180 LUTP	18	18	55	125	11200
CEM4 200 LUTP	20	20	55	125	13290

4 FLUTE DMP SQUARE ENDMILL (Ex. Long)					
ITEM COED	MILL DIA	SHANK DIA	FLUTE	OAL	PRICE
CEM4 030 XLUTP	3	3	25	75	1130
CEM4 040 XLUTP	4	4	25	75	1130
CEM4 050 XLUTP	5	5	28	75	1470
CEM4 060 XLUTP	6	6	38	100	2130
CEM4 080 XLUTP	8	8	40	100	2620
CEM4 100 XLUTP	10	10	45	100	3480
CEM4 120 XLUTP	12	12	60	150	6140
CEM4 140 XLUTP	14	14	75	150	8340
CEM4 160 XLUTP	16	16	75	150	10290
CEM4 180 XLUTP	18	18	75	150	12310
CEM4 200 XLUTP	20	20	75	150	14430

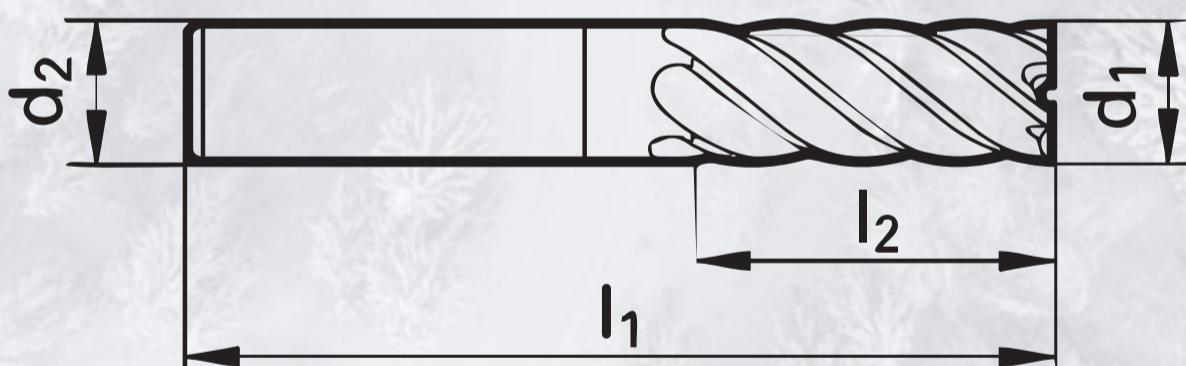
CRE4

4 FLUTE ROUGHER SQUIRE ENDMILL
6 FLUTE SQUIRE ENDMILL



4 FLUTE ROUGHER SQUIRE ENDMILL

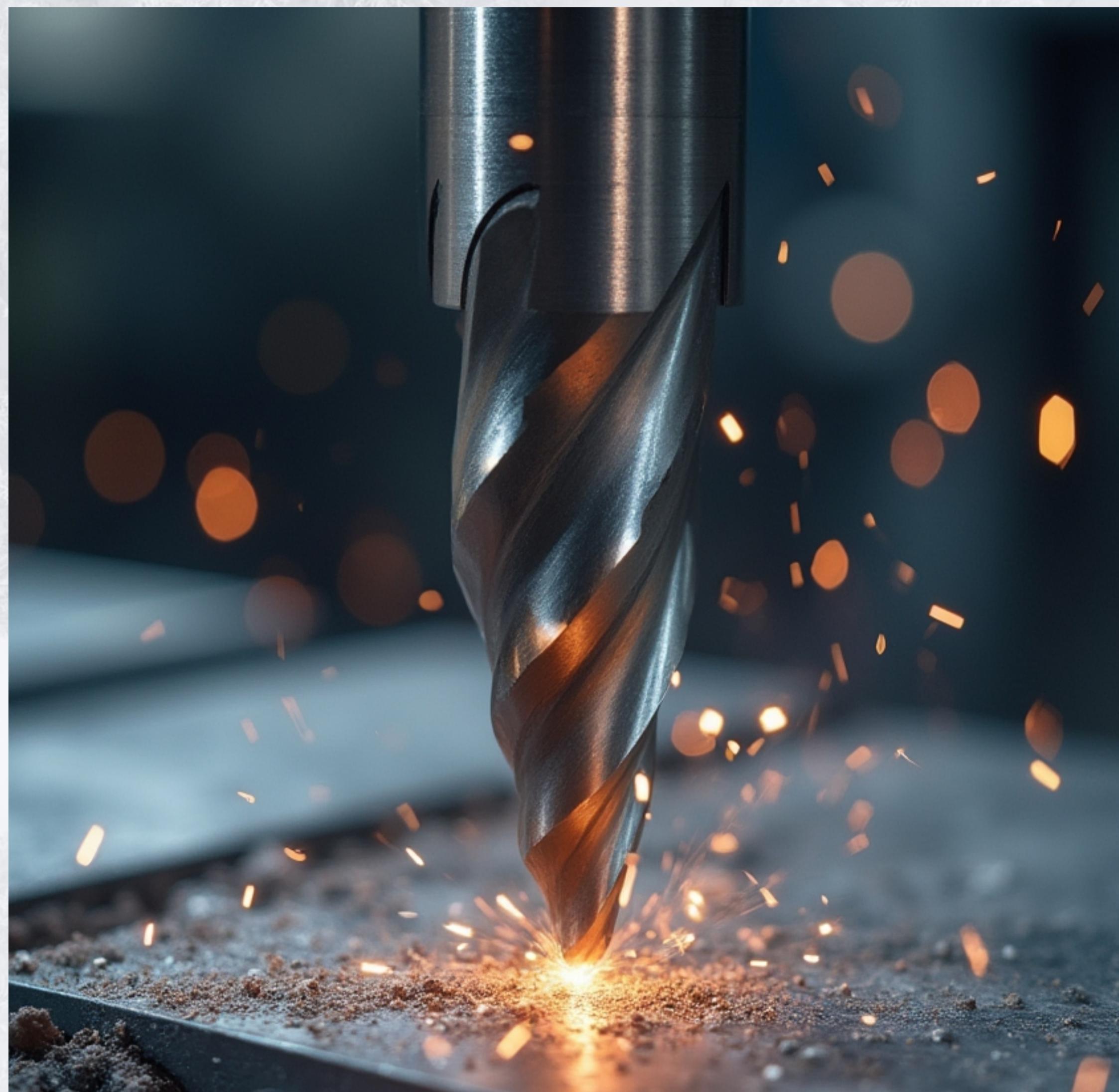
ITEM COED	MILL DIA	SHANK DIA	FLUTE	OAL
CRE4 050R	5	5	16	51
CRE4 060R	6	6	19	63
CRE4 080R	8	8	22	63
CRE4 100R	10	10	25	70
CRE4 120R	12	12	25	75
CRE4 140R	14	14	30	80
CRE4 160R	16	16	32	80
CRE4 180R	18	18	35	101
CRE4 200R	20	20	38	101



6 FLUTE SQUIRE ENDMILL

ITEM COED	MILL DIA	SHANK DIA	FLUTE	OAL
CRE6 060R	6	6	19	63
CRE6 080R	8	8	22	63
CRE6 100R	10	10	25	70
CRE6 120R	12	12	25	75
CRE6 140R	14	14	30	80
CRE6 160R	16	16	32	80
CRE6 200R	20	20	38	101

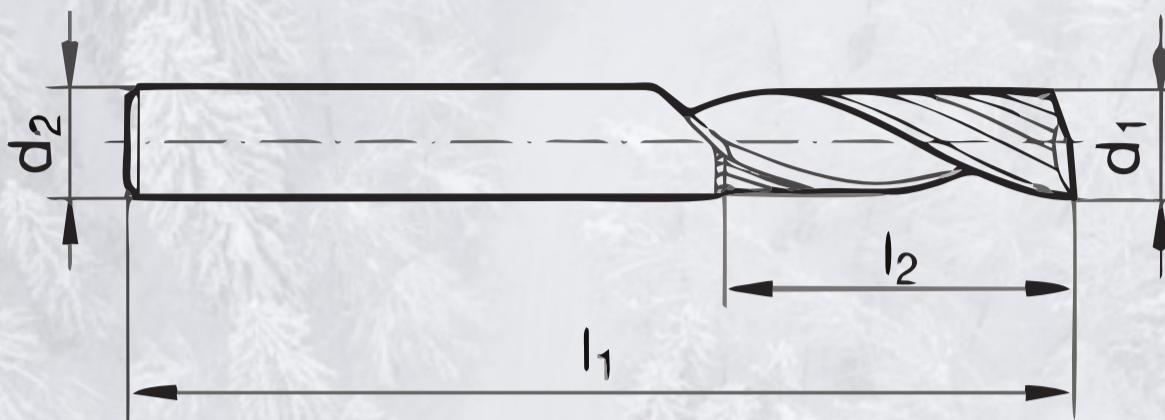
LIP CUTTER



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CLP4

LIP CUTTER ENDMILL



SINGLE LIP CUTTER					
ITEM COED	MILL DIASHANK DIA	DIA FLUTE		OAL	
CLP1 030L	3	6	6	63	
CLP1 040L	4	6	6	63	
CLP1 050L	5	6	8	63	
CLP1 060L	6	6	10	76	
CLP1 070L	7	6	10	76	
CLP1 090L	9	8	12	76	
CLP1 110L	11	10	14	76	
CLP1 110L	11	10	14	101	
CLP1 130L	13	12	16	76	
CLP1 130L	13	12	16	101	
CLP1 150L	15	14	18	76	
CLP1 150L	15	14	18	101	
CLP1 170L	17	16	20	75	
CLP1 170L	17	16	20	101	

DRILL



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CDL3&5

DRILL 3XD & 5XD

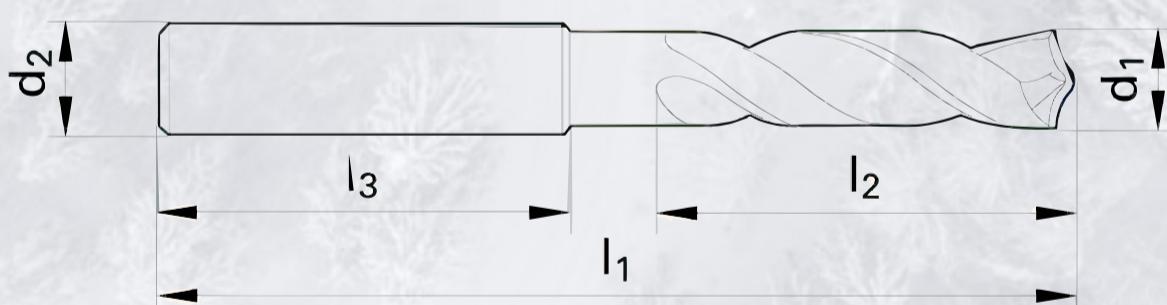


CDL3



CDL5

$$t_{\max} = l_2 - 1.5 \times d_1$$



CDL3

DRILL 3XD



DRILL - 3XD				
ITEM COED	MILL DIA	SHANK DIA	FLUTE	OAL
CDL3 030R	3	6	25	63
CDL3 031R	3.1	6	25	63
CDL3 032R	3.2	6	25	63
CDL3 033R	3.3	6	25	63
CDL3 034R	3.4	6	25	63
CDL3 035R	3.5	6	25	63
CDL3 036R	3.6	6	25	63
CDL3 037R	3.7	6	25	63
CDL3 038R	3.8	6	25	63
CDL3 039R	3.9	6	25	63
CDL3 040R	4	6	25	63
CDL3 041R	4.1	6	25	63
CDL3 042R	4.2	6	25	63
CDL3 043R	4.3	6	25	63
CDL3 044R	4.4	6	25	63
CDL3 045R	4.5	6	25	63
CDL3 046R	4.6	6	25	63
CDL3 050R	5	6	25	63
CDL3 051R	5.1	6	35	76
CDL3 052R	5.2	6	35	76
CDL3 053R	5.3	6	35	76
CDL3 054R	5.4	6	35	76
CDL3 055R	5.5	6	35	76
CDL3 056R	5.6	6	35	76
CDL3 057R	5.7	6	35	76
CDL3 058R	5.8	6	35	76
CDL3 059R	5.9	6	35	76
CDL3 060R	6	6	35	76
CDL3 061R	6.1	8	35	79
CDL3 062R	6.2	8	35	79
CDL3 063R	6.3	8	35	79
CDL3 064R	6.4	8	35	79
CDL3 065R	6.5	8	35	79
CDL3 066R	6.6	8	35	79
CDL3 067R	6.7	8	35	79
CDL3 068R	6.8	8	35	79
CDL3 069R	6.9	8	35	79
CDL3 070R	7	8	35	79
CDL3 071R	7.1	8	35	79
CDL3 072R	7.2	8	35	79
CDL3 073R	7.3	8	35	79
CDL3 074R	7.4	8	35	79
CDL3 075R	7.5	8	35	79

DRILL - 3XD				
ITEM COED	MILL DIA	SHANK DIA	FLUTE	OAL
CDL3 076R	7.6	8	35	79
CDL3 077R	7.7	8	35	79
CDL3 078R	7.8	8	35	79
CDL3 079R	7.9	8	35	79
CDL3 080R	8	8	35	79
CDL3 081R	8.1	10	45	89
CDL3 082R	8.2	10	45	89
CDL3 083R	8.3	10	45	89
CDL3 084R	8.4	10	45	89
CDL3 085R	8.5	10	45	89
CDL3 086R	8.6	10	45	89
CDL3 087R	8.7	10	45	89
CDL3 088R	8.8	10	45	89
CDL3 098R	8.9	10	45	89
CDL3 090R	9	10	45	89
CDL3 095R	9.5	10	45	89
CDL3 098R	9.8	10	45	89
CDL3 100R	10	10	45	89
CDL3 102R	10.2	12	55	101
CDL3 104R	10.4	12	55	101
CDL3 105R	10.5	12	55	101
CDL3 108R	10.8	12	55	101
CDL3 110R	11	12	55	101
CDL3 115R	11.5	12	55	101
CDL3 118R	11.8	12	55	101
CDL3 120R	12	12	55	101
CDL3 125R	12.5	14	60	110
CDL3 128R	12.8	14	60	110
CDL3 130R	13	14	60	110
CDL3 135R	13.5	14	60	110
CDL3 140R	14	14	60	110
CDL3 145R	14.5	16	65	115
CDL3 150R	15	16	65	115
CDL3 153R	15.3	16	65	115
CDL3 155R	15.5	16	65	115
CDL3 160R	16	16	65	115
CDL3 165R	16.5	18	73	123
CDL3 170R	17	18	73	123
CDL3 175R	17.5	18	73	123
CDL3 180R	18	18	73	123
CDL3 185R	18.5	20	79	131
CDL3 190R	19	20	79	131
CDL3 195R	19.5	20	79	131
CDL3 200R	20	20	79	131

CDL5

DRILL 5XD



DRILL - 5XD				
ITEM COED	MILL DIA	SHANK DIA	FLUTE	OAL
CDL5 030R	3	6	35	74
CDL5 031R	3.1	6	35	74
CDL5 032R	3.2	6	35	74
CDL5 033R	3.3	6	35	74
CDL5 034R	3.4	6	35	74
CDL5 035R	3.5	6	35	74
CDL5 036R	3.6	6	35	74
CDL5 037R	3.7	6	35	74
CDL5 038R	3.8	6	35	74
CDL5 039R	3.9	6	35	74
CDL5 040R	4	6	35	74
CDL5 041R	4.1	6	40	80
CDL5 042R	4.2	6	40	80
CDL5 043R	4.3	6	40	80
CDL5 044R	4.4	6	40	80
CDL5 045R	4.5	6	40	80
CDL5 046R	4.6	6	40	80
CDL5 050R	5	6	40	80
CDL5 051R	5.1	6	45	82
CDL5 052R	5.2	6	45	82
CDL5 053R	5.3	6	45	82
CDL5 054R	5.4	6	45	82
CDL5 055R	5.5	6	45	82
CDL5 056R	5.6	6	45	82
CDL5 057R	5.7	6	45	82
CDL5 058R	5.8	6	45	82
CDL5 059R	5.9	6	45	82
CDL5 060R	6	6	45	82
CDL5 061R	6.1	8	50	91
CDL5 062R	6.2	8	50	91
CDL5 063R	6.3	8	50	91
CDL5 064R	6.4	8	50	91
CDL5 065R	6.5	8	50	91
CDL5 066R	6.6	8	50	91
CDL5 067R	6.7	8	50	91
CDL5 068R	6.8	8	50	91
CDL5 069R	6.9	8	50	91
CDL5 070R	7	8	50	91
CDL5 071R	7.1	8	50	91
CDL5 072R	7.2	8	50	91
CDL5 073R	7.3	8	50	91
CDL5 074R	7.4	8	50	91
CDL5 075R	7.5	8	50	91

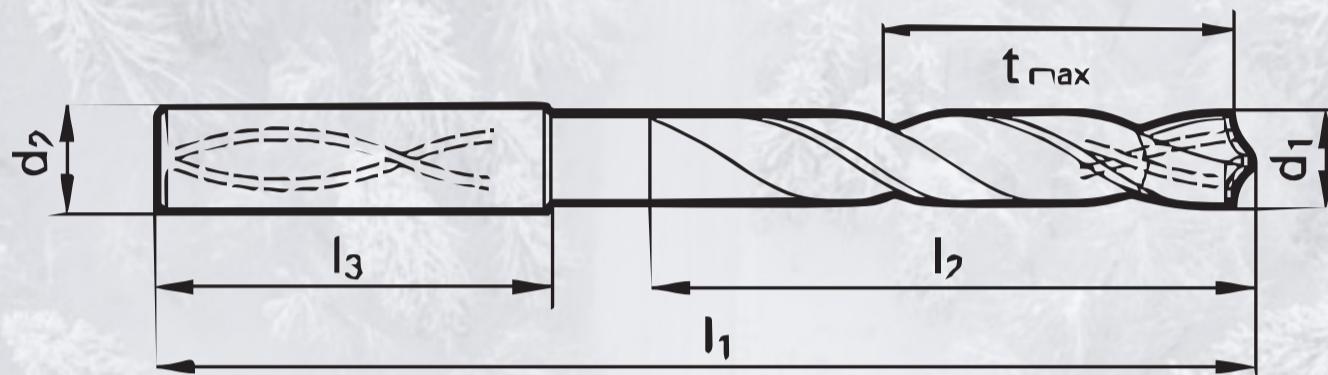
DRILL - 5XD				
ITEM COED	MILL DIA	SHANK DIA	FLUTE	OAL
CDL5 076R	7.6	8	50	91
CDL5 077R	7.7	8	50	91
CDL5 078R	7.8	8	50	91
CDL5 079R	7.9	8	50	91
CDL5 080R	8	8	50	91
CDL5 081R	8.1	10	55	103
CDL5 082R	8.2	10	55	103
CDL5 083R	8.3	10	55	103
CDL5 084R	8.4	10	55	103
CDL5 085R	8.5	10	55	103
CDL5 086R	8.6	10	55	103
CDL5 087R	8.7	10	55	103
CDL5 088R	8.8	10	55	103
CDL5 098R	8.9	10	55	103
CDL5 090R	9	10	55	103
CDL5 095R	9.5	10	55	103
CDL5 098R	9.8	10	55	103
CDL5 100R	10	10	55	103
CDL5 102R	10.2	12	75	120
CDL5 104R	10.4	12	75	120
CDL5 105R	10.5	12	75	120
CDL5 108R	10.8	12	75	120
CDL5 110R	11	12	75	120
CDL5 115R	11.5	12	75	120
CDL5 118R	11.8	12	75	120
CDL5 120R	12	12	75	120
CDL5 125R	12.5	14	80	125
CDL5 128R	12.8	14	80	125
CDL5 130R	13	14	80	125
CDL5 135R	13.5	14	80	125
CDL5 140R	14	14	80	125
CDL5 145R	14.5	16	85	135
CDL5 150R	15	16	85	135
CDL5 153R	15.3	16	85	135
CDL5 155R	15.5	16	85	135
CDL5 160R	16	16	85	135
CDL5 165R	16.5	18	93	143
CDL5 170R	17	18	93	143
CDL5 175R	17.5	18	93	143
CDL5 180R	18	18	93	143
CDL5 185R	18.5	20	101	153
CDL5 190R	19	20	101	153
CDL5 195R	19.5	20	101	153
CDL5 200R	20	20	101	153

CDL3&5

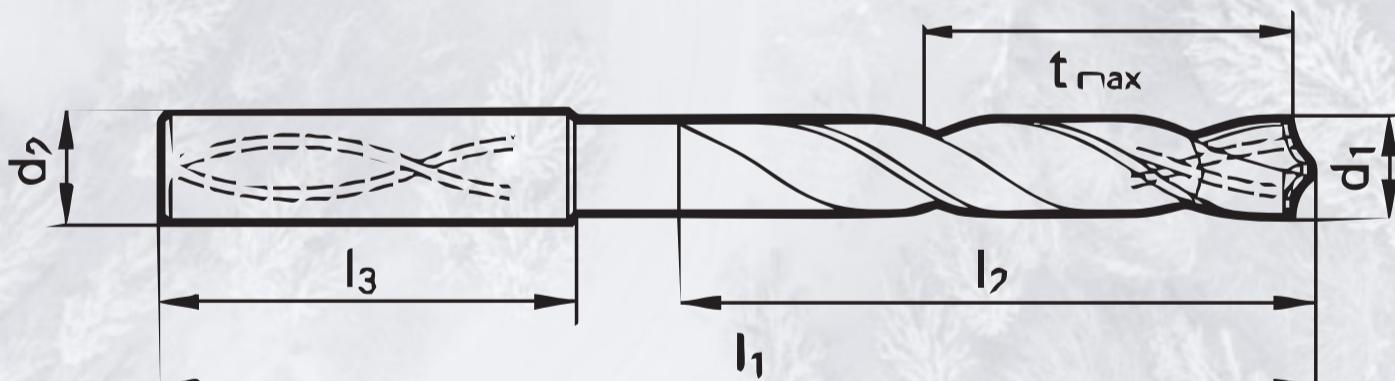
THROUGH COOLANT 3XD & 5XD



CDL3



CDL5



CDL3

THROUGH COOLANT 3XD



THROUGH COOLANT DRILL - 3XD

ITEM COED	MILL DIA	SHANK DIA	FLUTE	OAL
CDL3 030T	3	6	25	63
CDL3 031T	3.1	6	25	63
CDL3 032T	3.2	6	25	63
CDL3 033T	3.3	6	25	63
CDL3 034T	3.4	6	25	63
CDL3 035T	3.5	6	25	63
CDL3 036T	3.6	6	25	63
CDL3 037T	3.7	6	25	63
CDL3 038T	3.8	6	25	63
CDL3 039T	3.9	6	25	63
CDL3 040T	4	6	25	63
CDL3 041T	4.1	6	25	63
CDL3 042T	4.2	6	25	63
CDL3 043T	4.3	6	25	63
CDL3 044T	4.4	6	25	63
CDL3 045T	4.5	6	25	63
CDL3 046T	4.6	6	25	63
CDL3 047T	4.7	6	25	63
CDL3 048T	4.8	6	25	63
CDL3 049T	4.9	6	25	63
CDL3 050T	5	6	25	63
CDL3 051T	5.1	6	35	76
CDL3 052T	5.2	6	35	76
CDL3 053T	5.3	6	35	76
CDL3 054T	5.4	6	35	76
CDL3 055T	5.5	6	35	76
CDL3 056T	5.6	6	35	76
CDL3 057T	5.7	6	35	76
CDL3 058T	5.8	6	35	76
CDL3 059T	5.9	6	35	76
CDL3 060T	6	6	35	76
CDL3 061T	6.1	8	35	79
CDL3 062T	6.2	8	35	79
CDL3 063T	6.3	8	35	79
CDL3 064T	6.4	8	35	79
CDL3 065T	6.5	8	35	79
CDL3 066T	6.6	8	35	79
CDL3 067T	6.7	8	35	79
CDL3 068T	6.8	8	35	79
CDL3 069T	6.9	8	35	79
CDL3 070T	7	8	35	79
CDL3 071T	7.1	8	35	79
CDL3 072T	7.2	8	35	79
CDL3 073T	7.3	8	35	79
CDL3 074T	7.4	8	35	79
CDL3 075T	7.5	8	35	79

THROUGH COOLANT DRILL - 3XD

ITEM COED	MILL DIA	SHANK DIA	FLUTE	OAL
CDL3 076T	7.6	8	35	79
CDL3 077T	7.7	8	35	79
CDL3 078T	7.8	8	35	79
CDL3 079T	7.9	8	35	79
CDL3 080T	8	8	35	79
CDL3 081T	8.1	10	45	89
CDL3 082T	8.2	10	45	89
CDL3 083T	8.3	10	45	89
CDL3 084T	8.4	10	45	89
CDL3 085T	8.5	10	45	89
CDL3 086T	8.6	10	45	89
CDL3 087T	8.7	10	45	89
CDL3 088T	8.8	10	45	89
CDL3 098T	8.9	10	45	89
CDL3 090T	9	10	45	89
CDL3 095T	9.5	10	45	89
CDL3 098T	9.8	10	45	89
CDL3 100T	10	10	45	89
CDL3 102T	10.2	12	55	101
CDL3 104T	10.4	12	55	101
CDL3 105T	10.5	12	55	101
CDL3 108T	10.8	12	55	101
CDL3 110T	11	12	55	101
CDL3 115T	11.5	12	55	101
CDL3 118T	11.8	12	55	101
CDL3 120T	12	12	55	101
CDL3 125T	12.5	14	60	110
CDL3 128T	12.8	14	60	110
CDL3 130T	13	14	60	110
CDL3 135T	13.5	14	60	110
CDL3 140T	14	14	60	110
CDL3 145T	14.5	16	65	115
CDL3 150T	15	16	65	115
CDL3 153T	15.3	16	65	115
CDL3 155T	15.5	16	65	115
CDL3 160T	16	16	65	115
CDL3 165T	16.5	18	73	123
CDL3 170T	17	18	73	123
CDL3 175T	17.5	18	73	123
CDL3 180T	18	18	73	123
CDL3 185T	18.5	20	79	131
CDL3 190T	19	20	79	131
CDL3 195T	19.5	20	79	131
CDL3 200T	20	20	79	131

CDL5

THROUGH COOLANT 5XD



THROUGH COOLANT DRILL - 5XD				
ITEM COED	MILL DIA	SHANK DIA	FLUTE	OAL
CDL5 030T	3	6	25	63
CDL5 031T	3.1	6	25	63
CDL5 032T	3.2	6	25	63
CDL5 033T	3.3	6	25	63
CDL5 034T	3.4	6	25	63
CDL5 035T	3.5	6	25	63
CDL5 036T	3.6	6	25	63
CDL5 037T	3.7	6	25	63
CDL5 038T	3.8	6	25	63
CDL5 039T	3.9	6	25	63
CDL5 040T	4	6	25	63
CDL5 041T	4.1	6	25	63
CDL5 042T	4.2	6	25	63
CDL5 043T	4.3	6	25	63
CDL5 044T	4.4	6	25	63
CDL5 045T	4.5	6	25	63
CDL5 046T	4.6	6	25	63
CDL5 047T	4.7	6	25	63
CDL5 048T	4.8	6	25	63
CDL5 049T	4.9	6	25	63
CDL5 050T	5	6	25	63
CDL5 051T	5.1	6	35	76
CDL5 052T	5.2	6	35	76
CDL5 053T	5.3	6	35	76
CDL5 054T	5.4	6	35	76
CDL5 055T	5.5	6	35	76
CDL5 056T	5.6	6	35	76
CDL5 057T	5.7	6	35	76
CDL5 058T	5.8	6	35	76
CDL5 059T	5.9	6	35	76
CDL5 060T	6	6	35	76
CDL5 061T	6.1	8	35	79
CDL5 062T	6.2	8	35	79
CDL5 063T	6.3	8	35	79
CDL5 064T	6.4	8	35	79
CDL5 065T	6.5	8	35	79
CDL5 066T	6.6	8	35	79
CDL5 067T	6.7	8	35	79
CDL5 068T	6.8	8	35	79
CDL5 069T	6.9	8	35	79
CDL5 070T	7	8	35	79
CDL5 071T	7.1	8	35	79
CDL5 072T	7.2	8	35	79
CDL5 073T	7.3	8	35	79
CDL5 074T	7.4	8	35	79
CDL5 075T	7.5	8	35	79

THROUGH COOLANT DRILL - 5XD				
ITEM COED	MILL DIA	SHANK DIA	FLUTE	OAL
CDL5 076T	7.6	8	35	79
CDL5 077T	7.7	8	35	79
CDL5 078T	7.8	8	35	79
CDL5 079T	7.9	8	35	79
CDL5 080T	8	8	35	79
CDL5 081T	8.1	10	45	89
CDL5 082T	8.2	10	45	89
CDL5 083T	8.3	10	45	89
CDL5 084T	8.4	10	45	89
CDL5 085T	8.5	10	45	89
CDL5 086T	8.6	10	45	89
CDL5 087T	8.7	10	45	89
CDL5 088T	8.8	10	45	89
CDL5 098T	8.9	10	45	89
CDL5 090T	9	10	45	89
CDL5 095T	9.5	10	45	89
CDL5 098T	9.8	10	45	89
CDL5 100T	10	10	45	89
CDL5 102T	10.2	12	55	101
CDL5 104T	10.4	12	55	101
CDL5 105T	10.5	12	55	101
CDL5 108T	10.8	12	55	101
CDL5 110T	11	12	55	101
CDL5 115T	11.5	12	55	101
CDL5 118T	11.8	12	55	101
CDL5 120T	12	12	55	101
CDL5 125T	12.5	14	60	110
CDL5 128T	12.8	14	60	110
CDL5 130T	13	14	60	110
CDL5 135T	13.5	14	60	110
CDL5 140T	14	14	60	110
CDL5 145T	14.5	16	65	115
CDL5 150T	15	16	65	115
CDL5 153T	15.3	16	65	115
CDL5 155T	15.5	16	65	115
CDL5 160T	16	16	65	115
CDL5 165T	16.5	18	73	123
CDL5 170T	17	18	73	123
CDL5 175T	17.5	18	73	123
CDL5 180T	18	18	73	123
CDL5 185T	18.5	20	79	131
CDL5 190T	19	20	79	131
CDL5 195T	19.5	20	79	131
CDL5 200T	20	20	79	131

P-SERIES



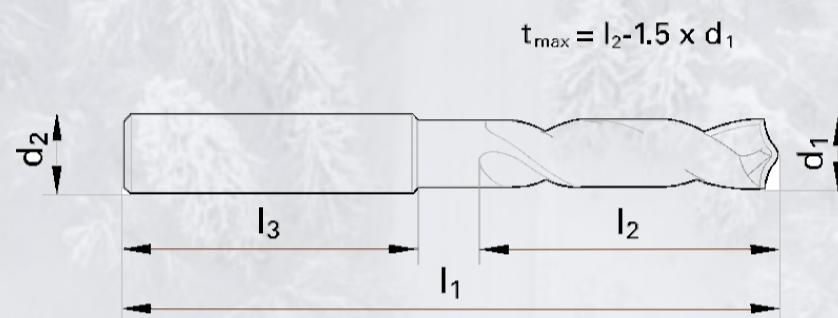
CADGE
TOOLS

CPDL3

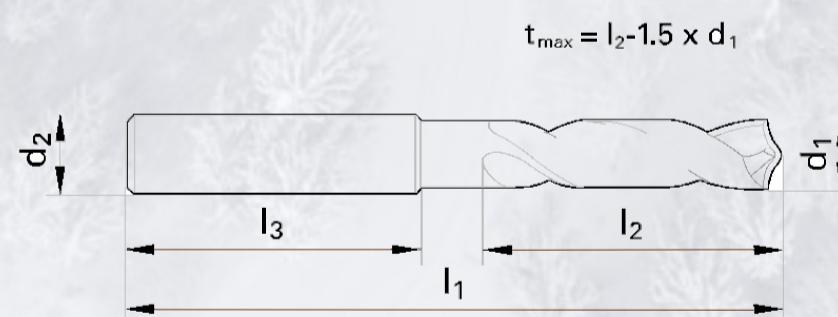
P-SERIES DRILL 3XD &
3XD THROUGH COOLENT



CPDL3 REGULAR



CPDL3 3XD THROUGH COOLENT



CPDL3

P-SERIES DRILL 3XD &
3XD THROUGH COOLENT



P-SERIES DRILL - 3XD				
IREAM COED	MILL DIA	SHANK DIA	FLURE	OAL
CPDL3 030R	3	6	25	63
CPDL3 031R	3.1	6	25	63
CPDL3 032R	3.2	6	25	63
CPDL3 033R	3.3	6	25	63
CPDL3 034R	3.4	6	25	63
CPDL3 035R	3.5	6	25	63
CPDL3 036R	3.6	6	25	63
CPDL3 037R	3.7	6	25	63
CPDL3 038R	3.8	6	25	63
CPDL3 039R	3.9	6	25	63
CPDL3 040R	4	6	25	63
CPDL3 041R	4.1	6	25	63
CPDL3 042R	4.2	6	25	63
CPDL3 043R	4.3	6	25	63
CPDL3 044R	4.4	6	25	63
CPDL3 045R	4.5	6	25	63
CPDL3 046R	4.6	6	25	63
CPDL3 047R	4.7	6	25	63
CPDL3 048R	4.8	6	25	63
CPDL3 049R	4.9	6	25	63
CPDL3 050R	5	6	25	63
CPDL3 051R	5.1	6	35	76
CPDL3 052R	5.2	6	35	76
CPDL3 053R	5.3	6	35	76
CPDL3 054R	5.4	6	35	76
CPDL3 055R	5.5	6	35	76
CPDL3 056R	5.6	6	35	76
CPDL3 057R	5.7	6	35	76
CPDL3 058R	5.8	6	35	76
CPDL3 059R	5.9	6	35	76
CPDL3 060R	6	6	35	76
CPDL3 061R	6.1	8	35	79
CPDL3 062R	6.2	8	35	79
CPDL3 063R	6.3	8	35	79
CPDL3 064R	6.4	8	35	79
CPDL3 065R	6.5	8	35	79
CPDL3 066R	6.6	8	35	79
CPDL3 067R	6.7	8	35	79
CPDL3 068R	6.8	8	35	79
CPDL3 069R	6.9	8	35	79
CPDL3 070R	7	8	35	79
CPDL3 071R	7.1	8	35	79
CPDL3 072R	7.2	8	35	79
CPDL3 073R	7.3	8	35	79
CPDL3 074R	7.4	8	35	79

P-SERIES DRILL - 3XD				
IREAM COED	MILL DIA	SHANK DIA	FLURE	OAL
CPDL3 075R	7.5	8	35	79
CPDL3 076R	7.6	8	35	79
CPDL3 077R	7.7	8	35	79
CPDL3 078R	7.8	8	35	79
CPDL3 079R	7.9	8	35	79
CPDL3 080R	8	8	35	79
CPDL3 081R	8.1	10	45	89
CPDL3 082R	8.2	10	45	89
CPDL3 083R	8.3	10	45	89
CPDL3 084R	8.4	10	45	89
CPDL3 085R	8.5	10	45	89
CPDL3 086R	8.6	10	45	89
CPDL3 087R	8.7	10	45	89
CPDL3 088R	8.8	10	45	89
CPDL3 098R	8.9	10	45	89
CPDL3 090R	9	10	45	89
CPDL3 095R	9.5	10	45	89
CPDL3 098R	9.8	10	45	89
CPDL3 100R	10	10	45	89
CPDL3 102R	10.2	12	55	101
CPDL3 104R	10.4	12	55	101
CPDL3 105R	10.5	12	55	101
CPDL3 108R	10.8	12	55	101
CPDL3 110R	11	12	55	101
CPDL3 115R	11.5	12	55	101
CPDL3 118R	11.8	12	55	101
CPDL3 120R	12	12	55	101
CPDL3 125R	12.5	14	60	110
CPDL3 128R	12.8	14	60	110
CPDL3 130R	13	14	60	110
CPDL3 135R	13.5	14	60	110
CPDL3 140R	14	14	60	110
CPDL3 145R	14.5	16	65	115
CPDL3 150R	15	16	65	115
CPDL3 153R	15.3	16	65	115
CPDL3 155R	15.5	16	65	115
CPDL3 160R	16	16	65	115
CPDL3 165R	16.5	18	73	123
CPDL3 170R	17	18	73	123
CPDL3 175R	17.5	18	73	123
CPDL3 180R	18	18	73	123
CPDL3 185R	18.5	20	79	131
CPDL3 190R	19	20	79	131
CPDL3 195R	19.5	20	79	131
CPDL3 200R	20	20	79	131

CPDL3

P-SERIES DRILL 3XD &
3XD THROUGH COOLENT



P-SERIES DRILL - 3XD THROUGH COOLENT				
IREAM COED	MILL DIA	SHANK DIA	FLURE	OAL
CPDL3 030T	3	6	25	63
CPDL3 031T	3.1	6	25	63
CPDL3 032T	3.2	6	25	63
CPDL3 033T	3.3	6	25	63
CPDL3 034T	3.4	6	25	63
CPDL3 035T	3.5	6	25	63
CPDL3 036T	3.6	6	25	63
CPDL3 037T	3.7	6	25	63
CPDL3 038T	3.8	6	25	63
CPDL3 039T	3.9	6	25	63
CPDL3 040T	4	6	25	63
CPDL3 041T	4.1	6	25	63
CPDL3 042T	4.2	6	25	63
CPDL3 043T	4.3	6	25	63
CPDL3 044T	4.4	6	25	63
CPDL3 045T	4.5	6	25	63
CPDL3 046T	4.6	6	25	63
CPDL3 047T	4.7	6	25	63
CPDL3 048T	4.8	6	25	63
CPDL3 049T	4.9	6	25	63
CPDL3 050T	5	6	25	63
CPDL3 051T	5.1	6	35	76
CPDL3 052T	5.2	6	35	76
CPDL3 053T	5.3	6	35	76
CPDL3 054T	5.4	6	35	76
CPDL3 055T	5.5	6	35	76
CPDL3 056T	5.6	6	35	76
CPDL3 057T	5.7	6	35	76
CPDL3 058T	5.8	6	35	76
CPDL3 059T	5.9	6	35	76
CPDL3 060T	6	6	35	76
CPDL3 061T	6.1	8	35	79
CPDL3 062T	6.2	8	35	79
CPDL3 063T	6.3	8	35	79
CPDL3 064T	6.4	8	35	79
CPDL3 065T	6.5	8	35	79
CPDL3 066T	6.6	8	35	79
CPDL3 067T	6.7	8	35	79
CPDL3 068T	6.8	8	35	79
CPDL3 069T	6.9	8	35	79
CPDL3 070T	7	8	35	79
CPDL3 071T	7.1	8	35	79
CPDL3 072T	7.2	8	35	79
CPDL3 073T	7.3	8	35	79
CPDL3 074T	7.4	8	35	79

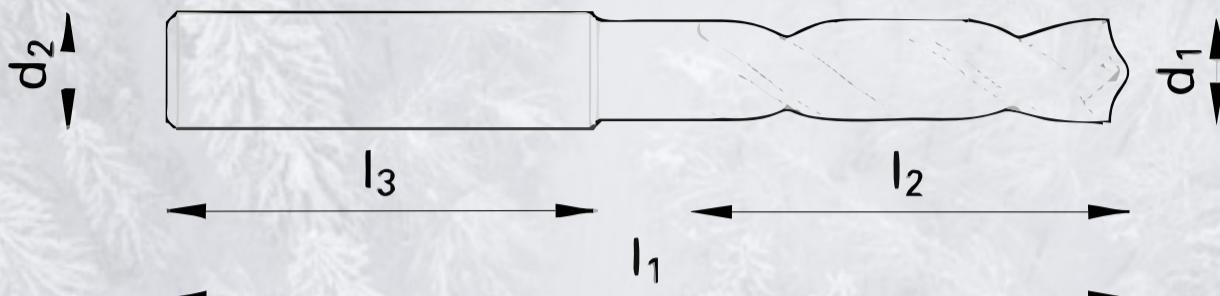
P-SERIES DRILL - 3XD THROUGH COOLENT				
IREAM COED	MILL DIA	SHANK DIA	FLURE	OAL
CPDL3 075T	7.5	8	35	79
CPDL3 076T	7.6	8	35	79
CPDL3 077T	7.7	8	35	79
CPDL3 078T	7.8	8	35	79
CPDL3 079T	7.9	8	35	79
CPDL3 080T	8	8	35	79
CPDL3 081T	8.1	10	45	89
CPDL3 082T	8.2	10	45	89
CPDL3 083T	8.3	10	45	89
CPDL3 084T	8.4	10	45	89
CPDL3 085T	8.5	10	45	89
CPDL3 086T	8.6	10	45	89
CPDL3 087T	8.7	10	45	89
CPDL3 088T	8.8	10	45	89
CPDL3 098T	8.9	10	45	89
CPDL3 090T	9	10	45	89
CPDL3 095T	9.5	10	45	89
CPDL3 098T	9.8	10	45	89
CPDL3 100T	10	10	45	89
CPDL3 102T	10.2	12	55	101
CPDL3 104T	10.4	12	55	101
CPDL3 105T	10.5	12	55	101
CPDL3 108T	10.8	12	55	101
CPDL3 110T	11	12	55	101
CPDL3 115T	11.5	12	55	101
CPDL3 118T	11.8	12	55	101
CPDL3 120T	12	12	55	101
CPDL3 125T	12.5	14	60	110
CPDL3 128T	12.8	14	60	110
CPDL3 130T	13	14	60	110
CPDL3 135T	13.5	14	60	110
CPDL3 140T	14	14	60	110
CPDL3 145T	14.5	16	65	115
CPDL3 150T	15	16	65	115
CPDL3 153T	15.3	16	65	115
CPDL3 155T	15.5	16	65	115
CPDL3 160T	16	16	65	115
CPDL3 165T	16.5	18	73	123
CPDL3 170T	17	18	73	123
CPDL3 175T	17.5	18	73	123
CPDL3 180T	18	18	73	123
CPDL3 185T	18.5	20	79	131
CPDL3 190T	19	20	79	131
CPDL3 195T	19.5	20	79	131
CPDL3 200T	20	20	79	131

CHM3

HALL MILL



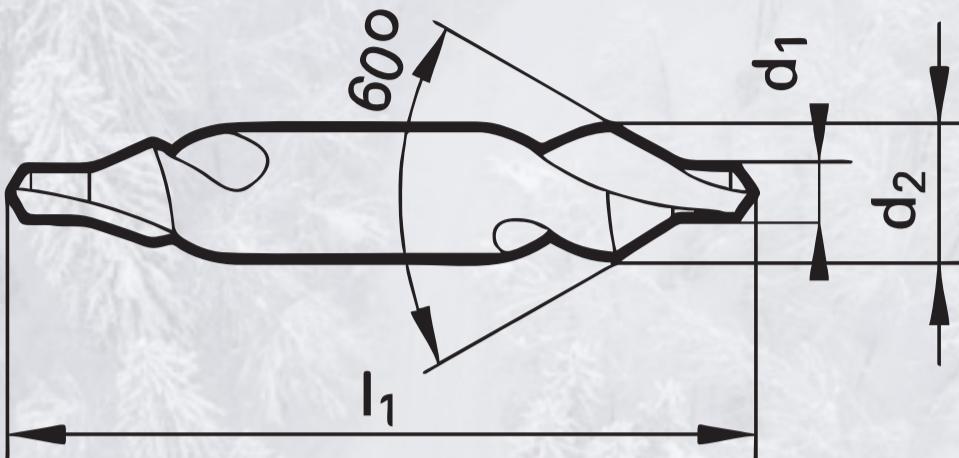
$$t_{\max} = l_2 - 1.5 \times d_1$$



HALLMILL			
ITEM COED	MILL DIA	FLUTE	OAL
CHM3 030R	3	16	57
CHM3 040R	4	25	63
CHM3 050R	5	25	63
CHM3 060R	6	25	76
CHM3 070R	7	29	76
CHM3 080R	8	29	76
CHM3 090R	9	32	76
CHM3 100R	10	38	101
CHM3 110R	11	38	101
CHM3 120R	12	38	101
CHM3 130R	13	45	125
CHM3 140R	14	45	125
CHM3 150R	15	50	125
CHM3 160R	16	50	125

CCD3

CENTER DRILL



CENTER DRILL

ITEM COED	PILOT DIA	BODY DIA	CEL	OAL
CCD 010R	1	3.15	1.6	32
CCD 016R	1.6	4	2.4	35
CCD 020R	2	5	2.9	40
CCD 025R	2.5	6.3	3.6	45
CCD 031R	3.15	8	4.4	50
CCD 040R	4	10	5.6	56
CCD 050R	5	12.5	6.9	63
CCD 063R	6.3	16	8.6	71
CCD 080R	8	20	10.1	80

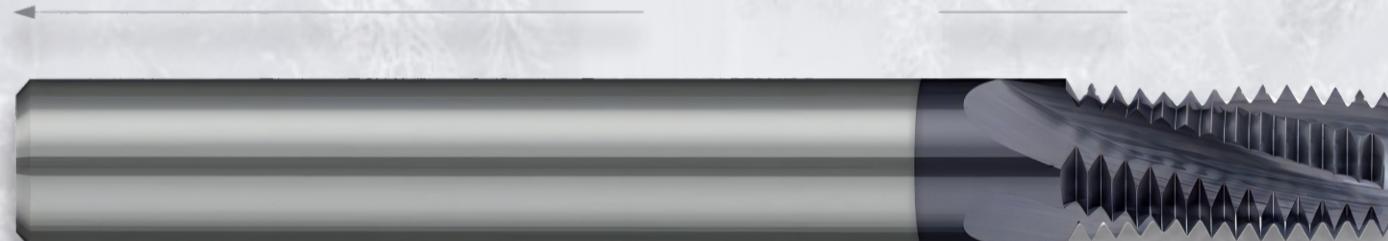
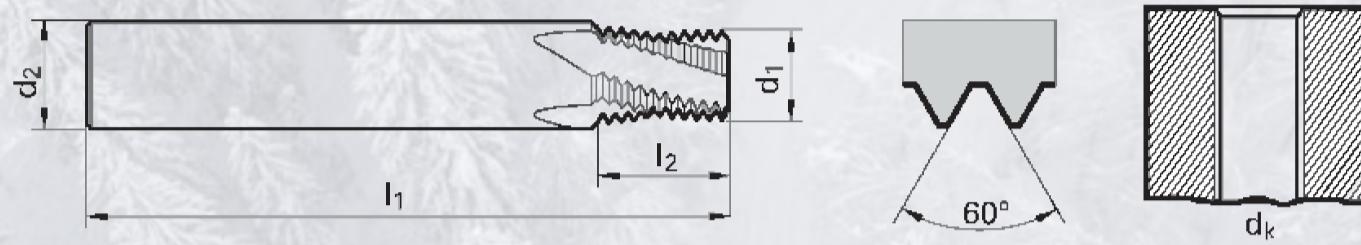
THREAD MILL



CADGE
TOOLS

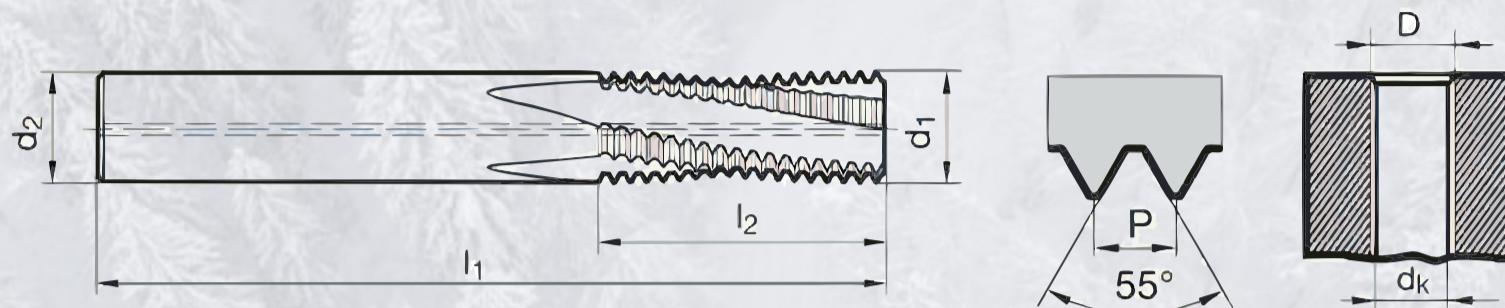
CDL3

NPT



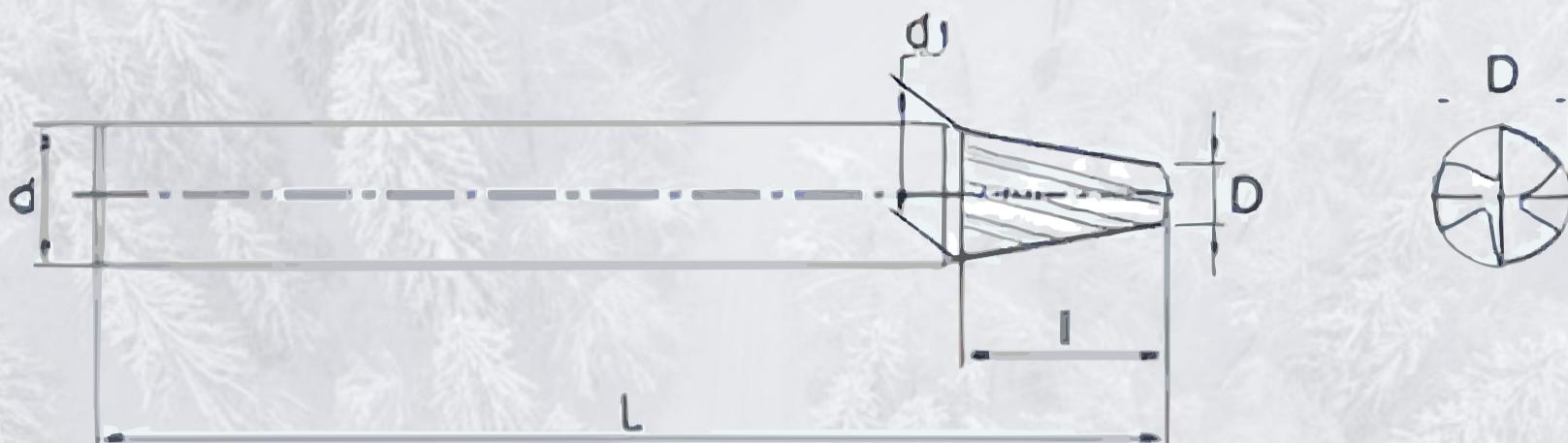
CDL3

BSP



CDL3

SURGICAL



CDL3

ISO METRIC

Square End Helix Flutes Series HRC Coating Tool Length Drill Dia

Z=2 Regular ≤ 28 Ultra Coat R m7

