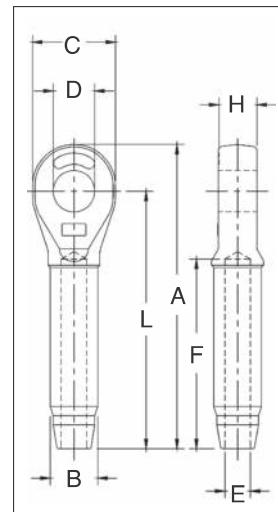


## S-502



- Forged from special bar quality carbon steel, suitable for cold forming.
- Swage socket terminations have an efficiency rating of 100% based on the catalog strength of wire rope.
- Hardness controlled by spheroidize annealing.
- Stamp for identification after swaging without concern for fractures (as per directions in Wire Rope End Terminations User's Manual).
- Swage sockets incorporate a reduced machined area of the shank which is equivalent to the proper 'after swage' dimension. Before swaging, this provides for an obvious visual difference in the shank diameter. After swaging, a uniform shank diameter is created allowing for a QUIC-CHECK® and permanent visual inspection opportunity.
- S-502 Swage Sockets are recommended for use with 6 x 19 or 6 x 37, IPS or XIP (EIP), XXIP (EEIP), RRL, FC or IWRC wire rope.
- In accordance with ASME B30.9, all slings terminated with swage sockets shall be proof loaded.\*



## S-502 Closed Swage Sockets

7

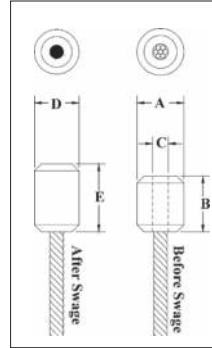
S-502 Stock No.	S-502 Closed Socket Specifications										Max. After Swage Dim. (mm)	Die Description	Swager / Die Data					
	Rope Size		Wt. Each (kg)	Ultimate Load** (t)	Before Swage Dimensions (mm)								Stock No.	Side Load		1500 Ton 6 x 12	3000 Ton 6 x 12	
	(in)	(mm)			A	B	C	D	E	F	H	L		500 Ton 5 x 7	1000 Ton 6 x 12	1500 Ton 6 x 12	1500 Ton 6 x 12	3000 Ton 6 x 12
1039325	1/4	6	.15	5.4	109	12.7	35.1	35.1	6.85	54.0	12.7	89.0	11.7	1/4 Socket	1192845	-	-	-
1039343	5/16	8	.34	11.8	138	19.6	41.1	41.1	8.65	81.0	17.0	114	18.0	5/16-3/8 Socket	1192863	-	-	-
1039361	3/8	9-10	.33	13.6	138	19.6	41.1	41.1	10.4	81.0	17.0	114	18.0	5/16-3/8 Socket	1192863	-	-	-
1039389	7/16	11-12	.64	18.1	176	24.9	51.0	51.0	12.2	108	21.8	146	23.1	7/16-1/2 Socket	1192881	-	-	-
1039405	1/2	13	.64	21.3	176	24.9	51.0	51.0	14.0	108	21.8	146	23.1	7/16-1/2 Socket	1192881	-	-	-
1039423	9/16	14	1.32	31.8	220	31.8	60.5	60.5	15.5	135	28.7	184	29.5	9/16-5/8 Socket	1192907	-	-	-
1039441	5/8	16	1.29	34.9	220	31.8	60.5	60.5	17.0	135	28.7	184	29.5	9/16-5/8 Socket	1192907	-	-	-
1039469	3/4	18-20	2.27	43.5	261	39.4	73.0	73.0	20.3	162	33.3	219	36.1	3/4 Socket	1192925	-	-	-
1039487	7/8	22	3.08	51.5	303	43.2	79.0	79.0	23.9	189	38.1	257	39.4	7/8 Socket	1192943	-	-	-
1039502	1	24-26	4.72	71.4	344	50.5	92.0	92.0	26.9	216	44.5	292	45.7	1 Socket	1192961	-	-	-
1039520	1-1/8	28	6.72	83.3	382	57.0	102	102	30.2	243	51.0	324	52.0	1-1/8 Socket	1192989	-	-	-
1039548	1-1/4	32	9.78	109	430	64.5	114	114	33.8	270	57.0	365	58.5	1-1/4 Socket	1193005	-	-	-
1039566	1-3/8	34-36	12.9	136	473	71.0	127	127	36.8	297	57.0	400	65.0	1-3/8 Socket	1193023	-	-	-
1039584	1-1/2	38-40	17.3	181	511	78.0	137	137	40.1	325	65.0	432	71.5	1-1/2 Socket	1193041	1191267	1195355	1195192
1039600	1-3/4	44	23.1	228	598	86.0	159	159	47.2	378	76.0	508	77.5	1-3/4 Socket	1193069	1191276	1195367	1195209
1042589	2	48-52	40.5	272	702	100	184	184	53.5	432	82.5	584	90.5	2 Socket	1193087	1191294	1195379	1195218

Maximum Proof Load shall not exceed 50% of XXIP rope catalog breaking strength. \*The Ultimate Loads of 3/4" through 1 1/4" sizes have been increased to meet the requirements for 8 strand 2160 Grade pendants. Note: Fitings designed only to be used on exact sizes listed.

NOTE: Before using any Crosby fitting with any other type lay, construction or grade of wire rope, it is recommended that the termination be destructive tested and documented to prove the adequacy of the assembly to be manufactured.

**S-409**

- Swage button terminations have an efficiency rating of 98% based on the catalog strength of wire rope.
- Special processed, low carbon steel.
- COLD TUFF® for better swageability.
- Stamp for identification after swaging without concern for fractures (as per directions in the Wire Rope End Terminations User's Manual).
- S-409 Buttons are recommended for use with 6 x 19 or 6 x 37, IPS or XIP (EIP), RRL, FC or IWRC wire rope. Before using any National Swage fitting with any other type lay, construction or grade of wire rope, it is recommended that the termination be destructive tested and documented to prove the adequacy of the assembly to be manufactured.

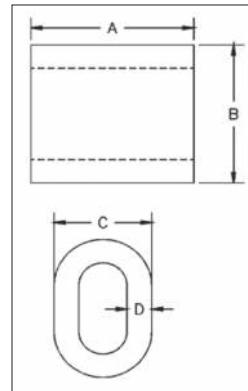
**S-409 COLD TUFF® Buttons**

S-409 Stock No.	Size No.	S-409 Steel Swage Button Specifications							Swager / Die Data		
		Rope Size		Weight Per 100 (kg)	Before Swage Dimensions (mm)			After Swage Dimensions (mm)		Stock No.	Die Description
		(in)	(mm)		A	B	C	D Maximum After Swage Dimensions	E Length*		
1040171	1 SB	1/8	3	.91	10.7	12.7	3.56	10.2	15.5	1/8 - 1/4 Button	1191621
1040215	3 SB	3/16	5	1.81	14.2	17.8	5.08	13.2	21.3	1/4 1st Stage	1197528
1040251	5 SB	1/4	6-7	3.63	17.3	26.9	7.87	14.7	33.5	1/8 - 1/4 Button	1191621
1040297	7 SB	5/16	8	7.26	22.4	28.7	9.14	19.6	33.8	3/8 1st Stage	1192364
1040313	8 SB	3/8	9-10	6.80	22.4	37.6	10.7	19.6	42.9	3/8 1st stage	1192364
1040331	9 SB	7/16	11	13.6	28.7	41.4	12.2	26.2	49.3	1/2 1st Stage	1192408
1040359	10 SB	1/2	13	22.7	33.3	48.0	14.0	29.5	55.1	5/8 Socket	1192907
1040377	11 SB	9/16	14	31.8	36.6	51.3	15.5	32.8	61.2	9/16 - 5/8 Button	1191665
1040395	12 SB	5/8	16	45.4	39.6	61.5	17.0	36.1	73.4	3/4 Socket	1192925
1040411	13 SB	3/4	18-20	59	42.7	69.6	20.3	39.6	82.6	3/4 1st Stage	1192462
1040439	14 SB	7/8	22	100	50.8	83.1	23.9	45.7	98.0	7/8 1st Stage	1192480
1040457	15 SB	1	25-26	141	57.2	93.2	26.9	52.1	111	1 1st Stage	1192505
1040475	16 SB	1-1/8	28-29	204	65.0	103	30.2	58.4	122	1-1/8 1st Stage	1192523
1040493	17 SB	1-1/4	31-32	295	71.4	116	33.8	65.0	138	1-3/8 Socket	1193023

\* NOTE: Length is measured from outside end of termination. Fittings designed only to be used on exact sizes listed.

**S-506**

- For turnback wire rope splicing.
- Special processed low carbon steel.
- Turnback terminations have efficiency ratings of 94% based on the catalog strength of wire rope.
- COLD TUFF® for better swageability and low temperature toughness.
- S-506 Sleeves are recommended for use with 6 x 19 or 6 x 37, IPS or XIP (EIP), RRL, FC or IWRC wire rope. Before using any National Swage fitting with any other type lay, construction or grade of wire rope, it is recommended that the termination be destructive tested and documented to prove the adequacy of the assembly to be manufactured.
- Resists cracking when swaged (equals or exceeds stainless steel sleeves).
- Stamp for identification after swaging without concern for fractures (as per directions in the Wire Rope End Termination User's Manual).

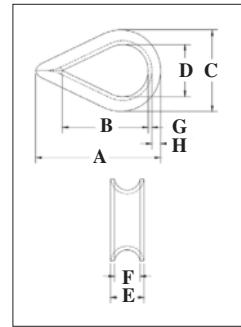
**S-506 COLD TUFF® Duplex Non-Tapered Sleeves**

S-506 Stock No.	S-506 Steel Duplex Non-Tapered Sleeve Specifications							Swager / Die Data			
	Rope Size		Weight Per 100 (kg)	Pkg. Qty.	Before Swage Dimensions (mm)				Stock No.	Die Description	
	(in)	(mm)			A	B	C	D			
1039334	5/16	8	7.7	200	31.8	26.9	20.6	4.85	19.6	3/8 1st Stage	1192364
1039352	3/8	9-10	5.9	100	31.8	28.4	20.6	3.55	19.6	3/8 1st Stage	1192364
1039370	7/16	11	14.1	50	41.4	35.8	25.9	4.85	26.2	1/2 1st Stage	1192408
1039398	1/2	13	12.2	50	41.4	36.6	25.9	4.05	26.2	1/2 1st Stage	1192408
1039414	9/16	14	28.6	25	57.0	43.7	31.2	5.85	32.8	5/8 1st Stage	1192444
1039432	5/8	16	24.5	25	57.0	46.7	32.5	5.10	32.8	5/8 1st Stage	1192444
1039450	3/4	18-20	41.3	10	67.0	55.0	38.6	5.85	39.4	3/4 1st Stage	1192462
1039478	7/8	22	57	10	73.0	63.5	44.5	6.85	45.7	7/8 1st Stage	1192480
1039496	1	25-26	85	10	77.5	72.0	51.0	8.40	52.0	1 1st Stage	1192505
1039539	1-1/4	30-32	174	Bulk	103	89.0	63.5	9.65	65.0	1-3/8 Socket	1193023

Note: Fittings designed only to be used on exact sizes listed.

**G-411**


- Hot-dip galvanized steel.
- The standard choice for light duty loading conditions and applications.
- Meets the performance requirements of EN13411-1:2002.
- Meets the performance requirements of Federal Specification FF-T-276b Type II, except for those provisions required of the contractor.

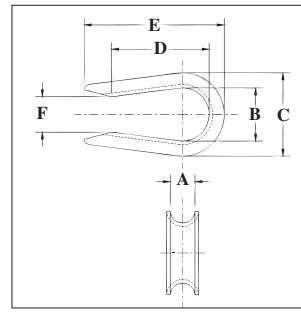


### Standard Wire Rope Thimbles

Rope Diameter		Stock No	Weight Per 100 (kg)	Dimensions (mm)							
(in)	(mm)			A	B	C	D	E	F	G	H
1/8	3-4	1037256	1.59	49.3	33.3	26.9	17.5	6.35	4.05	1.25	3.30
3/16	5	1037274	1.59	49.3	33.3	26.9	17.5	7.85	5.60	1.25	3.30
1/4	6-7	1037292	1.59	49.3	33.3	26.9	17.5	9.65	7.10	1.25	3.30
5/16	8	1037318	1.81	54.0	38.1	31.8	20.6	11.2	8.65	1.25	3.30
3/8	9-10	1037336	3.04	60.5	41.4	37.3	23.9	13.5	10.4	1.50	4.06
1/2	11-13	1037354	5.67	70.0	47.8	44.5	28.7	17.5	13.5	2.05	4.83
5/8	16	1037372	15.7	89.0	57.0	60.5	35.1	23.1	16.8	3.30	8.64
3/4	18-20	1037390	21.4	95.5	63.5	68.5	41.4	27.4	19.8	3.55	8.64
7/8	22	1037416	38.4	127	89.0	81.0	47.8	32.3	23.9	4.05	11.2
1	24-26	1037434	44.2	145	108	95.5	63.5	35.3	26.9	4.05	10.4
1-1/8 - 1-1/4	28-32	1037452	79	159	114	109	70.0	44.5	33.3	5.60	12.7

**G-408**


- Hot-dip galvanized steel.
- Meets the performance requirements of EN13411-1:2002.
- Recommended for light duty applications where assembly into another fitting (i.e., shackle or master link) is required.

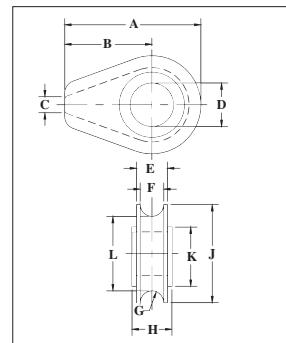


### Open Pattern Thimbles

Rope Diameter		Stock No	Weight Per 100 (kg)	Dimensions (mm)							
(in)	(mm)			A	B	C	D	E	F	G	H
1/4	6-7	1037531	1.36	7.10	17.5	26.9	35.8	51.5	9.65		
5/16	8	1037559	1.72	8.65	20.6	31.8	38.9	55.0	12.7		
3/8	9-10	1037577	3.18	11.2	23.9	37.3	43.7	62.5	15.7		
1/2	11-13	1037595	5.67	13.5	28.4	44.5	37.3	72.0	19.1		
5/8	16	1037611	11.3	16.8	35.1	60.5	59.5	91.0	25.4		

**S-412**


- Cast ductile iron.
- Fits pin for open wire rope socket, boom pendant clevis, and wedge socket.

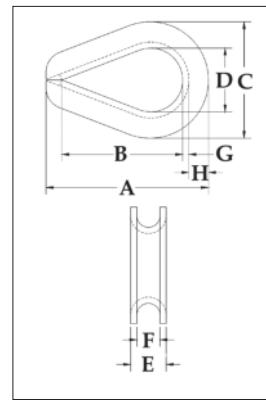


### Solid Wire Rope Thimbles

Rope Diameter		Stock No	Weight Per 100 (kg)	Dimensions (mm)										
(in)	(mm)			A	B	C	D	E	F	G	H	J	K	L
1/2	13	1037121	.28	71.5	44.5	6.35	26.9	19.1	14.2	7.10	22.4	54.0	41.4	39.6
5/8	16	1037149	1.00	119	76.0	9.65	33.3	26.9	20.6	10.4	28.7	86.0	57.0	65.0
3/4	18-20	1037167	1.05	119	76.0	9.65	38.1	26.9	20.6	10.4	35.1	86.0	57.0	65.0
7/8	22	1037185	2.47	154	97.0	12.7	44.5	35.1	26.9	13.5	41.4	114	82.5	87.5
1	24-26	1037201	2.38	154	97.0	12.7	54.0	35.1	26.9	13.5	46.0	114	82.5	87.5
1-1/8	28-30	1037229	4.21	184	116	16.0	60.5	44.5	33.3	16.8	52.5	137	98.5	103
1-1/4 - 1-3/8	32-35	1037247	4.45	184	116	16.0	67.0	49.3	38.9	19.8	58.5	137	98.5	105

**G-414**

- Available in hot-dip galvanized or stainless steel (Type 304).
- Stainless steel recommended for more corrosive environments where greater protection is required.
- Greater protection against wear and deformation of the wire rope eye.
- Longer service life.
- Meets the performance requirements of Federal Specification FF-T-276b Type III, except for those provisions required of the contractor.
- Meets the performance requirements of EN13411-1:2002.

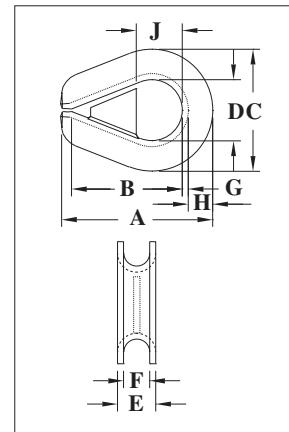


### Extra Heavy Wire Rope Thimbles

Rope Diameter		Stock No.		Weight Per 100 (kg)	Dimensions (mm)							
(in)	(mm)	G-414 Stock No.	SS-414 Stainless		A	B	C	D	E	F	G	H
1/4	6-7	1037639	1037960	2.95	55.5	41.4	38.1	22.4	11.2	7.10	1.50	5.85
5/16	8	1037657	1037988	5.35	63.5	47.8	46.0	26.9	14.0	8.65	2.05	7.10
3/8	9-10	1037675	1038004	9.80	73.0	54.0	54.0	28.7	16.8	10.4	2.80	8.65
7/16	11-12	1037693	-	15.7	82.5	60.5	60.5	31.8	18.8	11.9	3.30	9.65
1/2 - 9/16	13-15	1037719	1038022	23.1	92.0	70.0	70.0	38.1	23.4	13.5	3.55	10.4
5/8	16	1037755	1038040	34.3	108	82.5	79.5	44.5	26.2	16.8	4.05	12.7
3/4	18-20	1037773	1038068	72	127	95.5	96.5	51.0	33.0	19.8	5.60	16.8
7/8	22	1037791	-	81	140	108	108	57.0	37.3	23.9	5.60	19.1
1	24-26	1037817	-	142	156	114	125	63.5	44.5	26.9	6.35	22.4
1-1/8 - 1-1/4	28-32	1037835	-	181	178	130	149	73.0	47.8	33.3	6.35	28.7
1-1/4 - 1-3/8	32-35	1037853	-	402	230	165	173	89.0	57.2	36.6	9.65	28.7
1-3/8 - 1-1/2	35-38	1037871	-	587	229	159	181	89.0	66.5	39.6	12.7	28.7
1-5/8	40	1037899	-	771	286	203	207	102	76.2	43.7	12.7	35.1
1-3/4	44	1037915	-	805	310	229	216	114	77.7	46.7	12.7	33.3
1-7/8 - 2	48-52	1037933	-	1259	384	305	264	152	85.9	53.0	12.7	38.1
2-1/4	56	1037951	-	1792	435	356	302	178	98.6	60.5	16.0	41.4

**G-414 SL**

- Prevents the shackle from being removed and replaced in the field, which could compromise the certified integrity of the sling assembly.
- Available in hot-dip galvanized. Crosby's shackle locking thimbles are galvanized after the welding of the wedge has been completed.
- Greater protection against wear and deformation of the wire rope eye.
- Longer service life.
- Meets the performance requirements of Federal Specification FF-T-276b Type III, except for those provisions required of the contractor.
- Meets the performance requirements of EN13411-1:2002

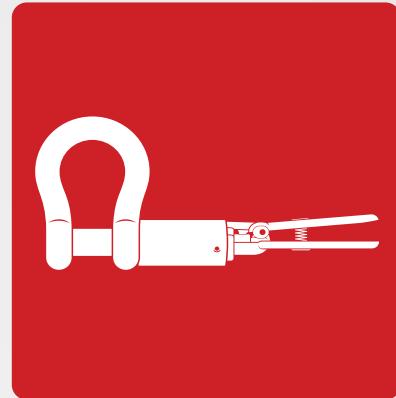


### Extra Heavy Wire Rope Thimbles (Shackle-Loc)

Rope Diameter		Stock No	Weight Per 100 (kg)	Dimensions (mm)								
(in)	(mm)			A	B	C	D	E	F	G	H	J
3/8	9-10	1036800	9.80	73.0	54.0	54.0	28.7	16.8	10.4	2.80	8.65	20.5
1/2 - 9/16	13-15	1036808	23.1	92.0	70.0	70.0	38.1	23.4	13.5	3.55	10.4	28.4
5/8	16	1036817	34.3	108	82.5	79.5	44.5	26.2	16.8	4.05	12.7	31.7
3/4	18-20	1036826	72	127	95.5	96.5	51.0	33.0	19.8	5.60	16.8	38.1
7/8	22	1036835	81	140	108	108	57.0	37.3	23.9	5.60	19.1	41.4
1	24-26	1036844	142	156	114	125	63.5	44.5	26.9	6.35	22.4	47.7
1-1/8 - 1-1/4	28-32	1036853	181	178	130	149	73.0	47.8	33.3	6.35	28.7	54.1
1-3/8 - 1-1/2	35-38	1036862	587	229	159	181	89.0	66.5	39.6	12.7	28.7	63.5

# ROV

Manufactured to withstand the toughest environments on earth.



theCrosbygroup®

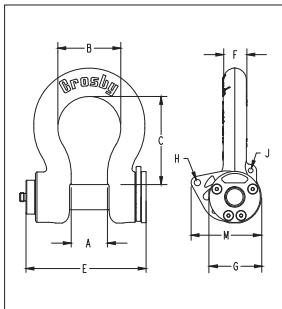
[thecrosbygroup.com](http://thecrosbygroup.com)



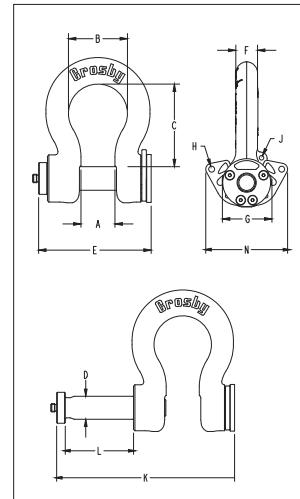
**G-2100**  
Release & Retrieve  
ROV Shackle with  
QUIC-Thread Bolt



**G-2110**  
Release & Retrieve  
ROV Shackle with  
Non - Threaded Bolt



- Forged alloy bow with an industry best 6 to 1 performance design factor.
- Patented captured bolt can withstand over 907 kg (2,000 lb) of pull-out force.
- Galvanized bow with an API RP 17H color compliant coating.
- Galvanized alloy bolt (non-threaded) (G-2110)
- On average, QUIC-Thread bolt requires only 3.5 rotations for full engagement (G-2100)
- Raised pad for serialization.
- API RP 17H compliant 316 stainless steel handles available in T, D, F, and Eye models (sold separately).
- Built in eyelets for optional tether points.
- Monkey fist(s) included.
- Capacities from 9.5t through 85t.
- Forged steel, Quenched & Tempered, with alloy pins.
- Working Load Limit permanently shown on every shackle.
- QUIC-CHECK® deformation and angle indicators forged on the bow.



### G-2100 ROV Release & Retrieve Shackle — QUIC-Threaded

Working Load Limit (t)*	Stock No.	Weight Each (kg)	Dimensions (mm)											
			A	B	C	D	E	F	G	H	J	K	L	N
9.5	2038739	5.1	46.0	73.9	108	31.8	186	29.5	2.68	11.2	7.9	293	107	97.3
12	2038762	6.2	51.6	82.6	119	35.1	197	32.8	3.00	11.2	7.9	311	114	101
17	2038785	10.7	60.5	98.6	146	41.4	217	38.9	3.62	12.7	7.9	349	132	126
25	2038614	17.5	73.2	127	178	50.8	242	46.7	4.20	12.7	9.7	393	151	141
35	2038808	23.3	82.6	146	197	57.9	264	52.8	4.82	12.7	9.7	431	167	149
55	2038831	49	105	184	266	70.6	320	69.1	5.81	12.7	9.7	527	207	191
85	2038877	71	127	200	330	83.3	361	79.2	6.50	12.7	12.7	600	238	199

6:1 Design Factor. \*Note: Maximum Proof Loads are 2xWLL in metric tons.

### G-2110 ROV Release & Retrieve Shackle — Non-Threaded

Working Load Limit (t)*	Stock No.	Weight Each (kg)	Dimensions (mm)											
			A	B	C	D	E	F	G	H	J	K	L	N
9.5	2038740	5.2	46.0	73.9	108	31.8	186	29.5	68.1	9.7	7.9	293	107	126
12	2038763	6.3	51.6	82.6	119	35.1	197	32.8	76.2	9.7	7.9	311	114	126
17	2038786	10.8	60.5	98.6	146	41.4	217	38.9	91.9	12.7	7.9	349	132	160
25	2038621	17.5	73.2	127	178	50.8	242	46.7	107	12.7	9.7	393	151	176
35	2038809	23.3	82.6	146	197	57.9	264	52.8	122	12.7	9.7	431	167	176
55	2038832	49	105	184	266	70.6	320	69.1	148	12.7	9.7	527	207	217
85	2038878	71	127	200	330	83.3	361	79.2	165	12.7	12.7	600	238	217

6:1 Design Factor. Maximum Proof Load is 2 times the Working Load Limit.

Load Rated

QUIC-CHECK®

APPLICATION AND WARNING INFORMATION  
SECTION 17



"D" Handle



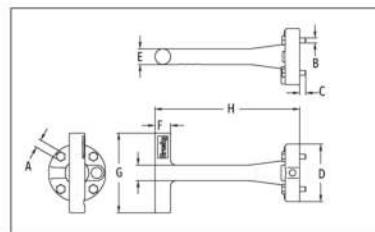
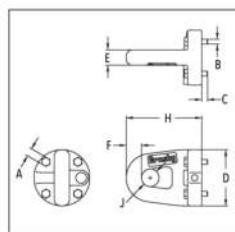
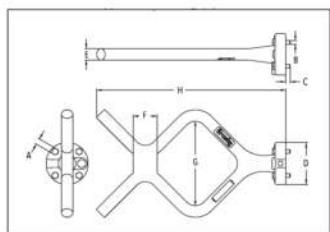
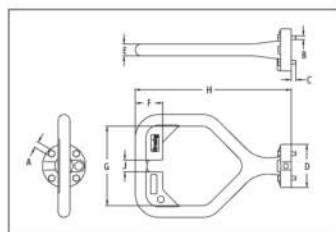
"F" Handle



"Eye" Handle



"T" Handle



- New Interchangeable handles for ROV shackle bolts.
- For use with G-2100 and G-2110 ROV shackles only.
- Handles are stainless steel and painted fluorescent orange.
- "D" and "F" handle kits available containing handle, retaining bolts, and individual packet of Loctite for easy installation.

## G-42100H ROV Handles

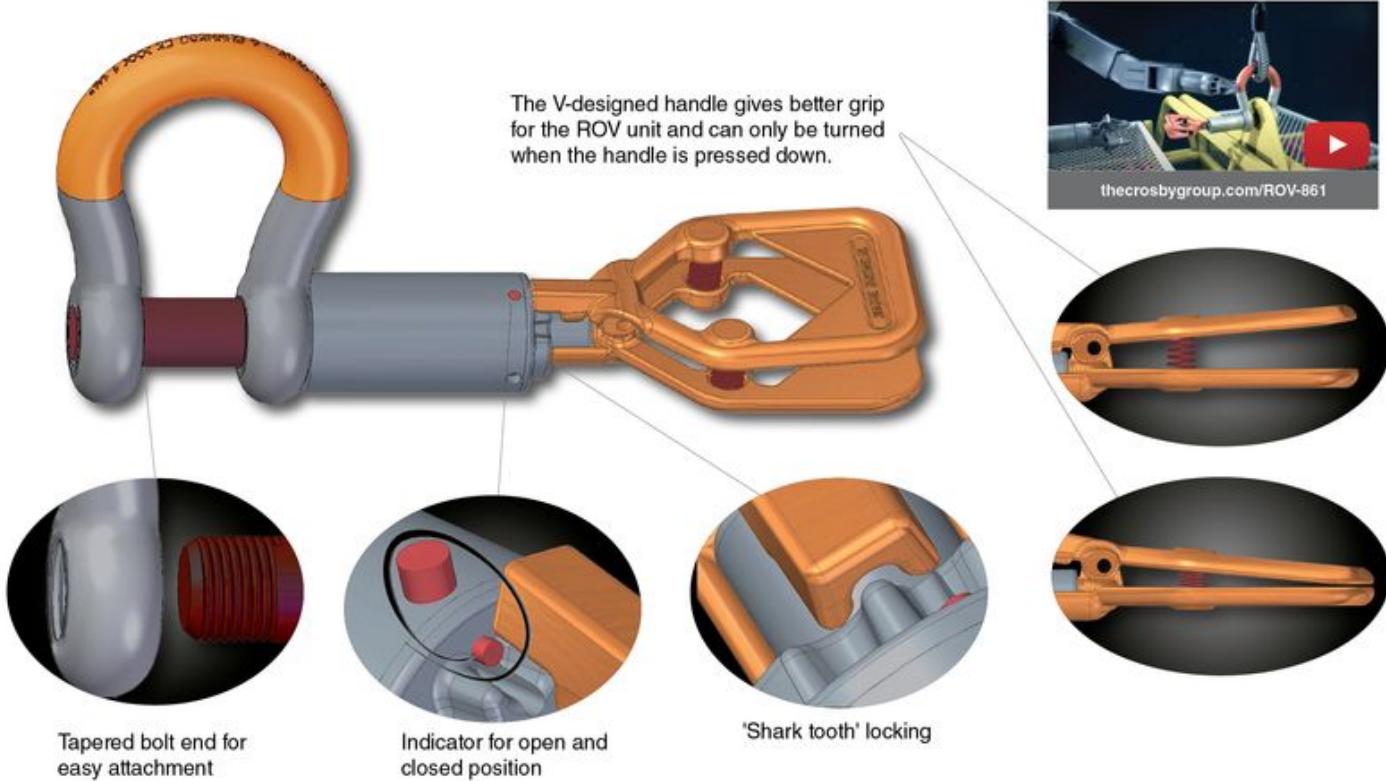
8

Handle Style	Stock No.	Weight Each (kg)	Dimensions (mm)									
			A	B	C	D	E	F	G	H	J	K
D	1021324	10.0	7.1	6	7.4	70.0	19.1	44.5	128	251	19.1	—
F	1021315	11.1	7.1	6	7.4	70.0	19.1	44.5	140	312	—	—
T	1021306	5.4	7.1	6	7.4	70.0	19.1	19.1	97	157	—	19.1
Eye	1021333	4.7	7.1	6	7.4	70.0	19.1	19.1	—	93.7	21.8	—



## ROV Shackles

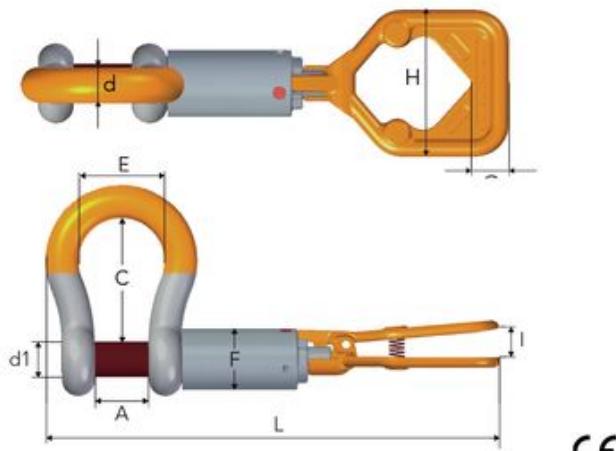
The ROV Retrieve Shackle is designed for smooth and easy use in retrieving and releasing subsea lifting and rigging operations. It has no loose parts in closed or opened position. Therefore there is no need for wires or monkey fists. The high visibility handles are close-die forged and has double safety functions. The shark tooth locking with indicator that will show if the shackle is in open or locked position as well as the spring loaded handle. The handle is the same size, regardless of size of shackle. The ROV Retrieve Shackle No. 861 is an easy to operate shackle, saving valuable time and money.



### ROV Retrieve Shackle No 861

All shackles have unique markings.

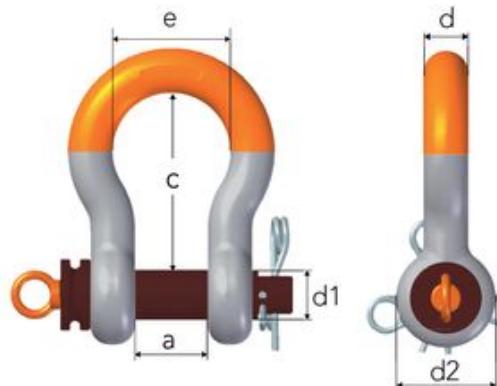
- Dim. according to EN 13889
- High tensile steel, Quenched & Tempered
- All load bearing parts hot-dip galvanized
- 6:1 Design Factor
- Test certificate and traceable 3.1 certificate supplied upon request.
- Temperature: -40°C to 200°C



CE

Stock No.	WLL (t)	Dimensions (mm)										Weight (kg)
		d1	d	A	C	E	F	L	I	H	G	
A086128	9.5	32	28	46	108	74	60	440	31	132	33	6.5
A086132	12.0	35	32	52	119	83	60	460	31	132	33	8.0
A086138	17.0	42	38	60	146	98	63.5	501	31	132	33	10.0
A086145	25.0	50	45	74	178	127	70	565	31	132	33	15.7
A086152	35.0	57	50	83	197	138	76	604	31	132	33	20.0
A086164	55.0	70	65	105	260	180	88	712	31	132	33	42.0
A086176	85.0	83	84	133	330	190	108	745	31	132	33	78.3

## ROV Release Shackle No 863



- Equipped with bolt and two locking pins
- Dim. according to EN 13889
- High tensile steel, Quenched & Tempered
- All load bearing parts hot-dip galvanized
- 5:1 Design Factor
- Test certificate and traceable 3.1 certificate supplied on request.
- Temperature: -40°C to 200°C

CE

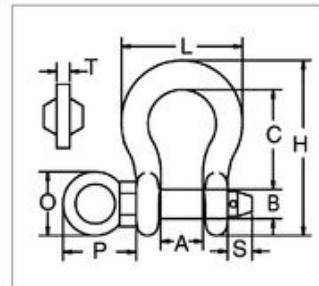
Stock No.	WLL (t)	Dimensions (mm)						Weight (kg)
		d1	d	a	c	d2	e	
A086322	6.5	25	22	37	84	52	58	1.6
A086328	9.5	32	28	46	108	64	74	3.4
A086332	12.0	35	32	52	119	72	83	5.0
A086338	17.0	42	38	60	146	84	98	7.8
A086345	25.0	50	45	74	178	105	127	13.9
A086352	35.0	57	50	83	197	127	138	17.0
A086364	55.0	70	65	105	260	152	180	37.0

8

## G-209R



- Capacities from 6.5t through 55t.
- Forged steel, Quenched & Tempered, with alloy pins.
- Working Load Limit permanently shown on every shackle.
- Fatigue rated.
- QUIC-CHECK® deformation and angle indicators forged on the bow.
- All ROV shackle bows are galvanized, then painted fluorescent yellow.
- Look for the Red Pin®... the mark of genuine Crosby quality.



## G-209R Subsea Shackles

Working Load Limit (t)*	Stock No.	Weight Each (kg)	Dimensions (mm)								
			A +/- .25	B	C	H	L	O	P	S	T
6.5	1020872	1.69	36.6	25.4	84	148	102	50	58	17	10
8.5	1020902	2.59	42.9	28.7	95.5	167	119	50	61	18	10
9.5	1020932	3.77	46.0	31.8	108	190	131	70	83	18	12
12	1020952	5.02	51.5	35.1	119	210	146	70	84	23	12
13.5	1020972	6.65	57.0	38.1	133	233	162	75	91	23	15
17	1020992	8.58	60.5	41.4	146	254	175	75	93	24	15
25	1021102	14.1	73.0	51.0	178	313	225	90	114	29	17.5
35	1021125	21.4	82.5	57.0	197	348	253	106	132	30	20
55	1021158	42.8	105.0	70.0	267	453	327	120	145	45	25

5:1 Design Factor. Maximum Proof Load is 2.0 times the Working Load Limit.

Load Rated

Fatigue Rated

QUIC-CHECK®

QT

CE

APPLICATION AND WARNING INFORMATION  
SECTION 17

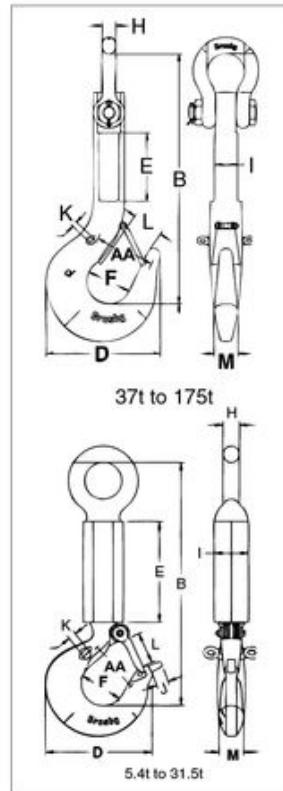
## L-562A



- Hook identification code stamped on each hook.
- Quenched & Tempered.
- QUIC-CHECK® angle indicators forged into the top eye; and deformation and angle indicators forged on the hook.
- Fluorescent yellow finish for high subsea visibility.
- Tip extension allows for easy handling.
- Sizes 5.4t through 31.5t utilize a new integrated latch (S-4320) that meets the world-class standard for lifting.
  - Heavy duty stamped latch interlocks with the hook tip.
  - High cycle, long life spring.
- Pad eyes are provided on either side of hook as cable guides. The cable is passed through a hole drilled in the latch that assists in allowing the remotely operated cable to open latch.
- Crosby supplies latches with drilled holes for sizes 5.4t through 31.5t. Other sizes can be fitted by your local Authorized Crosby Dealer. Cables are not provided by Crosby.

Load Tested Fatigue Tested QUIC-CHECK® QT CE

APPLICATION AND WARNING INFORMATION  
SECTION 17



## L-562A ROV Eye Shank Hooks

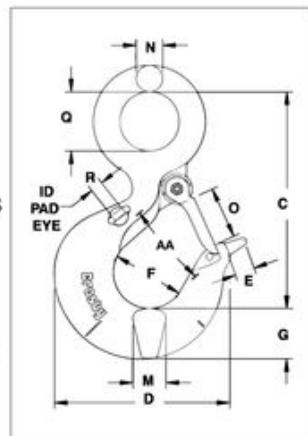
Working Load Limit (t)	Hook ID Code	L-562A Stock No.	Weight Each (kg)	Dimensions (mm)											Replacement Latch Stock No.
				I	E	B	D	J	F	M	H	L	K	AA**	
†5.4	IA	1297722	9.5	65	250	421	123	9.9	51	29	22	35	6.4	63.5	1096515
†11.5	KA	1297792	15	65	250	518	192	30	76	41	32	53	9.7	330	1096611
†16	LA	1297806	18	65	250	550	212	30	83	49	35	58	9.7	330	1096657
†22	NA	1297862	31	85	250	608	263	45	108	60	40	77	19	305	1096704
31.5	OA	1298042	44	85	250	660	346	-	127	76	48	106	19	254	1090161
‡37	PA	1298049	44	80	235	828	357	-	137	76	47	95	19	203	1090189
‡45	SA	1298057	90	80	235	865	392	-	152	83	47	108	19	177	1090189
‡60	TA	1298087	131	90	215	941	470	-	178	99	53	130	19	165	1090205
‡100	WA	1298103	303	140	300	1185	584	-	173	140	69	124	19	127	1090241
‡150	XA	1298117	395	150	230	1233	619	-	171	152	92	137	19	101	1090241
**175	YA	1298130	515	170	255	1326	678	-	191	178	102	-	19	101	143062

4:1 Design Factor. \*\* Deformation Indicators. † Utilizes Crosby S319N style hook. Maximum proof load is 2 times the Working Load Limit. ‡ Utilizes Crosby G-2140 shackle as eye.

L-320R



- Hook identification code stamped on each hook.
- Quenched & Tempered.
- QUIC-CHECK® deformation and angle indicators forged on the hook.
- Fluorescent yellow finish for high subsea visibility.
- Tip extension allows for easy handling.
- Sizes 3.2t through 31.5t utilize new integrated latch (S-4320) that meets the world-class standard for lifting.
  - Heavy duty stamped latch interlocks with the hook tip.
  - High cycle, long life spring.
- Pad eyes are provided on either side of hook as cable guides. The cable is passed through a hole drilled in the latch that assists in allowing the remotely operated cable to open latch.
- Crosby supplies latches with drilled holes for sizes 5.4t through 31.5t. Other sizes can be fitted by your local authorized distributor. Cables are not provided by Crosby.



Load Rated Fatigue Rated

QUIC-CHECK®

QT

CE

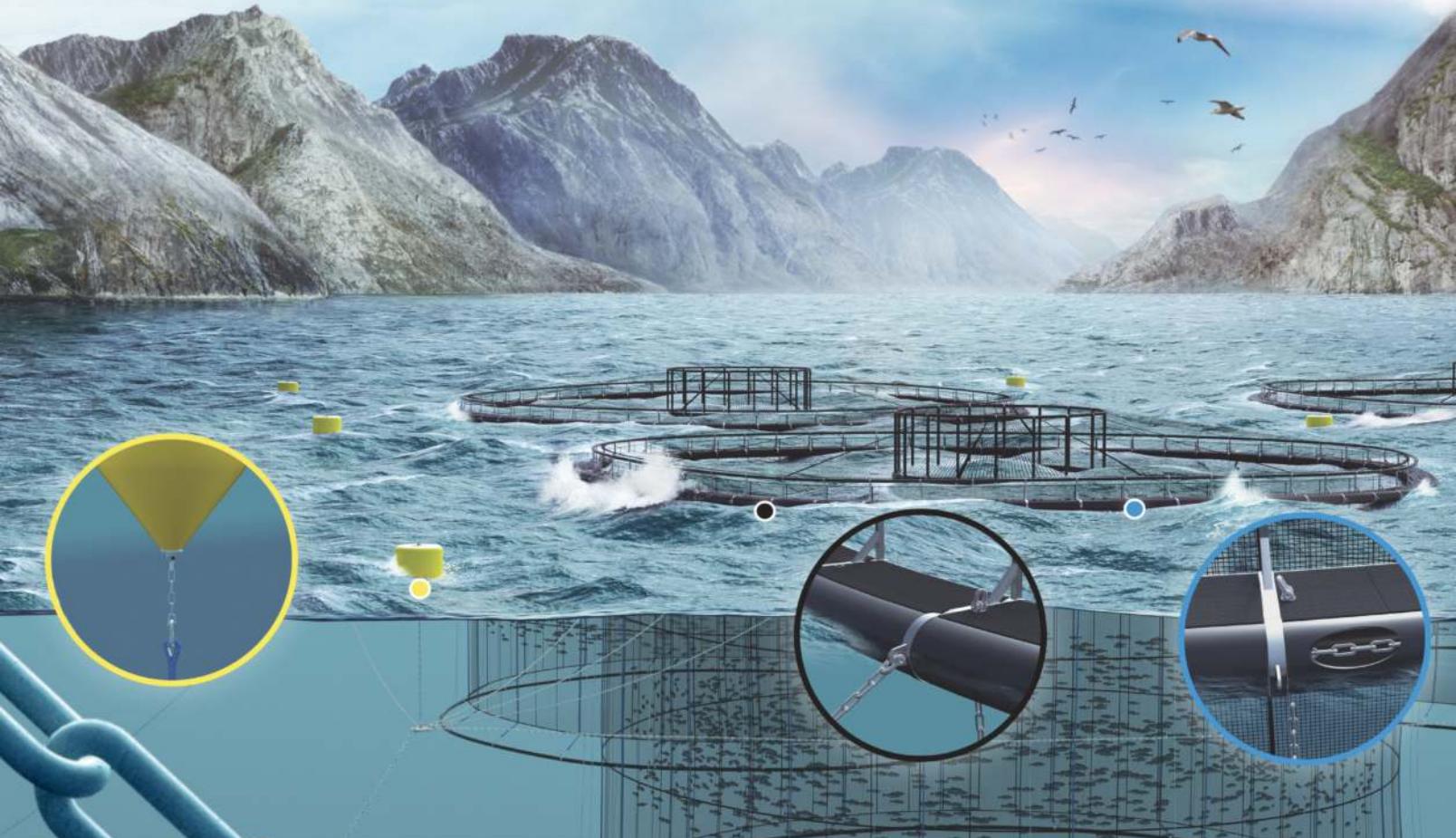
APPLICATION AND WARNING INFORMATION SECTION 17

### L-320R ROV Hooks

Working Load Limit (t)*	Hook ID Code	L-320R Stock No.	Weight Each (kg)	Dimensions (mm)										Replacement Latch Stock No.	
				C	D	E	F	G	M	N	O	Q	R	AA**	
†3.2	HA	1298427	1.01	119	101	25	41	29	24	15	28	32	6	50.8	1096468
†5.4	IA	1298497	2.04	147	122	25	51	37	33	18	35	40	6	63.5	1096515
†8	JA	1298567	3.92	187	159	35	64	46	42	23	41	51	10	76.2	1096562
†11.5	KA	1298637	7.02	230	189	35	76	57	41	28	53	62	10	102	1096611
†16	LA	1298707	10.1	256	211	35	83	66	49	32	58	72	10	102	1096657
†22	NA	1298777	18.4	318	262	45	108	76	60	40	77	89	19	127	1096704
†31.5	OA	1298847	28.1	357	346	-	127	92	76	44	93	89	19	165	1090161
37	PA	1298857	48.5	462	357	-	137	116	81	51	95	114	19	178	1090189
45	SA	1298867	62.1	511	392	-	152	129	82	55	114	125	19	203	1090189
60	TA	1298877	102	602	470	-	178	152	99	64	130	145	19	254	1090205

4:1 Design Factor. \*Deformation Indicators. †Utilizes Crosby S320N style hook. Maximum proof load is 2 times the Working Load Limit.

# SAFER SOLUTIONS THAT WITHSTAND THE TOUGHEST ENVIRONMENTS



## Increased safety & efficiency in aquaculture operations

Tackle the toughest environments with our wide range of products, including hot-dip galvanized welded chain slings and shackles.

Our products offer reduced corrosion and fatigue, are easier to handle, and are faster to assemble, resulting in longer product life and time and cost savings.

Gunnebo Industries Mooring Bolt,  
Countersunk Dee Shackle, and  
Long Link Chain LLZ



**GUNNEBO**  
Industries

# SYNTHETIC SLING FITTINGS

Steel end fittings designed to be used on synthetic web slings to increase usability & durability.



theCrosbygroup®

[thecrosbygroup.com](http://thecrosbygroup.com)

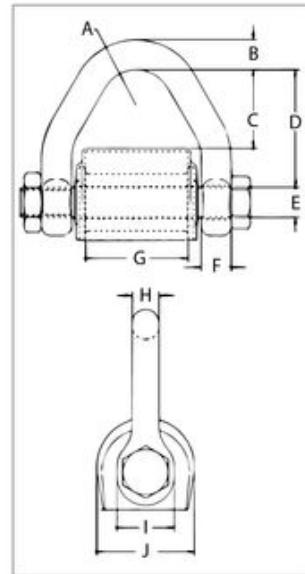
**APPLICATION INFORMATION**

Crosby's Sling Saver® line is the first broad line of fittings developed exclusively for use with synthetic slings. Combined with additional Crosby products, a complete system is now available.

RECOMMENDED APPLICATION CHART	
APPLICATION	USE
Web slings, connect to pad eye, eye bolt, or lifting lug.	S-281 Sling Saver Web Sling Shackle 
Web slings or roundslings, connecting to pad eye, eye bolt, or lifting lug.	S-253 or S-252 Sling Saver Shackle 
Connect two S-252 or S-253 Sling Saver shackles together.	S-256 Link Plate 
To keep the load centered on the pin, thus keeping the sling positioned correctly in the shackle bow.	S-255 Spool 
Web slings or roundslings connecting to master links, rings, or Crosby 320N Eye Hooks.	S-280 Sling Saver Web Connector with spool 
High strength, high capacity web or roundslings.	WSL-320A Synthetic Sling Hook 
Choking with web slings or roundslings.	S-287 Sliding Choker Hook 
Master links or master link assembly to be sewn into eye of web sling or attached utilizing web connector.	Welded Master Link A-1343 and Master Link Assembly A-1346 
Master links or master link assembly to be sewn into eye of web sling or attached utilizing web connector.	Welded Master Link A-342 and Master Link Assembly A-345 
Connecting high performance slings to master links or eye hooks and to other high performance slings.	S-237 or S-238 High Performance Connectors 
Wide body shackles greatly improve wearability of wire rope slings.	S/G-2160 Wide Body Bolt Type Shackles S/G-2169 Wide Body Screw Pin Shackles 
Always ensure rated Working Load Limits are greater than the load placed on the fitting. Designed for use with Type III (eye & eye), Class 7, 2-ply webbing, and synthetic round slings. Also accommodates single ply and endless slings.	
Crosby Sling Saver hardware meets the requirements for minimum stock diameter or thickness and effective contact width shown in the recommended standard specification for synthetic polyester round slings by the Web Sling and Tie Down Association. WSTDA-RS1 (revised 2010).	

**S-280**

- Connects synthetic web and synthetic round slings to conventional Crosby hardware.
- All alloy construction.
- Durable vinyl cover that:
  - Protects sling at eye
  - Keeps sling positioned correctly on spool.
- Makes a field assembled bridle quick and easy.
- No retaining pin to snag sling material.
- Increased radius of spool gives wider sling bearing surface resulting in an increased area for load distribution, allowing better load distribution on internal fibers.
- Increases synthetic sling efficiency as compared to standard anchor and chain shackle bows and conventional eye hooks. This allows 100% of the slings rated Working Load Limit to be achieved.
- Crosby Sling Saver hardware meets the requirements for minimum stock diameter or thickness, and effective contact width shown in the Recommended Standards Specification for Synthetic Polyester Round Slings by the Web Sling & Tie Down Association (WSTDA-RS1).
- Replacement kit for spool and web cover available.
- Designed for use with Type III (eye & eye), Class 7, 2-ply webbing and synthetic round slings. Also accommodates single ply and endless slings.

**S-280 Web Connector**

CE Sling Saver Load Tested QT

9

Round Sling Size (No.)	Web Slings*			Working Load Limit (t)†	S-280 Stock No.	Weight Each (kg)	Dimensions (mm)									
	Webbing Width (mm)	Eye Width (mm)	Ply				A	B	C	D	E	F	G	H	I	J
1 & 2	50	50	2	2.95	1021681	.68	19.1	15.7	41.4	62.0	16.0	15.7	68.5	14.2	30.2	51.5
3	35	75	2	4.08	1021690	.86	19.1	17.5	27.9	51.0	19.1	17.5	55.5	15.2	35.1	59.5
4	50	100	2	5.67	1021700	1.32	19.1	20.6	42.2	65.0	22.4	19.1	68.5	17.5	41.1	62.5
5 & 6	75	150	2	7.70	1021709	2.31	25.4	23.9	62.5	89.0	25.4	22.4	93.5	22.4	47.8	72.0

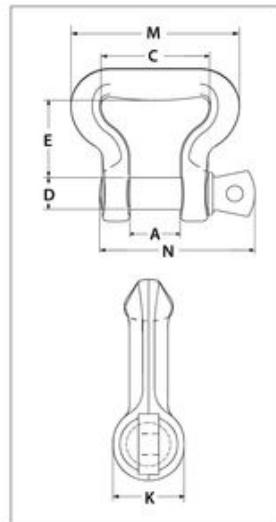
Design Factor of 5:1.

\* Designed for use with Type III, (eye &amp; eye), Class 7, 2-ply web slings. For 35mm and larger webbing width, tapered eye is required.

† Maximum Proof Load is 2 times the Working Load Limit.

**S-281**

- Web Sling Shackle is designed to connect synthetic web slings and synthetic round slings to eyebolts, pad eyes, and lifting lugs.
- All alloy construction.
- Each shackle has a Product Identification Code (PIC) for material traceability along with a Working Load Limit and the name Crosby forged into it.
- Incorporates the same ear spread and pin dimensions as conventional Crosby shackles. Allows easy connection to pad eyes, eye bolts, and lifting lugs.
- Meets or exceeds all requirements of ASME B30.26, including identification, ductility, design factor, proof load, and temperature requirements. Importantly, these shackles meet other critical performance requirements, including fatigue life, impact properties, and material traceability not addressed by ASME B30.26.
- Crosby Sling Saver hardware meets the requirements for minimum stock diameter or thickness, and effective contact width shown in the Recommended Standards Specification for Synthetic Polyester Round Slings by the Web Sling & Tie Down Association (WSTDA-RS1).
- Look for the Red Pin®... The mark of genuine Crosby quality.

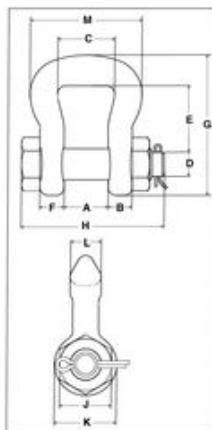
**S-281 Web Sling Shackle**
CE SlingSaver Load Rated QT

Round Sling Size (No.)	Web Slings*			Working Load Limit (t)†	S-281 Stock No.	Weight Each (kg)	Dimensions (mm)						
	Webbing Width (mm)	Eye Width (mm)	Ply				A	C	D	E	K	M	N
1 & 2	50	50	2	2.95	1021048	.54	26.9	63.5	19.1	41.1	31.0	97.5	85.0
3	35	75	2	4.08	1021057	.68	31.8	51.0	22.4	38.1	35.8	86.0	101
4	50	100	2	5.67	1021066	1.13	36.6	63.5	25.4	51.0	41.1	107	114
5 & 6	75	150	2	7.70	1021075	1.95	42.9	92.0	28.7	70.0	46.7	143	130

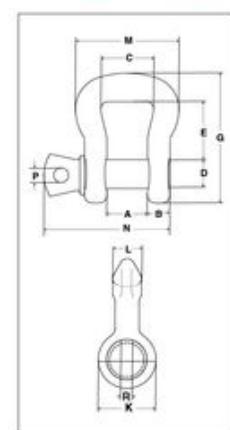
Design Factor of 5:1.

\*Designed for use with Type III, (eye &amp; eye), Class 7, 2-ply web slings. For 35mm and larger webbing width, tapered eye is required.

† Maximum Proof Load is 2 times the Working Load Limit.

**S-252**

- All alloy construction.
- Each shackle has a Product Identification Code (PIC) for material traceability along with a Working Load Limit and the name Crosby forged into it.
- Increased radius of bow gives wider sling bearing surface resulting in an increased area for load distribution, allows better load distribution on internal fibers.
- Increasing Synthetic Sling efficiency as compared to standard anchor and chain shackle bows and conventional hooks. This allows 100% of the sling's rated Working Load Limit to be achieved.
- Meets or exceeds all requirements of ASME B30.26, including identification, ductility, design factor, proof load, and temperature requirements. Importantly, these shackles meet other critical performance requirements, including fatigue life, impact properties, and material traceability not addressed by ASME B30.26.
- Crosby Sling Saver hardware meets the requirements for minimum stock diameter or thickness, and effective contact width shown in the Recommended Standards Specification for Synthetic Polyester Round Slings by the Web Sling & Tie Down Association (WSTDA-RS1).
- Bolt (pin) has a larger diameter that provides better load distribution.
- Look for the Red Pin®... the mark of genuine Crosby quality.

**S-253**

### S-252 Bolt Type Sling Shackle

CE Sling Saver Fatigue Tested Load Tested QT

Web Sling Eye Width (mm)	Round Sling Size (No.)	Working Load Limit (t)*	S-252 Stock No.	Weight Each (kg)	Dimensions (mm)												
					A	B	C	D	E	F	G	H	J	K	L	M	
25	1 & 2	3.25	1020485	.64	26.9	14.7	35.1	19.1	38.1	11.2	86.0	93.5	28.4	38.1	19.1	68.5	
35	3 & 4	6.5	1020496	1.09	31.8	19.1	44.5	22.4	47.8	12.7	105	108	33.3	46.0	25.4	86.0	
50	5 & 6	8.75	1020507	1.86	35.1	22.4	57.0	25.4	71.5	14.2	140	120	38.1	53.0	28.4	106	
75	7 & 8	12.5	1020518	3.63	41.1	28.4	82.5	31.8	77.5	19.1	161	149	47.8	66.5	35.1	143	
100	9 & 10	20.5	1020529	7.67	54.0	35.1	114	38.1	133	22.4	240	183	57.0	79.0	44.5	191	
125	11 & 12	35	1020540	15.9	63.5	44.5	140	51.0	161	28.4	292	236	76.0	106	57.0	233	
150	13	50	1020551	26.1	76.0	54.0	165	57.0	196	31.8	349	264	86.0	121	70.0	279	

Design factor of 5:1.

\* Maximum Proof Load is 2.5 times the Working Load Limit.

9

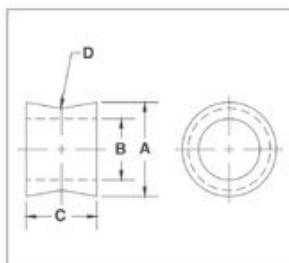
### S-253 Screw Pin Sling Shackle

Web Sling Eye Width (mm)	Round Sling Size (No.)	Working Load Limit (t)*	S-253 Stock No.	Weight Each (kg)	Dimensions (mm)												
					A	B	C	D	E	G	K	L	M	N	P	R	
25	1 & 2	3.25	1020575	.64	22.4	15.7	35.1	19.1	38.1	86.0	38.1	19.1	68.5	82.0	11.2	25.4	
35	3 & 4	6.5	1020584	1.00	31.8	19.1	44.5	22.4	47.8	105	46.0	25.4	86.0	102	12.7	30.2	
50	5 & 6	8.75	1020593	1.72	35.1	22.4	57.0	25.4	71.5	140	53.0	28.4	106	114	12.7	36.6	
75	7 & 8	12.5	1020602	3.31	41.1	28.4	82.5	31.8	77.5	161	66.5	35.1	143	142	15.7	46.0	
100	9 & 10	20.5	1020611	6.89	54.0	35.1	114	38.1	133	240	79.0	44.5	191	175	19.1	54.0	
125	11 & 12	35	1020620	14.0	63.5	44.5	140	51.0	161	292	106	57.0	233	220	25.4	73.0	
150	13	50	1020629	23.6	76.0	54.0	165	57.0	196	349	121	70.0	279	260	31.0	81.0	

\* Maximum Proof Load is 2.5 times the Working Load Limit.



**S-255**



### S-255 Spool

- Designed to keep the load centered on the pin, which keeps the sling positioned correctly in the shackle bow.

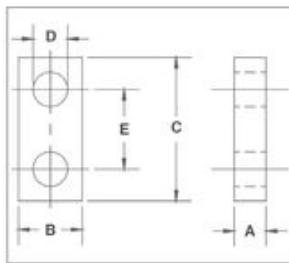
Working Load Limit (t)	S-255 Stock No.	Weight Each (kg)	Dimensions (mm)			
			A	B	C	D
3.25	1020903	0.15	31.8	20.6	19.1	4.85
6.5	1020912	0.26	38.1	23.9	25.4	6.35
8.75	1020921	0.40	44.5	26.7	30.2	7.85
12.5	1020930	0.66	51.0	33.3	38.1	9.65
20.5	1020939	1.27	63.5	41.4	47.8	11.2
35	1020948	1.09	82.5	54.0	57.0	12.7
50	1020957	1.84	95.5	60.5	70.0	15.7

\* 5:1 Design Factor

CE



**S-256**



### S-256 Link Plate

- Designed to connect two (2) S-252 or S-253 Sling Saver Shackles together.

Working Load Limit (t)	S-256 Stock No.	Weight Each (kg)	Dimensions (mm)				
			A	B	C	D	E
3.25	1020785	.38	19.1	38.1	86.0	20.6	47.8
6.5	1020796	.73	25.4	44.5	105	23.9	57.0
8.75	1020807	1.23	31.8	51.0	121	26.9	66.5
12.5	1020818	2.35	38.1	63.5	152	33.3	85.6
20.5	1020829	3.71	44.5	76.0	178	41.1	95.5
35	1020840	7.80	51.0	102	235	54.0	127
50	1020851	17.0	73.1	127	267	60.5	146

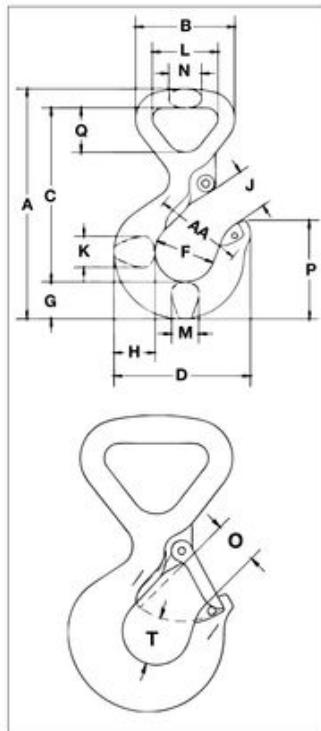
\* 5:1 Design Factor

SlingSaver CE

## WSL-320A



- Suitable for use with 2-ply web slings and round slings.
  - Eye is designed with a wide beam surface, which eliminates bunching effects, reduces sling tendency to slide, and allows a better load distribution on internal fibers.
- All alloy construction.
- Each hook has a Product Identification Code (PIC) for material traceability along with a working load limit and the name Crosby forged into it.
- All hooks feature Crosby's patented QUIC-CHECK® indicators.
- Fatigue rated to 20,000 cycles at 1.5 times the Working Load Limit.
- Includes S-4320 latch.
- Crosby Sling Saver hardware meets the requirements for minimum stock diameter or thickness, and effective contact width shown in the Recommended Standards Specification for Synthetic Polyester Round Slings by the Web Sling & Tie Down Association (WSTDA-RS1).

APPLICATION AND WARNING INFORMATION  
SECTION 17

9

## WSL-320A Synthetic Sling Hook

**QUIC-CHECK®** **CE** **Sling Saver®** **Fatigue Rated®** **Load Rated®**

Web Sling Eye Width (mm)	Round Sling Size (No.)	Working Load Limit (t)	WSL-320A with Latch	Weight Each (kg)	Hook I.D. Code	S-4320 Rep. Latch
25.0	1	1.5	1022706	.50	FA	1096374
50.0	2	3	1022717	1.30	HA	1096468
75.0	3	5	1022728	3.00	IA	1096515

## WSL-320A Synthetic Sling Hook

Hook ID Code	Working Load Limit (t)	Dimensions (mm)																	
		A	B	C	D	F	G	H	J	K	L	M	N	O	P	Q	T	AA	
FA	1.5	133	57.5	101	79.0	35.1	21.3	23.9	23.6	18.0	38.1	16.0	19.1	23.1	57.0	25.7	24.9	51.0	
HA	3	181	93.0	135	101	41.4	28.7	33.5	28.7	23.9	63.5	21.6	28.7	27.7	71.5	42.9	29.5	51.0	
IA	5	237	130	179	122	51.0	36.6	41.4	37.3	33.3	95.5	28.7	41.4	34.5	89.0	66.0	38.9	63.5	

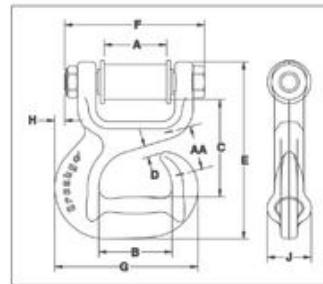
Design factor of 5:1.

Maximum Proof Load is 2.5 times the Working Load Limit.

### S-287



- Special design of hook protects the synthetic sling when dropped or dragged.
- Uses same spool and cover as S-280 Web Connector.
  - Replacement Kit for Spool and Web Cover available.
  - No retaining pin to snag sling material.
- Forged alloy steel, Quenched & Tempered.
- Each Connector has a Product Identification Code (PIC) for material traceability along with a Working Load Limit and the name Crosby forged into it.
- Designed to reduce friction, abrasion, and fraying in choker area.
- Designed for use with Type III, (eye & eye).
- Crosby Sling Saver hardware meets the requirements for minimum stock diameter or thickness, and effective contact width shown in the Recommended Standards Specification for Synthetic Polyester Round Slings by the Web Sling & Tie Down Association (WSTDA-RS1).



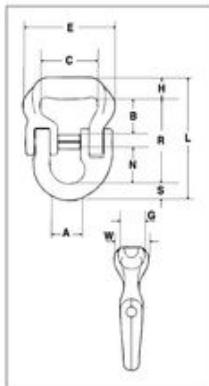
### S-287 Sliding Choker Hook

QUIC-CHECK® CE Sling Saver Load Rating

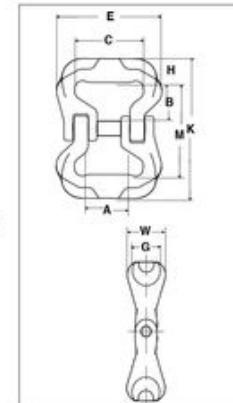
Round Sling Size (No.)	Web Slings			Working Load Limit (t)	S-287 Stock No.	Weight Each (kg)	Dimensions (mm)									
	Webbing Width (mm)	Eye Width (mm)	Ply				A	B	C	D	E	F	G	H	J	AA
1 & 2	50	50	2	2.95	1021909	1.68	54.0	63.5	84.5	9.65	153	121	124	8.65	38.1	38.1
3	75	35	2	4.08	1021918	2.77	41.4	89.0	93.0	9.65	179	115	165	34.5	47.8	—

Design factor of 5:1.

Maximum Proof Load is 2 times the Working Load Limit.

**S-237**


- High Performance Sling Connector is designed to connect to slings of all materials.
- Allows easy connection to master links or eye hooks and is ideal for bridles.
- Increased radius of bow gives wider sling bearing surface resulting in an increased area for load distribution, allows better load distribution on internal fibers.
  - Increases synthetic sling efficiency as compared to master links, shackle bows and conventional eye hooks. This allows 100% of the sling's rated Working Load Limit to be achieved.
- All alloy construction
- Each connector has a Product Identification Code (PIC) for material traceability, along with a frame size and the name Crosby forged into it.
- Crosby Sling Saver hardware meets the requirements for minimum stock diameter or thickness, and effective contact width shown in the Recommended Standards Specification for Synthetic Polyester Round Slings by the Web Sling & Tie Down Association (WSTDA-RS1).

**S-238**


### S-237 High Performance Sling Connector

CE Sling Saver Load Tested QT

Working Load Limit (kg)*	5:1 (kg)	Stock No.	Frame No.	Nominal Sling Body Width (mm)	Lok-A-Loy Size (mm)	Weight Each (kg)	Dimensions (mm)											
							A	B	C	E	G	H	L	N	R	S	W	
2835	2268	1020695	5	51	10	.52	22.4	36.1	50.8	80.8	25.4	20.3	107	26.4	74.2	12.2	35.1	
5670	4536	1020704	10	76	16	1.34	36.1	38.6	69.9	105	31.8	24.9	144	43.4	100	19.0	44.5	
8505	6804	1020713	15	76	20	2.15	41.4	40.1	69.9	111	35.1	27.9	165	51.8	113	23.6	47.8	
14175	11340	1020722	25	102	22	3.90	50.8	59.2	95.3	152	44.5	35.8	202	57.7	140	26.9	57.2	
17010	13607	1020731	30	102	22	4.19	50.8	55.9	95.3	157	44.5	35.8	199	57.7	137	26.9	60.5	
22680	18145	1020740	40	127	26	7.1	57.2	73.9	121	184	57.2	45.2	240	62.0	164	31.0	78.5	
34020	27215	1020759	60	152	32	11.8	65.0	85.3	146	232	58.7	47.2	281	78.0	196	38.1	80.3	

Design Factor of 5:1.

Maximum allowable Proof Load is 2 times the Working Load Limit when used at 4:1 design factor.

**9**

### S-238 High Performance Sling Connector

Working Load Limit (kg)	Stock No.	Frame No.	Nominal Sling Body Width (mm)	Weight Each (kg)	Dimensions (mm)											
					A	B	C	E	G	H	K	M	W			
2268	1020415	5	50.8	.73	22.4	36.1	50.8	80.8	25.4	20.3	124	83.8	35.1			
4536	1020423	10	76.2	1.50	36.1	38.6	69.9	105	31.8	24.9	145	95.5	44.5			
6804	1020432	15	76.2	2.22	41.4	40.1	69.9	111	35.1	27.9	156	101	47.8			
11340	1020441	25	102	4.58	50.8	59.2	95.3	152	44.5	35.8	213	142	57.2			
13608	1020450	30	102	5.17	50.8	55.9	95.3	157	44.5	35.8	207	135	60.5			
18144	1020469	40	127	9.39	57.2	73.9	121	184	57.2	45.2	266	176	78.5			
27216	1020478	60	152	14.5	65.0	85.3	146	232	58.7	47.2	298	203	80.3			

5:1 Design Factor



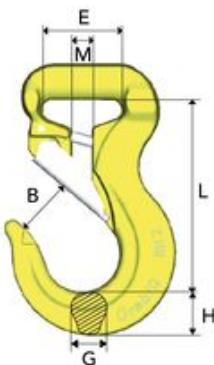
## Roundsling Hook RH

The RH-hook is the perfect load connection solution, combining the advantages of both soft lifting slings and grade 100 components. It can be inserted into a softsling and is quicker and safer to use than the commonly used shackle. The RH-hook is a connector as well as a hook, which gives the user increased flexibility, safer use and increased durability of the soft slings.

The RH-hook comes with a blocking pin, but thanks to the narrow opening it may be used without blocking pin.

Stock No.	Code	WLL (t)	Dimensions (mm)						Weight (kg)
			B	E	G	L	H	M	
B14490	RH-1-10	1	24	35	17	84	19	8	0.5
B14491	RH-2-10	2	28	40	17	96	22	10	0.7
B14492	RH-3-10	3	33	47	24	117	30	12	1.4
B14493	RH-5-10	5	43	73	27	155	36	17	3.2

4:1 Design Factor. Tested according to EN 1677-2.



The roundsling hooks are color coded in order to match the corresponding sizes of roundslings marked according to EN 1492: Red=5T, Yellow=3T, Green=2T and Violet=1T.

## The SK-System

A range of specialized components for safe and easy assembly to chain, steel wire rope, webbing and roundsling, designed to solve your below-the-hook problems.

The Polyester Sling System provides:

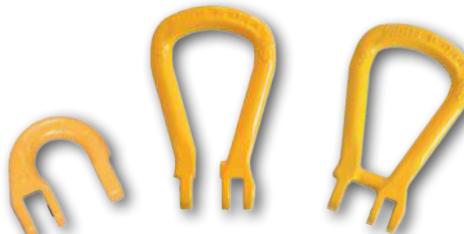
- Universal coupling of components to chain, wire and synthetic slings.
- Quick and simple assembly (only a hammer needed).
- Easy assembly - standardized dimensions within each size range effectively eliminates the incorrect assembly of components with different safe working loads.
- Heavy hoisting with strong yet lightweight equipment.
- All components are manufactured from alloy steel for use with Grade 8 chain.



### SKA – pin & collar

The SKA set, containing pin and collar, can be used to connect all products in the SK-range. This creates a multitude of available combinations, each adaptable to the unique lifting situation.

The SKA set gives you flexibility. It can be disassembled and put in new combinations, providing solutions for a versatile lifting environment.



### SKLI/SKLU

Electrically insulated, lubricated, sealed roller bearing swivel. Fully rotational even at maximum load. Tested to resist 1000 V. Suitable for protection of overhead cranes during welding operations on suspended loads.

By using the SKLI/SKLU with the SK-system you get a versatile solution that will fit almost any situation.



## Rapid Rescue Chain Kit

Rapid rescue chain kits for a quick and patient-friendly rescue.

### Rapid Rescue Chain Kits

A few seconds can make a significant impact in a serious accident rescue operation. The vehicle construction and extreme deformations common in accidents make the work of emergency workers increasingly more difficult. The use of Gunnebo Industries' chain rescue kit is simple and effective for a patient-friendly rescue. The methodology and equipment is standardized in many parts of Europe including Germany and Scandinavia. The pulling moves the fire brigade's working space to the outside and allows parallel work of medical care and technical rescue.

Chain rescue can be used successfully in various accident scenarios such as frontal impact, side and rear impact.

### Recommended kit

- 4 x 2,7m (9ft) chain sling MG1-CL
- 2 x 6m (20ft) synthetic sling\*
- 4 x RH synthetic sling hooks
- 4 x G209 or 854 bow screw pin shackles
- 2 x metal or plastic hardcase for easy storage\*

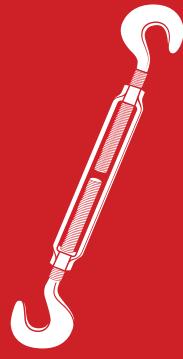
\*not manufactured by The Crosby Group



The kits are available in sizes from 6mm (7/32 inch) up to 16mm (5/8 inch) and working load limits up to 10 t (22 600 lb). Most commonly 8mm (5/16 inch) or 10mm (3/8 inch) are used, along with appropriately sized synthetic slings and synthetic sling hooks.

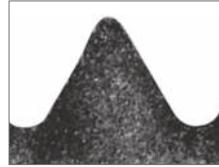
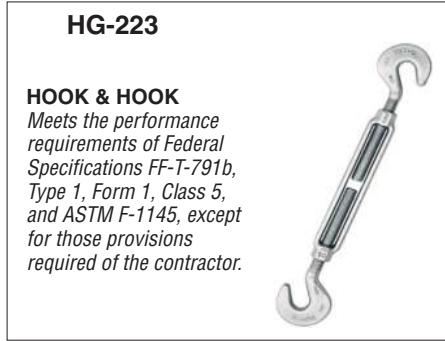
# TURNBUCKLES

Drop-forged and hot-dip galvanized turnbuckles for in-line pull.

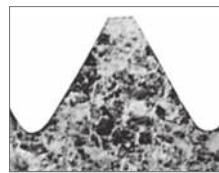
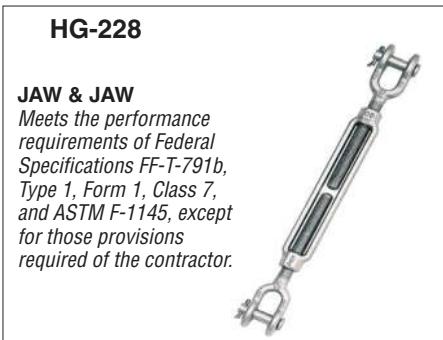


theCrosby group®

[thecrosbygroup.com](http://thecrosbygroup.com)



**Modified Thread:**  
Note stress relieving radii in this unretouched photo enlargement of the supabuckle.



**Standard Thread:**  
Note stress building sharp "V" in this untouched photo enlargement.

## Turnbuckle Information

- Turnbuckle assembly combinations include: eye & eye, hook & hook, hook & eye, jaw & jaw, and jaw & eye.
- End fittings are Quenched & Tempered or normalized, bodies heat treated by normalizing.
- Crosby's Quenched & Tempered end fittings and normalized bodies have enhanced impact properties for greater toughness at all temperatures.
- Hot-dip galvanized.
- Hooks are forged with a greater cross sectional area that results in a stronger hook with better fatigue properties.
- Modified UNJ thread on end fittings for improved fatigue properties. Body has UNC threads.
- Turnbuckle eyes are forged elongated, by design, to maximize easy attachment in system and minimize stress in the eye. For turnbuckle sizes 6.35mm through 63.5mm, a shackle one size smaller can be reeved through eye.
- Forged jaw ends are fitted with bolts and nuts on size 6.35mm - 15.9mm, and pins and cotter on sizes 19.1mm through 70mm.
- **TURNBUCKLES RECOMMENDED FOR STRAIGHT OR IN-LINE PULL ONLY.**
- Lock nuts available for all sizes.
- Typical hardness levels, tensile strengths and ductility properties are available for all sizes.
- Meets or exceeds all the requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these turnbuckles meet other critical performance requirements, including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.



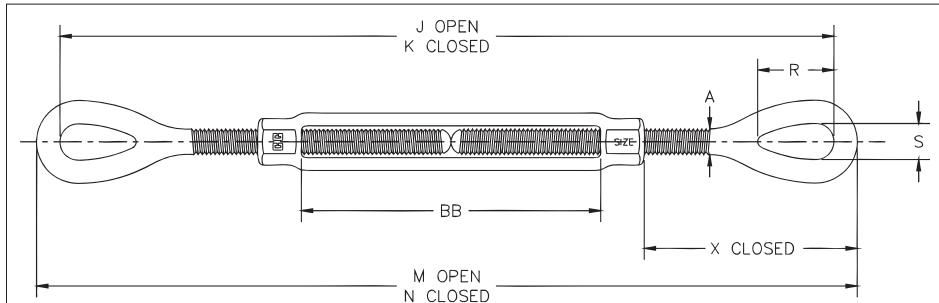
HG-226

**QT**  
 Quality Test

Fatigue Rated

 APPLICATION AND WARNING INFORMATION  
 SECTION 17

- End fittings are Quenched & Tempered or normalized, bodies heat-treated by normalizing.
- Hot-dip galvanized steel.
- Turnbuckle eyes are forged elongated, by design, to maximize easy attachment in system and minimize stress in the eye. For turnbuckle sizes 6 mm through 64 mm, a shackle one size smaller can be reeved through eye.
- Modified UNJ thread on end fittings for improved fatigue properties. Body has UNC threads.
- TURNBUCKLES RECOMMENDED FOR STRAIGHT OR IN-LINE PULL ONLY.
- Lock nuts available for all sizes.
- Fatigue rated to 20,000 cycles at 1-1/2 times the Working Load Limit.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load, and temperature requirements. Importantly, these turnbuckles meet other critical performance requirements including fatigue life, impact properties, and material traceability, not addressed by ASME B30.26.
- Meets the performance requirements of Federal Specifications FF-T-791b, Type 1 Form 1 - CLASS 4, and ASTM F-1145, except for those provisions required of the contractor. For additional information, see the warnings and applications section.



## HG-226 Eye & Eye

10

Thread Dia. & Take Up (in)	Stock No.	Working Load Limit (t)	Weight Each (kg)	Dimensions (mm)								
				A	J Open	K Closed	M Open	N Closed	R	S	X Closed	BB
* 1/4 x 4	1031252	.23	.13	6.35	303	202	314	213	20.6	8.6	44.6	103
* 5/16 x 4-1/2	1031270	.36	.22	7.94	354	239	368	253	24.1	11.2	55.8	116
* 3/8 x 6	1031298	.54	.34	9.53	446	294	463	311	28.7	13.5	62.9	155
1/2 x 6	1031314	1.00	.78	12.7	506	354	529	376	35.8	18.0	90.4	153
1/2 x 12	1031350	1.00	1.19	12.7	819	514	841	536	35.8	18.0	89.9	314
5/8 x 6	1031378	1.59	1.25	15.9	552	399	577	425	45.7	22.4	110	153
5/8 x 12	1031412	1.59	1.87	15.9	865	560	891	586	45.7	22.4	110	315
3/4 x 6	1031430	2.36	1.91	19.1	590	438	622	470	53.1	25.4	130	156
3/4 x 12	1031476	2.36	2.78	19.1	905	600	937	632	53.1	25.4	129	320
3/4 x 18	1031494	2.36	3.55	19.1	1210	753	1242	785	53.1	25.4	130	471
7/8 x 12	1031519	3.27	4.01	22.2	932	627	970	665	60.5	31.8	147	309
7/8 x 18	1031537	3.27	5.22	22.2	1249	792	1287	830	60.5	31.8	147	473
1 x 6	1031555	4.54	4.36	25.4	666	514	711	559	76.2	36.3	165	157
1 x 12	1031573	4.54	5.88	25.4	971	666	1016	711	76.2	36.3	165	309
1 x 18	1031591	4.54	7.40	25.4	1276	819	1321	864	76.2	36.3	165	462
1 x 24	1031617	4.54	9.14	25.4	1596	987	1641	1031	76.2	36.3	164	631
1-1/4 x 12	1031635	6.89	9.01	31.8	1070	766	1127	822	91.2	46.2	216	306
1-1/4 x 18	1031653	6.89	10.8	31.8	1375	918	1432	975	91.2	46.2	216	459
1-1/4 x 24	1031671	6.89	12.6	31.8	1694	1085	1751	1141	91.2	46.2	216	625
1-1/2 x 12	1031699	9.71	13.0	38.1	1124	819	1187	882	104	53.8	240	313
1-1/2 x 18	1031715	9.71	15.4	38.1	1428	971	1492	1035	104	53.8	240	465
1-1/2 x 24	1031733	9.71	17.9	38.1	1749	1139	1813	1203	104	53.8	240	633
1-3/4 x 18	1031779	12.7	23.0	44.5	1457	1000	1534	1076	118	60.5	253	467
1-3/4 x 24	1031797	12.7	26.4	44.5	1762	1153	1838	1229	118	60.5	253	619
2 x 24	1031813	16.8	37.9	50.8	1922	1313	2011	1402	148	68.3	331	622
2-1/2 x 24	1031831	27.2	67.4	63.5	2011	1402	2113	1503	165	79.2	350	625
2-3/4 x 24	1031859	34.0	79.1	69.9	2066	1456	2180	1571	178	82.6	383	626

5:1 Design Factor. Proof Load is 2.5 times the Working Load Limit.\*Mechanical galvanized



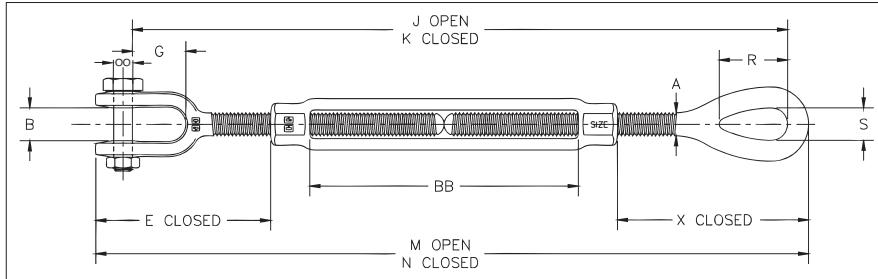
HG-227

**GT**  
GARRETT TURNBUCKLES

Fatigue Rated

APPLICATION AND WARNING INFORMATION  
SECTION 17

- End fittings are Quenched & Tempered or normalized, bodies heat-treated by normalizing.
- Hot-dip Galvanized steel.
- Turnbuckles eyes are forged and elongated, by design, to maximize easy attachment in system and minimize stress in the eye. For turnbuckles size 6 mm through 64 mm, a shackle one size smaller can be reeved through eye.
- Forged jaw ends are fitted with bolts and nuts for 6mm through 16mm, and pins and cotters on 19 mm through 70 mm sizes.
- Modified UNJ thread on end fittings for improved fatigue properties.
- Body has UNC threads.
- TURNBUCKLES RECOMMENDED FOR STRAIGHT OR IN-LINE PULL ONLY.
- Lock nuts available for all sizes.
- Fatigue rated to 20,000 cycles at 1-1/2 times the Working Load Limit.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load, and temperature requirements. Importantly, these turnbuckles meet other critical performance requirements including fatigue life, impact properties, and material traceability, not addressed by ASME B30.26.
- Meets the performance requirements of Federal Specifications FF-T-791b, Type 1 Form 1 - CLASS 8, and ASTM F-1145, except for those provisions required of the contractor. For additional information, see warnings and applications section.

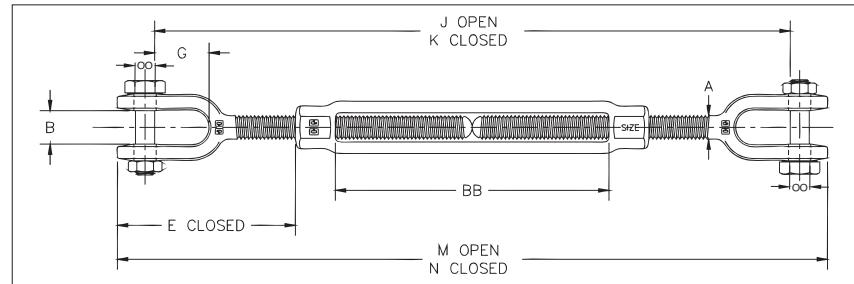
**HG-227 Jaw & Eye**

Thread Dia. & Take Up (in)	Stock No.	Working Load Limit (t)	Weight Each (kg)	Dimensions (mm)											
				A	B	E Closed	G	J Open	K Closed	M Open	N Closed	R	S	X Closed	BB
* 1/4 x 4	1031877	.23	.15	6.35	11.4	42.0	16.1	294	192	312	210	20.6	8.6	44.6	103
* 5/16 x 4-1/2	1031895	.36	.24	7.94	12.7	51.2	22.0	343	228	363	249	24.1	11.2	55.8	116
* 3/8 x 6	1031911	.54	.36	9.53	13.5	53.5	21.5	429	277	454	301	28.7	13.5	62.9	155
1/2 x 6	1031939	1.00	.80	12.7	16.3	81.8	27.1	490	338	520	368	35.8	18.0	90.4	153
1/2 x 9	1031957	1.00	1.02	12.7	16.3	81.3	27.1	650	421	680	451	35.8	18.0	89.9	238
1/2 x 12	1031975	1.00	1.21	12.7	16.3	81.3	27.1	802	497	832	528	35.8	18.0	89.9	314
5/8 x 6	1031993	1.59	1.35	15.9	20.1	99.1	33.5	527	374	566	413	45.7	22.4	110	153
5/8 x 9	1032019	1.59	1.69	15.9	20.1	98.8	33.5	688	459	727	498	45.7	22.4	110	239
5/8 x 12	1032037	1.59	1.97	15.9	20.1	98.8	33.5	840	535	879	574	45.7	22.4	110	315
3/4 x 6	1032055	2.36	2.05	19.1	24.6	120	38.5	563	411	612	459	53.1	25.4	130	156
3/4 x 9	1032073	2.36	2.52	19.1	24.6	119	38.5	726	497	774	546	53.1	25.4	129	244
3/4 x 12	1032091	2.36	2.91	19.1	24.6	119	38.5	878	573	927	622	53.1	25.4	129	320
3/4 x 18	1032117	2.36	3.69	19.1	24.6	120	38.5	1183	726	1232	774	53.1	25.4	130	471
7/8 x 12	1032135	3.27	4.13	22.2	29.5	140	44.8	906	601	963	658	60.5	31.8	147	309
7/8 x 18	1032153	3.27	5.28	22.2	29.5	140	44.8	1223	766	1280	822	60.5	31.8	147	473
1 x 6	1032171	4.54	4.55	25.4	34.0	155	52.1	636	483	701	548	76.2	36.3	165	157
1 x 12	1032199	4.54	6.06	25.4	34.0	155	52.1	941	636	1006	701	76.2	36.3	165	309
1 x 18	1032215	4.54	7.58	25.4	34.0	155	52.1	1245	788	1310	853	76.2	36.3	165	462
1 x 24	1032233	4.54	9.33	25.4	34.0	154	52.1	1565	956	1630	1021	76.2	36.3	164	631
1-1/4 x 12	1032251	6.89	9.48	31.8	46.7	205	71.5	1035	730	1117	812	91.2	46.2	216	306
1-1/4 x 18	1032279	6.89	11.3	31.8	46.7	205	71.5	1340	883	1422	965	91.2	46.2	216	459
1-1/4 x 24	1032297	6.89	13.1	31.8	46.7	205	71.5	1659	1050	1741	1131	91.2	46.2	216	625
1-1/2 x 12	1032313	9.71	13.9	38.1	52.3	227	71.4	1080	775	1174	869	104	53.8	240	313
1-1/2 x 18	1032331	9.71	16.3	38.1	52.3	227	71.4	1384	927	1479	1021	104	53.8	240	465
1-1/2 x 24	1032359	9.71	18.8	38.1	52.3	227	71.4	1705	1095	1799	1189	104	53.8	240	633
1-3/4 x 18	1032395	12.7	23.6	44.5	66.0	238	85.0	1406	949	1518	1061	118	60.5	253	467
1-3/4 x 24	1032411	12.7	27.1	44.5	66.0	238	85.0	1711	1101	1823	1213	118	60.5	253	619
2 x 24	1032439	16.8	40.8	50.8	66.5	300	95.0	1846	1236	1980	1370	148	68.3	331	622
2-1/2 x 24	1032457	27.2	71.7	63.5	77.7	337	113	1932	1323	2100	1490	165	79.2	350	625
2-3/4 x 24	1032475	34.0	84.6	69.9	93.7	379	106	1982	1373	2176	1566	178	82.6	383	626

5:1 Design Factor. Proof Load is 2.5 times the Working Load Limit. \*Mechanically galvanized



- End fittings are Quenched & Tempered or normalized, bodies heat-treated by normalizing.
- Hot-dip Galvanized steel.
- TURNBUCKLES RECOMMENDED FOR STRAIGHT OR IN-LINE PULL ONLY.
- Forged jaw ends are fitted with bolts and nuts for 6 mm through 16 mm, and pins and cotters on 19 mm through 70 mm sizes.
- Modified UNJ thread on end fittings for improved fatigue properties.
- Body has UNC threads.
- Lock nuts available for all sizes.
- Fatigue rated to 20,000 cycles at 1-1/2 times the Working Load Limit.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these turnbuckles meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.
- Meets the performance requirements of Federal Specifications FF-T-791b, Type 1 Form 1 - CLASS 7, and ASTM F-1145, except for those provisions required of the contractor. For additional information, see Warnings & Applications.



### HG-228 Jaw & Jaw

Thread Dia. & Take Up (in)	Stock No.	Working Load Limit (t)	Weight Each (kg)	Dimensions (mm)								
				A	B	E Closed	G	J Open	K Closed	M Open	N Closed	BB
* 1/4 x 4	1032493	.23	.17	6.35	11.4	42.0	16.1	284	183	309	208	103
* 5/16 x 4-1/2	1032518	.36	.25	7.94	12.7	51.2	22.0	332	218	359	244	116
* 3/8 x 6	1032536	.54	.39	9.53	13.5	53.5	21.5	413	260	445	292	155
1/2 x 6	1032554	1.00	.83	12.7	16.3	81.8	27.1	474	321	512	359	153
1/2 x 9	1032572	1.00	1.04	12.7	16.3	81.3	27.1	633	405	671	443	238
1/2 x 12	1032590	1.00	1.23	12.7	16.3	81.3	27.1	786	481	824	519	314
5/8 x 6	1032616	1.59	1.46	15.9	20.1	99.1	33.5	501	349	554	402	153
5/8 x 9	1032634	1.59	1.79	15.9	20.1	98.8	33.5	662	434	715	487	239
5/8 x 12	1032652	1.59	2.08	15.9	20.1	98.8	33.5	815	510	868	563	315
3/4 x 6	1032670	2.36	2.18	19.1	24.6	120	38.5	536	383	601	449	156
3/4 x 9	1032698	2.36	2.65	19.1	24.6	119	38.5	698	470	764	535	244
3/4 x 12	1032714	2.36	3.05	19.1	24.6	119	38.5	851	546	916	612	320
3/4 x 18	1032732	2.36	3.83	19.1	24.6	120	38.5	1155	698	1221	764	471
7/8 x 12	1032750	3.27	4.25	22.2	29.5	140	44.8	880	575	956	651	309
7/8 x 18	1032778	3.27	5.34	22.2	29.5	140	44.8	1197	740	1272	815	473
1 x 6	1032796	4.54	4.74	25.4	34.0	155	52.1	605	453	690	538	157
1 x 12	1032812	4.54	6.25	25.4	34.0	155	52.1	910	605	995	690	309
1 x 18	1032830	4.54	7.77	25.4	34.0	155	52.1	1215	757	1300	843	462
1 x 24	1032858	4.54	9.51	25.4	34.0	154	52.1	1535	925	1620	1010	631
1-1/4 x 12	1032876	6.89	9.94	31.8	46.7	205	71.5	1000	695	1107	802	306
1-1/4 x 18	1032894	6.89	11.7	31.8	46.7	205	71.5	1305	848	1412	955	459
1-1/4 x 24	1032910	6.89	13.5	31.8	46.7	205	71.5	1624	1014	1731	1121	625
1-1/2 x 12	1032938	9.71	14.8	38.1	52.3	227	71.4	1035	731	1160	855	313
1-1/2 x 18	1032956	9.71	17.2	38.1	52.3	227	71.4	1340	883	1465	1008	465
1-1/2 x 24	1032974	9.71	19.7	38.1	52.3	227	71.4	1661	1051	1786	1176	633
1-3/4 x 18	1033018	12.7	24.3	44.5	66.0	238	85.0	1355	898	1503	1045	467
1-3/4 x 24	1033036	12.7	27.7	44.5	66.0	238	85.0	1660	1050	1807	1198	619
2 x 24	1033054	16.8	43.7	50.8	66.5	300	95.0	1769	1159	1949	1339	622
2-1/2 x 24	1033072	27.2	75.9	63.5	77.7	337	113	1853	1244	2087	1478	625
2-3/4 x 24	1033090	34.0	90.1	69.9	93.7	379	106	1899	1289	2172	1562	626

5:1 Design Factor. Proof Load is 2.5 times the Working Load Limit. \*Mechanical galvanized

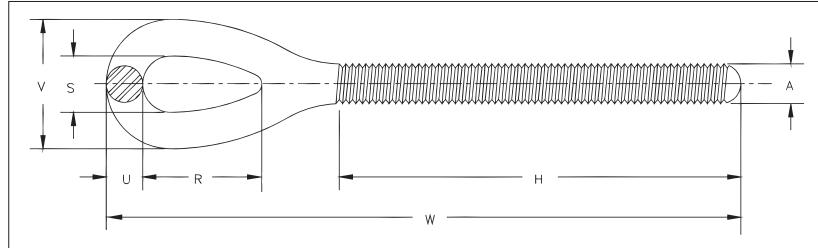


APPLICATION AND WARNING INFORMATION SECTION 17



**HG-4037**

- Quenched & Tempered or normalized.
- Hot-dip Galvanized steel.
- Turnbuckle eyes are forged elongated, by design, to maximize easy attachment in system and minimize stress in the eye. For turnbuckle sizes 6 mm through 64 mm, a shackle one size smaller can be reeved through eye.
- Modified UNJ thread for improved fatigue properties.
- Fatigue rated.



**QT** **Fatigue Rated**

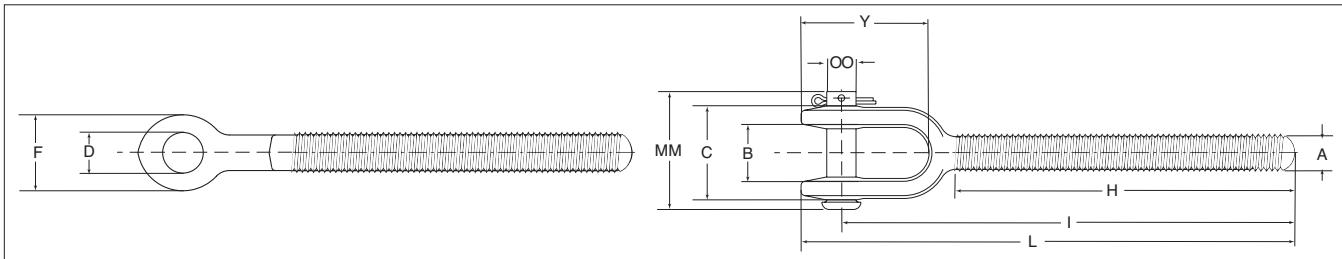
### HG-4037 Eye End Fittings

Shank Dia. & Take Up (in)	RH Eye Stock No.	LH Eye Stock No.	Working Load Limit (t)	Weight Each (kg)	Dimensions (mm)						
					A	H	R	S	U	V	W
* 1/4 x 4	1071057	1071672	.23	.03	6.35	65.8	20.6	8.64	5.59	19.8	106
* 5/16 x 4 1/2	1071075	1071690	.36	.06	7.94	76.2	24.1	11.2	7.11	25.4	127
* 3/8 x 6	1071093	1071716	.54	.10	9.53	98.6	28.7	13.5	8.64	30.7	155
1/2 x 6	1071119	1071734	1.00	.23	12.7	106	35.8	18.0	11.2	40.4	188
1/2 x 9	1071137	1071752	1.00	.27	12.7	145	35.8	18.0	11.2	40.4	226
1/2 x 12	1071155	1071770	1.00	.31	12.7	183	35.8	18.0	11.2	40.4	264
5/8 x 6	1071173	1071798	1.59	.37	15.9	113	45.7	22.4	12.7	47.8	212
5/8 x 9	1071191	1071814	1.59	.43	15.9	151	45.7	22.4	12.7	47.8	250
5/8 x 12	1071217	1071832	1.59	.49	15.9	189	45.7	22.4	12.7	47.8	289
3/4 x 6	1071235	1071850	2.36	.62	19.1	116	53.1	25.4	16.0	57.4	235
3/4 x 9	1071253	1071878	2.36	.70	19.1	154	53.1	25.4	16.0	57.4	273
3/4 x 12	1071271	1071896	2.36	.78	19.1	192	53.1	25.4	16.0	57.4	311
3/4 x 18	1071299	1071912	2.36	.95	19.1	268	53.1	25.4	16.0	57.4	387
7/8 x 12	1071315	1071930	3.27	1.18	22.2	198	60.5	31.8	19.1	69.9	333
7/8 x 18	1071333	1071958	3.27	1.42	22.2	275	60.5	31.8	19.1	69.9	409
1 x 6	1071351	1071976	4.54	1.43	25.4	129	76.2	36.3	22.4	81.0	279
1 x 12	1071379	1071994	4.54	1.73	25.4	205	76.2	36.3	22.4	81.0	356
1 x 18	1071397	1072010	4.54	2.03	25.4	281	76.2	36.3	22.4	81.0	432
1 x 24	1071413	1072038	4.54	2.34	25.4	357	76.2	36.3	22.4	81.0	508
1-1/4 x 12	1071431	1072056	6.89	3.21	31.8	213	91.2	46.2	28.4	103	411
1-1/4 x 18	1071459	1072074	6.89	3.68	31.8	289	91.2	46.2	28.4	103	487
1-1/4 x 24	1071477	1072092	6.89	4.15	31.8	365	91.2	46.2	28.4	103	564
1-1/2 x 12	1071495	1072118	9.71	4.68	38.1	222	104	53.8	31.8	117	441
1-1/2 x 18	1071510	1072136	9.71	5.37	38.1	298	104	53.8	31.8	117	517
1-1/2 x 24	1071538	1072154	9.71	6.05	38.1	375	104	53.8	31.8	117	594
1-3/4 x 18	1071574	1072190	12.7	7.93	44.5	309	118	60.5	38.1	137	538
1-3/4 x 24	1071592	1072216	12.7	8.85	44.5	385	118	60.5	38.1	137	614
2 x 24	1071618	1072234	16.8	13.1	50.8	396	148	68.3	44.5	157	701
2-1/2 x 24	1071636	1072252	27.2	21.0	63.5	446	165	79.2	50.8	181	752
2-3/4 x 24	1071654	1072270	34.0	27.3	69.9	449	178	82.6	57.2	197	785

\*Mechanically galvanized

### HG-4037 Jaw End Fittings

- Quenched & Tempered or normalized.
- Hot-dip galvanized steel.
- Forged jaw ends are fitted with bolts and nuts on sizes 6 mm through 16 mm, and pins and cotters on sizes 19 mm through 70 mm.
- Modified UNJ thread for improved fatigue properties.
- Fatigue Rated.



**QT** **Fatigue Rated**

### HG-4037 Jaw End Fittings

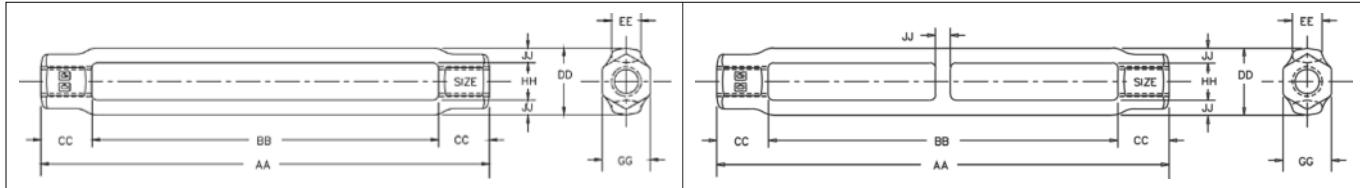
**10**

Shank Dia. & Take Up (in)	RH Jaw Stock No.	LH Jaw Stock No.	Working Load Limit (t)	Weight Each (kg)	Dimensions (mm)										
					A	B	C	D	F	H	I Nom. Min.	L Nom. Min.	Y	MM	OO Bolt Pin
* 1/4 x 4	1072298	1072911	.23	.05	6.35	11.4	23.1	7.62	16.0	65.8	94.5	104	28.7	35.8	6.35
* 5/16 x 4 1/2	1072314	1072939	.36	.08	7.94	12.7	25.9	7.62	17.5	76.2	112	122	35.3	35.8	6.35
* 3/8 x 6	1072332	1072957	.54	.13	9.53	13.5	29.2	9.14	20.6	98.6	134	146	37.3	40.1	7.87
1/2 x 6	1072350	1072975	1.00	.25	12.7	16.3	34.5	10.7	25.4	106	165	180	46.0	47.5	9.40
1/2 x 9	1072378	1072993	1.00	.29	12.7	16.3	34.5	10.7	25.4	145	203	218	46.0	47.5	9.40
1/2 x 12	1072396	1073019	1.00	.33	12.7	16.3	34.5	10.7	25.4	183	242	256	46.0	47.5	9.40
5/8 x 6	1072412	1073037	1.59	.48	15.9	20.1	44.5	14.0	33.3	109	181	201	59.9	62.0	12.7
5/8 x 9	1072430	1073055	1.59	.54	15.9	20.1	44.5	14.0	33.3	148	219	239	59.9	62.0	12.7
5/8 x 12	1072458	1073073	1.59	.59	15.9	20.1	44.5	14.0	33.3	186	257	277	59.9	62.0	12.7
3/4 x 6	1072476	1073091	2.36	.75	19.1	24.6	53.1	17.5	41.4	116	200	225	71.4	65.0	16.0
3/4 x 9	1072494	1073117	2.36	.83	19.1	24.6	53.1	17.5	41.4	154	238	263	71.4	65.0	16.0
3/4 x 12	1072519	1073135	2.36	.92	19.1	24.6	53.1	17.5	41.4	192	276	301	71.4	65.0	16.0
3/4 x 18	1072537	1073153	2.36	1.09	19.1	24.6	53.1	17.5	41.4	268	352	377	71.4	65.0	16.0
7/8 x 12	1072555	1073171	3.27	1.31	22.2	29.5	65.0	20.6	47.8	198	297	325	82.6	78.5	19.1
7/8 x 18	1072573	1073199	3.27	1.47	22.2	29.5	65.0	20.6	47.8	275	373	402	82.6	78.5	19.1
1 x 6	1072591	1073215	4.54	1.61	25.4	34.0	70.1	23.9	53.8	129	237	269	94.7	87.4	22.4
1 x 12	1072617	1073233	4.54	1.91	25.4	34.0	70.1	23.9	53.8	205	314	345	94.7	87.4	22.4
1 x 18	1072635	1073251	4.54	2.22	25.4	34.0	70.1	23.9	53.8	281	390	421	94.7	87.4	22.4
1 x 24	1072653	1073279	4.54	2.52	25.4	34.0	70.1	23.9	53.8	357	466	498	94.7	87.4	22.4
1-1/4 x 12	1072671	1073297	6.89	3.67	31.8	46.7	94.5	30.2	66.8	213	362	401	125	115	28.7
1-1/4 x 18	1072699	1073313	6.89	4.15	31.8	46.7	94.5	30.2	66.8	289	438	477	125	115	28.7
1-1/4 x 24	1072715	1073331	6.89	4.62	31.8	46.7	94.5	30.2	66.8	365	514	553	125	115	28.7
1-1/2 x 12	1072733	1073359	9.71	5.57	38.1	52.3	106	37.3	79.2	222	383	428	134	130	35.1
1-1/2 x 18	1072751	1073377	9.71	6.26	38.1	52.3	106	37.3	79.2	298	459	504	134	130	35.1
1-1/2 x 24	1072779	1073395	9.71	6.94	38.1	52.3	106	37.3	79.2	375	535	580	134	130	35.1
1-3/4 x 18	1072813	1073439	12.7	8.57	44.5	66.0	118	43.7	88.9	309	470	523	159	152	41.4
1-3/4 x 24	1072831	1073457	12.7	9.50	44.5	66.0	118	43.7	88.9	385	546	599	159	152	41.4
2 x 24	1072859	1073475	16.8	16.0	50.8	66.5	142	53.1	106	396	605	670	185	175	50.8
2-1/2 x 24	1072877	1073493	27.2	25.3	63.5	77.7	148	60.5	143	437	650	739	230	191	57.2
2-3/4 x 24	1072895	1073518	34.0	32.8	69.9	93.7	167	73.2	155	441	679	781	243	213	69.9

\*Mechanically galvanized

**HG-2510 Body**

- Heat treat by normalizing.
- Hot-dip Galvanized.
- UNC threads
- Fatigue rated.
- Meets the performance requirements of Federal Specifications FF-T-791b, Type 1, Form 1 - Class 2, except for those provisions required by the contractor.

**HG-2510 Body**
**QT** *Fatigue Rated*

Shank Dia. & Take Up (in)	Stock No.	Working Load Limit (t)	Weight Each (kg)	Dimensions (mm)							
				AA	BB	CC	DD	EE	GG	HH	JJ
* 5/16 x 4-1/2	1033919	.36	.10	142	116	12.7	20.8	9.65	14.2	11.2	4.83
* 3/8 x 6	1033937	.54	.13	185	155	15.0	22.4	9.65	16.0	12.7	4.83
1/2 x 6	1033955	1.00	.32	196	153	21.1	30.2	17.3	20.6	16.0	7.11
† 1/2 x 9	1033973	1.00	.47	280	238	21.1	30.2	17.3	20.6	16.0	7.11
† 1/2 x 12	1033991	1.00	.58	356	314	21.1	30.2	17.3	20.6	16.0	7.11
5/8 x 6	1034017	1.59	.50	204	153	25.1	36.3	21.1	25.4	19.1	8.64
† 5/8 x 9	1034035	1.59	.72	289	239	25.1	36.3	21.1	25.4	19.1	8.64
† 5/8 x 12	1034053	1.59	.89	365	315	25.1	36.3	21.1	25.4	19.1	8.64
3/4 x 6	1034071	2.36	.68	210	156	26.9	44.2	23.9	28.7	23.9	10.2
† 3/4 x 9	1034099	2.36	.98	298	244	26.9	44.2	23.9	28.7	23.9	10.2
† 3/4 x 12	1034115	2.36	1.21	374	320	26.9	44.2	23.9	28.7	23.9	10.2
† 3/4 x 18	1034133	2.36	1.65	525	471	26.9	44.2	23.9	28.7	23.9	10.2
7/8 x 12	1034179	3.27	1.64	371	309	31.2	50.8	28.7	33.3	26.9	11.9
† 7/8 x 18	1034197	3.27	2.39	536	473	31.2	50.8	28.7	33.3	26.9	11.9
1 x 6	1034213	4.54	1.51	229	157	35.8	62.2	31.8	38.1	31.8	15.2
1 x 12	1034231	4.54	2.42	381	309	35.8	62.2	31.8	38.1	31.8	15.2
† 1 x 18	1034259	4.54	3.33	533	462	35.8	62.2	31.8	38.1	31.8	15.2
† 1 x 24	1034277	4.54	4.47	703	631	35.8	62.2	31.8	38.1	31.8	15.2
1-1/4 x 12	1034339	6.89	2.59	391	306	42.4	66.5	31.8	47.8	38.1	14.2
1-1/4 x 18	1034357	6.89	3.44	544	459	42.4	66.5	31.8	47.8	38.1	14.2
† 1-1/4 x 24	1034375	6.89	4.29	710	625	42.4	66.5	31.8	47.8	38.1	14.2
1-1/2 x 12	1034437	9.71	3.63	402	313	44.5	75.9	38.1	57.2	44.5	15.7
1-1/2 x 18	1034455	9.71	4.72	554	465	44.5	75.9	38.1	57.2	44.5	15.7
† 1-1/2 x 24	1034473	9.71	5.85	723	633	44.5	75.9	38.1	57.2	44.5	15.7
1-3/4 x 18	1034552	12.7	7.12	570	467	51.6	91.9	44.5	66.5	53.8	19.1
1-3/4 x 24	1034570	12.7	8.71	722	619	51.6	91.9	44.5	66.5	53.8	19.1
2 x 24	1034632	16.8	11.7	740	622	58.9	105	50.8	76.2	60.5	22.4
2-1/2 x 24	1034678	27.2	25.4	804	625	89.7	143	69.9	98.6	79.3	31.8
2-3/4 x 24	1034696	34.0	24.5	804	626	88.9	143	69.9	98.6	114	31.8

\*Mechanically galvanized

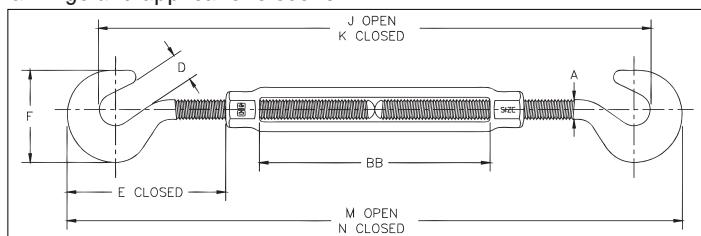
†Contains Center Rib for additional body support



**HG-223**

- End fittings are Quenched & Tempered or normalized, bodies heat-treated by normalizing.
- Hot-dip galvanized steel.
- Hooks are forged with a greater cross sectional area that results in a stronger hook with better fatigue properties.
- TURNBUCKLES RECOMMENDED FOR STRAIGHT OR IN-LINE PULL ONLY.
- Modified UNJ thread on end fittings for improved fatigue properties.
- Body has UNC threads.
- Lock nuts available for all sizes.
- Fatigue rated to 20,000 cycles at 1-1/2 times the Working Load Limit.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these turnbuckles meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.
- Meets the performance requirements of Federal Specifications FF-T-791b, Type 1 Form 1 - CLASS 5, and ASTM F-1145, except for those provisions required of the contractor. For additional information, see warnings and applications section.

**QT** *Fatigue Rated*



**HG-223 Hook & Hook**

Thread Dia. & Take Up (in)	Stock No.	Working Load Limit (t)*	Weight Each (kg)	Dimensions (mm)								
				A	D	E Closed	F	J Open	K Closed	M Open	N Closed	BB
1 x 12	1030333	2.27	6.70	25.4	31.8	167	108	929	637	1019	714	309

5:1 Design Factor. Proof Load is 2.5 times the Working Load Limit.

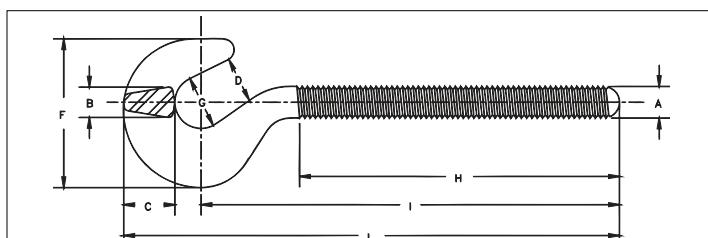
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**HG-4037**

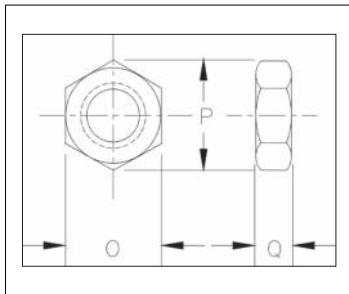
- Quenched & Tempered or normalized.
- Hot-dip galvanized steel.
- Hooks are forged with a greater cross sectional area that results in a stronger hook with better fatigue properties.
- Fatigue rated to 20,000 cycles at 1-1/2 times the Working Load Limit.

**QT** *Fatigue Rated*



**HG-4037 Hook End Fittings**

Shank Dia. & Take Up (in)	RH Hook Stock No.	LH Hook Stock No.	Working Load Limit (t)	Weight Each (kg)	Dimensions (mm)								
					A	B	C	D	F	G	H	I	L
1 x 12	1070334	1070851	2.27	2.14	25.4	25.4	38.9	31.8	108	35.1	205	301	357



### HG-4060 / HG-4061

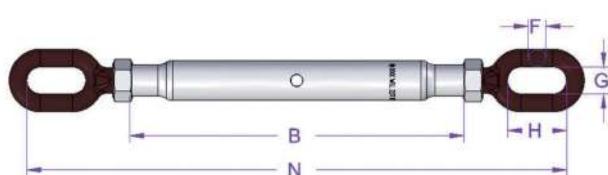
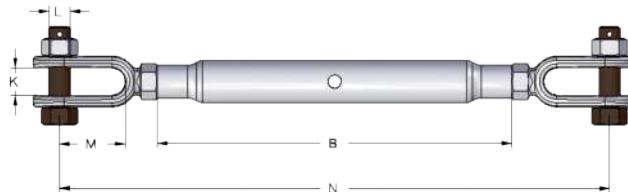
- Secures the turnbuckle into position at final adjustment.

### HG-4060 / HG-4061 Lock Nuts

Shank Diameter (in)	Right Hand HG-4060 Stock No.	Left Hand HG-4061 Stock No.	Weight Per 100 (kg)	Dimensions (mm)		
				O	P	Q
1/4	1075115	1075491	.36	11.2	12.7	4.05
5/16	1075133	1075516	.59	12.7	14.2	4.85
3/8	1075151	1075534	.91	14.2	16.3	5.60
1/2	1075197	1075570	1.81	19.1	21.8	7.85
5/8	1075213	1075598	3.18	23.9	26.9	9.65
3/4	1075231	1075614	4.99	28.7	32.0	10.7
7/8	1075259	1075632	7.39	33.3	38.1	12.2
1	1075277	1075650	10.8	38.1	42.9	14.0
1-1/8	1075295	1075678	14.5	38.1	42.9	14.0
1-1/4	1075311	1075696	28.3	47.8	54.0	18.3
1-1/2	1075357	1075730	32.7	57.0	64.5	21.3
1-3/4	1075393	1075776	51	70.0	81.0	25.4
2	1075419	1075794	68	79.0	91.5	28.4
2-1/2	1075455	1075838	150	98.5	114	38.1
2-3/4	1075473	1075856	193	108	125	41.1

## Alloy Steel Rigging Screw No 801 / 802 / 804 Grade 6

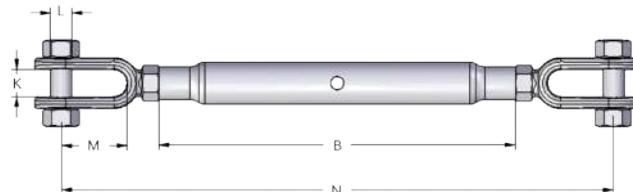
<b>Standard</b>	Working load acc. to US Federal spec. FF-T-791.b. Supplied with closed body from 5,510 - 37,468 lb, larger dimensions open body.
<b>Material:</b>	Quenched & Tempered alloy steel.
<b>Surface treatment</b>	Hot-dip galvanized.
<b>Design Factor</b>	5:1
<b>Certificate:</b>	Test certificate and traceable 3.1 certificate supplied on request.
<b>Tolerances:</b>	+/- 5%
<b>Temperature:</b>	-20°C to 200°C



Stock no. Jaw/Jaw 801	Stock no. Jaw/Eye 802	Stock no. Eye/Eye 804	Thread M/UNC	WLL (t)	Take up range (mm)	Dimensions (mm)								Weight each (kg)
						B	N	K	L	M	F	G	H	
A801420	A802420	A804420	M 20	2.5	210	270	455	20	16	50	13	21	45	2.3
A801424	A802424	A804424	M 24	5.0	250	340	570	28	22	65	19	28	56	4.6
A801432	A802432	A804432	1-1/4	7.0	270	370	680	38	28	85	22	35	70	8.0
A801438	A802438	A804438	1-1/2	10.0	300	400	790	45	32	100	25	40	78	14.0
A801445	A802445	A804445	1-3/4	13.0	360	500	870	50	39	105	30	45	90	24.0
A801450	A802450	A804450	2"	17.0	450	600	1030	58	45	120	35	45	100	38.0
A801464			2-1/2	27.2	534	780	1312	75	57	142				88.0
A801470			2-3/4	34.0	576	780	1418	90	70	145				98.0

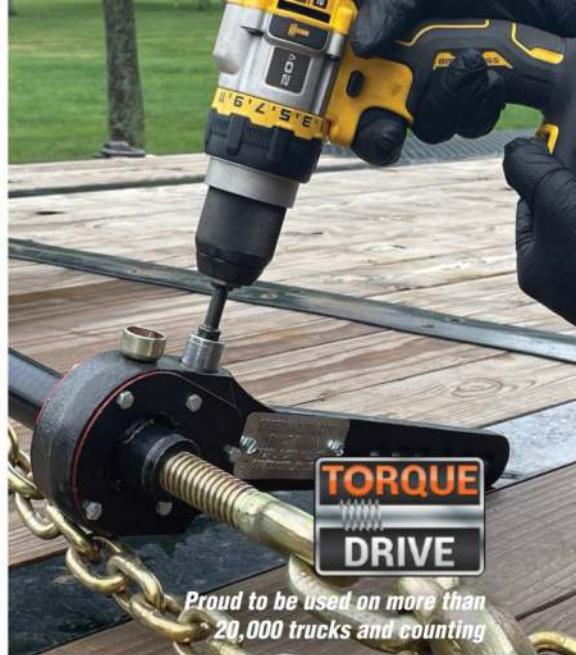
## Rigging Screw No 401 / 402 / 404 - Hot-Dip Galvanized

<b>Design:</b>	Jaw-Jaw (jaw-eye and eye-eye on request)
<b>Standard</b>	According to B.S. 4429, closed body - with locking nut.
<b>Material:</b>	St. 42/St. 52, normalized
<b>Surface treatment</b>	Hot-dip galvanized (M6 & M8 zinc plated).
<b>Design Factor</b>	5:1
<b>Note:</b>	The items marked with * below are not for lifting.
<b>Tolerances:</b>	+/- 5%



Stock no. Jaw/ Jaw 401	Stock no. Jaw/ Eye 402	Stock no. Eye/Eye 404	Thread M/UNC	WLL (t)	Take up range (mm)	Dimensions (mm)								Weight each (kg)
						B	N	L	M	K	F	G	H	
A401510	*A402410	*A404410	M 10	0.5	90	145	225	8	20	9.5	7	13	13	0.3
A401512	*A402412	*A404412	M 12	0.7	155	195	315	10	30	13	10	14	28	0.65
A401516	*A402416	*A404416	M 16	1.2	185	230	380	12	44	18	12	18	45	1.25
A401520	A402420	A404520	M 20	1.5	210	270	450	16	50	20	13	21	45	2.2
A401422	A402422	A404422	M 22	2.2	230	295	500	20	60	25	16	24	50	3.3
A401424	A402424	A404424	M 24	3.2	250	325	555	22	65	28	19	28	56	4.6
A401432	A402432	A404432	1-1/4	4.8	290	370	680	28	85	38	22	35	70	8.5
A401438	A402438	A404438	1-1/2	6.0	300	400	760	32	100	45	25	40	90	14.5
A401445	A402450	A404445	1-3/4	8.5	290	400	760	38	105	50	30	45	90	20.9
A401452	A402452	A404452	2"	11.0	290	400	820	45	120	58	35	45	100	24.0

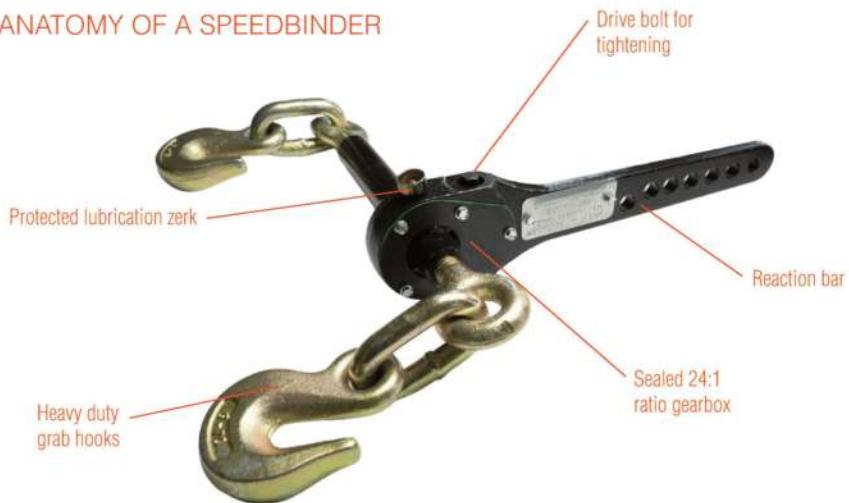
\* Will not be delivered with lifting certificate.



## EFFICIENT & ERGONOMIC LOAD SECUREMENT TECHNOLOGY

Speedbinders is changing the load binder industry with patented **Torque Drive** technology. Our line of products provide considerable time savings and enhanced safety benefits for drivers by eliminating repetitive, straining operations. Torque Drive binders are revolutionizing load securement. By adopting the practice of using portable power drill to secure loads and pull the chain tight, you can alleviate shoulder strain, reduce injuries, and allow for easier operation and reduced operation time.

### ANATOMY OF A SPEEDBINDER



- ENHANCED SAFETY FEATURES
- MORE ERGONOMIC
- QUICKER TIE-DOWN & RELEASE TIMES
- LONGER LASTING
- HIGHEST TENSION
- EASY TO OPERATE IN TIGHT SPOTS
- UNMATCHED TENSION RETENTION
- TAMPER-RESISTANT

### PRODUCT RANGE



#### TD66BL

Color marking: Blue  
WLL: 2,994 kg  
Chain size: 8mm-10mm  
Proof tested to: 5,987 kg  
Design factor: 3:1  
Common applications:  
Light equipment transport,  
Logging



#### TD92RL

Color marking: Red  
WLL: 4,173 kg  
Chain size: 10mm-13mm  
Proof tested to: 8,347 kg  
Design factor: 3:1  
Common applications:  
Equipment transport,  
Heavy towing,  
Steel coil transport



#### TD13GLHH

Color marking: Green  
WLL: 5897 kg  
Chain size: 13mm-16mm  
Proof tested to: 11,794 kg  
Design factor: 3:1  
Common applications:  
Equipment transport,  
Heavy hauling,  
Steel coil transport



# LIFTING POINTS

A wide range of high-quality lifting points for every application.

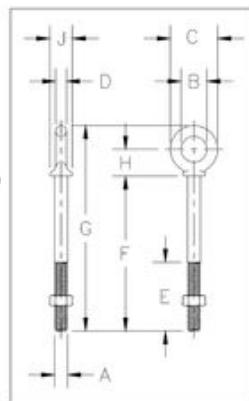


theCrosbygroup®

[thecrosbygroup.com](http://thecrosbygroup.com)



- Forged steel, Quenched & Tempered.
- Fatigue rated at 1-1/2 times the Working Load Limit at 20,000 cycles.
- Working Load Limits shown are for in-line pull. For angle loading, see warnings and application section.
- Meets or exceeds all requirements of ASME B30.26, including identification, ductility, design factor, proof load, and temperature requirements. Importantly, these bolts meet other critical performance requirements, including fatigue life, impact properties, and material traceability not addressed by ASME B30.26.
- All bolts hot-dip Galvanized after threading (UNC).
- Furnished with standard hot-dip Galvanized, heavy hex nuts.



### G-277 Shoulder Nut Eye Bolts

Shank Diameter & Length (mm)	Stock No.	Working Load Limit (t)	Weight Per 100 (kg)	Dimensions (mm)							
				A	B	C	D	E	F	G	H
7.94 x 57.0	1045050	.54	5.67	7.85	15.7	28.4	6.35	38.1	57.0	89.0	17.5
7.94 x 108	1045078	.54	8.53	7.85	15.7	28.4	6.35	63.5	108	140	17.5
9.53 x 63.5	1045096	.70	9.71	9.65	19.1	35.1	7.85	38.1	63.5	101	19.8
9.53 x 114	1045112	.70	11.5	9.65	19.1	35.1	7.85	63.5	114	152	19.8
12.7 x 82.5	1045130	1.18	19.3	12.7	25.4	44.5	9.65	38.1	82.5	130	25.4
12.7 x 152	1045158	1.18	25.8	12.7	25.4	44.5	9.65	76.0	152	200	25.4
15.9 x 102	1045176	2.35	31.1	15.7	31.8	57.0	12.7	51.0	102	164	33.3
15.9 x 152	1045194	2.35	46.4	15.7	31.8	57.0	12.7	76.0	152	214	33.3
19.1 x 114	1045210	3.26	66	19.1	38.1	70.0	15.7	51.0	114	189	39.6
19.1 x 152	1045238	3.26	76	19.1	38.1	70.0	15.7	76.0	152	227	39.6
22.2 x 127	1045256	4.80	102	22.4	44.5	82.5	19.1	63.5	127	215	46.7
25.4 x 152	1045292	6.03	166	25.4	51.0	95.5	22.4	76.0	152	253	53.0
25.4 x 229	1045318	6.03	192	25.4	51.0	95.5	22.4	102	229	329	53.0
31.8 x 203	1045336	9.52	295	31.8	63.5	114	25.4	102	203	323	62.5
31.8 x 305	1045354	9.52	361	31.8	63.5	114	25.4	102	305	425	62.5
38.1 x 381	1045372	10.8	646	38.1	76.0	140	31.8	152	381	527	76.0

5:1 Design Factor. Maximum Proof Load is 2 times the Working Load Limit.

Fellows Beam

QT

CE

APPLICATION AND WARNING INFORMATION SECTION 17

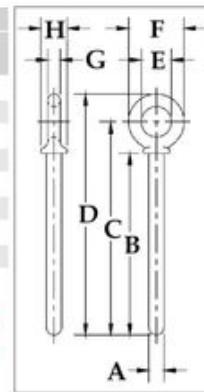


- Forged steel - Quenched & Tempered.

Shank Dia. & Length (mm)	Stock No.	Weight Per 100 (kg)	Dimensions (mm)							
			A	B	C	D	E	F	G	H
12.7 x 82.5	1045862	15.0	12.7	82.5	108	130	25.4	44.5	9.65	23.1
19.1 x 114	1045942	57	19.1	114	154	189	38.1	70.0	15.7	35.1
19.1 x 152	1045960	68	19.1	152	192	227	38.1	70.0	15.7	35.1
22.2 x 127	1045988	91	22.4	127	174	215	44.5	82.5	19.1	39.6
25.4 x 152	1046022	135	25.4	152	205	253	51.0	95.5	22.4	46.0
25.4 x 229	1046040	193	25.4	229	282	329	51.0	95.5	22.4	46.0
31.8 x 203	1046068	297	31.8	203	266	323	63.5	114	25.4	58.0
31.8 x 305	1046086	323	31.8	305	368	425	63.5	114	25.4	58.0
38.1 x 381	1046102	646	38.1	381	457	527	76.0	140	31.8	70.0

QUIC-CHECK®

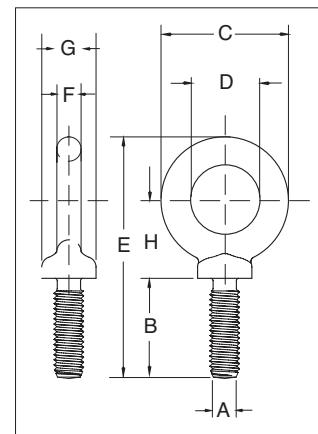
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### S-279 / M-279



- Forged steel - Quenched & Tempered.
- Working Load Limits shown are for in-line pull. For angle loading, see Warnings & Applications.
- Fatigue rated at 1-1/2 times the Working Load Limit at 20,000 cycles.
- Recommended for in-line pull.
- S-279 threaded UNC.
- M-279 metric threaded.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these bolts meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.



### S-279 UNC Shoulder Type Machinery Eye Bolts

Size (mm)	Stock No.	Working Load Limit (t)	Weight Each (kg)	Dimensions (mm)							
				A* Thread	B	C	D	E	F	G	H
6.35 x 25.4	9900182	.29	.02	1/4 - 20	25.9	28.7	19.1	58.0	4.85	13.5	19.6
7.94 x 28.6	9900191	.54	.04	5/16 - 18	29.2	35.1	22.4	69.5	6.35	15.0	24.1
9.53 x 31.8	9900208	.70	.06	3/8 - 16	32.3	41.1	25.4	78.0	7.85	17.5	26.7
12.7 x 38.1	9900217	1.18	.12	1/2 - 13	38.9	49.5	30.2	94.0	9.65	23.1	32.3
15.9 x 44.5	9900226	2.35	.24	5/8 - 11	45.5	60.5	35.1	113	12.7	28.7	38.9
19.1 x 51.0	9900235	3.26	.43	3/4 - 10	52.0	70.0	38.1	129	16.0	35.1	43.4
22.2 x 57.0	9900244	4.80	.70	7/8 - 9	58.5	82.5	44.5	149	19.1	39.6	50.8
25.4 x 63.5	9900253	6.03	1.1	1 - 8	65.5	95.5	51.0	169	22.4	46.0	58.4
28.5 x 70.0	9900257	6.80	1.5	1-1/8 - 7	69.8	107	57.1	183	24.6	52.3	59.7
31.8 x 76.0	9900262	9.52	1.8	1-1/4 - 7	78.5	114	63.5	202	25.4	58.0	69.3
38.1 x 89.0	9900271	10.8	3.2	1-1/2 - 6	91.5	140	76.0	241	31.8	70.0	83.3
44.5 x 95.0	9900280	15.4	4.7	1-3/4 - 5	95.2	159	88.9	266	35.0	76.2	91.4
51 x 102	9900289	19.0	8.6	2 - 4-1/2	102	194	101	313	46.0	85.9	114
63.5 x 127	9900298	29.5	14.5	2-1/2 - 4	127	223	114	378	53.8	108	140

5:1 Design Factor. Maximum Proof Load is 2 times the Working Load Limit. \*All bolts threaded UNC.

Fatigue Rated



QUIC-CHECK®

APPLICATION AND WARNING INFORMATION SECTION 17

11

### M-279 Metric Shoulder Type Machinery Eye Bolts

Size (mm)	Stock No.	Working Load Limit (t)	Weight Each (kg)	Dimensions (mm)							
				A* Thread	B	C	D	E	F	G	H
M6 x 13	1045753	.20	.03	M6 x 1.0	13.0	28.7	19.1	47.0	4.9	13.5	19.6
M8 x 13	1045789	.40	.05	M8 x 1.25	13.0	35.1	22.4	54.6	6.4	15.0	24.1
M10 x 17	1045833	.64	.07	M10 x 1.5	17.0	41.1	25.4	64.3	7.9	17.5	26.5
M12 x 20.5	1045869	1.0	.11	M12 x 1.75	20.5	49.5	30.2	77.7	9.7	23.1	32.8
M16 x 27	1045913	1.8	.25	M16 x 2.0	27.0	60.5	35.1	96.0	12.7	28.7	38.9
M20 x 30	1045995	2.5	.42	M20 x 2.5	30.0	70.0	38.1	108	16.0	35.1	43.4
M24 x 36	1046029	4.0	1.05	M24 x 3.0	36.0	95.5	51.0	142	22.4	46.0	58.4
M27 x 69.8	1046038	5.0	1.42	M27 x 3.0	69.8	107	57.1	183	24.6	52.3	59.7
M30 x 45	1046075	6.0	1.77	M30 x 3.5	45.0	114	63.5	171	25.4	58.0	69.3
M36 x 54	1046109	8.5	3.12	M36 x 4.0	54.0	140	76.0	207	31.8	70.0	83.3
M42 x 95.2	1046118	14.0	4.58	M42 x 4.5	95.2	159	88.9	266	35.0	76.2	91.4
M48 x 102	1046127	17.3	8.71	M48 x 5.0	102	194	101	313	46.0	85.9	114
M64 x 127	1046136	29.5	14.74	M64 x 6.0	127	223	114	378	53.8	108	140

5:1 Design Factor. Maximum Proof Load is 2 times the Working Load Limit.

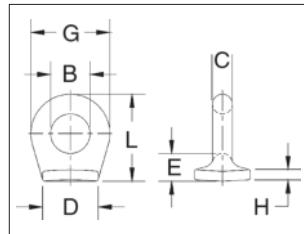


## S-264



- Forged steel - Quenched & Tempered.
- Forged from 1035 carbon steel.
- Excellent welding qualities.
- Widely used on farm machinery, trucks, steel hulled marine vessels and material handling equipment.
- Reference American Welding Society specifications for proper welding procedures.

**QT**



## S-264 Pad Eyes

Size No.	Stock No.	Weight Per 100 (kg)	Dimensions (mm)					
			B	C	D	E	G	H
* 0	1090722	1.27	6.35	4.85	16.0	7.85	16.0	2.30
* 1	1090740	2.95	9.65	6.35	22.4	10.4	22.4	3.30
* 1-1/2	1090768	4.72	16.0	6.35	25.4	11.2	28.7	4.05
2	1090786	9.57	19.1	9.65	26.9	12.7	38.1	4.85
4	1090802	23.7	25.4	14.2	36.6	19.8	54.0	5.60
5	1090820	37.4	31.8	17.5	44.5	20.6	67.0	6.35
								70.0

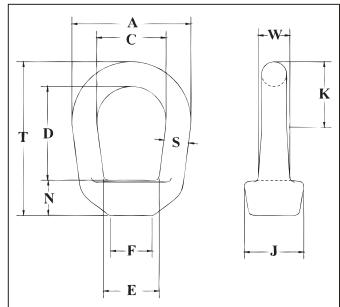
\*Meets the requirements of Military Specification MS-51930A.

## G-400



- Forged steel - Quenched & Tempered.
- Hot-dip Galvanized
- Tapped with standard UNC class 2 threads after galvanizing.
- Also available in blank (as forged) item (S-4028).
- Meets or exceeds all requirements of ASME B30.26.

**QT**



## G-400 Eye Nuts

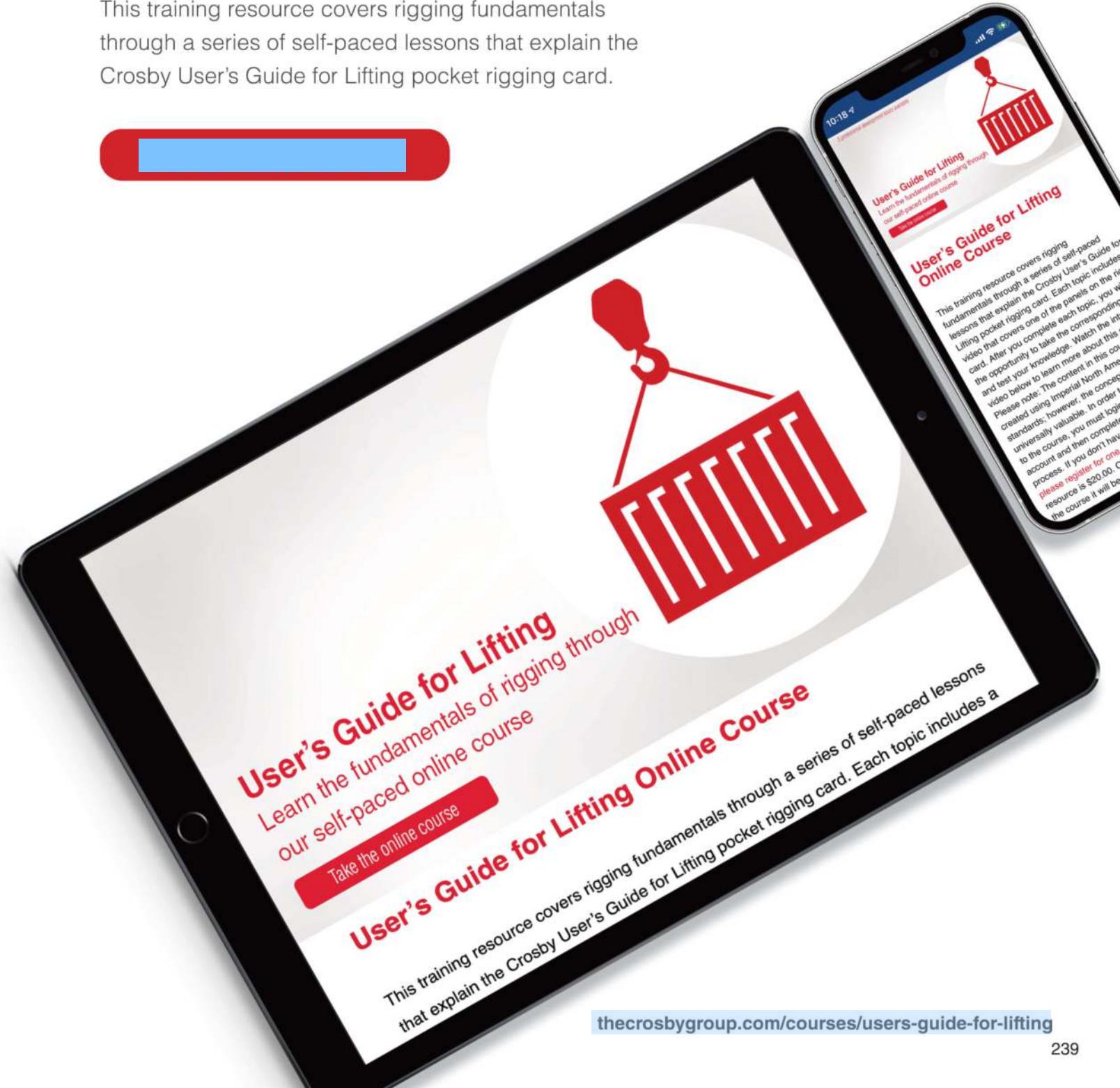
Size No.	"S"	Stock Size (mm)	Stock No.	Std. Tap Size (in)	Working Load Limit (t)	Weight Each (kg)	Dimensions (mm)								
							A	C	D	E	F	J	K	N	T
1	6.35	1090438	1/4	.24	.04	31.8	19.1	25.4	19.1	12.7	17.5	16.0	9.65	43.7	7.85
2	7.85	1090474	3/8	.57	.08	41.1	25.4	30.5	21.1	14.2	20.6	22.6	12.7	53	10.4
3A	9.65	1090517	1/2	1.02	.13	51.0	31.8	36.6	27.4	20.6	25.4	27.7	15.7	63.5	12.7
4	12.7	1090535	5/8	1.63	.27	63.5	38.1	48.8	34.3	25.4	33.3	33.3	17.5	82.5	17.5
5	16	1090553	3/4	2.36	.45	76.0	44.5	60.5	40.4	28.4	38.1	39.9	22.4	98.8	21.3
6	19.1	1090571	7/8	3.27	.75	89.0	51.0	66.8	49.8	35.1	47.8	45.0	23.9	110	25.4
7	22.4	1090599	1	4.54	1.22	102	57.0	77.7	56.0	39.6	54.0	51.5	27.2	127	30.2
8	25.4	1090633	1-1/4	7.03	1.98	114	63.5	88.9	62.5	47.8	60.5	57.5	31.8	147	35.1
9	28.7	1090651	1-3/8	8.39	2.27	127	70.0	102	68.5	51.0	65.0	64.5	35.1	165	38.1
10	31.8	1090679	1-1/2	10.21	3.08	143	79.0	109	78.5	57.0	76.0	71.5	38.1	179	42.2
11	38.1	1090697	2	18.14	6.62	181	104	157	104	79.5	95.5	93.5	52.3	252	49.3

5:1 Design Factor. Working Load Limit shown is for In-Line pull. Rating based on standard tap size.



# User's Guide for Lifting Online Course

This training resource covers rigging fundamentals through a series of self-paced lessons that explain the Crosby User's Guide for Lifting pocket rigging card.



# Swivel Hoist Ring



**HR-125M**  
Swivel Hoist Ring



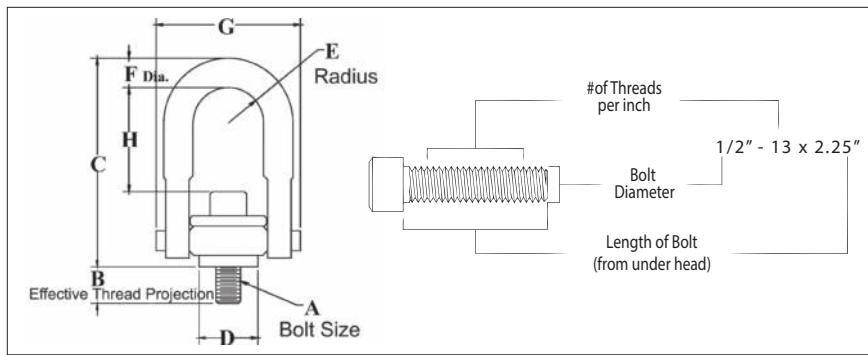
**HR-125**  
Swivel Hoist Ring

Color coded to distinguish between UNC (Red) and Metric (Silver) thread types.

- Available in UNC and Metric thread sizes.
- UNC threads available in sizes from 800 pounds to 100,000 pounds Working Load Limit, with a design factor of 5 to 1.
- Metric threads available in sizes from 400kg to 16,900kg and dual rated in both a 4 to 1 and 5 to 1 design factor.
- All components are alloy steel - Quenched & Tempered.
- Designed to be used at full WLL within angular loading range.
- 100% individually proof tested to 2.5 times the Working Load Limit with certification and Statistically Magnetic Particle inspected. (Can be furnished 100% Magnetic Particle inspected when requested at time of order.)
- Each product has a Product Identification Code (PIC) for material traceability along with a Working Load Limit and the name Crosby or "CG" stamped into it.
- 360° swivel and 180° pivot action.
- Fatigue rated to 20,000 cycles at 1.5 times the Working Load Limit.
- Individually packaged along with proper application instructions and warning information.
- Bolt is secured with E-clip, threads are grooved. This method allows for easy disassembly and assembly of hoist ring for thorough examination of all components. Replacement kits are available.
- Bolts are individually Proof Tested.
- Multiple bolt length available to meet specific application requirements.
- Zinc plated (yellow chromate) finish for increased corrosion protection.
- Meets or exceeds all the requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these hoist rings meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.

**Load Rated™** **Fatigue Rated™** **QT**

### HR-125



- Top washer has the following features:
  - The Working Load Limit and recommended torque value are permanently stamped into each washer.
  - Washer is color-coded for easy identification: Red - UNC thread.
- Individually Proof Tested to 2-1/2 times Working Load Limit.
- Bolt specification is an alloy socket head cap screw to ASTM A 574.
- All threads listed are UNC.
- **BOLT SIZE IDENTIFICATION:** The size of the bolt will be stated as in the drawing above. Illustration shows meaning of each dimension given.

### HR-125 UNC Threads

Frame Size No.	Stock No.	Working Load Limit (kg)	Torque (Nm)	Bolt Size A (in)	Dimensions (mm)								Weight Each (kg)
					Effective Thread Projection Length B	C	D	Radius E	Diameter F	G	H		
1 †	1016887	363	10	5/16 - 18 x 1.50	14.7	69.1	24.6	11.7	8.60	47.5	28.4	.17	
1 †	1016898	454	16	3/8 - 16 x 1.50	14.7	69.1	24.6	11.7	8.60	47.5	26.7	.18	
2	1016909	1134	38	1/2 - 13 x 2.00	17.8	123	49.8	22.1	19.0	85.1	58.2	1.06	
2 †	1016912	1134	38	1/2 - 13 x 2.50	30.5	123	49.8	22.1	19.0	85.1	58.2	1.07	
2	1016920	1814	81	5/8 - 11 x 2.00	17.8	123	49.8	22.1	19.0	85.1	54.9	1.09	
2 †	1016924	1814	81	5/8 - 11 x 2.75	36.8	123	49.8	22.1	19.0	85.1	54.9	1.12	
2	1016931	2268	136	3/4 - 10 x 2.25	24.1	123	49.8	22.1	19.0	85.1	51.8	1.14	
2 †	1016935	2268	136	3/4 - 10 x 2.75	36.8	123	49.8	22.1	19.0	85.1	51.8	1.17	
3	1016942	3175*	136	3/4 - 10 x 2.75	22.6	167	75.2	34.5	23.9	124	75.4	3.05	
3 †	1016946	3175*	136	3/4 - 10 x 3.50	41.7	167	75.2	34.5	23.9	124	75.4	3.09	
3	1016953	3629	217	7/8 - 9 x 2.75	22.6	167	75.2	34.5	23.9	124	72.1	3.10	
3 †	1016957	3629	217	7/8 - 9 x 3.50	41.7	167	75.2	34.5	23.9	124	72.1	3.16	
3	1016964	4536	312	1 - 8 x 3.00	29.0	167	75.2	34.5	23.9	124	69.1	3.22	
3 †	1016969	4536	312	1 - 8 x 4.00	54.4	167	75.2	34.5	23.9	124	69.1	3.32	
4	1016975	6804	637	1-1/4 - 7 x 4.50	56.1	221	94.2	44.5	30.2	157	99.8	6.58	
5	1016986	10890	1085	1-1/2 - 6 x 6.75	3.0	315	120	60.7	44.5	215	143	17.1	
5	1016997	13610	1491	2 - 4-1/2 x 6.75	3.0	315	120	60.7	44.5	215	131	18.5	
6	1017001	22680	2847	2-1/2 - 4 x 8.0	102	429	146	76.2	57.2	279	204	39.9	
7	1017005	34020	5830	3 - 4 x 10.5	127	495	184	95.3	69.9	360	216	75.3	
8	1017009	45360	6915	3-1/2 - 4 x 13.0 #	178	561	197	102	82.6	404	236	120	

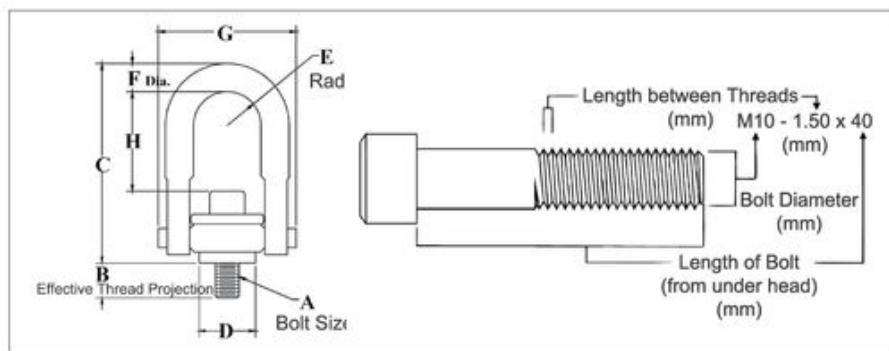
5:1 Design Factor. \*4:1 Design Factor when tested in 90 degree orientation. †Long Bolts are designed to be used with soft metal (i.e., aluminum) workpiece. While the long bolts may also be used with ferrous metal (i.e., steel & iron) workpiece, short bolts are designed for ferrous workpieces only. Hex head bolt used on Frame 8 (100,000 lb) Hoist Ring.

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Load Rated

Fatigue Rated

APPLICATION AND WARNING INFORMATION SECTION 17

**HR-125M**

- Top washer has the following features:
  - The Working Load Limit and recommended torque value are permanently stamped into each washer.
  - Washer is color-coded for easy identification: Silver - Metric thread.
- Individually Proof Tested to 2-1/2 times Working Load Limit.
- Bolt specification is a Grade 12.9 alloy socket head cap screw to DIN 912. All threads listed are metric (ASME B18.3.1m).
- Designed to be used with ferrous workpiece only.
- **BOLT SIZE IDENTIFICATION:** The size of the bolt will be stated as in the drawing above. Illustration shows meaning of each dimension given.

**HR-125M Metric Threads**

Frame Size No.	Stock No.	Working Load Limit (kg)		Torque (Nm)	Bolt Size A	Effective Thread Projection Length B	Dimensions (mm)						Weight Each (kg)
		5:1 Design Factor †	4:1 Design Factor †				C	D	Radius E	Diameter F	G	H	
1	1016602	400	500	10	M8X1.25X40	16.9	69.9	24.6	11.8	8.5	47.5	29.9	.17
1	1016613	450	550	16	M10X1.50X40	16.9	69.9	24.6	11.8	8.5	47.5	28.1	.18
2	1016624	1050	1300	38	M12X1.75X50	16.9	123	49.8	22.3	17.5	85.1	60.4	1.05
2	1016635	1900	2400	81	M16X2.00X60	26.9	123	49.8	22.3	17.5	85.1	56.3	1.11
2	1016644	2150	2700	136	M20X2.50X65	31.9	123	49.8	22.3	17.5	85.1	52.3	1.17
3	1016657	3000	3750	136	M20X2.50X75	27.8	167	75.2	34.7	25.4	124	76.6	3.09
3	1016668	4200	5250	312	M24X3.00X80	32.8	167	75.2	34.7	25.4	124	70.5	3.21
4	1016679	7000	8750	637	M30X3.50X120	61.7	222	94.2	44.5	30.5	157	102	6.53
5	1016690	11000	13750	1005	M36X4.00X150	54.0	318	120	60.7	44.5	215	142	16.8
5	1016701	12500	15600	1005	M42X4.50X160	64.0	318	120	60.7	44.5	215	136	17.4
5	1016712	13500	16900	1350	M48X5.00X160	74.0	318	120	60.7	44.5	215	130	18.0

† Individually proof loaded to 2-1/2 times the Working Load Limit based on the 4:1 design factor.

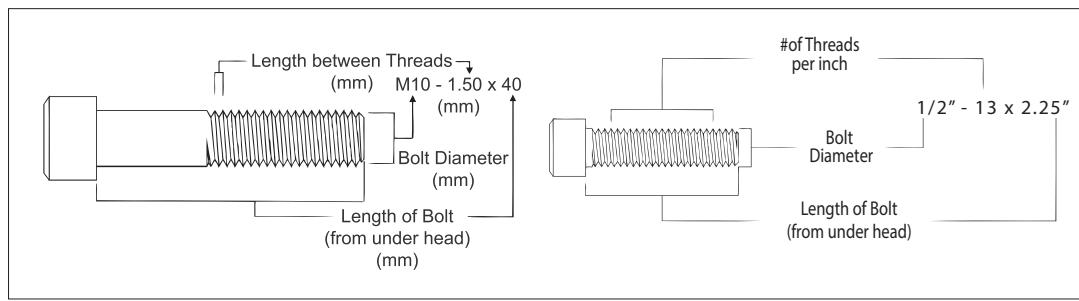
Load Rated

Fatigue Rated

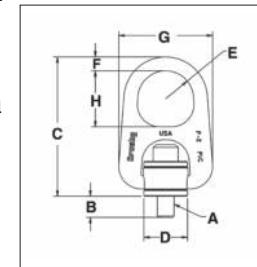
CE

APPLICATION AND WARNING INFORMATION  
SECTION 17

### HR-1000



- Forged bail provides the following:
  - Easily readable raised lettering showing the name Crosby or "CG" and PIC for material traceability.
  - Greater durability providing the increased "Toughness" desired in potentially abusive field conditions.
  - Larger opening than standard hoist ring bail.
- Top washer is color-coded for easy identification (Red for UNC threads and Silver for Metric threads)
- The Working Load Limit and Recommended Torque value are permanently stamped into each washer.
- Individually Proof Tested to 2-1/2 times Working Load Limit.
- Available in both UNC thread and Metric thread style.
- UNC bolt specification is an alloy socket head cap screw to ASTM A 574. Metric bolt specification is a Grade 12.9 alloy socket head cap screw to DIN 912.
- BOLT SIZE IDENTIFICATION:** The size of the bolt will be stated as in the drawing. Illustration shows meaning of each dimension given.



### HR-1000 UNC Threads

Frame Size No.	Stock No.	Working Load Limit (kg)	Torque (Nm)	Bolt Size A (in)	Eff. Thread Projection Length B	Dimensions (mm)						Weight Each (kg)
						C	D	E	F	G	H	
1	1068002	363	10	5/16 - 18 x 1.50	13.2	93.7	24.6	15.7	11.2	57.7	35.1	.27
1	1068006	454	16	3/8 - 16 x 1.50	13.2	93.7	24.6	15.7	11.2	57.7	35.1	.28
2	1068010	1134	38	1/2 - 13 x 2.25	17.5	159	49.8	31.8	.75	107	63.5	1.38
2†	1068014	1134	38	1/2 - 13 x 2.75	30.2	159	49.8	31.8	.75	107	63.5	1.39
2	1068018	1814	81	5/8 - 11 x 2.25	17.5	159	49.8	31.8	.75	107	63.5	1.41
2†	1068022	1814	81	5/8 - 11 x 3.00	36.6	159	49.8	31.8	.75	107	63.5	1.44
2	1068026	2268	136	3/4 - 10 x 2.50	23.9	159	49.8	31.8	.75	107	63.5	1.47
2†	1068030	2268	136	3/4 - 10 x 3.00	36.6	159	49.8	31.8	.75	107	63.5	1.50
3	1068034	3175*	136	3/4 - 10 x 3.00	21.6	220	75.2	41.4	25.4	159	82.6	4.58
3†	1068038	3175*	136	3/4 - 10 x 3.50	34.3	220	75.2	41.4	25.4	159	82.6	4.63
3	1068042	3629	217	7/8 - 9 x 3.00	21.6	220	75.2	41.4	25.4	158	82.6	4.63
3†	1068046	3629	217	7/8 - 9 x 3.50	34.3	220	75.2	41.4	25.4	158	82.6	4.71
3	1068050	4536	312	1 - 8 x 3.50	34.3	220	75.2	41.4	25.4	158	82.6	4.76
3†	1068054	4536	312	1 - 8 x 4.50	59.7	220	75.2	41.4	25.4	158	82.6	4.86
4	1068058	6804	637	1-1/4 - 7 x 5.00	53.1	285	94.2	50.8	31.8	199	102	9.93
4	1068062	10890	1085	1-1/2 - 6 x 5.50	65.8	285	94.2	50.8	36.6	199	102	10.4

5:1 Design Factor. \*4.5:1 Design Factor when tested in 90 degree orientation. †Long Bolts are designed to be used with soft metal (i.e., aluminum) workpiece.

### HR-1000M Metric Threads

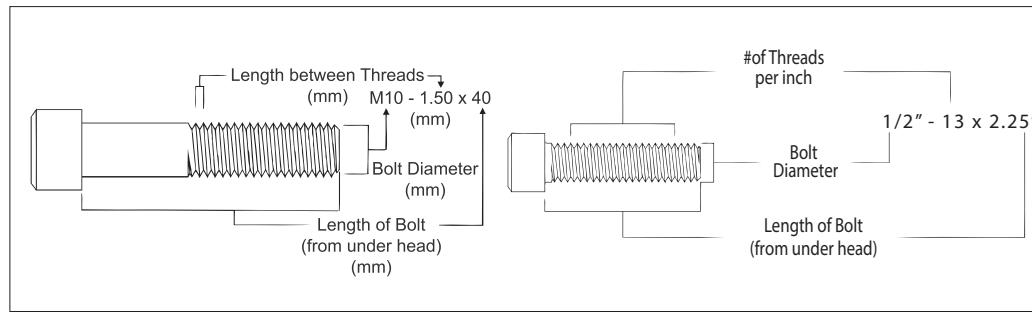
Frame Size No.	Stock No.	Working Load Limit (kg)		Torque Nm	Bolt Size A	Eff. Thread Projection Length B	Dimensions (mm)						Weight Each (kg)
		5:1 Design Factor*	4:1 Design Factor*				C	D	E	F	G	H	
1	1068307	400	500	10	M8 x 1.25 x 40	15.2	93.7	24.6	15.7	11.2	57.7	35.1	0.3
1	1068316	450	550	16	M10 x 1.50 x 40	15.2	93.7	24.6	15.7	11.2	57.7	35.1	0.3
2	1068325	1050	1300	38	M12 x 1.75 x 55	15.5	162	49.8	31.8	19.1	107	63.5	1.5
2	1068334	1900	2400	81	M16 x 2.00 x 65	25.5	162	49.8	31.8	19.1	107	63.5	1.5
2	1068343	2150	2700	136	M20 x 2.50 x 70	30.5	162	49.8	31.8	19.1	107	63.5	1.6
3	1068352	3000	3750	136	M20 x 2.50 x 80	25.4	220	75.2	41.4	25.4	159	82.6	4.6
3	1068361	4200	5250	312	M24 x 3.00 x 90	35.4	220	75.2	41.4	25.4	159	82.6	4.8
4	1068370	7000	8750	637	M30 x 3.50 x 140	66.2	285	94.2	50.8	31.8	199	102	9.7
4	1068389	11000	13750	1005	M36 x 4.00 x 130	56.2	285	94.2	50.8	31.8	199	102	10.2

\*Individually proof loaded to 2-1/2 times the Working Load Limit based on the 4:1 Design Factor.

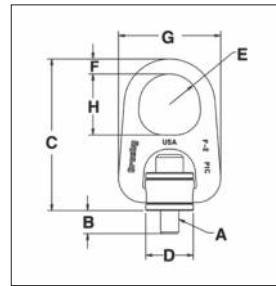
Load Rated

Fatigue Rated

APPLICATION AND WARNING INFORMATION SECTION 17

**HR-1000CT**

- All load bearing components are heat treated, Quenched & Tempered alloy steel.
- All components, with the exception of the retaining ring, are produced with maximum material hardness of 34 HRc.
- All primary load-bearing components have Charpy impact testing. The body, bushing, washer and bail meet impact requirements of 42-joule min. avg. at -20°C. The bolt meets impact requirements of 27-joule min. avg. at -100°C.
- Individually magnetic particle inspected with certification.
- Forged bail provides the following:
  - Easily readable raised lettering showing the name Crosby or "CG" and PIC for material traceability.
  - Greater durability providing the increased toughness desired in potentially abusive field conditions.
  - Larger opening than standard hoist ring bail.
- Bolt specification is an alloy socket head cap screw to ASTM A320 Grade L7 or L43.
- Top washer is color-coded for easy identification (blue for UN threads and grey for Metric threads).
- The Working Load Limit and recommended torque value are permanently stamped into each washer.
- Individually Proof Tested to 2 times Working Load Limit (90° and in-line).
- **BOLT SIZE IDENTIFICATION:** The size of the bolt will be stated as in the drawing above. Illustration shows meaning of each dimension given.
- Type approval and certification in accordance with DNV Offshore Standard DNV-OS-E101, Drilling Plant, Standard for Certification DNVGL-ST-0378, Lifting Appliances, and DNVGL-SI-0166.
- Individually serialized.
- 100% MPI all primary load bearing components.
- Coating: Thermo-diffusion galvanized.
- Optional bolt sizes available upon request.

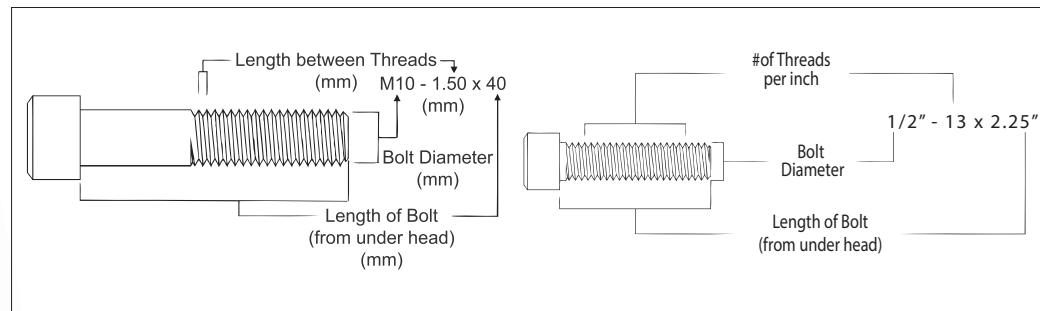
**HR-1000CT UNC Threads**

Frame Size No.	Stock No.	Working Load Limit (kg)	Torque (Nm)	Bolt Size A (in)	Dimensions (mm)							
					Effective Thread Projection Length B	C	D	Radius E	Diameter F	G	H	Mass Each (kg)
2	6608103	862	38	1/2 - 13 x 2.25	17.8	161	49.8	31.8	19.1	107	63.5	3
2	6608112	862	38	1/2 - 13 x 2.75	30.5	161	49.8	31.8	19.1	107	63.5	3
2	6608121	1361	81	5/8 - 11 x 2.25	17.8	161	49.8	31.8	19.1	107	63.5	3
3	6608130	2177	136	3/4 - 10 x 3.00	21.6	218	75.2	41.4	25.4	159	82.6	11
3	6608139	2812	217	7/8 - 9 x 3.00	21.6	218	75.2	41.4	25.4	159	82.6	11
3	6608148	3765	312	1 - 8 x 3.50	34.3	218	75.2	41.4	25.4	159	82.6	11
4	6608149	5670	637	1-1/4 - 7 x 5.00	53.3	287	94.2	50.8	36.6	207	102	24
4	6607669	9072	1085	1-1/2 - 6 x 5.50	66.0	287	94.2	50.8	36.6	207	102	27
4	6607727	9072	1085	1-1/2 - 8 x 5.50	66.0	287	94.2	50.8	36.6	207	102	27
5	6607670	12701	1491	2 - 4.5 x 7.50	81.3	385	102	68.3	44.5	296	127	69
6	6607671	20412	2847	2 1/2 - 4 x 9.50	94.7	506	146	76.2	69.9	368	143	157

5:1 Design Factor.

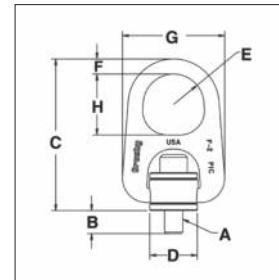
**Load Rated****Fatigue Rated**APPLICATION AND WARNING INFORMATION  
SECTION 17

### HR-1000MCT



- All load bearing components are heat treated, Quenched & Tempered alloy steel.
- All components, with the exception of the retaining ring, are produced with maximum material hardness of 34 HRc.
- All primary load-bearing components have Charpy impact testing. The body, bushing, washer and bail meet impact requirements of 42-joule min. avg. at -20°C. The bolt meets impact requirements of 27-joule min. avg. at -100°C.
- Individually magnetic particle inspected with certification.
- Forged bail provides the following:
  - Easily readable raised lettering showing the name Crosby or "CG" and PIC Code for material traceability.
  - Greater durability providing the increased toughness desired in potentially abusive field conditions.
  - Larger opening than standard hoist ring bail.
- Bolt specification is an alloy socket head cap screw to ASTM A320 Grade L7 or L43.
- Top washer is color-coded for easy identification (blue for UN threads and grey for Metric threads).
- The Working Load Limit and recommended torque value are permanently stamped into each washer.
- Individually Proof Tested to 2 times Working Load Limit (90° and in-line).
- BOLT SIZE IDENTIFICATION: The size of the bolt will be stated as in the drawing above. Illustration shows meaning of each dimension given.
- Type approval and certification in accordance with DNV Offshore Standard DNV-OS-E101, Drilling Plant, Standard for Certification DNVGL-ST-0378, Lifting Appliances, and DNVGL-SI-0166.
- Individually serialized.
- 100% MPI all primary load bearing components.
- Coating: Thermo-diffusion galvanized.
- Optional bolt sizes available upon request.

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### HR-1000MCT Metric Threads

Frame Size No.	Stock No.	Working Load Limit (kg)			Torque (Nm)	Bolt Size A	Eff. Thread Projection Length B	Dimensions (mm)						Mass Each (kg)
		Design Factor 5:1	Design Factor 4:1					C	D	Radius E	Diameter F	G	H	
2	6630058	825	1,030	38	M12 x 1.75 x 55	15.6	160.6	49.7	31.8	19.1	106.7	63.5	1	
2	6630059	1,350	1,690	81	M16 x 2.00 x 65	25.5	160.6	49.7	31.8	19.1	106.7	63.5	1	
3	6630060	2,250	2,810	136	M20 x 2.50 x 80	25.3	218.2	75.1	41.4	25.4	158.8	82.6	5	
3	6630061	3,175	3,970	312	M24 x 3.00 x 90	35.4	218.2	75.1	41.4	25.4	158.8	82.6	5	
4	6630062	5,450	6,810	637	M30 x 3.50 x 140	65.9	287.3	94.1	50.8	36.6	206.5	101.6	11	
4	6630063	7,450	9,310	1,005	M36 x 4.00 x 130	56.3	287.3	94.1	50.8	36.6	206.5	101.6	12	
5	6630064	13,250	16,560	1,350	M48 x 5.00 x 180	70.7	384.9	101.6	68.3	44.5	295.6	127.0	30	

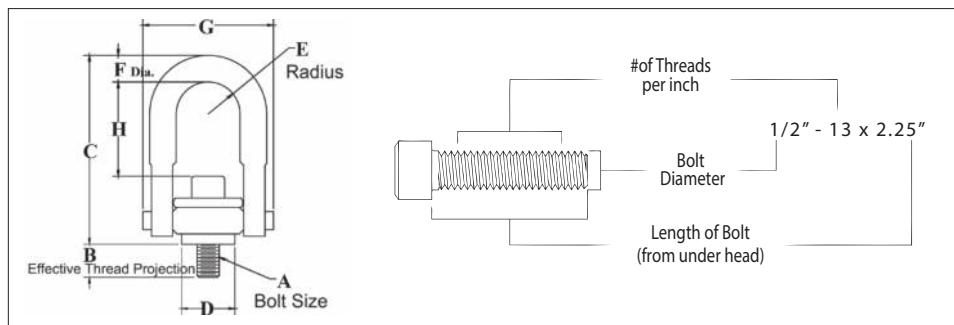
5:1 Design Factor.

Load Rated

Fatigue Rated

APPLICATION AND WARNING INFORMATION  
SECTION 17

## SS-125UNC



- All components are 316 stainless steel, except bolt retainers, which are made from 15-7 PH (UNS 15700) magnetic stainless steel.
- Rated at 100 percent at 90 degree angle.
- Each product has a Product Identification Code (PIC) for material traceability, along with the Working Load Limit and the name Crosby or "CG" stamped into it.
- Individually proof tested to 2 times the Working Load Limit with certification.
- Fatigue Rated to 20,000 cycles at 1-1/2 times the Working Load Limit.
- Washer is color-coded for easy identification (Red - UNC thread).
- Bolt specification is 316 stainless steel socket head cap screw to ASTM F837 Group 1 (316).
- **BOLT SIZE IDENTIFICATION:** The size of the bolt will be stated as in the drawing above. Illustration shows meaning of each dimension given.

## SS-125UNC Threads

Frame Size No.	Stock No.	Working Load Limit (kg)	Torque (ft-lb)	Bolt Size A (in)	Dimensions (in)								Weight Each (lb))
					Effective Thread Projection Length B	C	D	Radius E	Diameter F	G	H		
1	1065000	181	4.7	5/16 - 18 x 1.0	.29	2.67	.71	.43	.34	1.84	1.27	.30	
1	1065004	181	4.7	5/16 - 18 x 1.25	.54	2.67	.71	.43	.34	1.84	1.27	.30	
1	1065008	227	8	3/8 - 16 x 1.25	.54	2.67	.71	.43	.34	1.84	1.27	.30	
2	1065016	567	19	1/2 - 13 x 2.0	.78	4.78	1.45	.88	.69	3.52	2.31	2.6	
2	1065020	567	19	1/2 - 13 x 2.25	1.03	4.78	1.45	.88	.69	3.52	2.31	2.6	
2	1065024	567	19	1/2 - 13 x 2.5	1.28	4.78	1.45	.88	.69	3.52	2.31	2.6	
2	1065028	907	41	5/8 - 11 x 2.0	.78	4.78	1.45	.88	.69	3.52	2.18	2.6	
2	1065032	907	41	5/8 - 11 x 2.25	1.03	4.78	1.45	.88	.69	3.52	2.18	2.6	
2	1065036	907	41	5/8 - 11 x 2.5	1.28	4.78	1.45	.88	.69	3.52	2.18	2.6	
2	1065040	1134	68	3/4 - 10 x 2.25	1.03	4.78	1.45	.88	.69	3.52	2.06	3.0	
2	1065044	1134	68	3/4 - 10 x 2.75	1.53	4.78	1.45	.88	.69	3.52	2.06	3.0	
3	1065048	1588	68	3/4 - 10 x 2.75	1.04	6.52	2.20	1.40	.94	5.14	3.06	7.0	
3	1065052	1588	68	3/4 - 10 x 3.25	1.54	6.52	2.20	1.40	.94	5.14	3.06	7.0	
3	1065056	1814	108	7/8 - 9 x 2.75	1.04	6.52	2.20	1.40	.94	5.14	2.93	7.0	
3	1065060	1814	108	7/8 - 9 x 3.0	1.29	6.52	2.20	1.40	.94	5.14	2.93	7.0	
3	1065064		115	1 - 8 x 3.0	1.29	6.52	2.20	1.40	.94	5.14	2.81	7.5	
3	1065068	2268	156	1 - 8 x 3.25	1.54	6.52	2.20	1.40	.94	5.14	2.81	7.5	
3	1065072	2268	156	1 - 8 x 4.0	2.29	6.52	2.20	1.40	.94	5.14	2.81	7.5	
4	1065080	2268	156	1-1/4 - 7 x 4.0	1.89	8.73	3.19	1.75	1.25	6.50	4.12	14.0	
5	1065084	3402	319	1-1/2 - 6 x 5.5	2.70	12.47	4.87	2.25	1.75	8.55	6.41	34.0	
5	1065088	5443	542	2 - 4.5 x 5.75	2.96	12.47	4.87	2.25	1.75	8.55	5.91	36.0	
6	1065092	6804	746	2-1/2 - 4 x 8.0	4.00	16.87	6.52	3.00	2.25	11.67	8.03	88.0	
6	1065096	11340	1424	2-1/2 - 8 x 8.0	4.00	16.87	6.52	3.00	2.25	11.67	8.03	88.0	
7	1065100	11340	1424	3 - 4 x 10.25	5.00	19.50	8.10	3.75	2.75	14.15	8.48	166.0	
8	1065104	17010	2915	3-1/2 - 4 x 13	7.00	22.09	8.60	4.00	3.25	15.90	9.28	265.0	

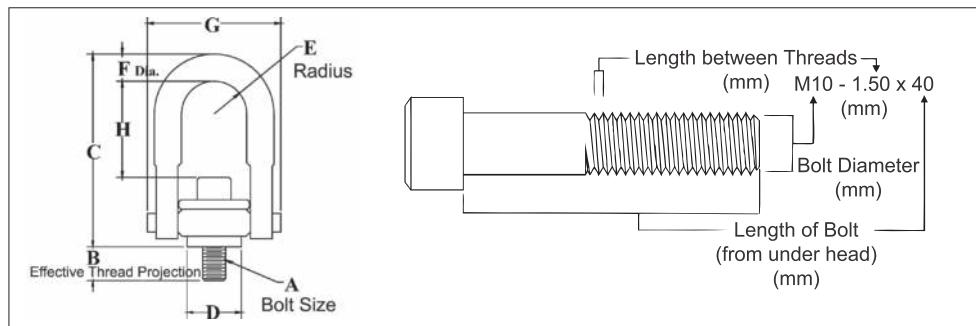
5:1 Design Factor.

Load Rated

Fatigue Rated

APPLICATION AND WARNING INFORMATION  
SECTION 17

### SS-125M



- All components are 316 stainless steel, except bolt retainers, which are made from 15-7 PH (UNS 15700) magnetic stainless steel.
- Rated at 100 percent at 90 degree angle.
- Each product has a Product Identification Code (PIC) for material traceability, along with the Working Load Limit and the name Crosby or "CG" stamped into it.
- Individually proof tested to 2 times the Working Load Limit with certification.
- Fatigue Rated to 20,000 cycles at 1-1/2 times the Working Load Limit.
- Washer is color-coded for easy identification (Silver - Metric thread)).
- Bolt specification is 316 stainless steel socket head cap screw to ASTM F 837M (316).
- BOLT SIZE IDENTIFICATION: The size of the bolt will be stated as in the drawing above. Illustration shows meaning of each dimension given.

### SS-125M Metric Threads

Frame Size No.	Stock No.	Working Load Limit (kg)	Torque (Nm)	Dimensions (mm)								Weight Each (kg)
				Bolt Size A	Effective Thread Projection Length B	C	D	Radius E	Diameter F	G	H	
1	1065203	200	4	M8 x 1.25	13	68	21.6	11	8.5	47	32	.17
1	1065207	250	8	M10 x 1.50	18	68	21.6	11	8.5	47	30	.17
2	1065211	525	18	M12 x 1.75	19	121	37	22	17.5	89	60	1.1
2	1065215	950	40	M16 x 2.00	29	121	37	22	17.5	89	56	1.1
2	1065219	1075	68	M20 x 2.50	34	121	37	22	17.5	89	52	1.2
3	1065223	1500	68	M20 x 2.50	32	166	56	36	25	131	78	3.0
3	1065227	2100	108	M24 x 3.00	37	166	56	36	25	131	74	3.1
3	1065231	2100	108	M30 x 3.50	58	206	56	36	25	131	108	3.1
4	1065235	3500	318	M30 x 3.50	42	222	81	45	31	165	106	6.3
4	1065239	3500	318	M30 x 3.50	62	222	81	45	31	165	106	6.4
5	1065243	5500	542	M36 x 4.00	64	317	124	57	43	217	166	15.5
5	1065247	6250	542	M42 x 4.50	82	317	124	57	43	217	160	16.0
5	1065251	6750	542	M48 x 5.00	82	317	124	57	43	217	154	16.8
6	1065255	11150	1423	M64 x 6.00	101	428	165	76	56	296	204	39.0
7	1065259	15750	2915	M72 x 6.00	132	495	206	95	69	359	220	74.0
8	1065263	22300	3459	M90 x 6.00	177	561	216	102	83	404	235	118.0

5:1 Design Factor

11

Load Rated

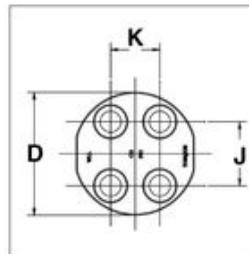
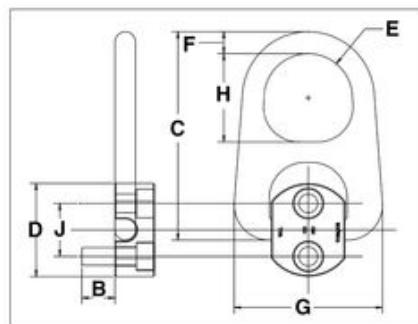
Fatigue Rated

APPLICATION AND WARNING INFORMATION  
SECTION 17

## HR-100UNC



- Forged bail provides the following:
  - Easily readable raised lettering showing the name Crosby or "CG" and PIC for material traceability.
  - More durability provides the increased toughness desired in potentially abusive field conditions.
  - Larger opening than standard hoist ring bails.
- 180 degree pivot action at full capacity.
- Bolts included as part of assembly.
- Individually Proof Tested to 2-1/2 times Working Load Limit.
- UNC Bolt specification is a Grade 8 alloy socket head cap screw to ASTM A574.



## HR-100 Pivot Hoist Rings Coil Threads

Frame Size No.	Stock No.	Working Load Limit (kg)	Torque (Nm)	No. of Bolts	Weight Each (kg)	Bolt Size A (in)	Dimensions (mm)								
							Effective Thread Projection Length B	C	Diameter D	Radius E	F	G	H	J	K
1	1067408	907	10	2	.30	5/16 - 18 x 1.50	20.8	87.1	50.8	15.7	11.2	57.7	35.1	25.4	-
2	1067417	1134	16	2	1.40	3/8 - 16 x 1.50	16.5	153	57.2	31.8	19.1	107	63.5	28.6	-
2	1067426	2268	38	2	1.50	1/2 - 13 x 2.25	35.6	153	66.8	31.8	19.1	107	63.5	38.1	-
3	1067435	5443	38	4	4.80	1/2 - 13 x 2.75	41.9	210	79.5	41.4	25.4	159	82.6	41.3	31.8
4	1067444	9072	81	4	10.0	5/8 - 11 x 2.25	41.9	270	114	50.8	31.8	199	102	52.4	31.8

5:1 Design Factor

Load Rated

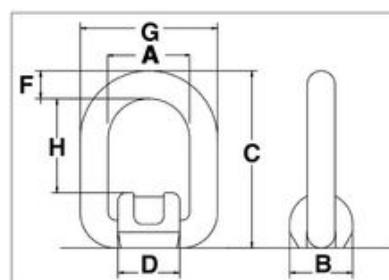
CE

APPLICATION AND WARNING INFORMATION SECTION 17

## S-265



- Widely used on farm machinery, trucks, steel hulled marine vessels and material handling equipment.
- Forged link and bracket — Quenched & Tempered.
- Excellent welding qualities.
- Reference American Welding Society specifications for proper welding procedures.



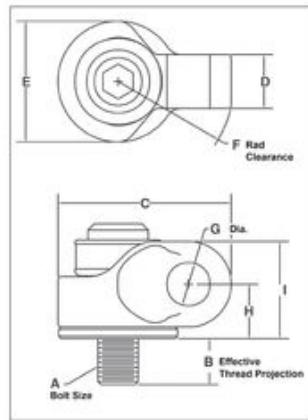
## S-265 Forged Link

Working Load Limit (t)		Stock No.	Weight Each (kg)	Dimensions (mm)							Minimum Fillet Weld Size (mm)
Design Factor 5:1	Design Factor 4:1			A	B	C	D	F	G	H	
1.0	1.2	1290839	0.40	40	36	83	35	13	66	42	3
2.5	3.2	1290848	0.60	45	44	99	42	18	81	48	3
4.2	5.3	1290857	1.20	55	50	123	49	22	99	57	6
6.4	8	12908266	2.40	70	64	144	64	26	122	67	6
12.0	15	1290875	5.90	97	90	193	86	34	165	94	8

### HR-1200



- Body components are alloy steel - Quenched & Tempered.
- Rated at 100% of Working Load Limit for angles up to 90 degrees.
- Each product is stamped with a Product Identification Code (PIC) for material traceability, along with a Working Load Limit, and the name Crosby or "CG."
- Hoist ring body is furnished with a yellow chromate finish for improved corrosion resistance.
- Utilize standard Crosby Red Pin® Shackles to connect to wire rope or synthetic slings (sold separately).
- Multiple bolt lengths available to meet specific application requirements.
- Individually Proof Tested to 2-1/2 times Working Load Limit.



### HR-1200 UNC Side Pull Hoist Rings

Weight Each (kg)	Working Load Limit (kg)	Stock No.	Hoist Ring Bolt Torque (Nm)	Bolt Size A (in)	Eff. Thread Proj. (mm)	Dimensions (mm)						Recommended Shackles				
												Shackles 209, 210, 213, 215, 2130, 2150		Web Shackles S-281		
						C	D	E	F	Dia. G	H	I	Nominal Size (in)	WLL (t)	Web Size (mm)	WLL (t)
.16	290	1067700	10	5/16-18x1.50	15.0	49.0	18.3	25.4	39.6	20.3	21.6	36.3	1/2, 5/8	2, 3-1/4	50	2.95
.16	360	1067704	16	3/8-16x1.50	15.0	49.0	18.3	25.4	39.6	20.3	21.6	36.3	1/2, 5/8	2, 3-1/4	50	2.95
.64	900	1067708	38	1/2-13x2.00	18.0	75.4	24.6	50.8	54.1	23.6	27.2	45.5	5/8, 3/4	3-1/4, 4-3/4	50, 35	2.95, 4.08
.64	900	1067712	38	1/2-13x2.50	30.7	75.4	24.6	50.8	54.1	23.6	27.2	45.5	5/8, 3/4	3-1/4, 4-3/4	50, 35	2.95, 4.08
.68	1360	1067716	81	5/8-11x2.00	18.0	75.4	24.6	50.8	54.1	23.6	27.2	45.5	5/8, 3/4	3-1/4, 4-3/4	50, 35	2.95, 4.08
.68	1360	1067720	81	5/8-11x2.75	37.1	75.4	24.6	50.8	54.1	23.6	27.2	45.5	5/8, 3/4	3-1/4, 4-3/4	50, 35	2.95, 4.08
2.04	2260	1067724	136	3/4-10x2.75	22.9	110	34.0	76.2	76.2	27.2	34.3	61.5	7/8	6-1/2	50	5.67
2.09	2260	1067728	136	3/4-10x3.50	41.9	110	34.0	76.2	76.2	27.2	34.3	61.5	7/8	6-1/2	50	5.67
2.09	2940	1067732	217	7/8-9x2.75	22.9	110	34.0	76.2	76.2	27.2	34.3	61.5	7/8	6-1/2	50	5.67
2.18	2940	1067736	217	7/8-9x3.50	41.9	110	34.0	76.2	76.2	27.2	34.3	61.5	7/8	6-1/2	50	5.67
2.18	3620	1067740	312	1-8x3.00	29.2	110	34.0	76.2	76.2	27.2	34.3	61.5	7/8	6-1/2	50	5.67
2.27	3620	1067744	312	1-8x4.00	54.6	110	34.0	76.2	76.2	27.2	34.3	61.5	7/8	6-1/2	50	5.67
4.63	6350	1067748	637	1-1/4-7x4.5	56.4	142	39.9	95.3	99.3	37.3	48.8	86.9	1, 1-1/8, 1-1/4	8-1/2, 9-1/2, 12	75	7.70
10.7	7800	1067756	1085	1-1/2-6x6.5	75.7	186	52.3	121	132	53.6	61.2	109	1-3/8, 1-1/2, 1-3/4	13-1/2, 17, 25	-	-
11.5	13150	1067764	1491	2-4.5x6.5	75.7	186	52.3	121	132	53.6	61.2	109	1-3/8, 1-1/2, 1-3/4	13-1/2, 17, 25	-	-

5:1 Design Factor.

### HR-1200M Metric Side Pull Hoist Rings

Weight Each (kg)	Working Load Limit (kg)	Stock No.	Hoist Ring Bolt Torque (Nm)	Bolt Size A (mm)	Eff. Thread Proj. (mm)	Dimensions (mm)						Recommended Shackles				
												Shackles 209, 210, 213, 215, 2130, 2150		Web Shackles S-281		
						C	D	E	F	G	H	I	Nominal Size (in)	WLL (t)	Web Size (mm)	WLL (t)
.18	300	1067803	10	M8x1.25x40	16.9	49.0	18.3	25.4	39.6	20.3	21.6	36.3	1/2, 5/8	2, 3-1/4	50	2.95
.18	400	1067807	16	M10x1.50x40	16.9	49.0	18.3	25.4	39.6	20.3	21.6	36.3	1/2, 5/8	2, 3-1/4	50	2.95
.63	1000	1067811	38	M12x1.75x50	17.2	75.4	24.6	50.8	54.1	23.6	27.2	45.5	5/8, 3/4	3-1/4, 4-3/4	50, 35	2.95, 4.08
.68	1400	1067815	81	M16x2.0x60	27.2	75.4	24.6	50.8	54.1	23.6	27.2	45.5	5/8, 3/4	3-1/4, 4-3/4	50, 35	2.95, 4.08
2.0	2250	1067823	136	M20x2.5x75	28.1	110	34.0	76.2	76.2	27.2	34.4	61.5	7/8	6-1/2	50	5.67
2.2	3500	1067827	312	M24x3.0x80	33.1	110	34.0	76.2	76.2	27.2	34.4	61.5	7/8	6-1/2	50	5.67
4.5	6250	1067831	637	M30x3.5x120	65.1	142	39.9	95.3	99.3	37.3	48.8	86.9	1, 1-1/8, 1-1/4	8-1/2, 9-1/2, 12	75	7.70
10.4	7750	1067835	1005	M36x4.0x150	60.6	186	52.3	121	132	53.6	61.2	109	1-3/8, 1-1/2, 1-3/4	13-1/2, 17, 25	-	-
10.7	10000	1067839	1005	M42x4.5x160	70.6	186	52.3	121	132	53.6	61.2	109	1-3/8, 1-1/2, 1-3/4	13-1/2, 17, 25	-	-
11.0	13000	1067843	1350	M48x5.0x160	70.6	186	52.3	121	132	53.6	61.2	109	1-3/8, 1-1/2, 1-3/4	13-1/2, 17, 25	-	-

5:1 Design Factor.

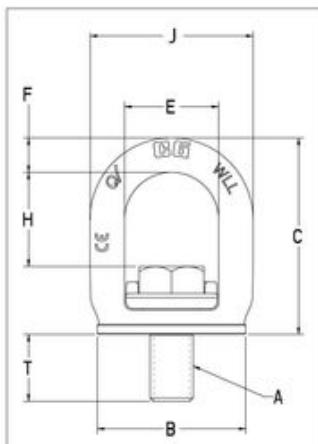
Load Rated

CE

APPLICATION AND WARNING INFORMATION  
SECTION 17

**SL-150**

- When compared to respective size eye bolts, the Crosby SL-150 Slide-Loc™ has a larger eye opening for easy access.
- Bail is forged alloy steel – Quenched & Tempered.
- Bail swivels 360° degrees to keep the load aligned with the sling leg.
- Rated at 100% for 90 degree angle.
- Fatigue rated to 20,000 cycles at 1-1/2 times the Working Load Limit.
- Meets the Machinery Directive 2006/42/EC guidelines and is marked with CE accordingly.
- Bolt specification for metric bolt is Grade 10.9 alloy cap screw to ISO 898-1.
- Unique locking mechanism makes the lifting point well suited for quick attachment to load surface. No need for tools.
- Features QUIC-CHECK® markings on bail to assist in knowing when device is ready for lifting.



APPLICATION AND WARNING INFORMATION SECTION 17

**SL-150 UNC SLIDE-LOC™ LIFT POINT**

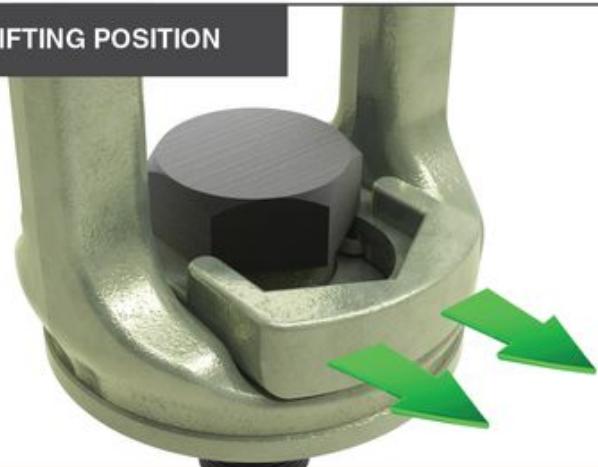
Weight Each (kg)	Stock No.	Working Load Limit (t)*	Bolt Size A (in)	Dimensions (mm)						Effective Thread Projection Length T
				B	C	E	F	H	J	
0.14	1068407	0.50	3/8 - 16 x 1	35.6	53.1	27.9	8.4	28.2	45.0	15.2
0.24	1068416	0.75	1/2 - 13 x 1 - 1/4	42.4	62.7	33.0	10.4	33.0	54.1	20.1
0.50	1068425	1.50	5/8 - 11 x 1 - 5/8	55.1	75.7	37.1	13.2	37.1	63.5	25.7
0.93	1068434	2.30	3/4 - 10 x 2	68.8	91.2	43.7	16.0	43.7	75.7	32.0
0.98	1068443	2.30	7/8 - 9 x 2	68.8	91.7	43.7	16.0	43.7	75.7	31.2
1.69	1068452	3.20	1 - 8 x 2 - 1/2	82.6	110.0	52.8	19.3	49.0	91.2	40.4

4:1 Design Factor.

**SL-150 METRIC SLIDE-LOC™ LIFT POINT**

Weight Each (kg)	Stock No.	Working Load Limit (t)*	Dimensions (mm)						Effective Thread Projection Length T	
			Bolt Size A	B	C	E	F	H		
0.14	1068515	0.50	M10X1.5 X 25	35.5	53.0	28.0	8.5	27.8	45.0	14.6
0.23	1068524	0.75	M12x1.75x30	42.5	62.6	33.0	10.5	32.9	54.0	18.3
0.50	1068533	1.50	M16x2x40	55.0	75.7	37.0	13.2	37.0	63.4	24.5
0.94	1068542	2.30	M20x2.5x50	68.8	91.1	43.9	16.0	43.6	75.6	31.0
1.60	1068551	3.20	M24x3x60	82.5	110.0	52.8	19.2	52.8	91.2	37.0

4:1 Design Factor.

**INSTALLATION POSITION****LIFTING POSITION**

The visible red QUIC-CHECK® mark indicates that the Crosby Slide-Loc™ is ready for installation but not for lifting.



When the red QUIC-CHECK® mark is under the slide, the Crosby Slide-Loc™ is ready for lifting.

# The Lifting Point Family

We offer a wide range of lifting points that will fit most lifting and lashing applications. In our lifting point family you will find a full system, from master link to lifting point.

Choosing the right lifting point for your operation can be tricky, most lifting points can be used for a lot of purposes. But in order to give some guidance, and what we consider best practice, we have created a cross-chart (as seen on next page) to be used as indication to which lifting point that might be best suited for your specific purpose.

## Rotating Eye Lifting Point - RELP

The RELP is a compact and robust lifting point, ideal for top-mounting and when it is important to have quick and easy on-hooking. The lifting point is easy to assemble/disassemble with a standard allen key. On the bolt itself information such as the working load limit, mounting torque and manufacturing ID is stamped, so it is always available for the operator.

The RELP will automatically adjust to the loading direction which decreases the risk to load it incorrectly and endangering the lifting operation. For sensitive load surfaces the RELP is ideal, as the connecting sling hook will be positioned mainly parallel to the load surface, thus completely avoiding the hook causing damage on impact on the load. CE marked.



## Rotating Lifting Point - RLP

The RLP has an easily dismountable D-ring to enable assembly of wiresling, master link or hook directly onto the lifting point.

RLP has a hexagon bolt (RFID prepared) to make it easy to disassemble/assemble with a wrench. The bolt is also clearly marked with information such as working load limit, mounting torque and manufacturer ID so it is always available to the operator. The RLP rotates 360° and pivots 180°, making it strong, flexible and reliable. CE marked.



## De-centered Lifting Point - DLP

The design of the DLP allows the link to be folded over the housing when idle, allowing the lifting point to be almost completely stowed away when not in use.

The closed, oblong link is also equipped with a "stay-up"-function for easy on-hooking, (sizes up to M24) especially when there is limited space. This saves both the load from damage due to impacts from the hook, as well as making rigging fast and easy. The DLP is ideal in narrow spaces, such as corners or edge position, as the housing has a compact design.

DLP has a hexagon bolt (RFID prepared) to make it easy to disassemble/assemble with a wrench. The bolt is also clearly marked with information such as working load limit, mounting torque and manufacturer ID so it is always available to the operator. CE marked.



## Ball-bearing Lifting Point - BLP

The BLP is a very versatile lifting point and can safely be used for most applications. The ball-bearings in the BLP allow the load to be rotated during the lift, which is especially good when maintenance is needed on heavy tools and other types of equipment.

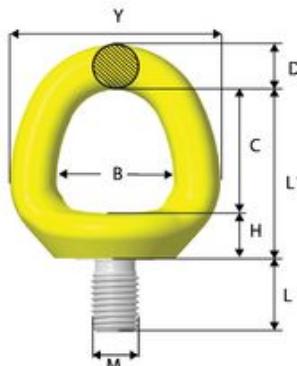
If the load surface is sensitive to impacts or scratches, the BLP is a good choice as it builds out from the load which makes it less likely that the lifting equipment will come in contact with it causing damage. The housing (RFID prepared) of the BLP is in-house drop-forged for increased strength and has a hexagon shape for easy mounting and dismounting. The housing is also clearly marked with information such as working load limit, mounting torque and manufacturer ID so it is always available to the operator. CE marked.





	RELP	RLP	DLP	BLP
Tight space	✓		✓	✓
Limited height (effective length)	✓	✓		
Vertical lift	✓	✓		✓
Angular lift		✓	✓	✓
Vertical rotation under load				✓
Tilting under load		✓	✓	✓
Sensitive load surface				✓
Single part lift	✓	✓		✓
Multiple part lift		✓	✓	✓
Integrated combination (hook or link)		✓		
RFID prepared		✓	✓	✓

This chart is intended to give guidance in choosing the right lifting point for your operation and is not rules for usage.  
For more advice contact your closest Gunnebo Industries dealer.



## Rotating Eye Lifting Point RELP

Stock No.	Code	Dimensions (mm)										Weight (kg)
		B	C	D	E	H	L	L1	M	Y	Z	
Z102408	RELP-M8 x 1.25	28	28	11	40	14	15	42	8	50	29	0.2
Z102410	RELP-M10 x 1.5	28	28	11	40	14	15	42	10	50	29	0.2
Z102412	RELP-M12 x 1.75	32	33	13	46	13	20	47	12	58	38	0.3
Z102416	RELP-M16 x 2	39	41	15	53	16	24	57	16	70	40	0.5
Z102420	RELP-M20 x 2.5	42	43	16	60	18	30	60	20	78	46	0.7
Z102424	RELP-M24 x 3	50	51	19	68	20	36	71	24	88	44	1.1
Z102430	RELP-M30 x 3.5	60	62	26	85	28	45	90	30	112	64	2.4
Z102436	RELP-M36 x 4	72	72	32	97	32	54	104	36	136	74	4.1
Z102442	RELP-M42 x 4.5	82	82	38	120	37	63	119	42	158	91	6.7
Z102448	RELP-M48 x 5	94	96	43	142	39	72	135	48	180	102	9.9

Bolt according to: ISO 898-1 Class 10.9

## RELP with UNC thread



Stock No.	Code	Dimensions (mm)										M (in)	Weight (kg)
		B	C	D	E	H	L	L1	Y	Z			
Z102508	RELP 5/16"-18 UNC	28	28	11	40	14	15	42	50	29	5/16"	0.2	
Z102510	RELP 3/8"-16 UNC	28	28	11	40	14	15	42	50	29	3/8"	0.2	
Z102512	RELP 1/2"-13 UNC	32	33	13	46	13	20	47	58	38	1/2"	0.3	
Z102516	RELP 5/8"-11 UNC	39	41	15	53	16	24	57	70	40	5/8"	0.5	
Z102520	RELP 3/4"-10 UNC	42	43	16	60	18	30	60	78	46	3/4"	0.7	
Z102521	RELP 7/8"-9 UNC	42	43	16	60	18	30	60	78	46	7/8"	0.7	
Z102524	RELP 1"-8 UNC	50	51	19	68	20	36	71	88	44	1"	1.1	
Z102530	RELP 1 1/4"-7 UNC	60	62	26	85	28	45	90	112	64	1 1/4"	2.4	
Z102536	RELP 1 1/2"-6 UNC	72	72	32	97	32	54	104	136	74	1 1/2"	4.1	
Z102542	RELP 1 3/4"-5 UNC	82	82	38	120	37	63	119	158	91	1 3/4"	6.8	
Z102548	RELP 2"-4.5 UNC	94	96	43	142	39	72	135	180	102	2"	10.0	

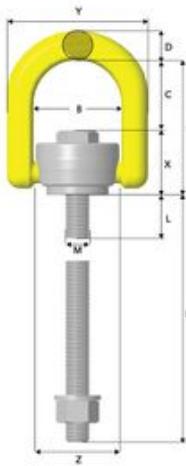
Bolt according to: ISO 898-1 Class 10.9

## Working Load Limits\* - RELP

Symmetric Load (tonnes)	1	1	2	2	2 symmetric	3 & 4 symmetric				
No. of Legs	1	1	2	2						
Angle β	0°	90°	0°	90°	0 - 45°	45° - 60°	0 - 45°	45° - 60°	Tightening Torque	Allen Key
RELP -M8 x 1.25	0.7	0.3	1.4	0.7	0.4	0.3	0.6	0.4	10 Nm	8 mm
RELP 5/16"-18 UNC	0.7	0.3	1.4	0.7	0.4	0.3	0.6	0.4	7Ft.Lbs	5/16" UNC
RELP-M10x1,5	1.2	0.5	2.4	1.0	0.7	0.5	1.0	0.7	15 Nm	8 mm
RELP 3/8"-16 UNC	1.2	0.5	2.4	1.0	0.7	0.5	1.0	0.7	11Ft.Lbs	5/16" UNC
RELP - M12x1,75	2.0	0.8	4.0	1.6	1.1	0.8	1.6	1.2	27 Nm	8 mm
RELP 1/2"-13 UNC	2.0	0.8	4.0	1.6	1.1	0.8	1.6	1.2	20Ft.Lbs	5/16" UNC
RELP - M16x2	3.5	1.5	7.0	3.0	2.1	1.5	3.1	2.2	60 Nm	8 mm
RELP 5/8"-11 UNC	3.5	1.5	7.0	3.0	2.1	1.5	3.1	2.2	44Ft.Lbs	5/16" UNC
RELP - M20x2,5	6.1	2.4	12.2	4.8	3.3	2.4	5.0	3.6	90 Nm	8 mm
RELP 3/4"-10 UNC	5.0	2.3	10.0	4.6	3.1	2.3	4.8	3.4	66Ft.Lbs	5/16" UNC
RELP 7/8"-9 UNC	6.1	2.9	12.2	5.8	4.1	2.9	6.1	4.3	66Ft.Lbs	5/16" UNC
RELP - M24x3	8.1	3.3	16.2	6.6	4.6	3.3	6.9	4.9	135 Nm	19 mm
RELP 1"-8 UNC	8.1	3.3	16.2	6.6	4.6	3.3	6.9	4.9	100Ft.Lbs	3/4" UNC
RELP - M30x3,5	12.1	4.6	24.2	9.2	6.4	4.6	9.6	6.9	270 Nm	19 mm
RELP 1 1/4"-7 UNC	12.1	4.6	24.2	9.2	6.4	4.6	9.6	6.9	200Ft.Lbs	3/4" UNC
RELP - M36x4	16.1	7.1	32.2	14.2	9.9	7.1	14.9	10.6	320 Nm	19 mm
RELP 1 1/2"-6 UNC	16.1	7.1	32.2	14.2	9.9	7.1	14.9	10.6	236Ft.Lbs	3/4" UNC
RELP - M42x4,5	24	9.1	48	18.2	12.7	9.1	19.1	13.6	600 Nm	19 mm
RELP 1 3/4"-5 UNC	24	9.1	48	18.2	12.7	9.1	19.1	13.6	440Ft.Lbs	3/4" UNC
RELP - M48x5	32	12.1	64	24.2	16.9	12.1	25.4	18.1	800 Nm	19 mm
RELP 2"-4.5 UNC	32	12.1	64	24.2	16.9	12.1	25.4	18.1	590Ft.Lbs	3/4" UNC

\*4:1 Design Factor.

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## Rotating Lifting Point RLP

Stock No. Standard Bolt Length	L (mm)	Stock No. Long Bolt Length**	L2 (mm)	Code	Dimensions (mm)							Weight (kg)***	
					B	C	D	L1	M	X	Y		
Z101708	16	Z1017080L	101	RLP-M8 x 1.25	42	35	12	62	8	27	64	Ø40	0.3
Z101710	16	Z1017100L	101	RLP -M10 x 1.5	42	35	12	62	10	27	64	Ø40	0.3
Z101712	25	Z1017120L	120	RLP -M12 x 1.75	57	46	19	88	12	42	91	Ø54	1.0
Z101716	25	Z1017160L	160	RLP-M16 x 2	57	46	19	88	16	42	91	Ø54	1.0
Z101720	36	Z1017200L	200	RLP-M20 x 2.5	83	55	28	110	20	55	133	Ø80	2.9
Z101724	36	Z1017240L	240	RLP-M24 x 3	83	55	28	110	24	55	133	Ø80	2.9
Z101730	58	Z1017300L	300	RLP-M30 x 3.5	114	70	34	148	30	78	182	Ø111	7.1
Z101736	58	Z1017360L	300	RLP-M36 x 4	114	70	34	148	36	78	182	Ø111	7.3
Z101742	81	Z1017420L	301	RLP-M42 x 4.5	149	91	40	190	42	99	229	Ø142	14.3
Z101748	81	Z1017480L	301	RLP-M48 x 5	149	91	40	190	48	99	229	Ø142	14.5

\*\* Long Bolt supplied with nut and washer. \*\*\* Weight is calculated with standard bolt length.

Bolt, nut and washer according to: ISO 898-1 Class 10.9

## RLP with UNC thread

Stock No. Standard Bolt Length	L (mm)	Stock No. Long Bolt Length**	L2 (mm)	Code	Dimensions (mm)							M (in)	Weight (kg)***
					B	C	D	L1	X	Y	Z		
Z101808	16	Z1018080L	101	RLP-5/16"-18 UNC	42	35	12	62	27	64	Ø40	5/16"	0.3
Z101810	16	Z1018100L	101	RLP-3/8"-16 UNC	42	35	12	62	27	64	Ø40	3/8"	0.3
Z101812	25	Z1018120L	120	RLP-1/2"-13 UNC	57	46	19	88	42	91	Ø54	1/2"	1.0
Z101816	25	Z1018160L	160	RLP-5/8"-11 UNC	57	46	19	88	42	91	Ø54	5/8"	1.0
Z101820	36	Z1018200L	200	RLP-3/4"-10 UNC	83	55	28	110	55	133	Ø80	3/4"	2.9
Z101821	36	Z1018210L	200	RLP-7/8"-9 UNC	83	55	28	110	55	133	Ø80	7/8"	2.9
Z101824	36	Z1018240L	240	RLP 1"-8 UNC	83	55	28	110	55	133	Ø80	1"	2.9
Z101830	58	Z1018300L	300	RLP 1 1/4"-7 UNC	114	70	34	148	78	182	Ø111	1 1/4"	7.1
Z101836	58	Z1018360L	300	RLP 1 1/2"-6 UNC	114	70	34	148	78	182	Ø111	1 1/2"	7.3
Z101842	81	Z1018420L	301	RLP 1 3/4"-5 UNC	149	91	40	190	99	229	Ø142	1 3/4"	14.4
Z101848	81	Z1018480L	301	RLP 2"-4.5 UNC	149	91	40	190	99	229	Ø142	2"	14.7

\*\* Long Bolt supplied with nut and washer. \*\*\* Weight is calculated with standard bolt length.

Bolt, nut and washer according to: ISO 898-1 Class 10.9

## Working Load Limits\* - RLP

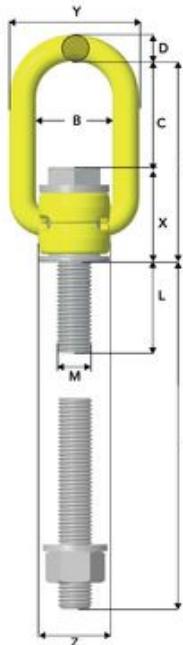


Disassembly of the RLP is made easy by just folding the D-ring forward and push down.

Symmetric Load (tonnes)	1	1	2	2	2 Symmetric	3 & 4 Symmetric	Tightening Torque	Spanner Size	
	Angle B	0°	90°	0°	90°	0 - 45°	45° - 60°		
RLP - M8 x 1.25	0.8	0.4	1.6	0.8	0.5	0.4	0.8	0.6	10 Nm
RLP 5/16"-18 UNC	0.8	0.4	1.6	0.8	0.5	0.4	0.8	0.6	7 Ft.lb
RLP - M10 x 1.5	1.2	0.7	2.4	1.4	0.9	0.7	1.4	1.0	15 Nm
RLP 3/8"-16 UNC	1.2	0.65	2.4	1.3	0.9	0.6	1.3	0.9	11 Ft.lb
RLP - M12 x 1.75	2.0	1.2	4.0	2.4	1.6	1.2	2.5	1.8	27 Nm
RLP 1/2"-13 UNC	2.0	1.2	4.0	2.4	1.6	1.2	2.5	1.8	20 Ft.lb
RLP - M16 x 2	3.2	2.0	6.4	4.0	2.8	2.0	4.2	3.0	60 Nm
RLP 5/8"-11 UNC	3.2	2.0	6.4	4.0	2.8	2.0	4.2	3.0	44 Ft.lb
RLP - M20 x 2.5	5.6	2.8	11.2	5.6	3.9	2.8	5.8	4.2	90 Nm
RLP 3/4"-10 UNC	5.0	2.5	10.0	5.0	3.5	2.5	5.2	3.7	66 Ft.lb
RLP 7/8"-9 UNC	5.6	2.8	11.2	5.6	3.9	2.8	5.8	4.2	66 Ft.lb
RLP - M24 x 3	8.0	4.6	16.0	9.2	6.4	4.6	9.6	6.9	135 Nm
RLP 1"-8 UNC	8.0	4.6	16.0	9.2	6.4	4.6	9.6	6.9	100 Ft.lb
RLP - M30 x 3.5	12.0	6.0	24.0	12.0	8.4	6.0	12.6	9.0	270 Nm
RLP 1 1/4"-7 UNC	12.0	6.0	24.0	12.0	8.4	6.0	12.6	9.0	200 Ft.lb
RLP - M36 x 4	14.0	8.0	28.0	16.0	11.2	8.0	16.8	12.0	320 Nm
RLP 1 1/2"-6 UNC	14.0	8.0	28.0	16.0	11.2	8.0	16.8	12.0	236 Ft.lb
RLP - M42 x 4.5	16.0	14.0	32.0	28.0	19.6	14.0	29.4	21.0	600 Nm
RLP 1 3/4"-5 UNC	16.0	14.0	32.0	28.0	19.6	14.0	29.4	21.0	440 Ft.lb
RLP - M48 x 5	20.0	16.0	40.0	32.0	22.4	16.0	33.6	24.0	800 Nm
RLP 2"-4.5 UNC	20.0	16.0	40.0	32.0	22.4	16.0	33.6	24.0	590 Ft.lb

\*4:1 Design Factor.

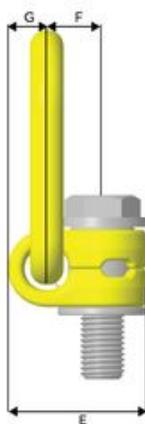
## De-centered Lifting Point DLP



Stock No. Standard Bolt Length	L (mm)	Stock No. Long Bolt Length**	L2 (mm)	Code	Dimensions (mm)											Weight (kg)***
					B	C	D	E	F	G	L1	M	X	Y	Z	
Z102208	13	Z1022080L	97.5	DLP-M8 x 1.25	35	48	10	39	14	10	78	8	30	55	26	0.3
Z102210	13	Z1022100L	97.5	DLP -M10 x 1.5	35	48	10	39	14	10	78	10	30	55	26	0.3
Z102212	23	Z1022120L	118	DLP -M12 x 1.75	35	48	12	51	20	14	91	12	44	59	32	0.5
Z102216	23	Z1022160L	158	DLP-M16 x 2	35	48	12	51	20	14	91	16	44	59	32	0.5
Z102220	34	Z1022200L	198	DLP-M20 x 2.5	54	88	18	71	28	18	145	20	58	90	48	1.6
Z102224	34	Z1022240L	238	DLP-M24 x 3	54	88	18	71	28	18	145	24	58	90	48	1.7
Z102230	53	Z1022300L	295	DLP-M30 x 3.5	82	94	26	104	39	27	182	30	88	122	75	5.0
Z102236	53	Z1022360L	295	DLP-M36 x 4	82	94	26	104	39	27	182	36	88	122	75	5.2
Z102242	73	Z1022420L	293	DLP-M42 x 4.5	100	104	36	136	54	34	216	42	113	156	110	11.6
Z102248	73	Z1022480L	293	DLP-M48 x 5	100	103	36	136	54	34	216	48	113	156	110	11.9

\*\* Long Bolt supplied with nut and washer. \*\*\* Weight is calculated with standard bolt length.  
Bolt, nut and washer according to: ISO 898-1 Class 10.9

## DLP with UNC thread



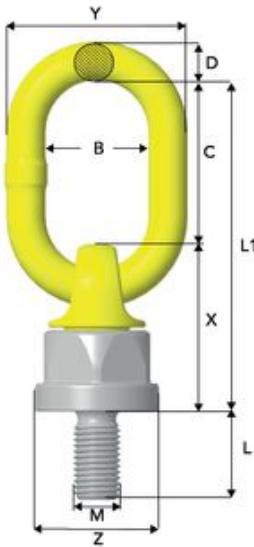
Stock No. Standard Bolt Length	L (mm)	Stock No. Long Bolt Length**	L2 (mm)	Code	Dimensions (mm)											M (in)	Weight (kg)***
					B	C	D	E	F	G	L1	X	Y	Z			
Z102308	13	Z1023080L	97.5	DLP-5/16"-18 UNC	35	48	10	39	14	10	78	30	55	26	5/16"	0.3	
Z102310	13	Z1023100L	97.5	DLP-3/8"-16 UNC	35	48	10	39	14	10	78	30	55	26	3/8"	0.3	
Z102312	23	Z1023120L	118	DLP-1/2"-13 UNC	35	48	12	51	20	14	91	44	59	32	1/2"	0.5	
Z102316	23	Z1023160L	158	DLP-5/8"-11 UNC	35	48	12	51	20	14	91	44	59	32	5/8"	0.5	
Z102320	34	Z1023200L	198	DLP-3/4"-10 UNC	54	88	18	71	28	18	145	58	90	48	3/4"	1.6	
Z102321	34	Z1023210L	198	DLP-7/8"-9 UNC	54	88	18	71	28	18	145	58	90	48	7/8"	1.6	
Z102324	34	Z1023240L	238	DLP-1"-8 UNC	54	88	18	71	28	18	145	58	90	48	1"	1.7	
Z102330	53	Z1023300L	295	DLP- 1 1/4"-7 UNC	82	94	26	104	39	27	182	88	122	75	1 1/4"	5.5	
Z102336	53	Z1023360L	295	DLP-1 1/2"-6 UNC	82	94	26	104	39	27	182	88	122	75	1 1/2"	5.7	
Z102342	73	Z1023420L	293	DLP-1 3/4"-5 UNC	100	103	36	136	54	34	216	113	156	110	1 3/4"	11.7	
Z102348	73	Z1023480L	293	DLP-2"- 4.5 UNC	100	103	36	136	54	34	216	113	156	110	2"	12.1	

\*\* Long Bolt supplied with nut and washer. \*\*\* Weight is calculated with standard bolt length.  
Bolt, nut and washer according to: ISO 898-1 Class 10.9

## Working Load Limits\* - DLP

Symmetric Load (tonnes)	1	2	2 Symmetric		3 & 4 Symmetric		Tightening Torque	Spanner Size
	Angle β	0° < β < 90°	0° < β < 90°	0 - 45°	45° - 60°	0 - 45°	45° - 60°	
DLP-M8		0.35	0.70	0.5	0.35	0.7	0.5	10 Nm
DLP-5/16"-18 UNC		0.35	0.70	0.5	0.35	0.7	0.5	7Ft.lb
DLP -M10		0.65	1.30	0.9	0.65	1.4	1.0	15 Nm
DLP-3/8"-16 UNC		0.60	1.20	0.8	0.60	1.3	0.9	11Ft.lb
DLP -M12		1.0	2.0	1.4	1.0	2.1	1.5	27 Nm
DLP-1/2"-13 UNC		1.0	2.0	1.4	1.0	2.1	1.5	20Ft.lb
DLP-M16		1.8	3.6	2.5	1.8	3.7	2.7	60 Nm
DLP-5/8"-11 UNC		1.6	3.2	2.2	1.6	3.3	2.4	44Ft.lb
DLP - M20x2.5		2.6	5.2	3.6	2.6	5.4	3.9	90 Nm
DLP 3/4"-10 UNC		2.2	4.4	3.0	2.2	4.6	3.3	66Ft.lb
DLP 7/8"-9 UNC		2.6	5.2	3.6	2.6	5.4	3.9	66Ft.lb
DLP - M24x3		4.1	8.2	5.7	4.1	8.6	6.1	135 Nm
DLP 1"-8 UNC		4.1	8.2	5.7	4.1	8.6	6.1	100Ft.lb
DLP 1 1/4"-7 UNC		5.0	10.0	7.0	5.0	10.5	7.5	270 Nm
DLP - M36x4		7.0	14.0	9.8	7.0	14.7	10.5	320 Nm
DLP 1 1/2"-6 UNC		7.0	14.0	9.8	7.0	14.7	10.5	236Ft.lb
DLP - M42x4.5		15.0	30.0	21.0	15.0	31.5	22.5	600 Nm
DLP 1 3/4"-5 UNC		15.0	30.0	21.0	15.0	31.5	22.5	440Ft.lb
DLP - M48x5		20.0	40.0	28.0	20.0	42.0	30.0	800 Nm
DLP 2"-4.5 UNC		20.0	40.0	28.0	20.0	42.0	30.0	590Ft.lb

\*4:1 Design Factor.



## Ball-bearing Lifting Point BLP

CE

Stock No.	Code	Dimensions (mm)									Weight (kg)
		B	C	D	L	L1	M	X	Y	Z	
Z102008	BLP-M8 x 1.25	35	55	13	16	112	8	57	62	042	0.6
Z102010	BLP -M10 x 1.5	35	55	13	20	112	10	57	61	042	0.6
Z102012	BLP -M12 x 1.75	35	55	13	24	112	12	57	61	042	0.6
Z102016	BLP-M16 x 2	35	55	13	30	112	16	57	61	042	0.6
Z102020	BLP-M20 x 2.5	34	51	17	30	126	20	75	67	059	1.3
Z102024	BLP-M24 x 3	50	70	17	36	145	24	75	84	059	1.5
Z102030	BLP-M30 x 3.5	54	96	22	45	102	30	106	99	074	3.4
Z102036	BLP-M36 x 4	54	96	22	54	102	36	106	99	074	3.5
Z102042	BLP-M42 x 4.5	70	120	28	63	242	42	122	127	093	6.5
Z102048	BLP-M48 x 5	70	120	28	72	242	48	122	127	093	6.8

## BLP with UNC thread

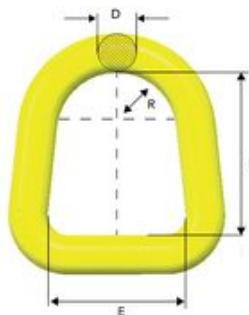
CE

Stock No.	Code	Dimensions (mm)									M	Weight (kg)
		B	C	D	L	L1	X	Y	Z			
Z102108	BLP-5/16"-18 UNC	35	55	13	16	112	57	61	042	5/16"	0.6	
Z102110	BLP-3/8"-16 UNC	35	55	13	20	112	57	61	042	3/8"	0.6	
Z102112	BLP-1/2"-13 UNC	35	55	13	24	112	57	61	042	1/2"	0.6	
Z102116	BLP-5/8"-11 UNC	35	55	13	30	112	57	61	042	5/8"	0.6	
Z102120	BLP-3/4"-10 UNC	34	51	17	30	126	75	67	059	3/4"	1.3	
Z102121	BLP-7/8"-9 UNC	50	51	17	30	126	75	67	059	7/8"	1.3	
Z102124	BLP-1"-8 UNC	54	70	17	38	145	75	84	059	1"	1.5	
Z102130	BLP-1 1/4"-7 UNC	54	96	22	48	202	106	99	074	1 1/4"	3.4	
Z102136	BLP-1 1/2"-6 UNC	70	96	22	57	202	106	99	074	1 1/2"	3.6	
Z102142	BLP-1 3/4"-5 UNC	70	120	28	67	242	122	127	093	1 3/4"	6.6	
Z102148	BLP-2"-4.5 UNC	70	120	28	76	242	122	127	093	2"	7.0	

## Working Load Limits\* - BLP

Symmetric Load (tonnes)	1	1	2	2	2	2 Symmetric	3 & 4 Symmetric				
No. of Legs	1	1	2	2	2	0 - 45°	45° - 60°	0 - 45°	45° - 60°	Tightening torque	Spanner Size
Angle B	0**	90°	0°	0 - 45°	90°	0 - 45°	45° - 60°	0 - 45°	45° - 60°		
BLP -M8x1.25	0.6	0.3	1.2	0.4	0.6	0.4	0.3	0.6	0.45	10 Nm	36 mm
BLP 5/16"-18 UNC	0.6	0.3	1.2	0.4	0.6	0.4	0.3	0.6	0.45	7Ft.Lb	1 1/2" UNC
BLP -M10x1.5	1.0	0.5	2.0	0.7	1.0	0.7	0.5	1.3	0.75	15 Nm	36 mm
BLP 3/8"-16 UNC	0.8	0.4	1.6	0.5	0.8	0.5	0.4	0.8	0.6	11Ft.Lb	1 1/2" UNC
BLP -M12x1.75	1.5	0.75	3.0	1.1	1.5	1.1	0.75	1.5	1.1	27 Nm	36 mm
BLP 1/2"-13 UNC	1.5	0.75	3.0	1.1	1.5	1.1	0.75	1.5	1.1	20Ft.Lb	1 1/2" UNC
BLP -M16x2	3.0	1.5	6.0	2.1	3.0	2.1	1.5	3.1	2.2	60 Nm	36 mm
BLP 5/8"-11 UNC	3.0	1.5	6.0	2.1	3.0	2.1	1.5	3.1	2.2	44Ft.Lb	1 1/2" UNC
BLP -M20x2.5	5.0	2.5	10.0	3.5	5.0	3.5	2.5	5.2	3.7	90 Nm	50 mm
BLP 3/4"-10 UNC	4.5	2.25	9.0	3.1	4.5	3.1	2.25	4.7	3.3	66Ft.Lb	2" UNC
BLP 7/8"-9 UNC	6.0	3.0	12.0	4.2	6.0	4.2	3.0	6.3	4.5	66Ft.Lb	2" UNC
BLP-M24x3	7.0	4.0	14.0	5.6	8.0	5.6	4.0	8.4	6.0	135 Nm	50 mm
BLP-1"-8 UNC	7.0	4.0	14.0	5.6	8.0	5.6	4.0	8.4	6.0	100Ft.Lb	2" UNC
BLP-M30x3.5	12.0	6.0	24.0	8.4	12.0	8.4	6.0	12.6	9.0	270 Nm	65 mm
BLP-1 1/4"-7 UNC	12.0	6.0	24.0	8.4	12.0	8.4	6.0	12.6	9.0	200Ft.Lb	2 5/8" UNC
BLP-M36x4	14.0	8.0	28.0	11.2	16.0	11.2	8.0	16.8	12.0	320 Nm	65 mm
BLP-1 1/2"-6 UNC	14.0	8.0	28.0	11.2	16.0	11.2	8.0	16.8	12.0	236Ft.Lb	2 5/8" UNC
BLP-M42x4.5	16.0	10.0	32.0	14.0	20.0	14.0	10.0	21.0	15.0	600 Nm	85 mm
BLP-1 3/4"-5 UNC	16.0	10.0	32.0	14.0	20.0	14.0	10.0	21.0	15.0	440Ft.Lb	3 1/8" UNC
BLP-M48x5	18.0	13.0	36.0	18.2	26.0	18.2	13.0	27.3	19.5	800 Nm	85 mm
BLP-2"-4.5 UNC	18.0	13.0	36.0	18.2	26.0	18.2	13.0	27.3	19.5	590Ft.Lb	3 1/8" UNC

\* provided only axial loading takes place, ie no bending force applied in the direction of the thread. 4:1 Design Factor.

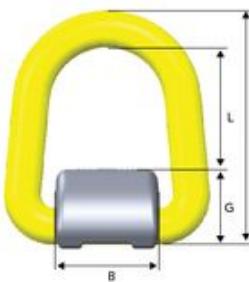


## Master Link D

Stock No.	Code	WLL (t)	Dimensions (mm)				Weight (kg)
			E	D	L	R	
Z7008771	D-14-10	2.5	55	14	65	24	0.4
Z7008781	D-17-10	4.0	64	17	62	29	0.5
Z7008801	D-22-10	7.0	76	22	90	33	1.0
Z7008791	D-27-10	10.0	85	27	98	38	1.9
Z7008792	D-32-10	16.0	114	32	139	50	3.5

The load bearing width must be at least  $0.5 \times E$ .

4:1 Design Factor



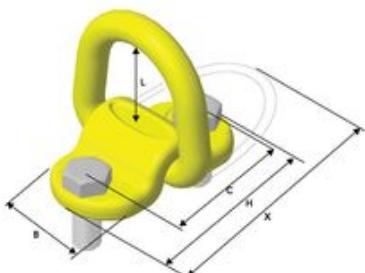
## Weldable Lifting Point WLP

Stock No.	Code	WLL (t)	Dimensions (mm)				Weight (kg)
			B	G	L	X	
Z7009001	WLP-2.5T	2.5	50	27	53	95	0.5
Z7009011	WLP-4T	4.0	58	34	48	97	0.8
Z7009021	WLP-7T	7.0	64	41	73	135	1.8
Z7009031	WLP-10T	10.0	65	52	73	152	3.4
Z7009041	WLP-16T	16.0	90	66	105	203	6.7

4:1 Design Factor

Supplied with spring for stay up function.

Master Link measurements , see Master Link D above.



## Screw-on Lifting Point SLP

**11**

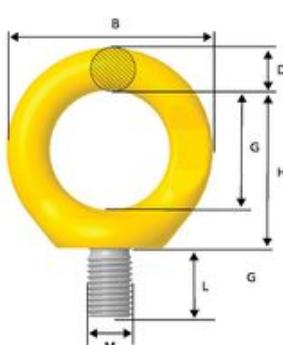
Stock No.	Code	WLL (t)	Dimensions (mm)						Bolt Protrusion	Weight (kg)
			B	C	H	L	M	X		
Z7009881	SLP-1T	1.0	50	72	98	54	M14	139	25	0.8
Z7009871	SLP-3T	3.0	58	84	114	49	M16	144	28	1.3
Z7009861	SLP-5T	5.0	64	116	160	71	M20	203	34	2.6

4:1 Design Factor

Supplied with bolt and spring for stay up function.

Bolt according to: ISO 898-1 Class 10.9.

Master Link measurements , see Master Link D above.



## Eye Lifting Point ELP

Stock No.	Code	WLL (t)	Dimensions (mm)							Weight (kg)
			B	D	G	H	L	M		
Z100434	ELP-16-8	1.0**	72	16	42	55	24	M16		0.4
Z100435	ELP-20-8	1.5**	72	16	42	58	30	M20		0.4
Z100436	ELP-24-8	2.0**	88	19	48	69	36	M24		0.9
Z100437	ELP-30-8	3.0**	106	22	60	84	45	M30		1.4

4:1 Design Factor

\*\* In case of 1-leg application where loading is limited to straight loading in the direction of thread (no bending force) it is possible to use ELP with four times higher WLL. Note! Threaded depths need to be at least  $1 \times M$  for steel,  $1.25 \times M$  for cast iron and  $2 \times M$  for aluminum alloy.

# Spare Parts

Standard length bolt and long bolt for RLP and DLP are available as spare parts.

## RDR LP - Metric

Standard length bolt including locking ring



Stock No.	Code
Z1017081	RDR LP-M8x1,25
Z1017101	RDR LP-M10x1,5
Z1017121	RDR LP-M12x1,75
Z1017161	RDR LP-M16x2
Z1017201	RDR LP-M20x2,5
Z1017241	RDR LP-M24x3
Z1017301	RDR LP-M30x3,5
Z1017361	RDR LP-M36x4
Z1017421	RDR LP-M42x4,5
Z1017481	RDR LP-M48x5



## RDR LP - Metric

Long bolt including nut, locking ring and washer

Stock No.	Code
Z10170801L	RDR LP-M8x1,25 LB
Z10171001L	RDR LP-M10x1,5 LB
Z10171201L	RDR LP-M12x1,75 LB
Z10171601L	RDR LP-M16x2 LB
Z10172001L	RDR LP-M20x2,5 LB
Z10172401L	RDR LP-M24x3 LB
Z10173001L	RDR LP-M30x3,5 LB
Z10173601L	RDR LP-M36x4 LB
Z10174201L	RDR LP-M42x4,5 LB
Z10174801L	RDR LP-M48x5 LB

## RDR LP - UNC

Standard length bolt including locking ring



Stock No.	Code
Z1018081	RDR LP-UNC 5/16"-18
Z1018101	RDR LP-UNC 3/8"-16
Z1018121	RDR LP-UNC 1/2"-13
Z1018161	RDR LP-UNC 5/8"-11
Z1018201	RDR LP-UNC 3/4"-10
Z1018211	RDR LP-UNC 7/8"-9
Z1018241	RDR LP-UNC 1"-8
Z1018301	RDR LP-UNC 1 1/4"-7
Z1018361	RDR LP-UNC 1 1/2"-6
Z1018421	RDR LP-UNC 1 3/4"-5
Z1018481	RDR LP-UNC 2"-4,5



## RDR LP - UNC

Long bolt including nut, locking ring and washer

Stock No.	Code
Z10180801L	RDR LP-UNC 5/16"-18 LB
Z10181001L	RDR LP-UNC 3/8"-16 LB
Z10181201L	RDR LP-UNC 1/2"-13 LB
Z10181601L	RDR LP-UNC 5/8"-11 LB
Z10182001L	RDR LP-UNC 3/4"-10 LB
Z10182101L	RDR LP-UNC 7/8"-9 LB
Z10182401L	RDR LP-UNC 1"-8 LB
Z10183001L	RDR LP-UNC 1 1/4"-7 LB
Z10183601L	RDR LP-UNC 1 1/2"-6 LB
Z10184201L	RDR LP-UNC 1 3/4"-5 LB
Z10184801L	RDR LP-UNC 2"-4,5 LB

## RDD LP - Metric

Standard length bolt including locking ring



Stock No.	Code
Z1022081	RDD LP-M8x1,25
Z1022101	RDD LP-M10x1,5
Z1022121	RDD LP-M12x1,75
Z1022161	RDD LP-M16x2
Z1022201	RDD LP-M20x2,5
Z1022241	RDD LP-M24x3
Z1022301	RDD LP-M30x3,5
Z1022361	RDD LP-M36x4
Z1022421	RDD LP-M42x4,5
Z1022481	RDD LP-M48x5



## RDD LP - Metric

Long bolt including nut, locking ring and washer

Stock No.	Code
Z10220801L	RDD LP M8x1,25 LB
Z10221001L	RDD LP M10x1,5 LB
Z10221201L	RDD LP M12x1,75 LB
Z10221601L	RDD LP M16x2 LB
Z10222001L	RDD LP M20x2,5 LB
Z10222401L	RDD LP M24x3 LB
Z10223001L	RDD LP M30x3,5 LB
Z10223601L	RDD LP M36x4 LB
Z10224201L	RDD LP M42x4,5 LB
Z10224801L	RDD LP M48x5 LB

## RDDLP - UNC

Standard length bolt including locking ring



Stock No.	Code
Z1023081	RDDLP UNC 5/16"-18
Z1023101	RDDLP UNC 3/8"-16
Z1023121	RDDLP UNC 1/2"-13
Z1023161	RDDLP -UNC 5/8"-11
Z1023201	RDDLP -UNC 3/4"-10
Z1023211	RDDLP -UNC 7/8"-9
Z1023241	RDDLP -UNC 1"-8
Z1023301	RDDLP -UNC 1 1/4"-7
Z1023361	RDDLP UNC 1 1/2"-6
Z1023421	RDDLP -UNC 1 3/4"-5
Z1023481	RDDLP -UNC 2"-4.5



## RDDLP - UNC

Long bolt including nut, locking ring and washer

Stock No.	Code
Z10230801L	RDDLP UNC 5/16"-18 LB
Z10231001L	RDDLP UNC 3/8"-16 LB
Z10231201L	RDDLP UNC 1/2"-13 LB
Z10231601L	RDDLP UNC 5/8"-11 LB
Z10232001L	RDDLP UNC 3/4"-10 LB
Z10232101L	RDDLP UNC 7/8"-9 LB
Z10232401L	RDDLP UNC 1"-8 LB
Z10233001L	RDDLP UNC 1 1/4"-7 LB
Z10233601L	RDDLP UNC 1 1/2"-6 LB
Z10234201L	RDDLP UNC 1 3/4"-5 LB
Z10234801L	RDDLP UNC 2"-4.5 LB

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IPU10

**Universal - for lifting in any direction**

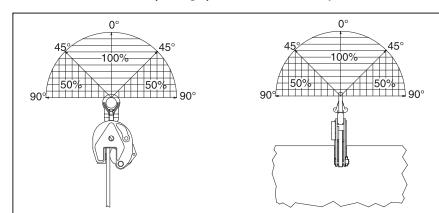
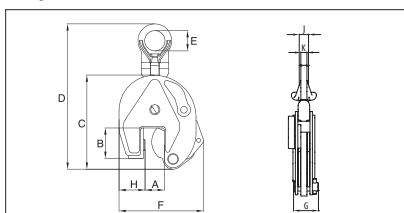
- Available in capacities of .5 thru 30 metric tons (higher Working Load Limits are available upon request).
- Wide variety of jaw openings available: 0 to 155mm.
- Welded alloy steel body for strength and smaller size. Forged alloy components, where required.
- Individually Proof Tested to 2 times the Working Load Limit with certification.
- Company name (Crosby IP), logo, Working Load Limit and jaw opening permanently stamped on body.
- Each product is individually serialized, with the serial number and Proof Load test date stamped on body. User manual with test certificate is included with each clamp.
- Available in a variety of styles:
  - IPU10 - Standard clamp for materials with a surface hardness to 363HV10 (345 HB).
  - IPU10J - Larger jaw opening.
  - IPU10S - For use with stainless steel material.
  - IPU10H - For use with materials with a surface hardness to 472HV10 (450 HB).
- Full 180° turning range for material transfer, turning or moving.
- Lock open, lock closed ability with latch for pretension on material and then release of material.
- For use with materials with a surface hardness to 279HV10. Only 5% minimum WLL is needed.
- Maintenance and repair kits are available.
- Minimum WLL is 5% of maximum WLL for .5t IPU10 only.
- Minimum WLL is 10% of maximum WLL for all other IPU10, IPU10J, IPU10S, IPU10H clamps.

IPU10S

**Model IPU10 / IPU10J / IPU10S / IPU10H****Load Rated**

Model	Working Load Limit (t)*	Stock No.	Weight Each (kg)	Dimensions (mm)									
				Jaw A	B	C	D	E	F	G	H	J	K
IPU10	0.5	2701675	1.9	0 - 16	44	130	216	40	115	42	28	-	11
IPU10	1	2701663	2.4	0 - 20	45	139	225	40	127	42	38	-	11
IPU10	2	2701677	8.5	0 - 35	78	201	368	70	188	64	55	-	16
IPU10	3	2701665	14.8	0 - 40	100	253	436	75	222	78	60	-	20
IPU10	4.5	2701667	16.0	0 - 40	100	253	436	75	227	82	65	-	20
IPU10	6	2701669	24.0	0 - 50	126	302	525	80	292	84	95	44	20
IPU10	9	2701671	29.5	0 - 50	126	325	552	80	310	94	104	44	20
IPU10	12	2701679	57.0	0 - 54	160	392	616	80	433	121	137	41	25
IPU10	16	2701683	79.0	5 - 64	180	463	736	88	492	121	153	45	25
IPU10	22.5	2701687	126.0	5 - 80	222	554	863	110	565	139	186	49	25
IPU10	30	2701691	141.0	5 - 80	222	554	868	110	580	153	186	54	30
<b>With larger jaw opening</b>													
IPU10J	0.5	2701647	1.9	15 - 30	45	128	209	40	128	42	32	-	11
IPU10J	1	2702463	2.5	20 - 40	55	151	221	40	141	42	41	-	11
IPU10J	3	2702465	17.3	40 - 80	115	270	432	75	277	78	67	-	20
IPU10J	4.5	2702467	18.9	40 - 80	115	270	432	75	281	82	72	-	20
IPU10J	6	2702469	26.5	50 - 100	126	302	515	80	336	84	95	44	20
IPU10J	9	2701673	30.5	50 - 100	126	325	550	80	360	94	105	44	20
IPU10J	12	2701681	65.0	54 - 108	178	438	662	80	491	121	136	41	25
IPU10J	16	2701685	85.0	64 - 128	208	521	784	88	562	121	160	45	25
IPU10J	22.5	2701689	149.0	80 - 155	255	628	938	110	660	139	196	49	25
IPU10J	30	2701693	165.0	80 - 155	255	628	942	110	660	153	196	54	30
<b>For stainless steel - with universal hoisting eye</b>													
IPU10S	0.5	2702275	1.9	0 - 16	44	130	216	40	115	42	28	-	11
IPU10S	1	2702263	2.4	0 - 20	45	139	225	40	127	42	38	-	11
IPU10S	2	2702277	8.5	0 - 35	78	201	368	70	188	64	55	-	16
IPU10S	3	2702265	14.8	0 - 40	100	253	436	75	222	78	60	-	20
IPU10S	4.5	2702267	16.0	0 - 40	100	253	436	75	227	82	65	-	20
IPU10S	6	2702269	24.0	0 - 50	126	302	525	80	292	84	95	44	20
IPU10S	9	2702271	29.5	0 - 50	126	325	552	80	310	94	104	44	20
IPU10S	12	2702279	57.0	0 - 54	160	392	616	80	433	121	137	41	25
<b>For very hard materials - with universal hoisting eye</b>													
IPU10H	0.5	2702175	1.9	0 - 16	44	130	216	40	115	42	28	-	11
IPU10H	0.75	2702163	2.4	0 - 20	45	139	225	40	127	42	38	-	11
IPU10H	1	2702177	7.6	0 - 35	78	201	368	70	188	64	55	-	16
IPU10H	2	2702165	14.8	0 - 40	100	253	436	75	222	78	60	-	20
IPU10H	3	2702167	16.0	0 - 40	100	253	436	75	227	82	65	-	20
IPU10H	4.5	2702169	24.0	0 - 50	126	302	525	80	292	84	95	44	20
IPU10H	6	2702171	29.5	0 - 50	126	325	552	70	310	94	104	44	20

Design Factor based on EN 13155 and ASME B30.20. Model IPU10R (remote control opening and closing via a cable) on request. Model IPU10W (wedge) available on request.



**IP10**

**For vertical lifting, turning and transfer**

- Available in capacities of .5 through 30 metric tons (higher Working Load Limits are available upon request).
- Wide variety of jaw openings available: 0 to 155mm.
- Welded alloy steel body for strength and smaller size. Forged alloy components, where required.
- Individually Proof Tested to 2 times the Working Load Limit with certification.
- Company name (Crosby IP), logo, Working Load Limit and jaw opening permanently stamped on body.
- Each product is individually serialized, with the serial number and Proof Load test date stamped on body. User manual and test certificate included with each clamp.
- Available in a variety of styles:
  - IP10 - Standard clamp for materials with a surface hardness to 363HV10 (345 HB).
  - IP10J - Larger jaw opening.
  - IP10S - For use with stainless steel material.
  - IP10H - For use with materials with a surface hardness to 472HV10 (450 HB).
- Full 180° turning range for material transfer, turning or moving.
- Lock open, lock closed ability with latch for pretension on material and then release of material.
- For plate surface hardness till 279HV10, only 5% min. WLL is needed.
- Maintenance and repair kits are available.
- Minimum WLL is 5% of maximum WLL for .5t IP10 only.
- Minimum WLL is 10% of maximum WLL for all other IP10, IP10J, IP10S, IP10H clamps.

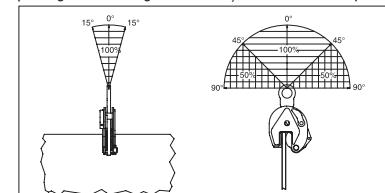
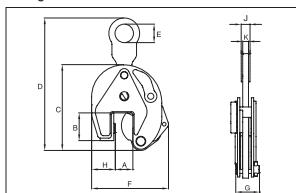
**IP10H**

**Model IP10 / IP10J / IP10S / IP10H**
*Load Tested*

Model	Working Load Limit (t)*	Stock No.	Weight Each (kg)	Dimensions (mm)									
				Jaw A	B	C	D	E	F	G	H	J	K
IP10	0.5	2701674	1.8	0 - 16	44	130	203	40	115	42	28	-	11
IP10	1	2701662	2.2	0 - 20	45	139	212	40	127	42	38	-	11
IP10	2	2701676	7.6	0 - 35	78	201	330	70	188	64	55	-	16
IP10	3	2701664	13.8	0 - 40	100	253	434	75	222	78	60	-	20
IP10	4.5	2701666	15.0	0 - 40	100	253	434	75	227	82	65	-	20
IP10	6	2701668	23.5	0 - 50	126	302	517	80	292	84	95	40	20
IP10	9	2701670	27.5	0 - 50	126	325	445	80	310	94	104	44	25
IP10	12	2701678	49.0	0 - 54	160	392	574	80	433	121	137	41	25
IP10	16	2701682	68.0	5 - 64	180	463	686	88	492	121	153	49	25
IP10	22.5	2701686	108	5 - 80	222	554	803	110	565	153	186	54	30
IP10	30	2701690	124	5 - 80	222	554	803	110	565	153	186	54	30
<b>With larger jaw opening</b>													
IP10J	0.5	2701646	1.8	15 - 30	45	128	209	40	128	42	32	-	11
IP10J	1	2702462	2.5	20 - 40	55	151	207	40	141	42	41	-	11
IP10J	3	2702458	16.4	40 - 80	115	271	432	75	276	78	67	-	20
IP10J	4.5	2702460	18.0	40 - 80	115	271	432	75	281	82	72	-	20
IP10J	6	2701705	24.5	50 - 100	126	302	506	80	336	84	95	40	20
IP10J	9	2701672	28.5	50 - 100	126	325	542	80	360	94	105	44	25
IP10J	12	2701680	58.0	54 - 108	178	438	620	80	491	121	136	41	25
IP10J	16	2701684	80.0	64 - 128	208	521	734	88	562	121	160	45	25
IP10J	22.5	2701688	131.0	80 - 155	255	628	883	110	660	139	196	49	25
IP10J	30	2701692	147.0	80 - 155	255	628	887	110	660	153	196	54	30
<b>For stainless steel - with fixed hoisting eye</b>													
IP10S	0.5	2702274	1.8	0 - 20	44	130	203	40	115	42	28	11	11
IP10S	1	2702262	2.2	0 - 35	45	139	212	40	127	42	38	11	11
IP10S	2	2702276	7.6	0 - 40	78	201	330	70	188	64	55	16	16
IP10S	3	2702264	13.8	0 - 40	100	253	434	75	222	78	60	20	20
IP10S	4.5	2702266	15.0	0 - 50	100	253	434	75	227	82	65	20	20
IP10S	6	2702268	23.5	0 - 50	126	302	517	80	292	84	95	20	20
IP10S	9	2702270	27.5	0 - 54	126	325	544	80	310	94	104	25	25
IP10S	12	2702278	49.0	0 - 16	160	392	574	80	433	121	137	25	25
<b>For very hard materials - with fixed hoisting eye</b>													
IP10H	0.5	2702174	1.8	0 - 16	44	130	207	40	115	42	28	11	11
IP10H	0.75	2702162	2.2	0 - 20	45	139	219	40	130	42	38	11	11
IP10H	1	2702176	7.6	0 - 35	78	201	330	70	188	64	55	16	16
IP10H	2	2702164	13.8	0 - 40	100	253	434	75	222	78	60	20	20
IP10H	3	2702166	15.0	0 - 40	100	253	434	75	227	82	65	20	20
IP10H	4.5	2702168	23.5	0 - 50	126	302	517	80	292	84	95	20	20
IP10H	6	2702170	27.5	0 - 50	126	325	544	80	310	92	105	25	25

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Design Factor based on EN 13155 and ASME B30.20. Model IP10 available in 40t, 55t and 100t on request. Model IP10R (remote control opening and closing via a cable) available on request.



IPNM10N



**For use in almost all sectors of industry where, during the lift or transfer, no damage to the material is permitted.**

- Available in capacities of .5 , 1 and 2 metric tons (higher Working Load Limits are available upon request).
- Wide variety of jaw openings available: 0 to 40mm.
- Welded alloy steel body for strength and smaller size. Forged alloy components, where required.
- Individually Proof Tested to 2 times the Working Load Limit with certification.
- Company name (Crosby IP), logo, Working Load Limit and jaw opening permanently stamped on body.
- Each product is individually serialized, with the serial number and Proof Load test date stamped on body. User manual with test certificate is included with each clamp.
- Full 180° turning range for material transfer, turning or moving.
- Lock open, lock closed ability with latch for pretension on material and then release of material.
- Material must be clean and dry.
- There is no minimum WLL required.
- Maintenance and repair kits are available.
- Temperature range -20° C to 70° C
- Optional with brake pad lining for temperature range -40° C to +200° C
- Special jaw openings or curved jaws upon request.

IPNM10P

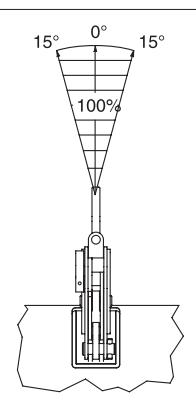
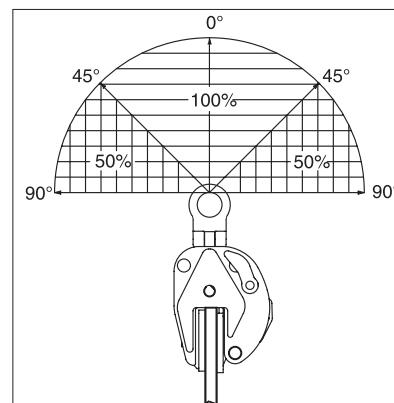
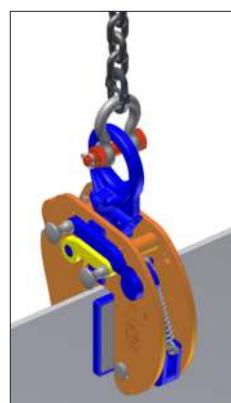
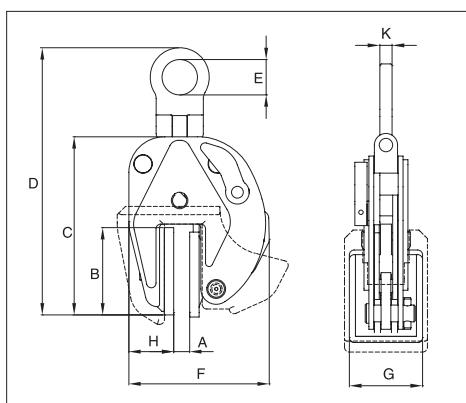


*Load Rated*

### Model IPNM10

Model	Working Load Limit (t)*	Stock No.	Weight Each (kg)	Dimensions (mm)								
				Jaw A	B	C	D	E	F	G	H	K
IPNM10N	0.5	2703811	2.7	0 - 10	84	159	235	40	128	60	42	11
IPNM10N	1	2703738	4.4	0 - 20	97	209	278	40	184	80	56	11
IPNM10	2	2703442	14.5	0 - 40	153	258	396	70	296	100	161	16
<b>With protection cap</b>												
IPNM10P	0.5	2703278	2.8	0 - 10	82	157	221	40	145	68	48	11
IPNM10P	1	2703279	4.5	0 - 20	97	195	276	40	205	82	66	11
<b>With larger jaw opening</b>												
IPNM10NJ	1	2703814	4.7	20 - 37	97	220	321	40	200	80	56	11
IPNM10NJ1	1	2703819	5.5	0 - 25	97	238	351	40	213	80	63	11

\* Design Factor based on EN 13155 and ASME B30.20.

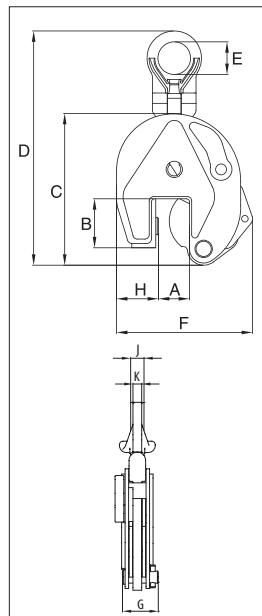


IPU10A



### For vertical transport of plates

- Available in capacities of 1, 2 and 6 metric tons (higher Working Load Limits are available upon request).
- Jaw openings available: 0 to 50mm.
- Welded alloy steel body for strength and smaller size. Forged alloy components where required.
- Individually Proof Tested to 2 times the Working Load Limit with certification.
- Company name (Crosby IP), logo, Working Load Limit and jaw opening permanently stamped on body.
- Each product is individually serialized, with the serial number and Proof Load test date stamped on body. User manual with test certificate is included with each clamp.
- Full 180° turning range for material transfer, turning or moving.
- Lock open, lock closed ability with latch for pretension on material and then release of material.
- Minimum WLL of 10% of Maximum WLL.
- Maintenance and repair kits are available.
- For use with materials with a plate surface hardness to 279HV10, only 5% of minimum WLL is needed.

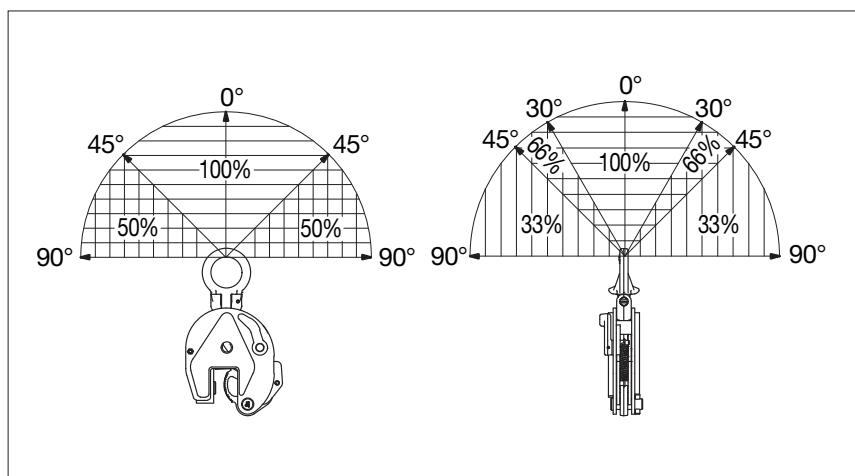


### Model IPU10A

Model	Working Load Limit (t)*	Stock No.	Weight Each (kg)	Dimensions (mm)									
				Jaw A	B	C	D	E	F	G	H	J	K
IPU10A	1	2701628	2.3	0 - 20	45	139	225	40	127	42	38	-	11
IPU10A	2	2701629	8.4	0 - 35	78	201	368	70	188	64	55	-	16
IPU10A	6	2701638	25.4	0 - 50	126	302	525	80	292	84	95	44	20

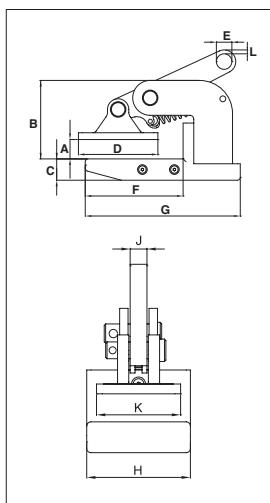
\* Design Factor based on EN 13155 and ASME B30.20.

Load Rated

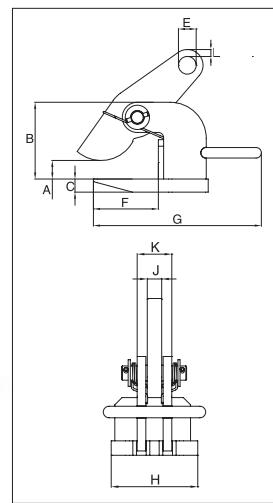


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IPHNM10



IPH10



### For Horizontal Lift and Transfer with Pretension System

- Available in capacities of .5 through 12 metric tons (higher Working Load Limits are available upon request).
- Jaw openings available: 0 to 120mm.
- Welded alloy steel body for strength and smaller size. Forged alloy components, where required.
- Individually Proof Tested to 2 times the Working Load Limit with certification.
- Company name (Crosby IP), logo, Working Load Limit and jaw opening permanently stamped on body.
- Each product is individually serialized, with the serial number and Proof Load test date stamped on body. User manual with test certificate is included with each clamp.
- Maintenance and repair kits are available.

*Load Rated*

#### Model IPHNM10

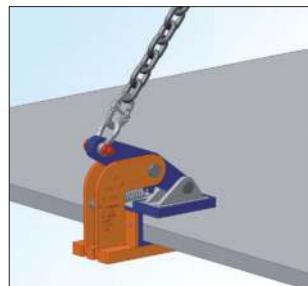
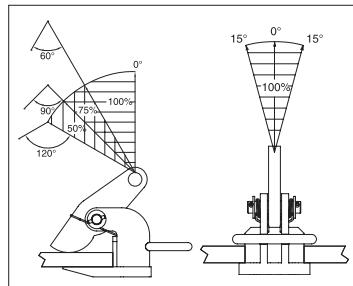
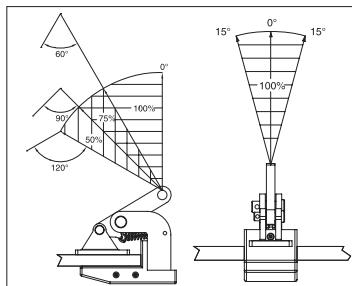
Model	Working Load Limit (Per Pair) (t)*	Stock No.	Weight Each (kg)	Dimensions (mm)										
				Jaw A	B	C	D	E	F	G	H	J	K	L
IPHNM10	0.5	2703287	2.0	0 - 20	81	22	82	16	101	160	74	12	60	4
IPHNM10	1	2703288	3.5	0 - 35	93	30	92	16	103	164	74	12	60	7
IPHNM10	2	2703290	7.5	0 - 30	139	30	131	22	166	245	100	20	74	9
IPHNM10J	2	2703291	8.0	30 - 60	169	30	131	22	166	245	100	20	74	9

\* Design Factor based on EN 13155 and ASME B30.20.

#### Model IPH10 / IPH10J: With Spring Loaded Tension, Magnets and Handle

Model	Working Load Limit (Per Pair) (t)*	Stock No.	Weight Each (kg)	Dimensions (mm)										
				Jaw A	B	C	E	F	G	H	J	K	L	
IPH10	0.5+	2703297	1.8	0 - 20	86	12	16	103	150	60	12	27	4	
IPH10	1+	2703298	2.5	0 - 35	100	16	16	103	150	60	12	31	7	
IPH10	2	2703522	5.5	0 - 60	117	16	22	109	256	110	20	40	9	
IPH10	3	2703523	7.5	0 - 60	117	20	26	109	266	120	20	48	11	
IPH10	4.5	2703524	10.5	0 - 60	132	25	30	104	280	130	20	48	12	
IPH10	6	2703525	13.0	0 - 60	143	25	36	123	320	130	20	48	14	
IPH10	9	2703526	18.5	0 - 60	157	30	43	133	330	140	25	62	16	
IPH10	12	2703527	21.5	0 - 60	172	30	47	141	353	150	25	62	17	
<b>With larger jaw opening #</b>														
IPH10J	3	2703533	9.0	60 - 120	177	20	26	109	266	120	20	48	9	
IPH10J	4.5	2703534	12.0	60 - 120	192	25	30	104	280	130	20	48	11	
IPH10J	6	2703535	15.0	60 - 120	203	25	36	123	320	130	20	48	12	
IPH10J	9	2703536	20.5	60 - 120	217	30	43	133	330	140	25	62	14	
IPH10J	12	2703537	24.0	60 - 120	232	30	47	141	353	150	25	62	16	

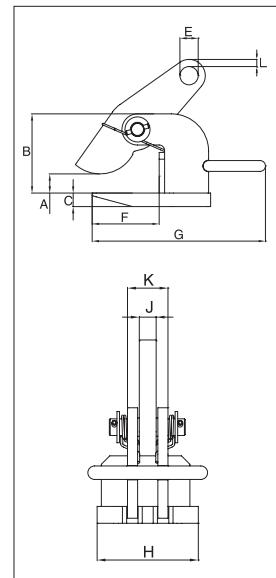
\* Design Factor based on EN 13155 and ASME B30.20.- No handle or magnets. # Larger Working Load Limits available.



IPH10E

**For horizontal lifting and transfer**

- Available in capacities of 2.0 thru 25 metric tons.
- Wide variety of jaw openings available: 0 to 120mm.
- Welded alloy steel body for strength and smaller size. Forged alloy, components where required.
- Equipped with handle for easy placement.
- Individually Proof Tested to 2 times the Working Load Limit with certification.
- Company name (CrosbyIP), logo, Working Load Limit and jaw opening permanently stamped on body.
- Each product is individually serialized, with the serial number and Proof Load test date stamped on body. User manual with test certificate is included with each clamp.
- Maintenance and repair spare kits are available.

**Model IPH10E**

Model	Working Load Limit (Per Pair) (t)*	Stock No.	Weight Each (kg)	Dimensions (mm)									
				Jaw A	B	C	E	F	G	H	J	K	L
IPH10E	2	2703542	5.5	0 - 60	117	16	22	109	256	110	20	40	9
IPH10E	3	2703543	7.5	0 - 60	117	20	26	109	266	120	20	48	11
IPH10E	4.5	2703544	10.5	0 - 60	132	25	30	104	280	130	20	48	12
IPH10E	6	2703545	13	0 - 60	143	25	36	123	320	130	20	48	14
IPH10E	9	2703546	18.5	0 - 60	157	30	43	133	330	140	25	62	16
IPH10E	12	2703547	21.5	0 - 60	172	30	47	141	353	150	25	62	17

\* Design Factor based on EN 13155 and ASME B30.20.

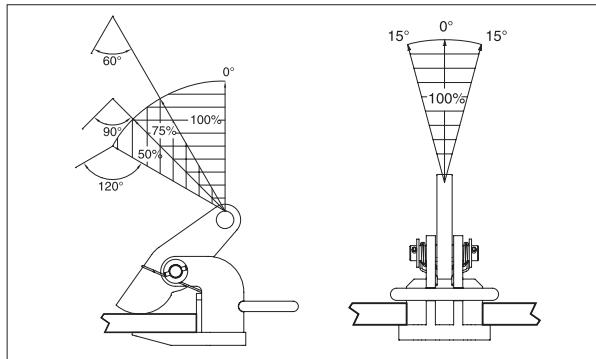
Load Rated

**Model IPH10JE**

Model	Working Load Limit (Per Pair) (t)*	Stock No.	Weight Each (kg)	Dimensions (mm)									
				Jaw A	B	C	E	F	G	H	J	K	L
IPH10JE	3	2703553	9.0	60 - 120	177	20	26	109	266	120	20	48	11
IPH10JE	4.5	2703554	12.0	60 - 120	192	25	30	104	280	130	20	48	12
IPH10JE	6	2703555	15.0	60 - 120	203	25	36	123	320	130	20	48	14
IPH10JE	9	2703556	20.5	60 - 120	217	30	43	133	330	140	25	62	16
IPH10JE	12	2703557	24.0	60 - 120	232	30	47	141	353	150	25	62	17

\* Design Factor based on EN 13155 and ASME B30.20.

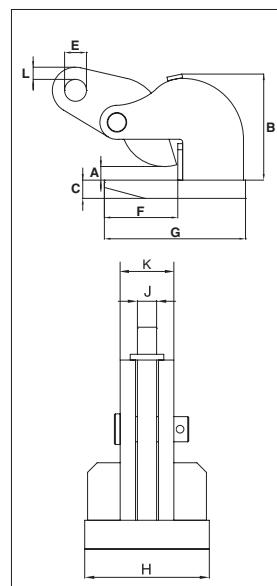
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## IPHOZ

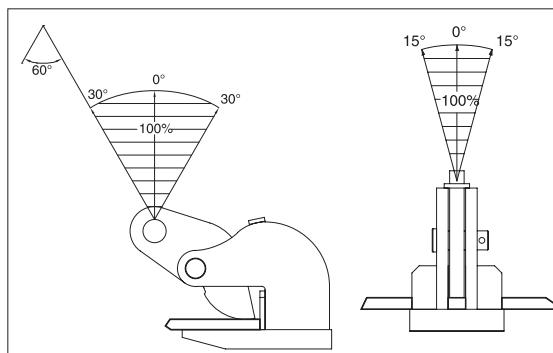
**For Horizontal Lifting and Transfer**

- Available in capacities of .75 through 15 metric tons (higher Working Load Limits are available upon request).
- Wide variety of jaw openings available: 0 to 60mm.
- Welded alloy steel body for strength and smaller size. Forged alloy, components where required.
- Equipped with handle for easy placement.
- Individually Proof Tested to 2 times the Working Load Limit with certification.
- Company name (Crosby IP), logo, Working Load Limit and jaw opening permanently stamped on body.
- Each product is individually serialized, with the serial number and Proof Load test date stamped on body. User manual with test certificate is included with each clamp.
- Maintenance and repair kits are available.

**Load Rated****Model IPHOZ**

Model	Working Load Limit (Per Pair) (t)*	Stock No.	Weight Each (kg)	Dimensions (mm)									
				Jaw A	B	C	E	F	G	H	J	K	L
IPHOZ	0.75	2705401	3.0	0 - 30	94	16	16	70	118	81	12	31	12
IPHOZ	1.5	2705402	5.5	0 - 45	133	16	22	125	192	100	16	36	12
IPHOZ	3	2705403	8.0	0 - 45	137	20	26	125	200	120	20	48	10
IPHOZ	4.5	2705404	9.5	0 - 45	138	25	30	126	220	120	20	50	10
IPHOZ	6	2705405	15.5	0 - 60	171	30	36	135	235	130	20	56	20
IPHOZ	9	2705406	25.0	0 - 60	211	30	43	166	276	160	25	62	20
IPHOZ	12	2705407	29.0	0 - 60	217	40	47	168	294	190	25	62	19
IPHOZ	15	2705408	36.5	0 - 60	220	40	47	183	317	250	25	62	22

\*Design Factor based on EN 13155 and ASME B30.20.



IPPE10B(E)



IPPE10BNM



**For lifting and transporting non-bendable sheet metal in a horizontal position.**

- Available in capacities of 3 through 12 metric tons (higher Working Load Limits are available upon request).
- Wide variety of jaw openings available: 0 to 180mm
- Welded alloy steel body for strength and smaller size. Forged alloy components, where required.
- Individually Proof Tested to 2 times the Working Load Limit with certification.
- Company name (Crosby IP), logo, Working Load Limit and jaw opening permanently stamped on body.
- Each product is individually serialized, with the serial number and Proof Load test date stamped on body. User manual with test certificate is included with each clamp.
- Maintenance and repair kits are available.
- IPPE10B: Magnets in foot plate (also applies for D and H Type).
- IPPE10BE: Economic version (also applies for D and H-Type).
- IPPE10BNM: Non-marring (also applies for D and H-Type).

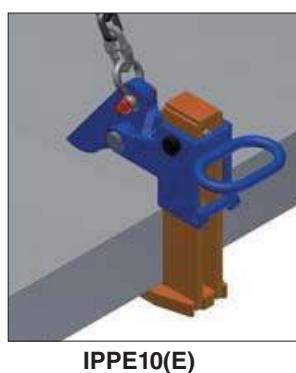
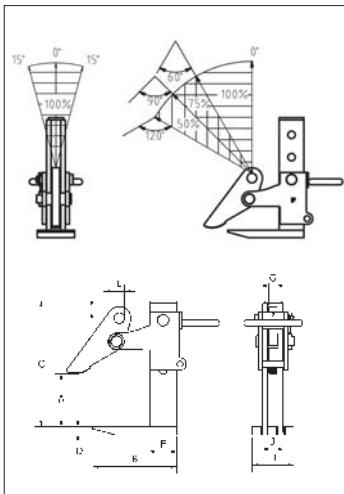
### Model IPPE10B / IPPE10BE / IPPE10BNM

Load Rated

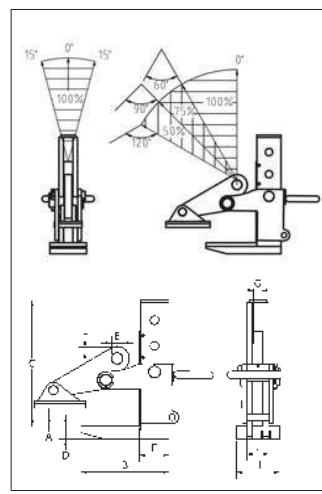
Model	Working Load Limit (Per Pair) (t)*	Stock No.	Weight Each (kg)	Dimensions (mm)									
				Jaw A	B	C	D	E	F	G	H	J	L
IPPE10B	3	2703862	11.5	0-180	204	322	20	26	66	20	100	50	15
IPPE10B	6	2703871	16.3	0-180	220	340	25	30	74	20	140	60	13
IPPE10B	9	2703888	24.8	0-180	248	365	25	34	90	20	190	70	13
IPPE10B	12	2703921	32.7	0-180	252	376	30	40	90	25	200	70	18
IPPE10BE	3	2703863	11.5	0-180	204	322	20	26	66	20	100	50	15
IPPE10BE	6	2703870	16.3	0-180	220	340	25	30	74	20	140	60	13
IPPE10BE	9	2703891	24.8	0-180	248	365	25	34	90	20	190	70	13
IPPE10BE	12	2703924	32.7	0-180	262	376	30	40	90	25	200	70	18
IPPE10BNM	3	2703864	12.4	0-180	204	322	30	26	68	20	100	50	15
IPPE10BNM	6	2703872	17.3	0-180	220	340	35	30	76	20	140	60	13
IPPE10BNM	9	2703894	27.7	0-180	248	365	35	34	92	20	190	70	13
IPPE10BNM	12	2703927	35.2	0-180	262	376	40	40	92	25	200	70	15

\* Design Factor based on EN 13155 and ASME B30.20. Also available in D-Type (maximum jaw opening of 300mm) and H-Type (maximum jaw opening of 420mm).

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IPPE10(E)



IPPE10NM



## IPBC



## For Horizontal Transfer - with Pretension System

- Available in capacities of 1 through 4.5 metric tons (Higher Working Load Limits are available upon request).
- Jaw openings available: 0 to 40mm.
- Welded alloy steel body for strength and smaller size. Forged alloy components where required.
- Equipped with handle for easy placement.
- Individually Proof Tested to 2 times the Working Load Limit with certification.
- Company name (CrosbyIP), logo, Working Load Limit and jaw opening permanently stamped on body.
- Each product is individually serialized, with the serial number and Proof Load test date stamped on body. User manual with test certificate is included with each clamp.
- Maintenance and repair kits are available.

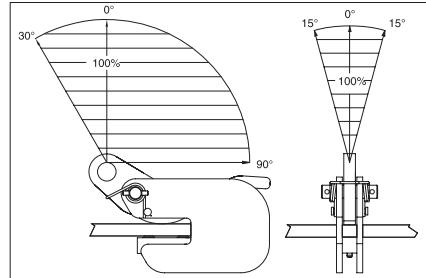
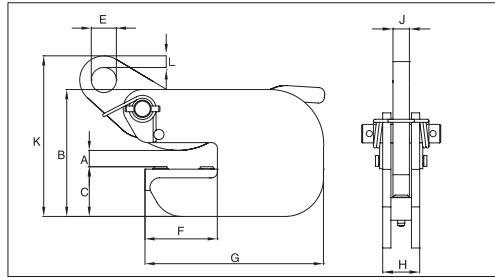
## IPHGUZ



## Model IPBC

Model	Working Load Limit (t)*	Stock No.	Weight Each (kg)	Dimensions (mm)							
				Jaw A	B	C	E	F	G	H	J
IPBC	1	2700410	3.5	0 - 20	132	52	26	75	185	36	16
IPBC	2	2700411	6.5	0 - 25	152	62	30	82	210	49	20
IPBC	3	2700412	8.5	0 - 25	157	66	30	82	210	57	20
<i>Load Rated</i>											

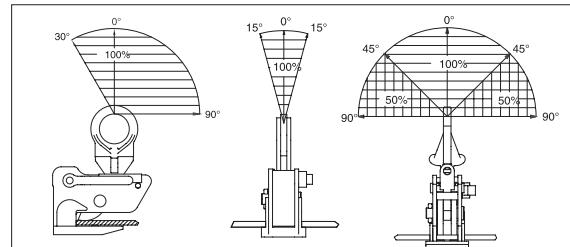
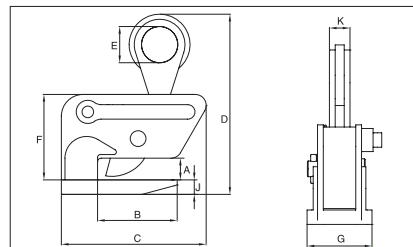
\* Design Factor based on EN 13155 and ASME B30.20.



## Model IPHGUZ: Universal Lifting Eye / Model IPHGZ: Fixed Hoisting Eye

Model	Working Load Limit (t)*	Stock No.	Weight Each (kg)	Dimensions (mm)							
				Jaw A	B	C	D	E	F	G	J
IPHGUZ	1.5	2705455	9.0	0 - 25	110	232	287	70	139	90	20
IPHGUZ	3	2705456	19.9	0 - 40	119	253	348	75	175	120	25
IPHGUZ	4.5	2705457	30.0	0 - 40	119	301	370	80	175	155	30
Fixed Hoisting Eye											
IPHGZ	0.75	2705451	4.0	0 - 25	82	148	206	50	99	98	12
IPHGZ	1.5	2705452	7.3	0 - 25	110	200	250	50	118	90	20
IPHGZ	3	2705453	12.3	0 - 40	120	227	305	70	148	120	25
IPHGZ	4.5	2705454	25.0	0 - 40	120	284	381	70	181	155	30
<i>Load Rated</i>											

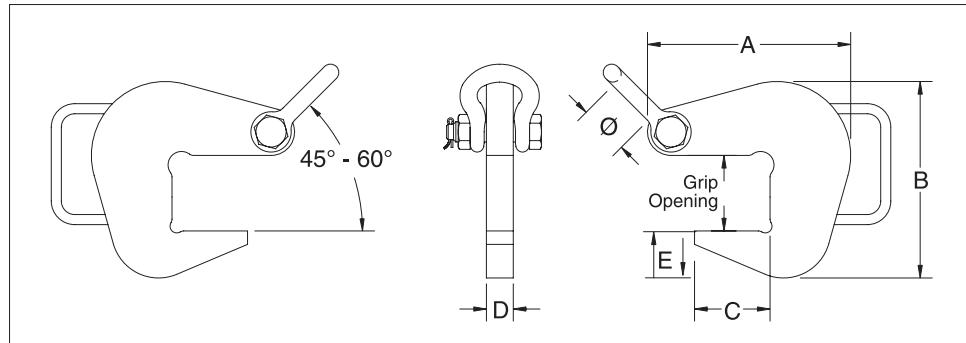
\* Design Factor based on EN 13155 and ASME B30.20.



IPPH



- Crosby IP Pipe Hooks provide a fast and efficient method for lifting pipe, tube or any similarly shaped fabrications.
- Alloy steel plate construction.
- Equipped with a convenient handle.
- Equipped with a Bolt Type Shackle.
- Optional non marring inserts available.
- Used in pairs with 45° - 60° horizontal angle or 60° - 90° included angle.



### Pipe Hook

Model	Working Load Limit Per Pair (t)**	Stock No.	Weight Each (kg)	Grip Opening (mm)	Dimensions (mm)							Shackle Size (mm)	Nylon (PA6) Inserts*
					A	B	C	D	E	Ø			
IPPH	2	2734500	2.70	52.3	148	129	52.3	25.4	31.8	42.9	5/8	2734900 2734909	
IPPH	4	2734509	4.56	71.4	192	186	71.4	25.4	44.4	42.9	5/8	2734918	
IPPH	6	2734518	8.05	103	259	256	103	25.4	57.2	50.8	3/4	2734927	
IPPH	10	2734527	17.5	154	376	383	154	25.4	88.9	68.3	1.0	2734936	

\*\*Design factor based on EN13155 and ASME B30.20.

NOTE: To determine grip opening when equipped with an insert, add the insert thickness shown in the Pipe Hook Insert table below.

12

IPPHI



- Replaceable nylon (PA6) inserts for use with the IPPHI Pipe Hook that minimizes thread and pipe damage.

### Pipe Hook Inserts

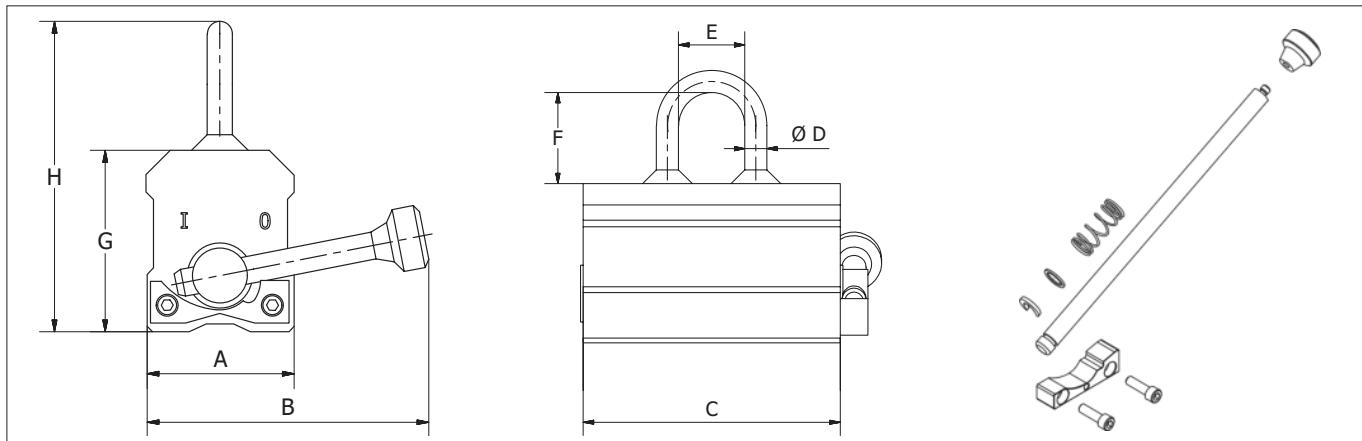
Model	Stock No.	ID of Pipe (mm)	Grip Opening (mm)
	2734900	76 - 305	41
	2734909	305 - 457	44
IPPHI	2734918	457 - 762	63
	2734927	762 - 1067	95
	2734936	1067 - 1329	145



## MAGNEX™



- Solid steel construction with recessed area, reducing risk of damage to tags for identification and technical user information.
- Fully welded construction, minimizing maintenance costs.
- Innovative and patented easy switch stop block, equipped with ball bearing and ergonomic handle for increased safety and ease of use.
- Individually proof tested to 3 times the working load limit with certification.
- Each product is individually serialized, with the serial number and proof load test date stamped on body.
- User manual with test certificate included with each magnet
- 5-year warranty on magnetic system.
- CE certified including test certificate in accordance with EN 13155.
- Maintenance replacement kits are available.
- Can be used on both flat and round steel surfaces.



## Crosby MAGNEX™ Lifting Magnet

Model	WLL (kg)*	Stock No.	Weight each (kg)	Dimensions (mm)							
				A	B	C	D	E	F	G	H
MAGNEX150	150	2708023	3.1	60	115	102	10	30	40	69	119
MAGNEX300	300	2708024	10.9	100	210	152	14	50	65	99	178
MAGNEX600	600	2708025	21.7	120	245	246	20	64	65	99	184
MAGNEX1000	1000	2708026	40.9	146	329	306	20	64	92	125	237
MAGNEX1500	1500	2708027	71.7	165	392	374	20	64	92	161	273
MAGNEX2000	2000	2708028	91.4	165	475	478	20	64	92	161	273

Model	Flat Material			Round Material		
	WLL (kg)*	min. thickness for max. WLL (mm)*	min. load thickness (mm)	WLL (kg)*	min. Ø (mm)	max. Ø (mm)
MAGNEX150	150	25	2	75	50	100
MAGNEX300	300	30	4	150	60	200
MAGNEX600	600	40	6	300	65	270
MAGNEX1000	1000	60	10	500	100	300
MAGNEX1500	1500	80	15	750	150	350
MAGNEX2000	2000	80	15	1000	150	350

\*WLL based on low carbon, mild steel and a working temperature 20° C.

IPBK10

**For the transfer and stacking of steel beams**

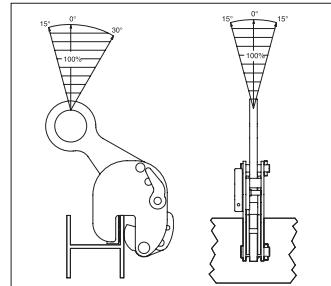
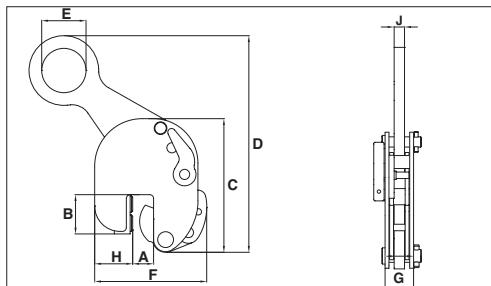
- IPVUZ / IPVZ: Available in capacities of 0.75 through 1.5 metric tons.
- IPVUZ / IPVZ: Jaw openings available: 0 to 20mm
- IPBK10: Available in capacities of 0.5 through 4 metric tons.
- IPBK10: Jaw openings available: 5 to 28mm
- Welded alloy steel body for strength and smaller size. Forged alloy components, where required.
- Individually Proof Tested to 2 times the Working Load Limit with certification.
- Company name (Crosby IP), logo, Working Load Limit and jaw opening permanently stamped on body.
- Each product is individually serialized, with the serial number and Proof Load test date stamped on body. User manual with test certificate is included with each clamp.
- Minimum WLL of 10% of Maximum WLL.
- Maintenance and repair kits are available.
- For use with materials with a plate surface hardness to 279HV10, only 5% min WLL is needed.

IPVZ

**Model IPBK10**

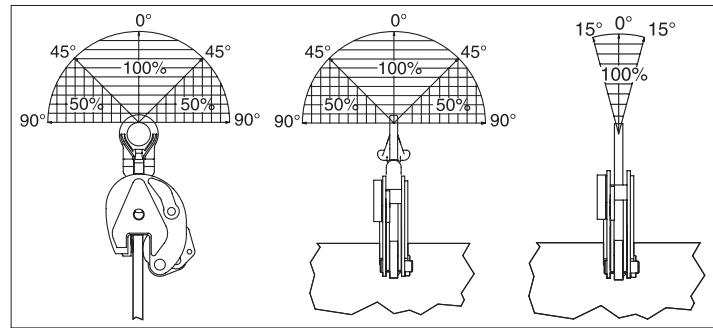
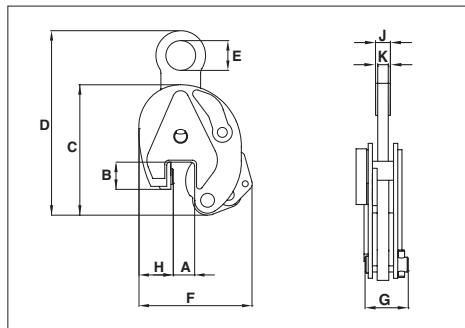
Model	Working Load Limit (t)*	Stock No.	Weight Each (kg)	Dimensions (mm)								
				Jaw A	B	C	D	E	F	G	H	J
IPBK10	0.5	2703931	2.4	5-15	43	134	216	45	120	48	45	10
IPBK10	1	2703837	2.6	5-15	43	152	230	45	123	47	45	10
IPBK10	2	2703838	7.3	5-25	62	223	341	70	198	61	70	16
IPBK10	4	2703839	16.9	5-28	75	282	431	100	232	78	72	20

Design Factor based on EN 13155 and ASME B30.20.

**Model IPVUZ: Universal Hoisting Eye / Model IPVZ: Fixed Hoisting Eye**

Model	Working Load Limit (t)*	Stock No.	Weight Each (kg)	Dimensions (mm)								
				Jaw A	B	C	D	E	F	G	H	K
IPVUZ	0.75	2705146	2.3	0 - 15	26	130	216	40	115	42	30	11
IPVUZ	1.5	2705147	6.9	0 - 20	55	200	378	70	200	61	64	16
<b>Fixed Hoisting Eye</b>												
IPVZ	0.75	2705096	2.1	0 - 15	26	130	203	40	115	42	30	11
IPVZ	1.5	2705097	5.9	0 - 20	55	200	339	70	180	61	64	16

\* Design Factor based on EN 13155 and ASME B30.20.



IPBHZ

**For the lifting and transfer of steel beams**

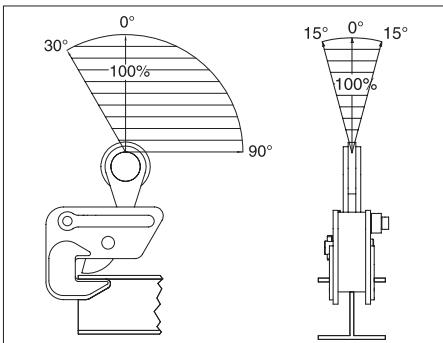
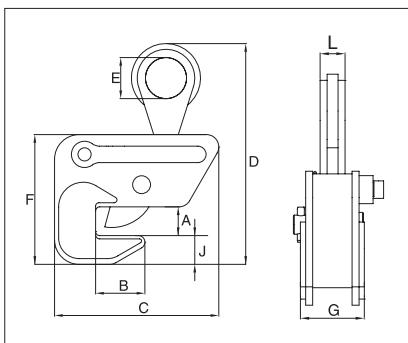
- IPBHZ: Available in capacities of .75 through 12 metric tons (higher Working Load Limits are available upon request).
- IPBHZ: Wide variety of jaw openings available: 0 to 40mm.
- IPBSNZ: Available in capacities of 1.5 through 4.5 metric tons (higher Working Load Limits are available upon request).
- IPBSNZ: Wide variety of jaw openings available: 0 to 50mm.
- Welded alloy steel body for strength and smaller size. Forged alloy components, where required.
- Individually Proof Tested to 2 times the Working Load Limit with certification.
- Company name (Crosby IP), logo, Working Load Limit and jaw opening permanently stamped on body.
- Each product is individually serialized, with the serial number and Proof Load test date stamped on body. User manual with test certificate is included with each clamp.
- Minimum WLL of 10% of Maximum WLL.
- Maintenance and repair kits are available.

IPBSNZ

**Model IPBHZ***Load Rated*

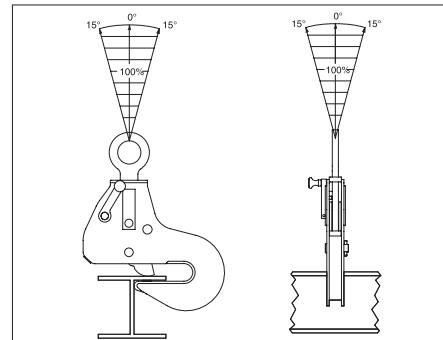
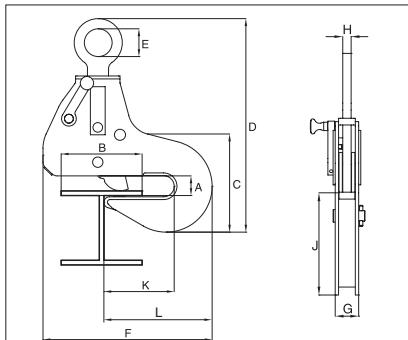
Model	Working Load Limit (t)*	Stock No.	Weight Each (kg)	Dimensions (mm)								
				Jaw A	B	C	D	E	F	G	J	L
IPBHZ	0.75	2705461	3.0	0 - 25	40	148	220	50	130	69	33	22
IPBHZ	1.5	2705462	6.0	0 - 25	60	203	255	50	158	73	35	28
IPBHZ	3	2705463	10.5	0 - 40	80	227	325	70	188	112	38	32
IPBHZ	4.5	2705464	25.0	0 - 40	112	284	413	70	251	116	80	40
IPBHZ	12	2705467	42.3	0 - 40	125	466	490	90	317	90	90	47

\* Design Factor based on EN 13155 and ASME B30.20.

**Model IPBSNZ**

Model	Working Load Limit (t)*	Stock No.	Weight Each (kg)	Dimensions (mm)									
				Jaw A	B	C	D	E	F	G	H	J	
IPBSNZ	1.5	2705925	14.0	0 - 32	100 - 270	304	480	70	319	47	16	165	148
IPBSNZ	3	2705926	22.0	0 - 40	100 - 330	352	494	75	408	56	20	207	182
IPBSNZ	4.5	2705927	30.5	0 - 50	100 - 360	420	630	75	457	56	20	250	188

\* Design Factor based on EN 13155 and ASME B30.20.



**IPTK**


## For transferring steel beams and attaching tackle eye

- Available in capacities of 2 through 25 metric tons (higher Working Load Limits are available upon request).
- Wide variety of jaw openings available: 75 to 1020mm.
- Welded alloy steel body for strength and smaller size. Forged alloy components, where required.
- Individually Proof Tested to 2 times the Working Load Limit with certification.
- Company name (Crosby IP), logo, Working Load Limit and jaw opening permanently stamped on body.
- Each product is individually serialized, with the serial number and Proof Load test date stamped on body. User manual with test certificate is included with each clamp.
- Maintenance and repair kits are available.

**IPTKW**

**IPTKU**

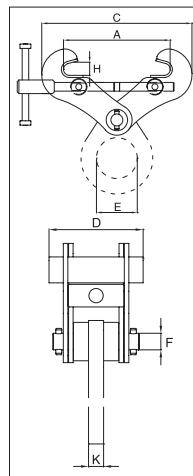
**IPTKUM**
*Load Rated*
**IPTK:** with hoisting eye / **IPTKW:** without hoisting eye

**IPTKU:** with hinged hoisting eye / **IPTKUD:** with double locking device

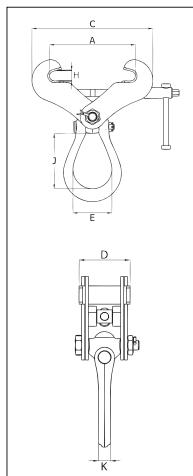
**IPTKUM:** Suitable as anchor device for personnel fall arrest equipment

Model	Working Load Limit (t)*	Stock No.	Weight Each (kg)	Dimensions (mm)							
				Jaw A	C	D	E	F	H	J	K
IPTK	2	2700996	6.0	75 - 190	A + 80	125	75	-	25	-	20
IPTK	3	2700997	6.5	75 - 190	A + 80	125	75	-	25	-	20
IPTK	4	2700998	8.5	150 - 280	A + 100	125	75	-	35	-	20
IPTK	5	2700994	11.0	120 - 350	A + 195	125	75	-	40	-	20
IPTK	25	2702999	225	450 - 1020	A + 220	500	125	-	76	-	45
<b>Without Hoisting Eye</b>											
IPTKW	2	2700966	4.0	75 - 190	A + 80	125	-	28	25	-	-
IPTKW	3	2700967	4.5	75 - 190	A + 80	125	-	28	25	-	-
IPTKW	4	2700968	6.3	150 - 280	A + 100	125	-	33	35	-	-
IPTKW	5	2700969	8.8	120 - 350	A + 195	125	-	33	40	-	-
<b>With Improved Hinged Hoisting Eye</b>											
IPTKU	2	2707996	5.7	75 - 190	A + 100	121	76	-	22	99	19
IPTKU	3	2707997	6.4	75 - 190	A + 100	121	89	-	22	122	22
IPTKU	4	2707998	12.1	120 - 280	A + 150	140	89	-	40	122	22
IPTKU	5	2707994	14.5	120 - 350	A + 175	140	89	-	40	122	22
IPTKU	10	2707970	41.0	200 - 460	A + 300	200	105	-	60	152	26
<b>Suitable as anchor device for personnel fall arrest equipment - standard according to EN 795</b>											
IPTKUM	1 person	2709991	6	75 - 190	A + 100	165	76	-	22	99	19
<b>With Optional Double Locking Device</b>											
IPTKUD	2	2709996	6.0	75 - 190	A + 100	165	76	-	22	99	19
IPTKUD	3	2709993	6.6	75 - 190	A + 100	165	89	-	22	122	22
IPTKUD	4	2709995	12.3	120 - 280	A + 150	185	89	-	40	122	22
IPTKUD	5	2709994	15.3	120 - 350	A + 175	185	89	-	40	122	22
IPTKUD	10	2709970	43.0	200 - 460	A + 300	215	105	-	60	152	26

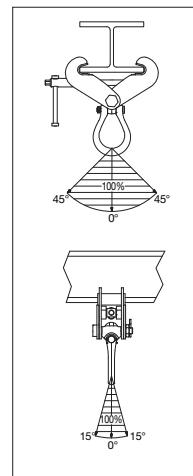
\* Design Factor based on EN 13155 and ASME B30.20.



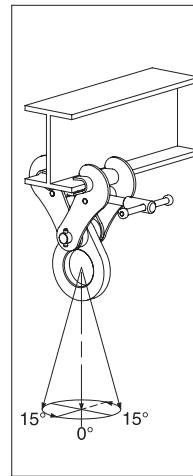
IPTK/IPTKW



IPTKU(D)(M)



IPTKU(D)

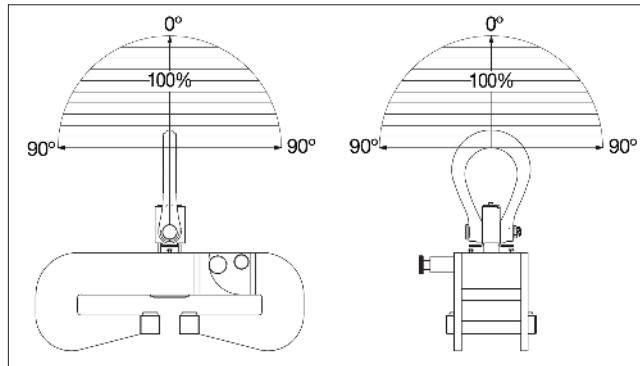
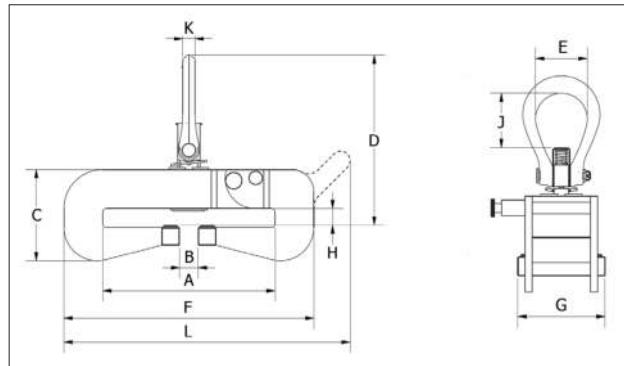


IPTK(W)

## IPTKA



- Maintains full WLL at angles up to 90°.
- Bail swivels 360° and pivots 180°.
- Easy to close and open with a hinged body with self-locking device.
- Easy to handle with handgrips.
- No interference or space limitations when tightening the clamp.
- Multi-purpose hoisting eye to be used for tightening as well as for hoisting.
- Light weight design.
- All parts are replaceable.
- Maintenance and repair kits are available.
- Can be used for a wide range of profile sizes.



## IPTKA Universal Beam Clamp

Load Rated

Model	WLL (t)	Stock No.	Weight (kg)	Dimensions (mm)										
				A	B	C	D	E	F	G	H	J	K	L
IPTKA	3	2707111	15.9	100 - 205	34	149	307	89	310	130	6 - 26	94	22	369
IPTKAJ1	3	2707116	14.2	70 - 125	24	134	297	89	257	130	6 - 26	94	22	315
IPTKAJ2	3	2707117	16.0	100 - 205	54	164	322	89	310	130	20 - 40	94	22	369
IPTKA	5	2707065	23.3	100 - 305	34	164	306	89	450	150	6 - 26	94	22	-
IPTKAJ1	5	2707114	16.9	70 - 125	24	139	296	89	297	150	6 - 26	94	22	336
IPTKAJ2	5	2707115	23.2	100 - 305	74	179	321	89	450	150	20 - 40	94	22	-
IPTKA	10	2707118	62	140 - 405	74	234	450	121	600	220	12 - 42	152	30	-
IPTKA	15	2707124	71	140 - 405	74	244	450	121	630	220	12 - 42	152	30	-



## IPBCF / IPBCNS



## For the lifting and transfer of wide flange beam sections and plate girders

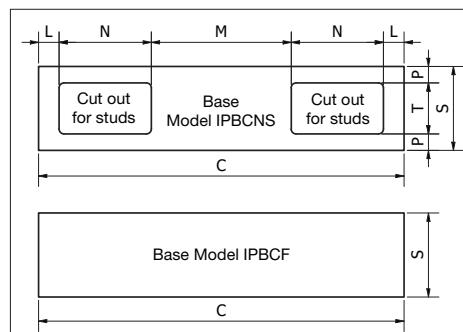
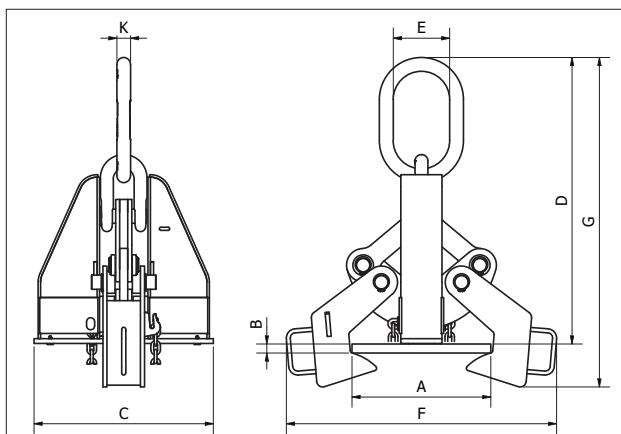
- When lifting, these beam clamps grip the beam at three points, and when properly balanced and safely guided, the beam can be handled even if the clamp is slightly off center lengthwise.
- Capacities: 4.5 through 32 metric tons. (higher Working Load Limits are available upon request).
- Eliminates the need for slings, chokers, and spreader bars.
- When applied to load, the tongs automatically open and slide under the flange of the beam.
- Center plate and gripping tongs work together - the heavier the beam, the greater the clamping pressure.
- Model IPBCNS clamps have a recessed base to accept studs welded to the beam surface.
- Welded alloy steel body for strength and smaller size. Forged alloy components, where required.
- Individually Proof Tested to 2 times the Working Load Limit with certification.
- Company name (Crosby IP), logo, Working Load Limit and jaw opening permanently stamped on body.
- Each product is individually serialized, with the serial number and Proof Load test date stamped on body. User manual with test certificate is included with each clamp.
- Maintenance and repair kits are available.

## Beam Clamps

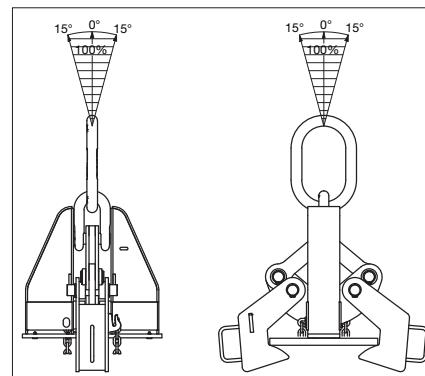
Model No.	WLL (t)*	Stock No.	Weight Each (kg)	Flange Grip Range (mm)		Dimensions (mm)					
				Width (A)	Thickness (B)	C	D	E	F	G	K
IPBCF	4.5	2702000	29.4	102 - 254	13 - 25	348	536 - 452	95	338 - 475	602 - 531	21
IPBCNS	13.5	2702018	62.0	178 - 432	13 - 51	444	775 - 592	140	505 - 749	894 - 719	34
IPBCNS	22.5	2702036	132	406 - 610	25 - 76	596	1012 - 812	152	775 - 969	1140 - 982	44
IPBCNS	32	2702054	240	406 - 914	41 - 102	730	1189 - 1023	178	792 - 1348	1458 - 1258	51

Design factor based on EN 13155 and ASME B30.20.

**NOTE:** Control the beam at all times. Beams should be gripped as near the center as possible. Snubbing lines at each end must be used to control excessive twisting or swinging, and to guide the beam to its proper place. Each lifting situation may have a specific demand which should be addressed before lifting.



Base Stock No.	Base Dimensions (mm)						
	C	L	M	N	P	S	T
IPBCF	348	-	-	-	-	76	-
IPBCNS	444	25	170	112	20	102	62
IPBCNS	596	33	190	170	30	152	92
IPBCNS	730	49	226	203	30	152	92

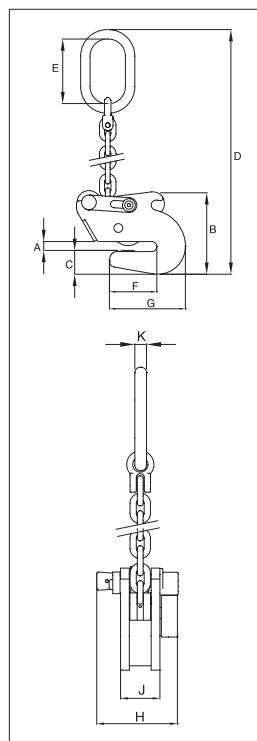


## IPSTARTEC11



### For Lifting, Transferring and Controlled Tilting of Steel Beams

- Available in capacities of 1.5 and 2.5 metric tons (higher Working Load Limits are available upon request).
- Jaw openings available: 6 to 20mm.
- Welded alloy steel body for strength and smaller size. Forged alloy, components where required.
- Equipped with handle for easy placement.
- Individually Proof Tested to 2 times the Working Load Limit with certification.
- Company name (Crosby IP), logo, Working Load Limit and jaw opening permanently stamped on body.
- Each product is individually serialized, with the serial number and Proof Load test date stamped on body. User manual with test certificate is included with each clamp.
- Maintenance replacement parts are available.

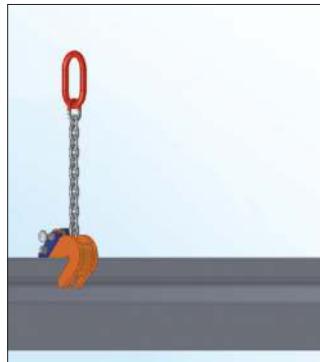
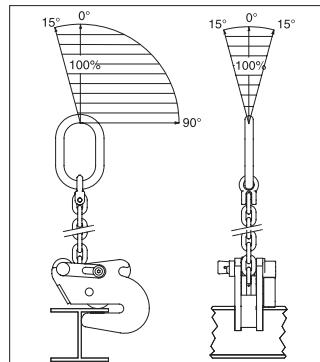


### Model IPSTARTEC11

**Load Rated**

Model	Working Load Limit (t)*	Stock No.	Weight Each (kg)	Dimensions (mm)									
				Jaw A	B	C	D	E	F	G	H	J	K
IPSTARTEC11	1.5	2701812	6.6	6 - 12	140	39	575	110	81	129	126	54	16
IPSTARTEC11	2.5	2701822	14.5	6 - 20	210	55	725	135	115	182	140	74	18

\* Design Factor based on EN 13155 and ASME B30.20.



IPSC10



**Suitable for use in positioning & turning steel plates and sections. Not to be used as a lifting clamp.**

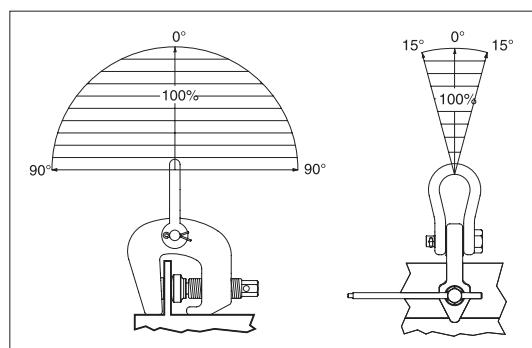
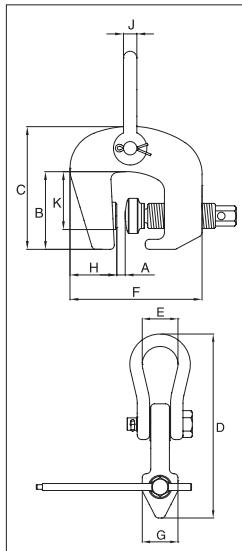
- Available in capacities of 1.5 and 3 metric tons (higher Working Load Limits are available upon request).
- Jaw openings available: 0 to 60mm.
- Suitable for steel with a surface hardness up to 300 HV10.
- Forged alloy steel body for strength and smaller size. Forged alloy components, where required.
- Individually Proof Tested to 2 times the Working Load Limit with certification.
- Company name (Crosby IP), logo, Working Load Limit and jaw opening permanently stamped on body.
- Each product is individually serialized, with the serial number and Proof Load test date stamped on body. User manual with test certificate is included with each clamp.
- Maintenance and repair kits are available.

### Model IPSC10

Load Rated

Model	Working Load Limit (t)*	Stock No.	Weight Each (kg)	Dimensions (mm)								
				Jaw A	B	C	D	E	F	G	H	J
IPSC10	1.5	2703857	4.6	0 - 40	91	143	251	44	156	50	45	16
IPSC10	3	2703858	8.4	0 - 60	109	175	310	51	200	62	55	19

\* Design Factor based on EN 13155 and ASME B30.20.

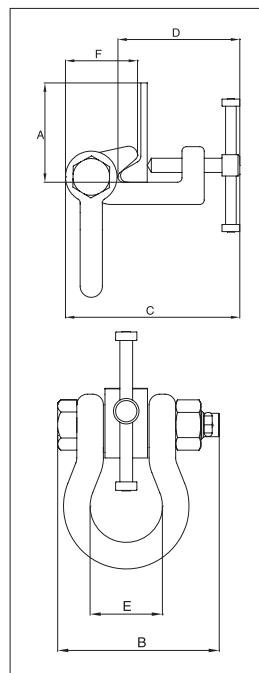


IPBTO10



**For use as a temporary tackle eye in spaces that have been reinforced with HP (bulb) profiles such as engine rooms and shipsections.**

- Available in capacities of 1.5 through 6 metric tons (higher Working Load Limits are available upon request).
- Wide variety of jaw openings available: HP 160mm to HP 430mm
- Alloy steel body for strength and smaller size. Forged alloy components, where required.
- Individually Proof Tested to 2 times the Working Load Limit with certification.
- Company name (Crosby IP), logo, Working Load Limit and jaw opening permanently stamped on body.
- Each product is individually serialized, with the serial number and Proof Load test date stamped on body. User manual with test certificate is included with each clamp.
- Maintenance and repair kits are available.

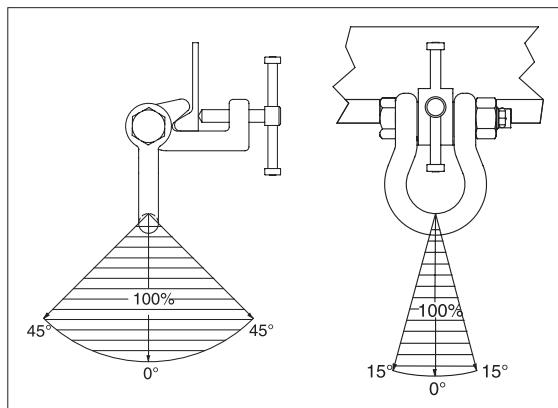


### Model IPBTO10

**Load Rated**

Model	Working Load Limit (t)*	Stock No.	Weight Each (kg)	Dimensions (mm)					
				Profile A †	B	C	D	E	F
IPBTO10	1.5	2700980	4.3	HP 160-240	137	188-209	129-150	68	81
IPBTO10	3	2700986	6.0	HP 240-320	137	188-217	145-174	68	78
IPBTO10	6	2700991	13.0	HP 300-430	185	255-297	195-236	82	102

\* Design Factor based on EN 13155 and ASME B30.20. † Profile A is the type of Holland Bulb (HP) style and size material.

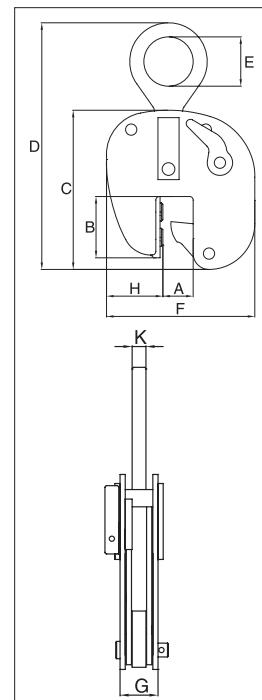


IPBUZ



### For Lifting, Transferring and Placing Bulb Profiles onto Ship's Hulls Perpendicularly

- Available in capacities of .75 through 3.75 metric tons (higher Working Load Limits are available upon request).
- Jaw openings available: HP 120mm to HP 430mm.
- Welded alloy steel body for strength and smaller size. Forged alloy components, where required.
- Individually Proof Tested to 2 times the Working Load Limit with certification.
- Company name (Crosby IP), logo, Working Load Limit and jaw opening permanently stamped on body.
- Each product is individually serialized, with the serial number and Proof Load test date stamped on body. User manual with test certificate is included with each clamp.
- Maintenance and repair kits are available.



*Load Rated*

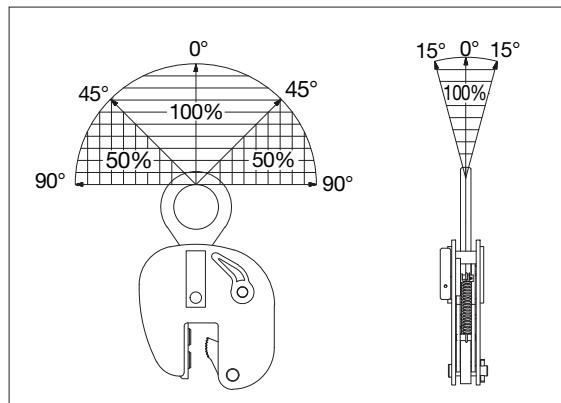
**Model IPBUUZ:** with Universal Hoisting Eye

**Model IPBUZ:** with Fixed Hoisting Eye

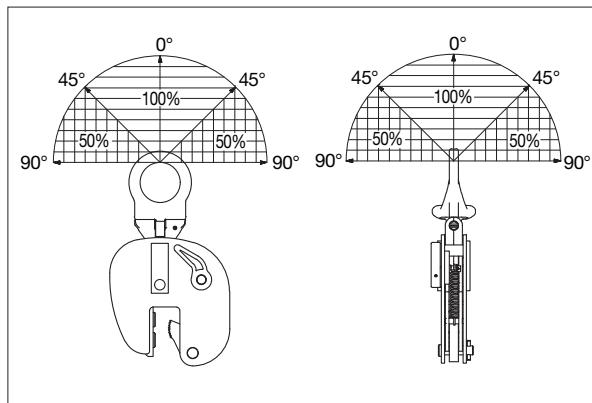
Model	Working Load Limit (t)*	Stock No.	Weight Each (kg)	Dimensions (mm)								
				Profile A †	B	C	D	E	F	G	H	K
IPBUUZ	0.75	2705601	8.5	HP 120-200	85	226	390	70	210	61	70	16
<b>With fixed hoisting eye</b>												
IPBUZ	0.75	2705600	7.0	HP 120-200	85	226	390	70	210	61	70	16
IPBUZ	1.5	2705701	15.0	HP 220-430	196	397	568	70	256	69	48	16
IPBUZ	3.75	2705702	29.2	HP 220-430	238	438	565	80	355	64	100	20

\* Design Factor based on EN 13155 and ASME B30.20. † Profile A is the type of Holland Bulb (HP) style and size material.

IPBUZ



IPBUUZ

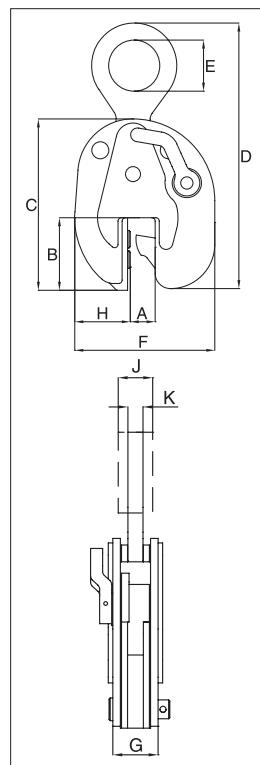


IPSBUUZ



### For Lifting, Transferring and Placing Complete Shipsections

- Available in capacities of 4.5 through 22.50 metric tons (higher Working Load Limits are available upon request).
- Wide variety of jaw openings available: HP 100mm to HP 430mm.
- Welded alloy steel body for strength and smaller size. Forged alloy components, where required.
- Individually Proof Tested to 2 times the Working Load Limit with certification.
- Company name (Crosby IP), logo, Working Load Limit and jaw opening permanently stamped on body.
- Each product is individually serialized, with the serial number and Proof Load test date stamped on body. User manual with test certificate is included with each clamp.
- Maintenance and repair kits are available.



**Model IPSBUUZ / IPSBUSUZ:** With Universal Hoisting Eye

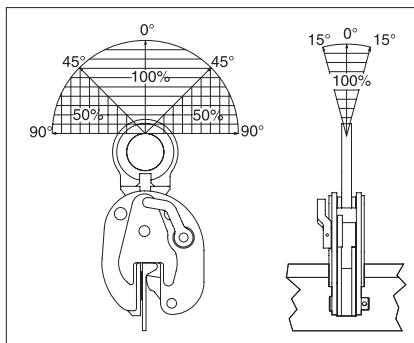
**Model IPSBUZ / IPSBUSZ:** With Fixed Hoisting Eye

Load Rated

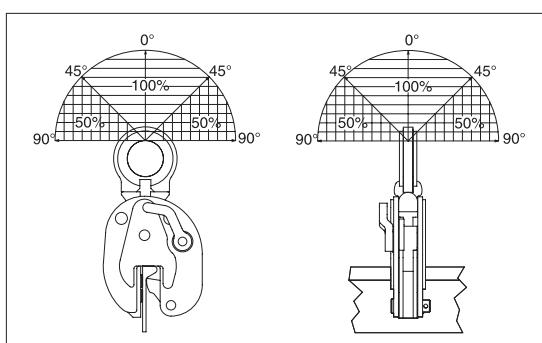
Model	Working Load Limit (t)*	Stock No.	Weight Each (kg)	Dimensions (mm)									
				A†	B	C	D	E	F	G	H	J	K
IPSBUUZ	4.5	2705771	15.5	HP 100-160	107	252	450	75	206	96	82	36	20
IPSBUUZ	9	2705773	43.0	HP 100-160	105	274	491	80	248	123	104	44	20
IPSBUSUZ	4.5	2705772	38.0	HP 180-430	227	428	635	75	377	95	128	-	20
IPSBUSUZ	9	2705774	69.0	HP 180-430	227	478	718	80	425	118	155	44	25
With fixed hoisting eye													
IPSBUZ	4.5	2705721	13.5	HP 100-160	107	252	382	75	206	96	82	-	20
IPSBUZ	9	2705723	23.0	HP 100-160	105	274	461	80	248	123	104	-	30
IPSBUSZ	4.5	2705722	35.8	HP 180-430	227	428	592	75	377	95	128	-	20
IPSBUSZ	9	2705724	68.0	HP 180-430	227	478	663	80	425	118	155	45	25
IPSBUSZ	15	2705728	64.0	HP 180-430	226	485	690	88	401	100	135	49	25
IPSBUSZ	22.5	2705730	100	HP 180-430	224	543	740	90	470	116	185	-	30

Design Factor based on EN 13155 and ASME B30.20. † Profile A is the type of Holland Bulb (HP) style and size material.

### IPSBUZ



### IPSBUUZ

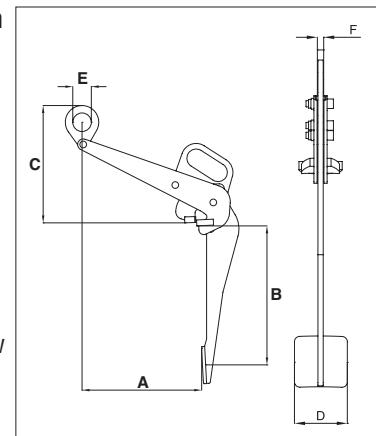


IPDV



**Designed to lift, move and transfer 50-55 gallon drums with steel tops**

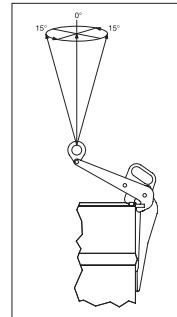
- Available in capacity of .5 metric tons (higher Working Load Limits are available upon request).
- Jaw openings available: IPDV - 300mm and IPVK - 17mm.
- Welded alloy steel body for strength and smaller size. Forged alloy components, where required.
- Individually Proof Tested to 2 times the Working Load Limit with certification.
- Company name (Crosby IP), logo, Working Load Limit and jaw opening permanently stamped on body.
- Each product is individually serialized, with the serial number and Proof Load test date stamped on body. User manual with test certificate is included with each clamp.
- Maintenance and repair kits are available.

**Model IPDV**

Model	Working Load Limit (t)*	Stock No.	Weight Each (kg)	Dimensions (mm)					
				Jaw A	B	C	D	E	F
IPDV	0.5	2700118	7.1	300	375	290	100	50	12

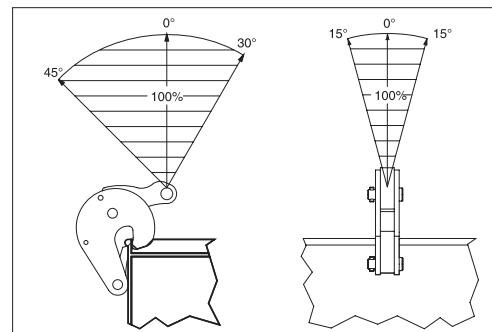
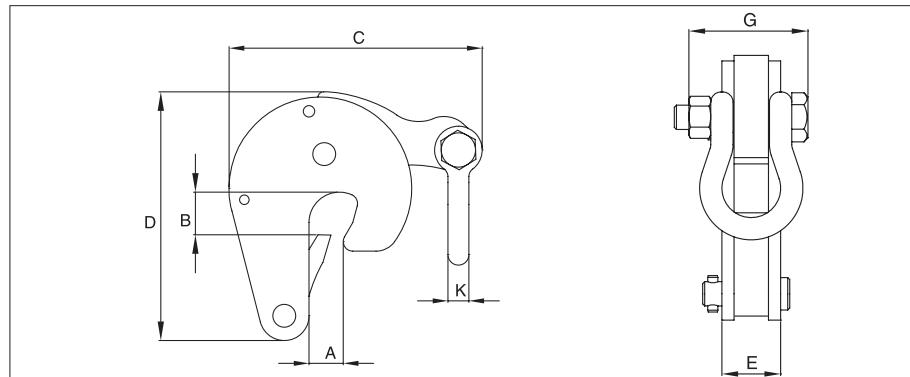
\*Design Factor based on EN 13155 and ASME B30.20.

*Load Tested*

**IPVK****Model IPVK**

Model	Working Load Limit (t)*	Stock No.	Weight Each (kg)	Dimensions (mm)						
				Jaw A	B	C	D	E	G	K
IPVK	0.5	2700116	1.6	0 - 17	26	135	132	29	51	11

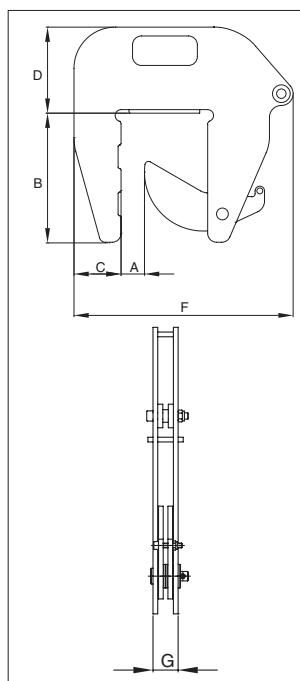
\* Design Factor based on EN 13155 and ASME B30.20.



## IPCC

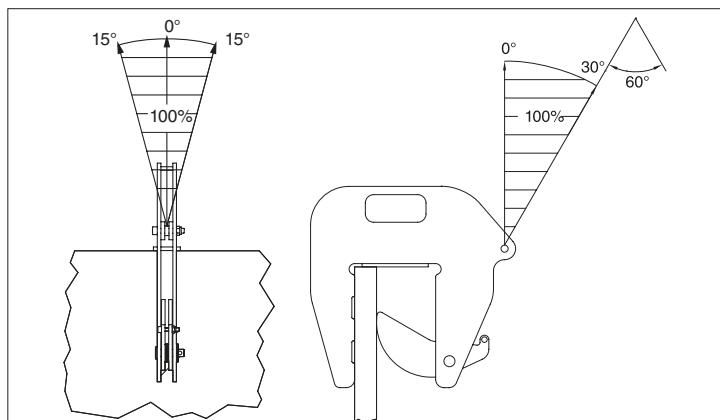

**For Lifting and Transferring Concrete Pipe Sections and Wells**

- Available in capacity of 1 metric tons (higher Working Load Limits are available upon request).
- Jaw opening available: 40 - 140mm.
- Welded alloy steel body for strength and smaller size. Forged alloy, components where required.
- Equipped with handle for easy placement.
- Individually Proof Tested to 2 times the Working Load Limit with certification.
- Company name (Crosby IP), logo, Working Load Limit and jaw opening permanently stamped on body.
- Each product is individually serialized, with the serial number and Proof Load test date stamped on body. User manual with test certificate is included with each clamp.
- Maintenance replacement parts are available.

**Model IPCC**

Model	Working Load Limit Per Pair (t)*	Stock No.	Weight Each (kg)	Dimensions (mm)					
				Jaw A	B	C	D	F	G
IPCC	1	2700037	9.2	40-140	225	80	146	372	37

\* Design Factor based on EN 13155 and ASME B30.20.

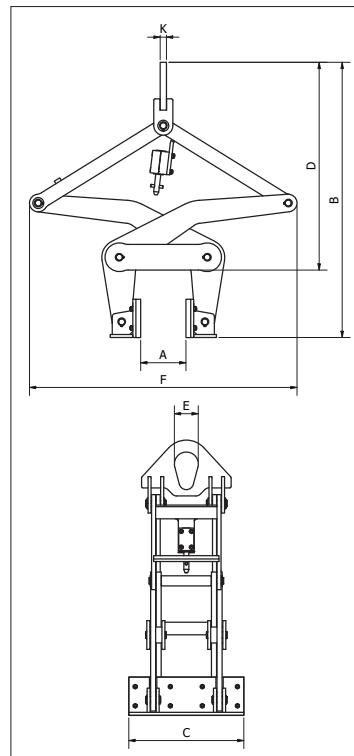


IPBG



**The CrosbyIP Barrier Grab provides a fast and efficient method for handling road barriers.**

- Hands-free operation.
- Welded alloy steel construction for strength and smaller size.
- Comes equipped with polyurethane pads. (Replacement kits are available.)
- Individually Proof Tested to 2 times the Working Load Limit with certification.
- Company name (Crosby IP), logo, Working Load Limit and jaw opening permanently stamped on body.
- Each product is individually serialized, with the serial number and Proof Load test date stamped on body. User manual with test certificate is included with each clamp.



### Barrier Grab

Model	WLL (t)*	Stock No.	Weight Each (kg)	Dimensions (mm)						
				Jaw A	B	C	D	E	F	K
IPBG	4	2704018	156	152 (min.) 305 (max.)	1149 861	457	882 598	95	1038 95	25 1128

\* Design factor based on EN13155 and ASME B30.20.



The IPU10 vertical lifting clamp is used for lifting, turning, moving or vertical transfer of sheet, plates, or fabrications from horizontal to vertical and down to horizontal (180°) as needed. The hinged hoisting eye allows for the clamp to place and lift the load from any direction, or with a multiple leg sling without side-loading the clamp.



The IPNM10 vertical lifting clamp is used for lifting, turning, moving or vertical transfer of sheet, plates, or fabrications from horizontal to vertical and down to horizontal (180°) as needed without marring the surface of the material. Materials such as aluminum, stainless steel, painted materials, aircraft skins, composite material, glass, plastic, etc., can be lifted without marring. Will not mar, or scratch the material surface.



The IPNM10P vertical lifting clamp is used for lifting, turning, moving or vertical transfer of sheet, plates, or fabrications from horizontal to vertical and down to horizontal (180°) as needed without marring the surface of the material. Materials such as aluminum, stainless steel, painted materials, aircraft skins, composite material, glass, plastic, etc., can be lifted without marring. The protective cover reduces the risk of damage to surrounding plates. Will not mar, or scratch the material surface.



The IPU10A automatically clicks onto the material as soon as the clamp is placed on the plate. The fact that the safety lock remains in position as the clamp closes precludes hazardous situations. Fastening the IPU10A clamp in places that are difficult to reach is no problem.



The IPHM10 horizontal lifting clamps have a pretension feature that allows the user to attach the clamps to the material for horizontal lifting and transfer of non-sagging material. To be used where material surface must not be damaged. These clamps must be used in pairs or more.



The IPH10 horizontal lifting clamps with spring loaded tension have a pretension feature that allows the user to attach the clamps to the material for horizontal lifting and transfer of non-sagging material. These clamps must be used in pairs or more.



The IPH10E / IPH10JE horizontal lifting clamps are for use in the lifting and transfer in horizontal position of non-sagging materials or of bundles of non-sagging material. These clamps must be used in pairs or more.



The IPHOZ horizontal lifting clamp is to be used for lifting and transferring, in the horizontal position, of thin sheet and other materials that will sag or bend when lifted. These clamps must be used in pairs or more.



The IPPE10 type clamp is suitable for lifting and transferring bundles of non-bendable sheets of metal in a horizontal position. The jaw opening can be easily adjusted for the height of the bundle or plate. The IPPE10 has magnets in the footplate. This allows one person to operate multiple clamps at the same time when lifting loads. These clamps must be used in pairs or more.



The IPPE10BNM lifting clamps may be used for virtually all applications, where the objects that are to be lifted or transported require optimal protection against surface damage. This also applies to materials with a very smooth surface, composites, plates with a protective cover or hard surface plates. These clamps have to be used in pairs.



The IPBC horizontal lifting clamps have a pretension feature that allows the user to attach the clamps to the material for horizontal lifting and transfer of sagging and non-sagging material. These clamps may also be used to handle material that will be used in shears, bending and rolling machines or other fabrication equipment. May also be used for turning beams from the "H" into the "I" position.



The IPHGZ, IPHGUZ horizontal lifting clamps have a pretension locking feature that allows the user to attach the clamps to the material for horizontal lifting and transfer of sagging and non-sagging material. These clamps may also be used to handle material that will be used in shears, bending and rolling machines or other fabrication equipment. May also be used to move and lift structural shapes such as I-Beams, H-beams etc.



The IPBK10 beam clamp is used for lifting, transferring and stacking H-Beams. A ring-center hoist eye allows for the beam flange to remain vertical. This series of clamps can be used in vertical and horizontal moving, transferring and stacking of different types of structural designs, such as H-Beams, angles, etc, depending on the application desired.



The IPVZ / IPVUZ beam clamp is used for vertical lift and transfer of angle iron and other loads that have only a small gripping area for the clamp ("U" has universal hoisting eye). This series of clamps can be used in vertical and horizontal moving, transferring and stacking of different types of structural designs, such as H-beams, angles, etc, depending on the application desired.



The IPBHZ beam clamp is used for lifting, transferring and stacking I-Beams & H-Beams. An ring-center hoist eye allows for the beam flange to remain vertical. This series of clamps can be used in vertical and horizontal moving, transferring and stacking of different types of structural designs, such as H-Beams, angles, etc, depending on the application desired.



The IPBSNZ beam clamp is used for lifting, transferring and stacking I-Beams. An ring-center hoist eye allows for the beam flange to remain vertical. This series of clamps can be used in vertical and horizontal moving, transferring and stacking of different types of structural designs, such as H-Beams, angles, etc, depending on the application desired.



The IPTK & IPTKW series beam clamp is suitable for use as a temporary tackle eye for a beam.

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The IPTKU series beam clamp has an improved hinged hoisting eye that increases the loading angles and an optional new double locking device.



This anchor clamp is suitable as an anchor device for one person, with a personal fall arrest (sheathed and with double locking) system.



The IPSTARTEC11 beam clamp has been specially developed for lifting with the body in vertical position, controlled tilting, transportation and stacking of steel "H" and "I" profiles. By placing the chain guide in the appropriate position, it is easy to switch from lifting to tilting and back again, which shifts the center of gravity.



The IPSC10 screw style clamp is for positioning, pulling and turning plates or fabrications.



The IPBT010 shipbuilding clamp is used as a temporary tackle eye in spaces which have been reinforced with HP (bulb) profiles such as engine rooms and shipsections. This clamp is fitted with a screwed spindle for easy attachment of the clamp. The moment a load is applied, the clamp is automatically fixed.



The IPBUZ shipbuilding clamps are used for lifting, transferring and placing bulb profiles onto ship's hulls perpendicularly. These clamps are fitted with a locking device for both open and closed positions, which ensures complete reliability. They are to be used exclusively for bulb profiles (not for plates).



The IPSBU(U)Z shipbuilding clamps are used for the lifting, transfer and placing of complete shipsections. These clamps are fitted with a locking device for both open and closed positions, which ensures complete reliability. They are to be used exclusively for bulb profiles (not for plates).



The IPDV drum clamp is for vertical lift and transfer. Allows drum to remain in an upright position during the lift and transfer using one clamp.



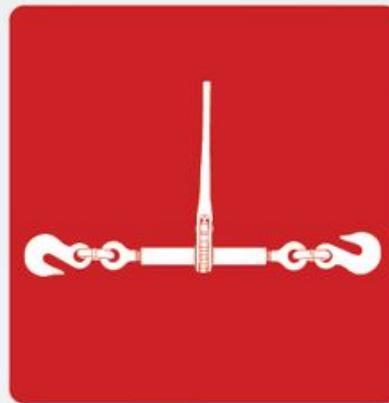
The IPVK drum clamp is for vertical lift and transfer. Automatically locks on drum, and can be used alone or in pairs.



The IPCC is suitable for the vertical lifting and transfer of concrete pipe sections and wells. Very easy application and removal of the clamp thanks to the built-in carrying-grips. Normally used in combination with 7mm chain (not supplied). These clamps must be used in pairs or more.

# LOAD SECUREMENT

The safest and strongest in load securement with renowned premier brands.

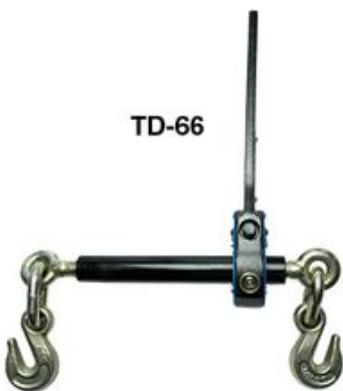


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### EFFICIENT & ERGONOMIC LOAD SECUREMENT TECHNOLOGY

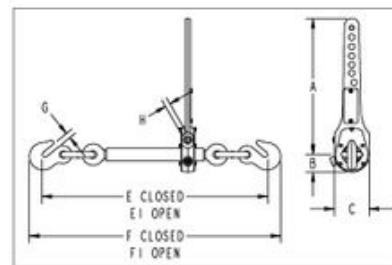
Speedbinders is changing the load binder industry with its patented Torque Drive technology. Our line of products provide considerable time saving benefits for drivers as well as enhanced benefits by eliminating repetitive, straining operations.



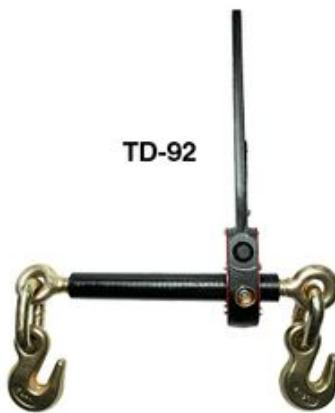
**TD-66**



- Blue marking
- Common applications: Light equipment transport & logging
- 3:1 design factor



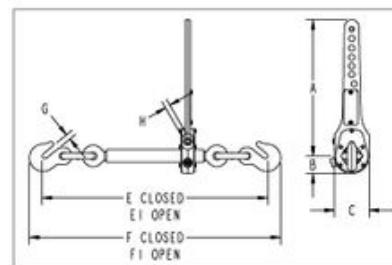
Model	Stock No.	Min-Max Chain Size (mm)	Working Load Limit (kg)	Proof Load (kg)	Weight Each (kg)	Dimensions (mm)								
						A	B	C	E	E1	F	F1	G	H
TD-66	3674481	8 - 10	2994	4491	6	357	46	91	585	813	642	870	13	13



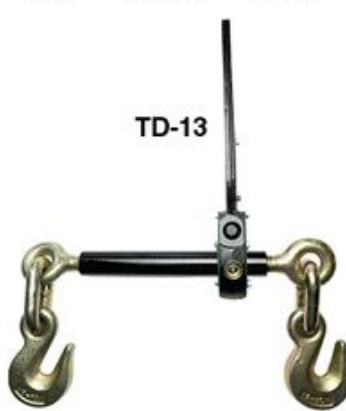
**TD-92**



- Red marking
- Common applications: Equipment transport, heavy towing & steel coil transport
- 3:1 design factor



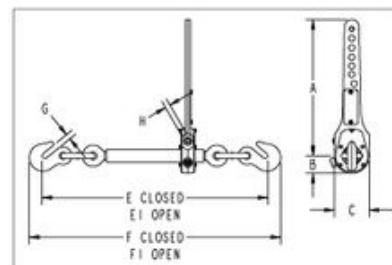
Model	Stock No.	Min-Max Chain Size (mm)	Working Load Limit (kg)	Proof Load (kg)	Weight Each (kg)	Dimensions (mm)								
						A	B	C	E	E1	F	F1	G	H
TD-92	3674490	10 - 13	4173	6260	7	357	46	91	591	819	657	886	14	13



**TD-13**



- Green marking
- Common applications: Equipment transport, heavy hauling & steel coil transport
- 3:1 design factor



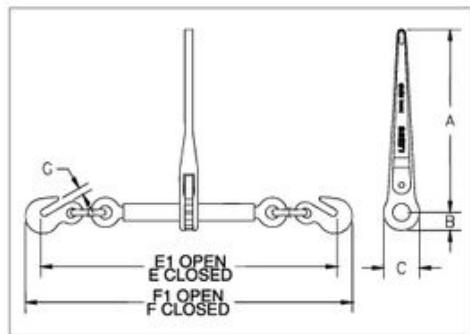
Model	Stock No.	Min-Max Chain Size (mm)	Working Load Limit (kg)	Proof Load (kg)	Weight Each (kg)	Dimensions (mm)								
						A	B	C	E	E1	F	F1	G	H
TD-13	3674499	13 - 16	5897	8846	9	357	46	91	671	899	750	979	18	13

Spare drive bolts and grease zerks available

APPLICATION AND WARNING INFORMATION  
SECTION 17



Crosby LEBUS L-140



Load Tested

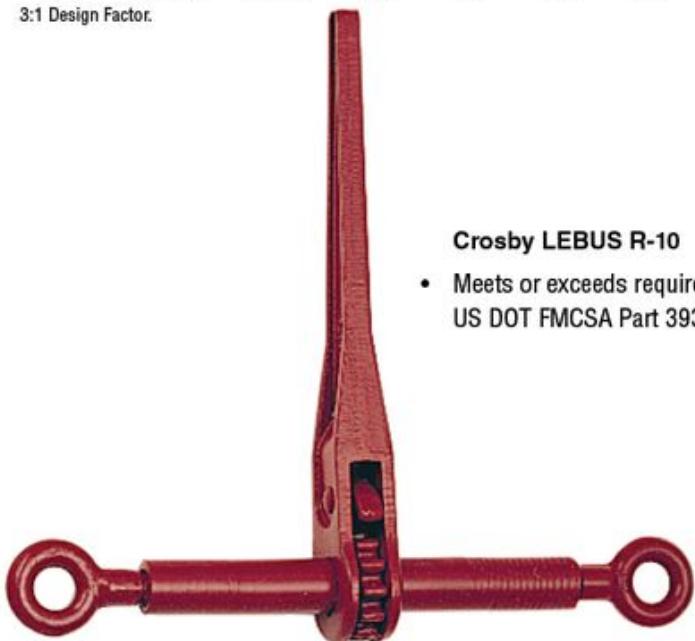
- Upgraded for use with Grades 70, 80 and 100 Chain.
- Utilizes standard Crosby A-323 Alloy Eye Grab Hooks.
- New design one piece forged handle.
- Continuous take-up feature provides finite adjustment to tie down load.
- One piece assembly, no bolts or nuts to loosen.
- Ratchet spring is rust proofed.
- All load bearing or holding parts forged.
- Easy operating positive ratchet.
- Binders shown with Proof Loads have been individually proof tested to values shown, prior to shipment.
- Meets or exceeds requirements of US DOT FMCSA Part 393 Subpart I.
- Matches the Working Load Limit of Grade 100 chain except for 16mm size.

APPLICATION AND WARNING INFORMATION  
SECTION 17

### Crosby LEBUS L-140 Standard Ratchet Type Load Binders

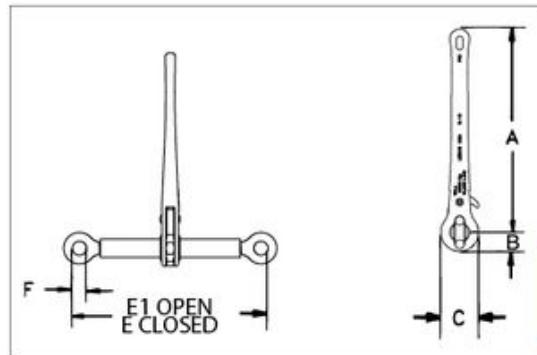
Model	Stock No.	Min-Max Chain Size (mm)	Working Load Limit (t)	Proof Load (kN)	Weight Each (kg)	Handle Length (mm)	Barrel Length (mm)	Take Up (mm)	Dimensions (mm)							
									A	B	C	E	E1	F	F1	G
R-7	1048404	8 - 10	3.99	79	5.49	356	254	203	356	35.1	70.0	583	786	638	842	12.7
R-A	1048422	10 - 13	6.80	134	6.66	356	254	203	356	35.1	70.0	641	845	702	905	16.0
R-C	1048440	13 - 16	7.26	143	6.60	356	254	203	356	35.1	70.0	670	873	748	951	18.3

3:1 Design Factor.



Crosby LEBUS R-10

- Meets or exceeds requirements of US DOT FMCSA Part 393 Subpart I.

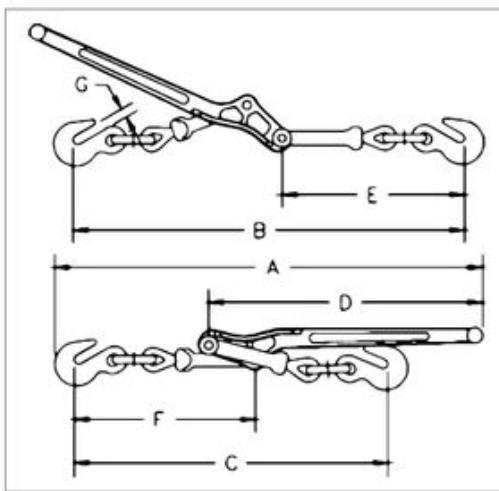
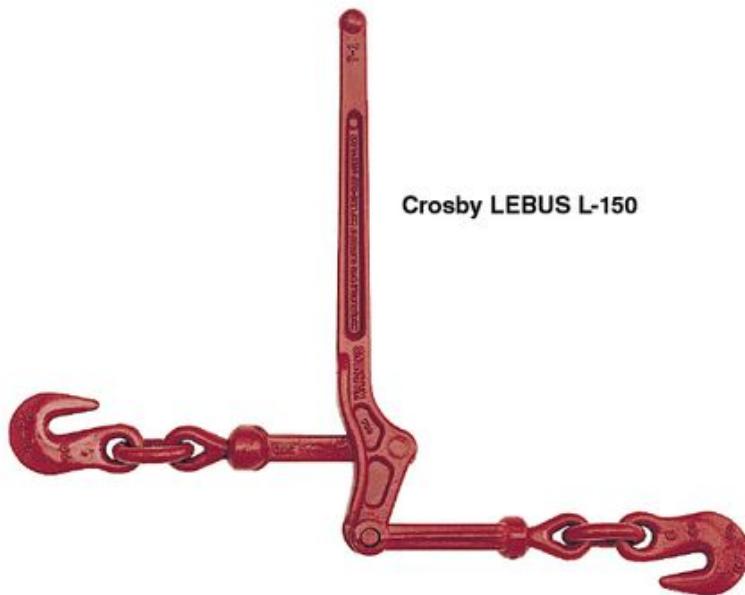


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### Crosby LEBUS R-10 Binder without Links and Hooks

Model	Stock No.	Working Load Limit (t)	Weight Each (kg)	Handle Length (mm)	Barrel Length (mm)	Take Up (mm)	Dimensions (mm)					
							A	B	C	E	E1	F
R-10	1048468	7.26	3.65	356	254	203	356	35.1	70.0	356	559	25.4

3:1 Design Factor.



Load Tied™

QT

APPLICATION AND WARNING INFORMATION  
SECTION 17

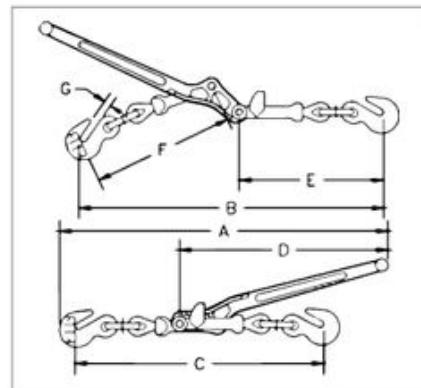
- Extra heavy construction at leverage point to prevent spreading. Heel of binder toggles away from load, permitting easy release.
- Ball and socket swivel joints at hook assemblies permit a straight line pull.
- Binders shown with Proof Loads have been individually proof tested to values shown, prior to shipment.
- Forged steel – Quenched & Tempered.
- Meets or exceeds requirements of US DOT FMCSA Part 393 Subpart I.

## Crosby LEBUS L-150 Standard Lever Type Load Binders

Model	Stock No.	Std. Pkg.	Min-Max Chain Size (mm)	Working Load Limit (t)	Proof Load (kN)	Ultimate Load (t)	Weight Each (kg)	Handle Length (mm)	Take Up (mm)	Dimensions (mm)						
										A	B	C	D	E	F	G
7-1	1048128	4	8 - 10	2.45	48	8.63	3.18	406	114	613	562	454	406	264	264	12.7
A-1	1048146	4	10 - 13	4.17	82	15.0	5.66	475	114	730	654	540	475	313	314	16.0
C-1	1048164	4	13 - 16	5.90	116	20.9	8.93	533	121	794	756	635	533	372	349	18.3

**Crosby LEBUS A-1W**

- Forged steel – Quenched & Tempered.
- Used as a come-a-long for short take-up on chain.
- Binder toggles away from the load.
- Binders shown with Proof Loads have been individually proof tested to values shown, prior to shipment.
- Meets or exceeds requirements of US DOT FMCSA Part 393 Subpart I.

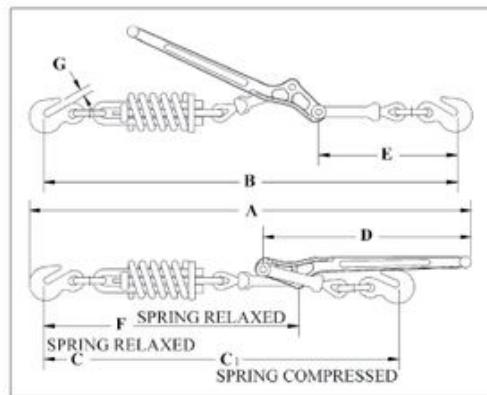
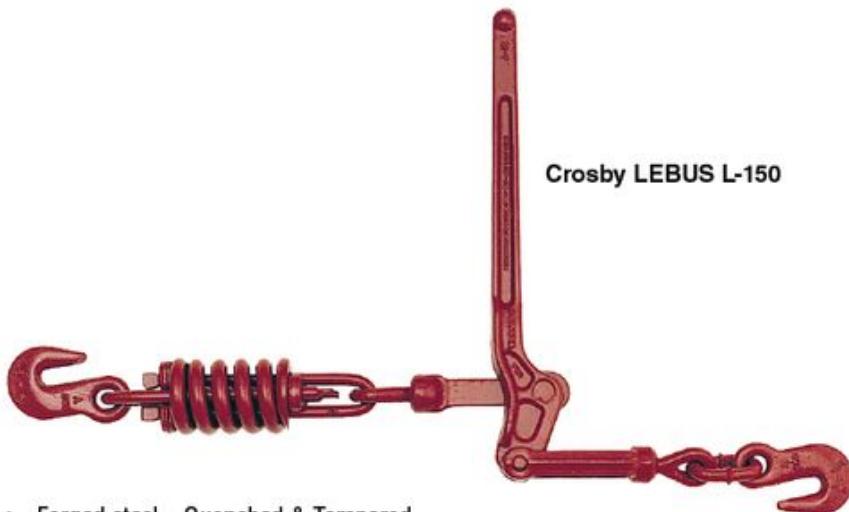


Load Tested

QT

APPLICATION AND WARNING INFORMATION  
SECTION 17**Crosby LEBUS A-1W Walking Load Binders**

Model	Stock No.	Chain Size (mm)	Working Load Limit (t)	Proof Load (kN)	Ultimate Load (t)	Weight Each (kg)	Handle Length (mm)	Dimensions (mm)						
								A	B	C	D	E	F	G
A-1W	1048388	13 only	4.17	82	15.0	5.94	475	730	654	540	475	313	314	16.0



- Forged steel – Quenched & Tempered.
- Spring cushion for load protection, cushions shock and sway.
- Binder toggles away from the load.

Load Rated

QT

APPLICATION AND WARNING INFORMATION SECTION 17

### Crosby LEBUS L-150 Snubbing Load Binders

Model	Stock No.	Min-Max Chain Size (mm)	Working Load Limit (t)	Ultimate Load (t)	Weight Each (kg)	Handle Length (mm)	Take Up (mm)	Compression Strength of Spring (kg)	Dimensions (mm)							
									A	B	C	C1	D	E	F	G
7-12	1048280	8 - 10	2.45	7.27	5.10	406	108	1040	832	781	711	673	406	264	483	12.7
A-12	1048306	10 - 13	4.17	9.09	8.48	470	114	1500	945	864	749	773	475	313	530	16.0

### Crosby LEBUS C-188 Spectrum 8®



- Heat treated alloy steel.
- Ends fitted with Crosby A-330 Quenched & Tempered alloy clevis grab hook.
- Finish – self colored.
- Meets or exceeds requirements of US DOT FMCSA Part 393 Subpart I.

### Crosby LEBUS C-188 Spectrum 8® Alloy Boomer Chains

Chain Size (mm)	Stock No.	Working Load Limit (kg)	Standard Length (m)	Weight Each (kg)
10	279889	3200	6.10	13.7
13	279898	5400	6.10	24.5

### Crosby LEBUS L-180



- Hooks are Forged – Quenched & Tempered.
- Individually Proof Tested.
- Spectrum 8® alloy steel from 20mm through 32mm (3/4" - 1-1/4").
- Meets or exceeds requirements of US DOT FMCSA Part 393 Subpart I.

### Crosby LEBUS L-180 Winchline Tail Chain

Wire Rope Diameter (mm)*	Stock No.	Working Load Limit (kg)†	Length (mm)	No. of Links	Weight Each (kg)
8 - 10	1091473	2450	18	11	1.36
13 - 16	1091482	5900	18	7	2.81
19 - 22	1091511	15510	24	8	8.25
25 - 29	1091516	21640	18	5	9.60
25 - 29	1091525	21640	24	7	10.6
32	1091532	32795	24	5	18.1

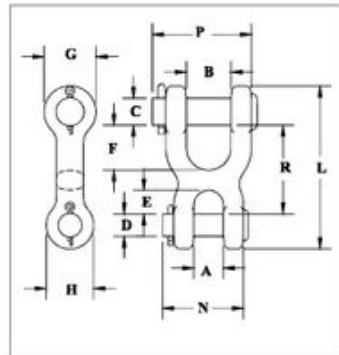
\* Recommended for IPS or XIP (EIP), RRL, FC or IWRC wire rope. † Ultimate Load is 3.5 times the Working Load Limit.



### S-247

#### Double Clevis Link

- All pins alloy steel - Quenched & Tempered.
- Body is forged and heat treated carbon steel.
- Designed for linking all popular sizes of Grade 3 and Grade 4 chain to rings, end links, eye hooks, pad eyes, tractor eye bolts, etc.
- Features quick and easy assembly.



**Q&T**

### S-247 Double Clevis Link

Chain Size (mm)	Stock No.	Working Load Limit (t)	Weight Each (kg)	Dimensions (mm)											
				A	B	C	D	E	F	G	H	L	N	P	R
7	1013021	1.18	.17	12.7	19.1	12.7	7.85	9.65	19.1	25.4	20.6	71.5	35.1	42.2	38.1
8-10	1013049	2.45	.37	14.2	25.4	16.0	11.2	11.9	25.4	30.2	25.4	89.5	44.5	57.0	48.5
11	1013067	3.27	.57	17.5	28.7	17.5	14.2	15.0	27.7	33.3	30.2	103	51.0	63.5	55.5
13	1013085	4.17	.71	20.6	31.8	19.1	16.0	17.3	31.8	36.6	33.3	115	57.0	70.0	62.5

\* Ultimate Load is 4 times the Working Load Limit.

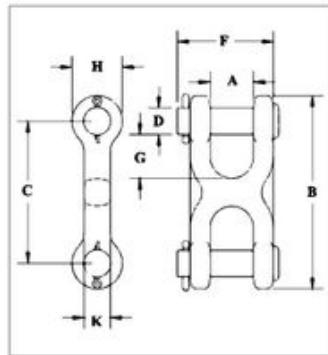
Not Suitable for use with Grade 80 or Grade 100 chain and chain slings used in overhead lifting.



### S-249

#### Twin Clevis Link

- Available in three popular sizes.
- Body is forged and heat treated carbon steel.
- All pins alloy steel - Quenched & Tempered.
- Features quick and easy assembly.
- Twin Clevis design provides a variety of uses and can be used with Grade 3, Grade 4 and Grade 7 chain.



**Q&T**

### S-249 Twin Clevis Link

Chain Size (mm)	Stock No.	Working Load Limit (t)	Weight Each (kg)	Dimensions (mm)							
				A	B	C	D	F	G	H	K
7-8	1012861	2.13	.14	11.9	63.5	39.6	9.65	33.3	10.9	23.9	12.7
10	1012889	3.00	.20	13.5	71.5	46.0	11.2	38.9	12.7	25.4	14.2
11-13	1012905	5.10	.44	16.5	92.0	58.5	14.2	48.5	16.0	33.3	20.6

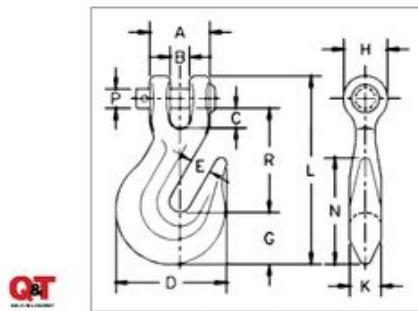
4:1 Design Factor.

Not Suitable for use with Grade 80 or Grade 100 chain and chain slings used in overhead lifting.



### A-330 Clevis Grab Hook

- Forged steel - Quenched & Tempered.
- Design factor is 4:1.
- Features quick and easy assembly.
- Designed for Grade 8 chain.



### A-330 Clevis Grab Hooks

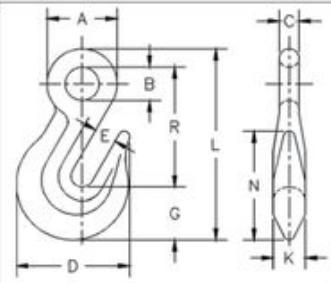
Chain Size (mm)	Stock No.	Working Load Limit (t)	Weight Each (kg)	Dimensions (mm)											
				A	B	C	D	E	G	H	K	L	N	P	R
7	1027249*	1.59	.16	25.4	8.15	8.15	46.0	8.65	22.4	18.3	11.9	77.5	44.5	78.5	41.7
8	1027267*	2.04	.29	30.2	9.90	9.90	54.0	11.2	24.6	23.1	15.0	93.0	52.5	9.65	61.5
10	1027285*	3.22	.45	35.1	11.4	11.4	64.5	12.7	29.7	25.4	18.3	109	59.5	11.2	61.0
13	1027329*	8.21	.95	47.8	14.5	14.5	90.5	16.8	38.9	31.8	19.8	145	75.5	16.0	81.0
16	1027347	11.2	1.91	58.0	23.1	23.1	112	19.8	45.2	39.6	27.7	179	109	19.1	104
19	1027365	11.2	2.95	66.5	23.9	23.9	133	23.9	54.0	47.8	33.3	207	129	22.4	118

\* These A-330 hooks are forged with an "8" designating Grade 80, and are suitable for use with Grade 8 chain in overhead lifting applications as long as the hook is proof-tested as part of the chain sling assembly or as an individual component per ASME B30.9. We recommend the use of the A-1338 / A-1358 which is proof tested and supplied with a proof test certificate.



### A-323 Eye Grab Hook

- Forged steel - Quenched & Tempered.
- Design Factor is 4:1.
- Designed for Grade 8 chain.



### A-323 Eye Grab Hooks

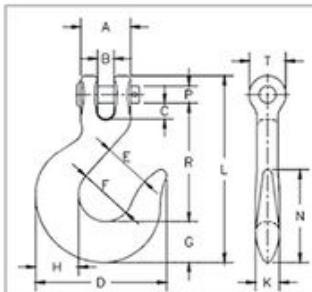
Chain Size (mm)	Stock No.	Working Load Limit (t)	Weight Each (kg)	Dimensions (mm)											
				A	B	C	D	E	G	H	K	L	N	P	R
7	1026384*	1.59	.13	27.7	13.5	7.85	46.0	8.65	22.4	11.9	77.5	44.5	47.8		
8	1026400*	2.04	.20	33.3	15.7	9.65	54.0	11.2	24.6	15.0	91.0	52.5	58.0		
10	1026428*	3.22	.36	39.6	19.1	11.2	64.5	12.7	29.7	18.3	109	59.5	68.5		
13	1026464*	5.44	.79	49.3	22.4	13.5	90.5	16.8	38.9	19.5	138	75.5	86.0		
16	1026482*	8.21	1.47	60.5	26.9	16.8	112	19.8	48.0	25.4	169	96.0	104		
19	1026507	11.2	2.69	73.0	35.1	19.1	133	23.9	54.0	33.3	205	129	131		

\* These A-323 hooks are forged with an "8" designating Grade 80, and are suitable for use with Grade 8 chain in overhead lifting applications as long as the hook is proof-tested as part of the chain sling assembly or as an individual component per ASME B30.9. We recommend the use of the A-1328 which is proof tested and supplied with a proof test certificate.



### A-331 Clevis Slip Hook

- Forged alloy steel – Quenched & Tempered.
- All pins are alloy steel – Quenched & Tempered.
- Not suitable for use with Grade 80 chain and chain slings used in overhead lifting. For slings or lifting chains, Grade 80 or 100 alloy components are recommended.



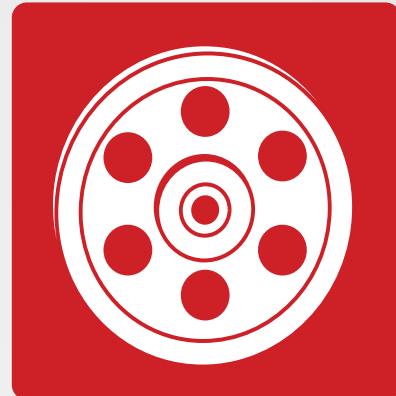
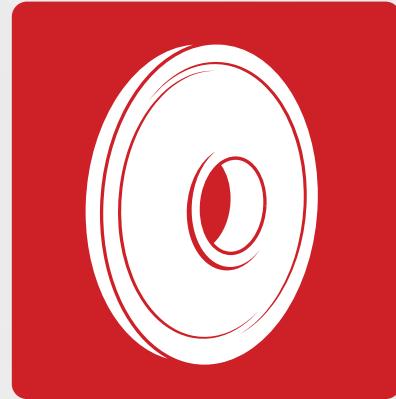
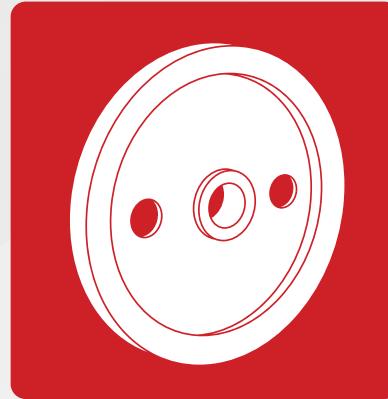
### A-331 Clevis Slip Hooks

Chain Size (mm)	Stock No.	Working Load Limit (t)	Weight Each (kg)	Dimensions (mm)													
				A	B	C	D	E	F	G	H	K	L	N	P	R	
7	1027524	1.25	.25	26.9	8.15	7.35	70.0	23.9	30.2	20.6	22.4	12.7	100	54.0	7.87	65.5	18.3
8	1027542	1.95	.36	31.0	10.9	8.65	77.5	26.9	31.8	23.9	25.4	14.2	115	57.0	9.65	73.0	24.6
10	1027560	2.38	.55	35.1	11.4	11.2	92.0	33.3	38.1	28.7	30.2	16.8	131	65.0	11.2	82.5	26.9
11	1027588	3.18	.93	43.9	15.0	15.2	110	39.6	46.0	35.1	36.6	20.6	152	77.5	14.2	94.0	30.2
13	1027604	4.08	1.25	47.8	14.5	13.5	122	42.9	49.3	39.6	41.4	23.1	166	87.5	16.0	102	33.3
16	1027622	6.12	2.15	58.5	18.0	18.0	143	51.0	60.5	46.0	49.3	27.7	200	102	19.1	125	39.6
19	1027640	8.73	5.12	81.0	30.0	32.8	187	63.5	76.2	60.5	63.5	36.6	255	129	25.4	155	53.0

4:1 Design Factor.

# SHEAVES

Roll-forged sheaves that provide an upset metal flow without creating a stress zone at the splitting point.



theCrosby group®

[thecrosbygroup.com](http://thecrosbygroup.com)

## CROSBY VALUE ADDED

**McKissick® Roll-Forged Heavy Duty Sheaves** are made by upsetting and forming the groove and flange walls in multiple steps, eliminating the need to split and weaken the groove. This exclusive forging process adds extra strength to the critical groove section.

**McKissick Domed Reinforced Extreme Duty Roll Forged Sheaves** are welded in a circular pattern thus eliminating the higher stresses created by welding ribs or other forms of stiffeners.

**McKissick Heavy Duty Sheaves** are available with machined groove rings or machine forged rings utilized for the rim or hub.

**McKissick Heavy Duty Closed-Die Forged Sheaves** offer the performance of closed-die forging with the precision machining capabilities of CNC machinery.

**McKissick Normal Duty Malleable Cast Sheaves** provide economical solutions for normal service applications.

**McKissick Sheaves** come in a variety of sizes to suit your specific applications. Crosby offers many sheaves as standard and these are shown in the pages that follow. For applications that require unique specifications, Crosby can make minor modifications to many of the sheaves listed at a reasonable charge. We can also custom design and manufacture sheaves to your exact requirements. McKissick roll forged sheaves can be furnished balanced or with lightening holes at a reasonable charge on request.

**Crosby's hardening technique** is a science. It provides a precise maximum hardness for wear-resistance across the wire rope contact area. The McKissick sheave groove is flame hardened to a minimum 35 Rockwell C for a 140° contact area with the wire rope (upon special request the McKissick sheave groove can be flame hardened to a minimum 50 Rockwell C for a 150° contact area with the wire rope). The solid steel plate provides the ideal surface for flame hardening and a closer tolerance fit to the wire rope to reduce fatigue and wear.

The **McKissick hub** is stepped to eliminate stress failure in the weld, common in traditional hub designs. The hub is pressed into place with complete metal-to-metal contact. This helps ensure an accurate alignment to the hub's axis so there is no wobble or lopping of the rotating sheave. The precision aligned hub / sheave wheel combination adds to the bearing life and keeps the sheave on the job longer.

## McKISSICK® STANDARD BEARINGS



## ORDERING INSTRUCTIONS

The following information should be specified when ordering blocks and sheaves:

### Blocks

- Wire rope diameter
- Sheave OD
- Shaft or bore size
- Bearing type or plain bore
- Hub width
- Rim width
- Stock number (if known)
- Special machine features
- Special finishes

If hub or rim dimensions necessitate a dimension other than those shown in this catalog, please contact The Crosby Group for minimums and maximums. Tapered roller bearing sheaves show width over bearing cones, which cannot be altered.

Price and delivery for your special needs, if not shown, are available upon request.