2022 CATALOG
MADE IN THE USA

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PAGE 31

WIRE ROPE TERMINATIONS HOOKS

PLATE CLAMPS

LIFTING BEAMS

SPREADER BEAMS

FORKLIFT ATTACHMENTS

MATERIAL HANDLING

PERSONNEL BASKETS

CUSTOM LIFTING DEVICES

M&W MACHINING & WELDING

NEW PRODUCT

UPDATED PRODUCT

FEATURING NEW & UPDATED PRODUCTS

MACHININGANDWELDING.COM

UPDATED PRODUCT

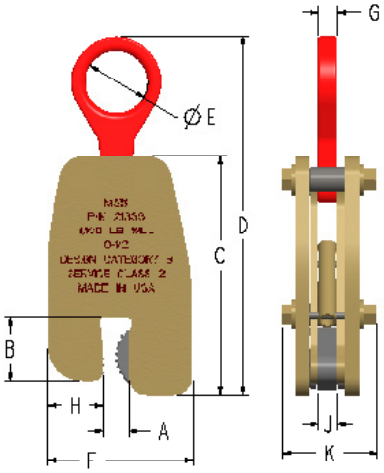
NEW PRODUCT

★★ CONTAINS NEW OR UPDATED PRODUCTS

PLATE CLAMP – STRAIGHT

- Non-welded Construction.
- No Minimum Load
- Camming Stationary Jaw
- Camming Stationary Jaw Automatically Returns to Preload Position
- Self Locking Jaw Closed Mechanism
- Self Locking Jaw Open Mechanism
- 0 - 180 Degree Turning Permissible
- Clamp can be mounted to the work piece without the need for the operator to put hands in the fall path of the work piece
- Designed with a 5 -1 Design Factor Criteria
- ASME B30.20 Operation Compliant
- ASME B30.BTH -1 Design Compliant
- Working Load Limit (WLL) Clearly and Legibly Marked on the Clamp
- Serial Number Clearly and Legibly Marked on the Clamp
- Materials of Manufacture Remain Stable Under Load
- Clamps Can Be Used to Lift Materials with a Surface Hardness of up to 400 Brinell.
- Clamps must be used in accordance with the Instructions in the Operator Manual.
- Operating temperature -40 to 170° Fahrenheit.

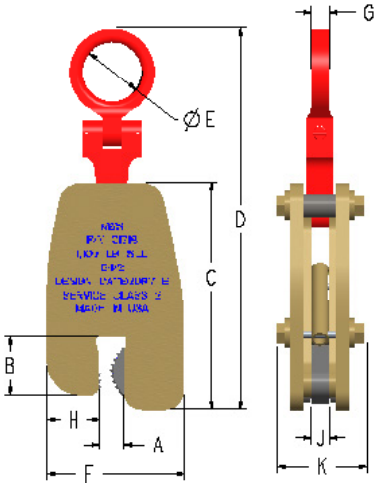
⚠ Prop 65 – See Page 112

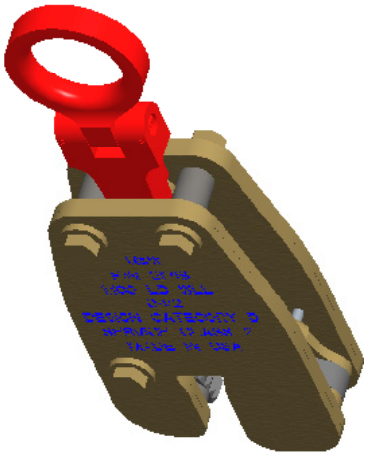


STRAIGHT

WLL (LBS)	Part #	A-Jaw Opening	B	C	D	E	F	G	H	J	K	Weight in Pounds
0-1,100	**21336**	0-0.5	1.64	6.31	9.44	1.63	3.81	0.5	1.45	0.5	2.5	6.1
	21716	0.5-1.0	1.64	6.31	9.44	1.63	4.31	0.5	1.45	0.5	2.5	6.4
	21717	1.0-1.5	1.64	6.31	9.44	1.63	4.81	0.5	1.45	0.5	2.5	6.7
0-2,200	**21851**	0-0.75	1.92	8.06	13.5	2.13	5.5	0.5	1.71	0.75	2.75	11.2
	21852	0.75-1.5	1.92	8.06	13.5	2.13	6.25	0.5	1.71	0.75	2.75	11.9
	21853	1.5-2.25	1.92	8.06	13.5	2.13	7	0.5	1.71	0.75	2.75	12.6
0-4,400	**21912**	0-1.0	2.41	9.37	16.1	2.38	7	0.5	2.21	0.75	3.29	19.8
	21913	1.0-2.0	2.41	9.37	16.1	2.38	8	0.5	2.21	0.75	3.29	21.5
	21914	2.0-3.0	2.41	9.37	16.1	2.38	9	0.5	2.21	0.75	3.29	24
0-11,000	**22685**	0-1.5	3.11	12.75	20.0	3.0	10.5	1.0	3.5	1.13	5.0	66
	22686	1.5-3.0	3.11	12.75	20.0	3.0	12.0	1.0	3.5	1.13	5.0	70
	22687	3.0-4.5	3.11	12.75	20.0	3.0	13.5	1.0	3.5	1.13	5.0	74

PLATE CLAMP – HINGED





HINGED

WLL (LBS)	Part #	A-Jaw Opening	B	C	D	E	F	G	H	J	K	Weight in Pounds
0-1,100	**21718**	0-0.5	1.64	6.31	10.6	1.63	3.81	0.5	1.45	0.5	2.5	6.5
	21719	0.5-1.0	1.64	6.31	10.6	1.63	4.31	0.5	1.45	0.5	2.5	6.8
	21720	1.0-1.5	1.64	6.31	10.6	1.63	4.81	0.5	1.45	0.5	2.5	7.1
0-2,200	**21854**	0-0.75	1.92	8.06	14.7	2.13	5.5	0.5	1.71	0.75	2.75	11.7
	21855	0.75-1.5	1.92	8.06	14.7	2.13	6.25	0.5	1.71	0.75	2.75	12.3
	21856	1.5-2.25	1.92	8.06	14.7	2.13	7	0.5	1.71	0.75	2.75	13
0-4,400	**21915**	0-1.0	2.41	9.37	18.3	2.38	7	0.5	2.21	0.75	3.29	22.8
	21916	1.0-2.0	2.41	9.37	18.3	2.38	8	0.5	2.21	0.75	3.29	24
	21917	2.0-3.0	2.41	9.37	18.3	2.38	9	0.5	2.21	0.75	3.29	26
0-11,000	**22688**	0-1.5	3.11	12.75	23.0	3.0	10.5	1.0	3.5	1.13	5.0	79
	22689	1.5-3.0	3.11	12.75	23.0	3.0	12.0	1.0	3.5	1.13	5.0	82
	22690	3-4.5	3.11	12.75	23.0	3.0	13.5	1.0	3.5	1.13	5.0	85

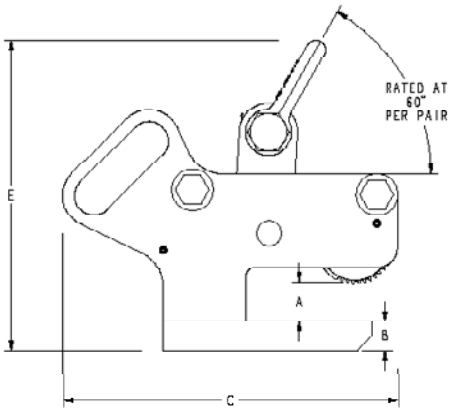
PLATE CLAMP – HORIZONTAL

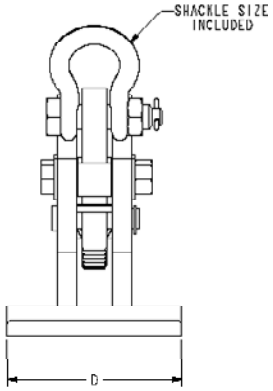
The M&W Horizontal Lifting Clamp is a clamp designed to safely lift and transport rolled steel plates or bundles of plates to another location while the plate or bundles of plates remain in a horizontal position. The clamp when employed in a lift must be used in pairs, or sets of pairs, or multiples, and attached to the side edges of a plate or bundle of plates positioned parallel to the floor. The rigging attached to the clamps is usually made up of multi-legged slings connected to a central hoisting point. The angle of the sling leg to the plate should be 60 degrees as illustrated in the diagram below. Lesser angles will necessitate a reduction in WLL of the clamp

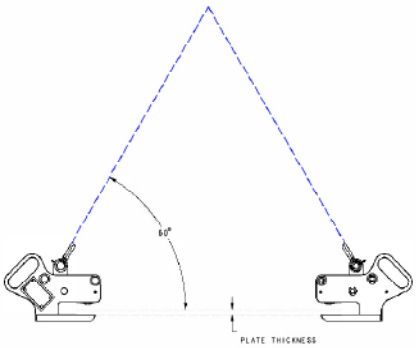
⚠ Prop 65 – See Page 112

Part # Serrated Grip	Part # Non Marring Grip	Rating Per Pair at 60 Degrees	A Thickness Range	B	C	D	E	Shackle Size	Weight in LBS each
24255	24774	1/2 Ton (1,100 LBS)	0 – 3/4"	0.5	7.5	2.75	6.2	3/8"	8
24256	24773	1 1/2 Ton (3,300 LBS)	0 – 1"	0.75	8.6	4.5	8	1/2"	15
24775	24258	3 Ton (6,600 LBS)	0 – 1 1/4"	1	10.3	5.5	10.2	5/8"	36

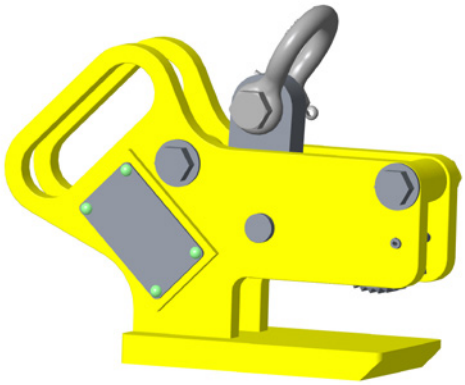
* Sold as each







NEW PRODUCT

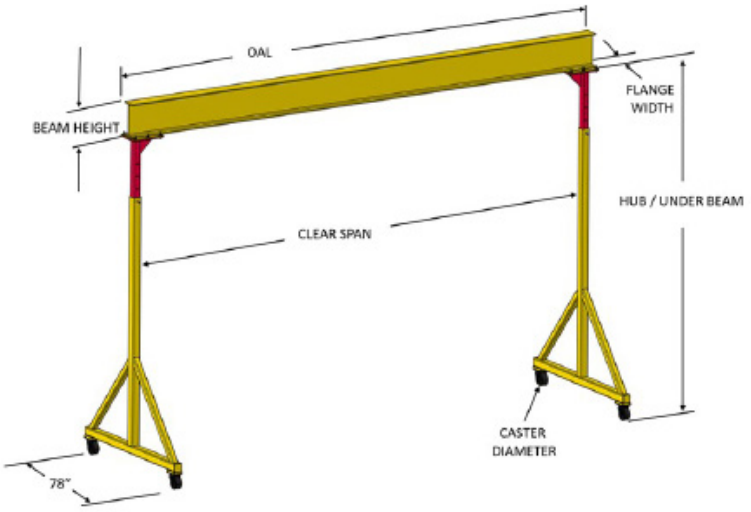


ADJUSTABLE HEIGHT – STEEL GANTRY CRANE

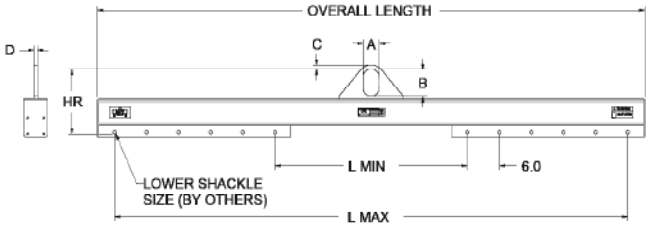
- Bolt on top beam
- Sold with phenolic casters
- Options: Caster brakers, bolt on end stops, bolt on taglines, and trollies

Prop 65 – See Page 112

NEW PRODUCT



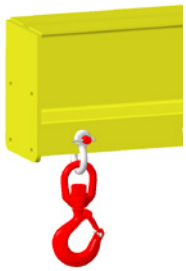
Part #	Capacity	Hub (Under Beam)	Height Adjustments	Overall Length (OAL)	Clear Span	Flange Width	Beam Height	Caster Diameter	Weight
24943	1 Ton (2,000 LBS)	7'-10'	6"	10'	108"	4"	6"	6"	912
24942	1 Ton (2,000 LBS)	9'-12'	6"	10'	108"	4"	6"	6"	949
24941	1 Ton (2,000 LBS)	12'-15'	6"	10'	108"	4"	6"	6"	1005
24940	1 Ton (2,000 LBS)	7'-10'	6"	15'	168"	5.25"	8.1"	6"	1070
24939	1 Ton (2,000 LBS)	9'-12'	6"	15'	168"	5.25"	8.1"	6"	1107
24938	1 Ton (2,000 LBS)	12'-15'	6"	15'	168"	5.25"	8.1"	6"	1163
24937	1 Ton (2,000 LBS)	7'-10'	6"	20'	228"	5.77"	10.3"	6"	1323
24936	1 Ton (2,000 LBS)	9'-12'	6"	20'	228"	5.77"	10.3"	6"	1361
24935	1 Ton (2,000 LBS)	12'-15'	6"	20'	228"	5.77"	10.3"	6"	1416
24933	3 Ton (6,000 LBS)	7'-10'	6"	10'	108"	5.77"	10.3"	6"	1054
24932	3 Ton (6,000 LBS)	9'-12'	6"	10'	108"	5.77"	10.3"	6"	1095
24927	3 Ton (6,000 LBS)	12'-15'	6"	10'	108"	5.77"	10.3"	6"	1150
24931	3 Ton (6,000 LBS)	7'-10'	6"	15'	168"	6.56"	12.5"	6"	1329
24930	3 Ton (6,000 LBS)	9'-12'	6"	15'	168"	6.56"	12.5"	6"	1370
24926	3 Ton (6,000 LBS)	12'-15'	6"	15'	168"	6.56"	12.5"	6"	1422
24929	3 Ton (6,000 LBS)	7'-10'	6"	20'	228"	7.04"	16.1"	6"	1710
24928	3 Ton (6,000 LBS)	9'-12'	6"	20'	228"	7.04"	16.1"	6"	1740
24949	3 Ton (6,000 LBS)	12'-15'	6"	20'	228"	7.04"	16.1"	6"	1806
24953	5 Ton (10,000 LBS)	7'-10'	6"	10'	107"	7.04"	16.3"	6"	1573
24952	5 Ton (10,000 LBS)	9'-12'	6"	10'	107"	7.04"	16.3"	6"	1661
24951	5 Ton (10,000 LBS)	12'-15'	6"	10'	107"	7.04"	16.3"	6"	1792
24950	5 Ton (10,000 LBS)	7'-10'	6"	15'	167"	9.02"	24.1"	6"	2380
24949	5 Ton (10,000 LBS)	9'-12'	6"	15'	167"	9.02"	24.1"	6"	2470
24948	5 Ton (10,000 LBS)	12'-15'	6"	15'	167"	9.02"	24.1"	6"	2590
24947	5 Ton (10,000 LBS)	7'-10'	6"	20'	227"	9.02"	24.1"	6"	2792
24946	5 Ton (10,000 LBS)	9'-12'	6"	20'	227"	9.02"	24.1"	6"	2880
24955	5 Ton (10,000 LBS)	12'-15'	6"	20'	227"	9.02"	24.1"	6"	3015



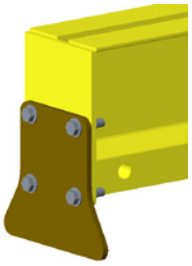
LIFTING BEAM - LOW HEADROOM ADJUSTABLE										
PART NUMBER	L MIN / L MAX (1' Spread ADJ)	OVERALL LENGTH	WORKING LOAD LIMIT IN POUNDS*	A	B	C	D	HR	LOWER SHACKLE SIZE	WEIGHT
22148	3' - 5'	66.5	2,000	3	5	0.88	0.75	12	1/2"	140
22149	5' - 10'	126.5	2,000	3	5	0.88	0.75	12	1/2"	255
22150	10' - 15'	186.5	2,000	3	5	0.88	0.75	14	1/2"	578
22151	15' - 20'	246.5	2,000	3	5	0.88	0.75	14	1/2"	575
24506	20'-25'	306.5	2,000	3	5	0.88	0.75	17	1/2"	1365
24507	25'-30'	366.5	2,000	3	5	0.88	0.75	17	1/2"	1610
22152	3' - 5'	66.5	4,000	3	5	0.88	0.75	12	1/2"	145
22153	5' - 10'	126.5	4,000	3	5	0.88	0.75	13	1/2"	346
22154	10' - 15'	186.5	4,000	3	5	0.88	0.75	17	1/2"	864
22155	15' - 20'	246.5	4,000	3	5	0.88	0.75	17	1/2"	1,115
24508	20'-25'	306.5	4,000	3	5	0.88	0.75	17	1/2"	1365
24509	25'-30'	366.5	4,000	3	5	0.88	0.75	17	1/2"	1925
22156	3' - 5'	66.5	6,000	3	5	1.25	1	13.75	5/8"	217
22157	5' - 10'	126.5	6,000	3	5	1.25	1	15.75	5/8"	385
22158	10' - 15'	186.5	6,000	3	5	1.25	1	17.75	5/8"	1,062
22159	15' - 20'	246.5	6,000	3	5	1.25	1	17.75	5/8"	1,365
24510	20'-25'	306.5	6,000	3	5	1.25	1	19.75	5/8"	1925
24511	25'-30'	366.5	6,000	3	5	1.25	1	19.75	5/8"	1985
22160	3' - 5'	66.5	10,000	4	7	2	1.25	19.62	7/8"	348
22161	5' - 10'	126.5	10,000	4	7	2	1.25	19.62	7/8"	608
22162	10' - 15'	186.5	10,000	4	7	2	1.25	21.62	7/8"	1,123
22163	15' - 20'	246.5	10,000	4	7	2	1.25	21.62	7/8"	1,426
24512	20'-25'	306.5	10,000	4	7	2	1.25	24.62	7/8"	1928
24513	25'-30'	366.5	10,000	4	7	2	1.25	24.62	7/8"	2270
22164	3' - 5'	66.5	15,000	4	7	2	1.25	19.62	7/8"	348
22165	5' - 10'	126.5	15,000	4	7	2	1.25	19.62	7/8"	810
22166	10' - 15'	186.5	15,000	4	7	2	1.25	24.62	7/8"	1,237
22167	15' - 20'	246.5	15,000	4	7	2	1.25	24.62	7/8"	1,577
24514	20'-25'	307	15,000	4	7	2	1.25	23.2	7/8"	2489
24515	25'-30'	367	15,000	4	7	2	1.25	23.2	7/8"	2925

* Call for specifications on larger sizes and capacities

OPTIONAL SHACKLE & HOOK



OPTIONAL BOLT ON STAND

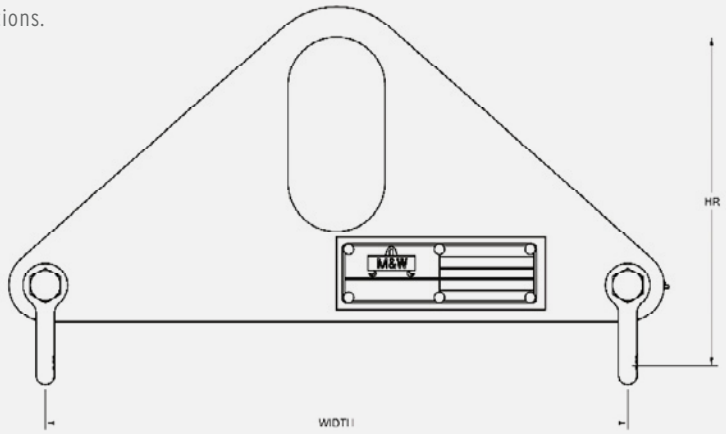


LIFTING BEAM - LOW HEADROOM ADJUSTABLE										
PART NUMBER	L MIN / L MAX (1' Spread ADJ)	OVERALL LENGTH	WORKING LOAD LIMIT IN POUNDS*	A	B	C	D	HR	LOWER SHACKLE SIZE	WEIGHT
22168	3' - 5'	66.5	20,000	4	7	2	1.25	19.62	7/8"	348
22169	5' - 10'	126.5	20,000	4	7	2	1.25	21.62	7/8"	815
22170	10' - 15'	186.5	20,000	4	7	2	1.25	24.62	7/8"	1,248
22171	15' - 20'	247	20,000	4	7	2	1.25	23.2	7/8"	2,055
24516	20'-25'	307	20,000	4	7	2	1.25	23.2	7/8"	2489
24517	25'-30'	367	20,000	4	7	2	1.25	24.9	7/8"	3645
22172	3' - 5'	67	40,000	5	9	2.5	1.5	26.2	1 1/8"	706
22173	5' - 10'	127	40,000	5	9	2.5	1.5	26.2	1 1/8"	1,574
22174	10' - 15'	187	40,000	5	9	2.5	1.5	27.9	1 1/8"	2,098
22175	15' - 20'	247	40,000	5	9	2.5	1.5	27.9	1 1/8"	2,643
24518	20'-25'	307	40,000	5	9	2.5	1.5	35.1	1 1/8"	3325
24519	25'-30'	367	40,000	5	9	2.5	1.5	35.1	1 1/8"	3880
22176	3' - 5'	67	60,000	7	16	3.5	2	36	1 1/2"	1,023
22177	5' - 10'	127	60,000	7	16	3.5	2	36	1 1/2"	1,574
22178	10' - 15'	187	60,000	7	16	3.5	2	37.8	1 1/2"	2,389
22179	15' - 20'	247	60,000	7	16	3.5	2	45	1 1/2"	3,058
24520	20'-25'	307	60,000	7	16	3.5	2	48.2	1 1/2"	4535
24521	25'-30'	367	60,000	7	16	3.5	2	51.1	1 1/2"	5783
22180	3' - 5'	67	80,000	7	16	3.5	2.5	39.5	1 3/4"	1,443
22181	5' - 10'	127	80,000	7	16	3.5	2.5	39.5	1 3/4"	2,248
22182	10' - 15'	187	80,000	7	16	3.5	2.5	46.5	1 3/4"	2,763
22183	15' - 20'	247	80,000	7	16	3.5	2.5	49.5	1 3/4"	3,761
24522	20'-25'	307	80,000	7	16	3.5	2.5	52.6	1 3/4"	5255
24523	25'-30'	367	80,000	7	16	3.5	2.5	52.8	1 3/4"	6570

SMALL LENGTH LIFT BEAMS - LIFT BALE TOP

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** Lifting Beams proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to warehouse use.
- Made in U.S.A.
- Custom designs available - call for engineering.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.
- Supplied with shackles.

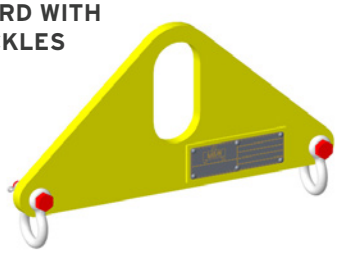
Prop 65 – See Page 112



Working Load Limit in Pounds*	Part Number	Bale Width	Bale Height	HR	Width	Weight in Pounds	Bottom Shackle Size
500	**20347**	2	4	6.8	12	8	3/8"
500	**20348**	2	4	6.8	24	15	3/8"
500	**20349**	2	4	6.8	36	21	3/8"
2,000	**20350**	3	5	9.8	12	18	5/8"
2,000	**20351**	3	5	9.8	24	31	5/8"
2,000	**20352**	3	5	9.8	36	45	5/8"
6,000	**20353**	3	5	10.8	12	26	3/4"
6,000	**20354**	3	5	10.8	24	48	3/4"
6,000	**20355**	3	5	10.8	36	69	3/4"
10,000	**24031**	3	5	13	12	34	3/4"
10,000	**24032**	3	5	13	24	56	3/4"
10,000	**24033**	3	5	13	36	80	3/4"
20,000	**20356**	4	7	16.1	24	92	7/8"
20,000	**20357**	4	7	16.1	36	129	7/8"
40,000	**24034**	5	9	25	24	225	1 1/4"
40,000	**24035**	5	9	25	36	300	1 1/4"
80,000	**24036**	7	14	31	24	460	1 3/4"
80,000	**24037**	7	14	31	36	600	1 3/4"

*** Call for specifications on larger sizes and capacities**

STANDARD WITH SHACKLES

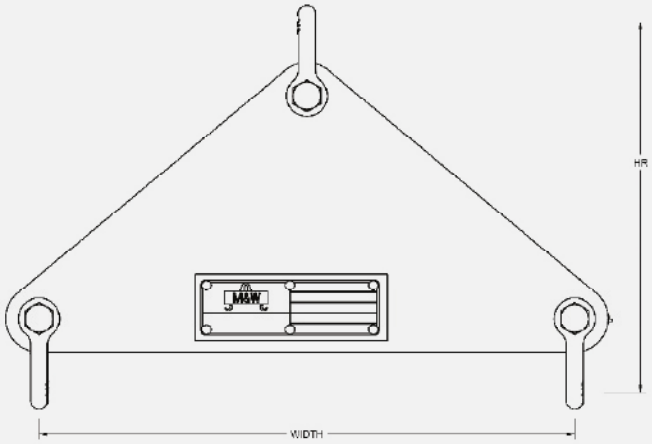


SHOWN WITH OPTIONAL HOOKS

SMALL LENGTH LIFT BEAMS - SHACKLE TOP

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** Lifting Beams proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to warehouse use.
- Made in U.S.A.
- Custom designs available - call for engineering.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.
- Supplied with shackles.

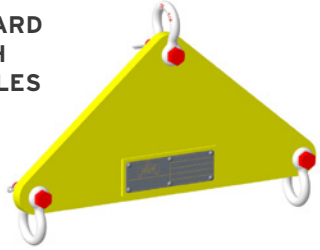
⚠ Prop 65 – See Page 112



WORKING LOAD LIMIT IN POUNDS*	PART NUMBER	TOP	HR	WIDTH	WEIGHT IN POUNDS	BOTTOM SHACKLE	TOP SHACKLE
500	**20358**	Shackle	8.3	12	9	3/8"	3/8"
500	**20359**	Shackle	8.3	24	16	3/8"	3/8"
500	**20360**	Shackle	8.3	36	22	3/8"	3/8"
2,000	**20361**	Shackle	12.4	12	19	5/8"	5/8"
2,000	**20362**	Shackle	12.4	24	33	5/8"	5/8"
2,000	**20363**	Shackle	12.4	36	46	5/8"	5/8"
6,000	**20364**	Shackle	14.1	12	32	3/4"	3/4"
6,000	**20365**	Shackle	14.1	24	54	3/4"	3/4"
6,000	**20366**	Shackle	14.1	36	73	3/4"	3/4"
10,000	**24047**	Shackle	17	12	40	3/4"	7/8"
10,000	**24048**	Shackle	17	24	62	3/4"	7/8"
10,000	**24049**	Shackle	17	36	86	3/4"	7/8"
20,000	**20367**	Shackle	21.2	24	107	7/8"	1 1/4"
20,000	**20368**	Shackle	21.2	36	145	7/8"	1 1/4"
40,000	**24050**	Shackle	32	24	271	1 1/4"	1 3/4"
40,000	**24051**	Shackle	32	36	346	1 1/4"	1 3/4"
80,000	**24052**	Shackle	42	24	585	1 3/4"	2 1/2"
80,000	**24053**	Shackle	42	36	725	1 3/4"	2 1/2"

*** Call for specifications on larger sizes and capacities**

STANDARD WITH SHACKLES

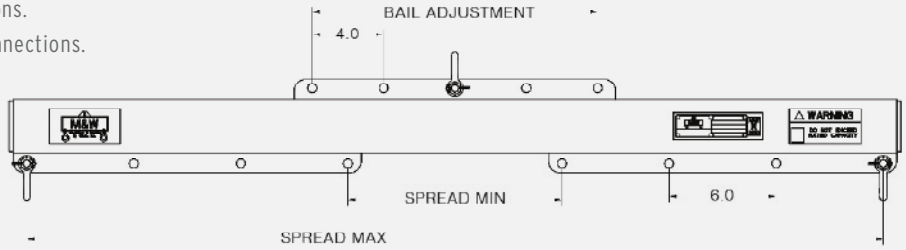


SHOWN WITH OPTIONAL HOOKS AND TOP LINK

ADJUSTABLE ECONOMY LIFTING BEAMS

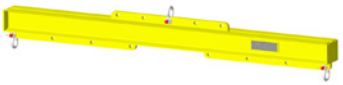
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** Lifting Beams proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Quick and easy adjustment of unbalanced loads.
- Ideally suited to low headroom applications.
- Shackle bottoms standard for rigging connections.
- Swivel hooks, eye hooks and custom connections available - call for ordering assistance.
- Made in U.S.A.
- Custom designs available - call for engineering.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.
- Beams supplied standard with shackle connections.

⚠ Prop 65 – See Page 112

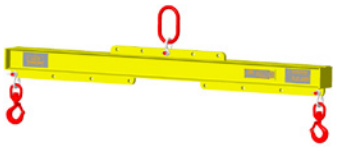


WORKING LOAD LIMIT IN POUNDS*	PART NUMBER	MAX SPREAD	MIN SPREAD	BAIL ADJ	HR	WEIGHT IN POUNDS	TOP SHACKLE SIZE	BOTTOM SIZE
500	**13855**	48	12	16	7.57	45	3/8"	3/8"
500	**13862**	72	36	16	7.57	60	3/8"	3/8"
500	**13866**	96	60	16	7.57	75	3/8"	3/8"
1,000	**13878**	48	12	16	7.57	45	3/8"	3/8"
1,000	**13879**	72	36	16	7.57	60	3/8"	3/8"
1,000	**13869**	96	60	24	8.57	95	3/8"	3/8"
2,000	**13880**	48	12	16	8.57	60	3/8"	3/8"
2,000	**13886**	72	36	24	9.57	80	3/8"	3/8"
2,000	**13889**	96	60	24	9.57	150	3/8"	3/8"
2,000	**13893**	120	84	24	9.57	180	3/8"	3/8"
4,000	**13924**	48	12	16	9.48	65	1/2"	7/16"
4,000	**13933**	72	36	24	10.48	125	1/2"	7/16"
4,000	**13938**	96	60	24	11.48	240	1/2"	7/16"
4,000	**14130**	120	84	24	11.48	295	1/2"	7/16"
8,000	**14134**	72	24	32	15.12	175	3/4"	5/8"
8,000	**14150**	96	48	32	16.12	280	3/4"	5/8"
8,000	**14154**	120	72	32	16.12	435	3/4"	5/8"
10,000	**14159**	96	36	32	16.12	365	3/4"	5/8"
10,000	**14162**	120	60	32	17.12	465	3/4"	5/8"
10,000	**14167**	144	84	32	18.12	675	3/4"	5/8"
14,000	**14171**	120	48	32	19.42	610	7/8"	3/4"
14,000	**14177**	144	72	32	21.42	715	7/8"	3/4"
14,000	**14182**	168	96	32	21.42	965	7/8"	3/4"
20,000	**21449**	120	48	32	26	900	1 1/8"	7/8"
20,000	**21450**	144	72	32	29	1120	1 1/8"	7/8"
20,000	**21451**	168	96	32	29	1250	1 1/8"	7/8"

STANDARD WITH SHACKLES



SHOWN WITH OPTIONAL TOP RING & HOOKS

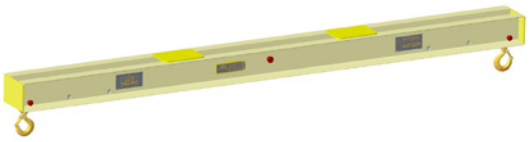


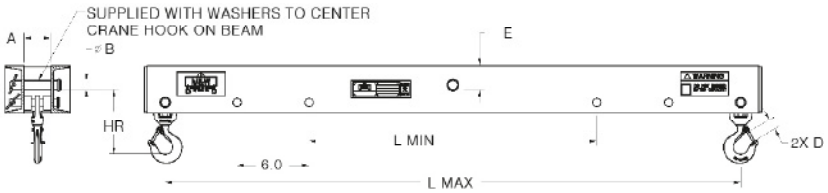
*** Call for specifications on larger sizes and capacities**

ULTRA LOW HEADROOM LIFTING BEAMS

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** Lifting Beams proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Use provided spacers to assure hook remains centered.
- Made in U.S.A.
- Custom designs available - call for engineering.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.
- Beams supplied standard with alloy swivel latch hook connections.

⚠ Prop 65 – See Page 112





Working Load Limit in Pounds*	Part number Headroom Weight	Pick Points – Outside Length (L) in Feet					A	B	D
		2', 3', 4'	4', 5', 6'	6', 7', 8'	8', 9', 10'	10', 11', 12'			
1,000	**Part Number** HR= E= Weight	**16484** 5.5 1.94 57	**16485** 5.5 1.94 82	**16486** 5.5 1.94 100	**16487** 5.5 1.94 120	**16488** 5.5 1.94 145	2.25	0.63	0.86
2,000	**Part Number** HR= E= Weight	**16489** 5.5 2.00 60	**16490** 5.5 2.00 85	**16491** 6.5 2.00 175	**16492** 6.5 2.00 215	**16493** 6.5 2.00 250	2.25	0.75	0.86
4,000	**Part Number** HR= E= Weight	**16494** 6.7 2.13 110	**16495** 6.7 2.13 150	**16496** 7.1 2.75 210	**16497** 7.1 2.75 310	**16498** 7.9 3.00 345	2.25	1.00	0.89
6,000	**Part Number** HR= E= Weight	**16499** 6.9 2.51 125	**16500** 7.6 2.76 185	**16501** 8.6 2.76 255	**16502** 9.6 2.76 300	**16503** 9.6 2.76 400	3.00	1.25	0.96
10,000	**Part Number** HR= E= Weight	**16504** 9.8 3.25 240	**16505** 9.8 3.25 320	**16506** 9.8 3.25 400	**16507** 10.3 3.75 490	**16508** 10.3 3.75 695	3.00	1.50	1.08

*** Call for specifications on larger sizes and capacities**

ECONOMY H-BEAM

1,000 LB WLL		TOP BEAM: L MIN / L MAX PART NUMBER		
		12"-48"	36"-72"	60"-96"
LOWER BEAMS: W MIN / W MAX	12"-48"	**17560**	**17563**	**17566**
	HR	15.1	15.1	16.1
	WEIGHT	135	150	185
	36"-72"	**17561**	**17564**	**17567**
	HR	15.1	15.1	16.1
	WEIGHT	165	180	215
	60"-96"	**17562**	**17565**	**17568**
	HR	15.1	15.1	16.1
	WEIGHT	195	210	245

*** Call for specifications on larger sizes and capacities**

2,000 LB WLL		TOP BEAM: L MIN / L MAX PART NUMBER		
		12"-48"	36"-72"	60"-96"
LOWER BEAMS: W MIN / W MAX	12"-48"	**17569**	**17572**	**17575**
	HR	16.1	17.1	17.1
	WEIGHT	150	180	250
	36"-72"	**17570**	**17573**	**17576**
	HR	17.1	17.1	18.1
	WEIGHT	170	200	340
	60"-96"	**17571**	**17574**	**17577**
	HR	17.1	17.1	18.1
	WEIGHT	240	270	340

*** Call for specifications on larger sizes and capacities**

4,000 LB WLL		TOP BEAM: L MIN / L MAX PART NUMBER			
		12"-48"	36"-72"	60"-96"	84"-120"
LOWER BEAMS: W MIN / W MAX	12"-48"	**17578**	**17582**	**17586**	**17590**
	HR	18.1	19.1	20.1	20.1
	WEIGHT	185	245	360	415
	36"-72"	**17579**	**17583**	**17587**	**17591**
	HR	19.1	19.1	21.1	21.1
	WEIGHT	255	285	400	455
	60"-96"	**17580**	**17584**	**17588**	**17592**
	HR	19.1	19.1	20.1	20.1
	WEIGHT	365	425	540	595
	84"-120"	**17581**	**17585**	**17589**	**17593**
	HR	19.1	19.1	21.1	21.1
	WEIGHT	425	485	600	655

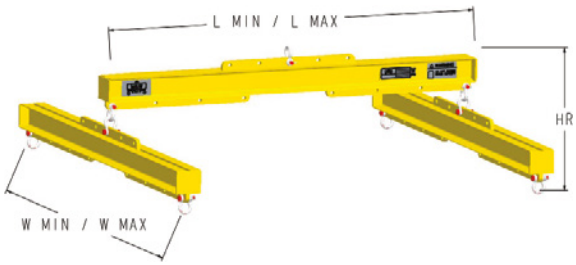
*** Call for specifications on larger sizes and capacities**

8,000 LB WLL		TOP BEAM: L MIN / L MAX PART NUMBER		
		24"-72"	48"-96"	72"-120"
LOWER BEAMS: W MIN / W MAX	12"-48"	**17598**	**17602**	**17606**
	HR	25.6	25.6	25.6
	WEIGHT	305	410	565
	36"-72"	**17599**	**17603**	**17607**
	HR	26.6	26.6	26.6
	WEIGHT	425	530	685
	60"-96"	**17600**	**17604**	**17608**
	HR	27.6	27.6	27.6
	WEIGHT	655	760	915
	84"-120"	**17601**	**17605**	**17609**
	HR	27.6	27.6	27.6
	WEIGHT	765	870	1,025

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** Lifting Beams proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- Custom designs available - call for engineering.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.
- All dimensions in inches unless otherwise noted.
- Standard with Shackles

Prop 65 – See Page 112

- Quick and easy adjustment of unbalanced loads.
- Ideally suited to low headroom applications.
- Eye hooks and custom connections available - call for ordering assistance.

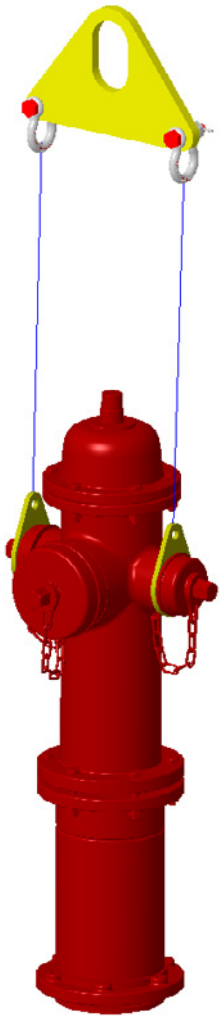


*** Call for specifications on larger sizes and capacities**

HYDRANT LIFTER

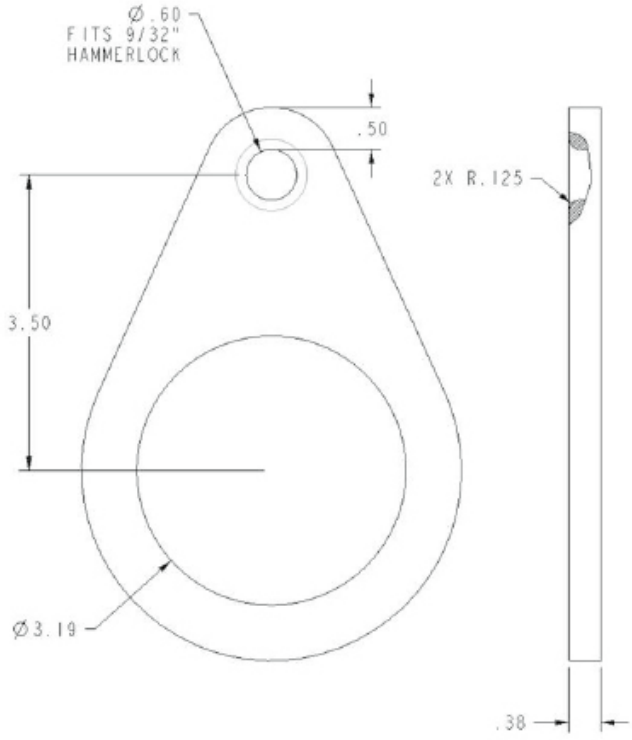
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Hydrant Lifter proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Sold individually as parts - see note below
- Rigging by others
- Made in U.S.A..
- Custom designs available - call for engineering.

⚠ Prop 65 – See Page 112



- **19964** bottom Hydrant Lift Lug - 2,000 pound Working
- Load Limit per pair, sold as each.

- **20350** Standard Short Span Beam - Found on page 6 - 2,000 LB Working Load Limit
- Lifting shackles supplied with **20350** as shown in picture



LOW HEADROOM, MULTIPLE LENGTH STANDARD LIFTING BEAM

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** Lifting Beams proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Standard with hooks.
- Made in U.S.A.
- Machined to exacting tolerances.
- Custom designs available - call for engineering.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.

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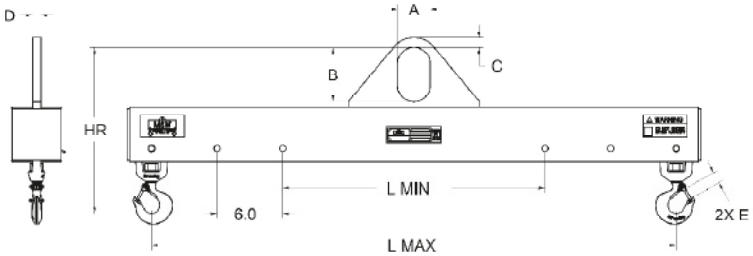
Working Load Limit in Pounds	Model Number Headroom (in) Weight (lbs)	Pick Points – Outside Length (L) in Feet – Min / Max				
		Min Max 2', 3', 4'	Min Max 4', 5', 6'	Min Max 6', 7', 8'	Min Max 8', 9', 10'	Min Max 10', 11', 12'
1,000	**Part Number** HR = LBS =	**11937** 13.11 56	**11959** 13.11 75	**11960** 13.11 95	**11961** 13.11 115	**11962** 13.11 200
2,000	**Part Number** HR = LBS =	**11983** 13.11 56	**11984** 13.11 75	**11985** 14.11 167	**11989** 14.11 205	**11990** 14.11 240
4,000	**Part Number** HR = LBS =	**12032** 15.12 98	**12033** 15.12 135	**12034** 16.12 200	**12039** 16.12 295	**12042** 17.12 395
6,000	**Part Number** HR = LBS =	**12069** 15.25 120	**12084** 16.25 180	**12087** 17.25 255	**12090** 18.25 380	**12094** 18.25 440
10,000	**Part Number** HR = LBS =	**12117** 21.25 265	**12123** 21.25 345	**12126** 21.25 430	**12129** 22.25 500	**12132** 21.12 590
15,000	**Part Number** HR = LBS =	**12162** 24.27 265	**12165** 24.28 365	**12168** 25.28 450	**12171** 25.28 640	**12174** 25.28 870
20,000	**Part Number** HR = LBS =	**12199** 23.75 290	**12202** 24.75 375	**12205** 24.75 625	**12208** 26.75 755	**12212** 29.75 985
30,000	**Part Number** HR = LBS =	**12223** 38.00 345	**12229** 38.00 555	**12232** 43.00 675	**12236** 43.00 1,235	**12263** 40.20 1,185
40,000	**Part Number** HR = LBS =	**12250** 33.81 445	**12254** 33.81 850	**12257** 33.81 1,050	**12287** 41.79 1,195	**12292** 41.97 1,540

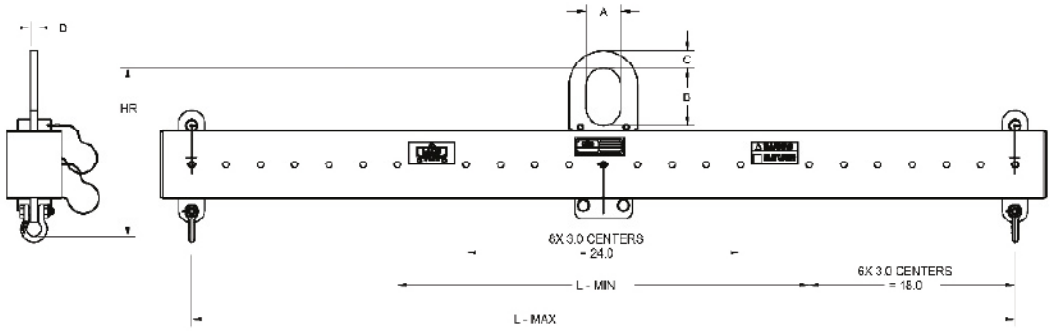


Pick Points – Outside Length (L) in Feet					Other Dimensions	Working Load Limit in Pounds
LMin LMax 12', 13', 14'	LMin LMax 14', 15', 16'	LMin LMax 16', 17', 18'	LMin LMax 18', 19', 20'	LMin LMax 22', 23', 24'		
11968 13.11 226	**11971** 14.11 313	**11974** 14.11 350	**11977** 14.11 390	**11981** 15.11 535	C=.875, A=3.0 B=5.0, D=.75 E=.91	1,000
12017 15.11 320	**12018** 15.11 365	**12019** 15.11 500	**12020** 16.11 525	**12024** 17.11 945	C=.875, A=3.0 B=5.0, D=.75 E=.91	2,000
12046 18.12 575	**12050** 18.12 650	**12055** 19.12 771	**12059** 20.12 1,060	**12063** 22.12 1,510	C=.875, A=3.0 B=5.0, D=.75 E=1.0	4,000
12098 19.25 635	**12102** 19.25 715	**12106** 20.25 990	**12109** 20.25 1,295	**12112** 22.25 1,310	C=1.25, A=3.0 B=5.0, D=1.00 E=1.00	6,000
12138 22.25 970	**12141** 22.25 1,095	**12148** 24.25 1,035	**12152** 24.25 1,340	**12155** 26.50 1,800	C=2.0, A=4.0 B=7.0, D=1.25 E=1.09	10,000
12177 27.28 1,000	**12180** 30.28 1,265	**12183** 30.28 1,405	**12186** 29.84 1,800		C=2.0, A=4.0 B=7.0, D=1.25 E=1.56	15,000
12215 29.75 1,595	**12218** 29.75 1,799	**12280** 35.08 1,655	**12284** 35.08 1,815		C=2.0, A=4.0 B=7.0, D=1.25 E=1.61	20,000
12267 40.48 1,540	**12270** 40.66 1,865	**12274** 40.84 2,250	**12277** 41.07 2,750		C=2.5, A=5.0 B=9.0, D=1.50 E=2.08	30,000
12295 42.15 1,850	**12300** 43.58 2,130	**12304** 43.74 2,555	**12307** 43.92 3,045		C=2.5, A=5.0 B=9.0, D=1.50 E=2.08	40,000

ADJUSTABLE LENGTH LIFTING BEAMS WITH SHACKLE BOTTOMS

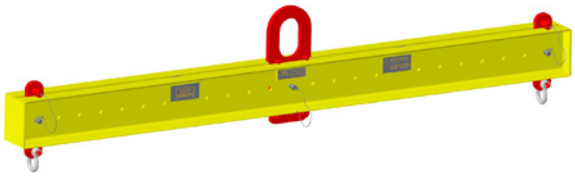
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** Lifting Beams proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Quick and easy adjustment of unbalanced loads.
- Ideally suited to low headroom applications.
- Standard with shackles.
- Made in U.S.A.
- Custom designs available - call for engineering.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.
- All dimensions in inches unless otherwise noted.

Prop 65 – See Page 112



Working Load Limit in Pounds*	Part Number	L min	L max	A	B	C	D	HR	Weight in Pounds
2,000	**15101**	36	72	3	5	0.75	0.63	11.8	85
2,000	**14678**	72	144	3	5	0.75	0.63	13.8	285
4,000	**12453**	36	72	3	5	1.5	0.63	12.6	135
4,000	**12495**	72	144	3	5	1.5	0.63	14.6	331
6,000	**14669**	36	72	3	5	1.5	0.63	14.8	170
6,000	**14661**	72	144	3	5	1.5	0.63	17.8	535
8,000	**12503**	36	72	4	7	2	0.75	18.0	201
8,000	**12512**	72	144	4	7	2	0.75	20.0	543
10,000	**14651**	36	72	4	7	2	0.75	20.0	310
10,000	**15108**	72	144	4	7	2	0.75	21.0	805
15,000	**15117**	36	72	4	7	2	1.00	20.7	325
15,000	**15128**	72	144	4	7	2	1.00	23.7	830

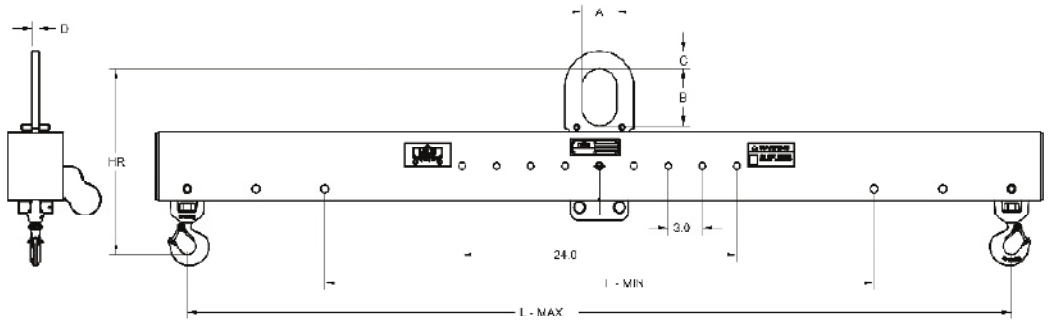
*** Call for specifications on larger sizes and capacities**



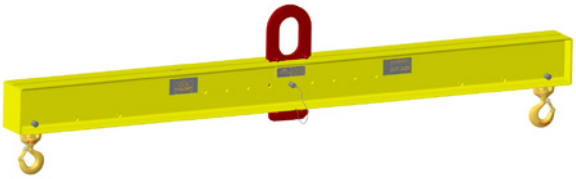
ADJUSTABLE LENGTH LIFTING BEAMS WITH SWIVEL HOOK BOTTOMS

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** Lifting Beams proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Quick and easy adjustment of unbalanced loads.
- Ideally suited to low headroom applications.
- Standard with hooks.
- Made in U.S.A.
- Custom designs available - call for engineering.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.
- All dimensions in inches unless otherwise noted.

Prop 65 – See Page 112



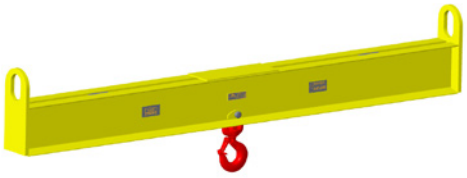
Working Load Limit in Pounds*	Part Number	L min	L max	A	B	C	D	HR	Weight in Pounds
2,000	**16410**	48	72	3	5	0.75	0.63	13.8	85
2,000	**16411**	120	144	3	5	0.75	0.63	15.7	285
4,000	**16412**	48	72	3	5	1.5	0.63	14.6	135
4,000	**16413**	120	144	3	5	1.5	0.63	16.6	330
6,000	**16414**	48	72	3	5	1.5	0.63	16.2	160
6,000	**16415**	120	144	3	5	1.5	0.63	19.1	530
8,000	**16416**	48	72	4	7	2	0.75	18.9	200
8,000	**16417**	120	144	4	7	2	0.75	20.9	540
10,000	**16418**	48	72	4	7	2	0.75	21.2	300
10,000	**16419**	120	144	4	7	2	0.75	22.2	795
15,000	**16420**	48	72	4	7	2	1.00	22.1	315
15,000	**16421**	120	144	4	7	2	1.00	25.1	815

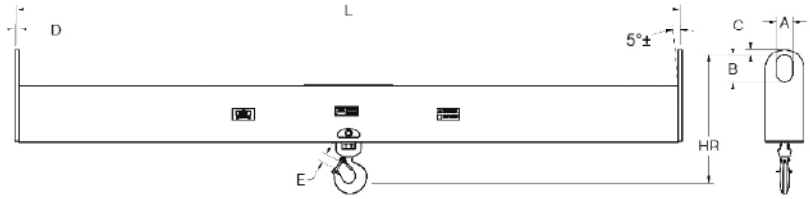


TWIN HOIST LIFTING BEAMS

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** Lifting Beams proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Quick and easy lifting of loads with two hoists. Lifting must be done within 5° of vertical.
- Ideally suited to low headroom applications.
- Alloy swivel hook bottom standard connection.
- Made in U.S.A.
- Custom designs available - call for engineering.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.
- All dimensions in inches unless otherwise noted.

Prop 65 – See Page 112





Working Load Limit in Pounds*	Part number Headroom Weight	Spread in Feet - L								A	B	C	D	E
		6	8	10	12	14	16	18	20					
4,000	**Part Number** HR= Weight	**16427** 15.10 140	**16428** 16.10 191	**16429** 16.10 260	**16430** 17.10 320	**16431** 18.10 560	**16432** 18.10 640	**16433** 19.10 765	**16434** 20.10 1,055	3.0	5.0	0.88	0.63	0.96
6,000	**Part Number** HR= Weight	**16435** 16.50 150	**16436** 17.50 225	**16437** 18.50 265	**16438** 18.50 485	**16439** 19.50 600	**16440** 19.50 690	**16441** 20.50 960	**16442** 20.50 1,260	3.0	5.0	1.00	0.63	1.08
10,000	**Part Number** HR= Weight	**16443** 22.31 300	**16444** 22.31 380	**16445** 22.31 470	**16446** 23.31 670	**16447** 23.31 920	**16448** 23.31 1,040	**16449** 25.31 1,005	**16450** 25.31 1,305	3.0	5.0	1.00	0.75	1.56
15,000	**Part Number** HR= Weight	**16451** 25.75 310	**16452** 26.75 395	**16453** 26.75 580	**16454** 26.75 810	**16455** 28.75 950	**16456** 31.75 1,215	**16457** 31.75 1,575	**16458** 31.75 1,740	4.0	7.0	1.00	0.75	2.17
20,000	**Part Number** HR= Weight	**16459** 27.53 370	**16460** 27.53 585	**16461** 29.53 725	**16462** 32.53 975	**16463** 32.53 1,565	**16464** 32.53 1,770			4.0	7.0	1.25	1.00	2.28

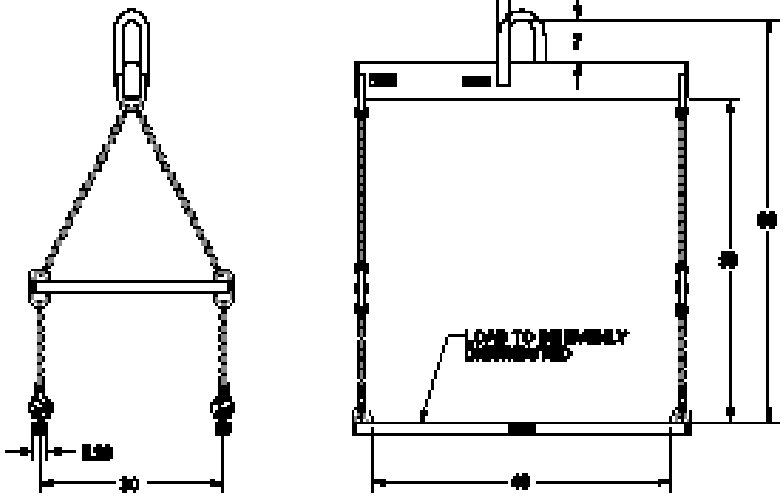
*** Call for specifications on larger sizes and capacities**

IBC TOTE LIFTING BEAM

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** Lifting Beams proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- Custom designs available - call for engineering.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.

⚠ **Prop 65 – See Page 112**

UPDATED PRODUCT



Lifts 330 or 275 GAL IBC Tanks
Weight = 210 LBS

SOLD WITH CHAIN SLING AS SHOWN

Part Number	Working Load Limit	Weight
23070	5,000	210

FIXED ROLL LIFTING BEAMS

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** Lifting Beams proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- Custom designs available - call for engineering.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.
- Beams supplied standard with alloy swivel latch hook connections.

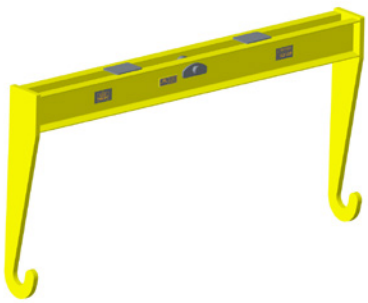
Prop 65 – See Page 112

Working Load Limit	Part Number	Max Roll Diameter	Max Arbor Diameter	Inside Length	Weight
2,000	**20715**	36	3	50	75
2,000	**20716**	36	3	74	105
4,000	**20717**	36	3	50	115
4,000	**20718**	36	3	74	154

*** Call for specifications on larger sizes and capacities**

Working Load Limit	Part Number	Max Roll Diameter	Max Arbor Diameter	Inside Length	Weight
6,000	**20721**	36	3	50	200
6,000	**20722**	36	3	74	245
10,000	**20719**	36	3	50	370
10,000	**20720**	36	3	74	450

*** Call for specifications on larger sizes and capacities**



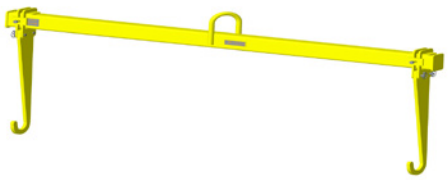
Working Load Limit	Part Number	Max Roll Diameter	Max Arbor Diameter	Inside Length	Weight
6,000	**20756**	36	3	50	205
6,000	**20755**	36	3	74	255
10,000	**20754**	36	3	50	360
10,000	**20753**	36	3	74	440

*** Call for specifications on larger sizes and capacities**

ADJUSTABLE ROLL LIFT BEAMS

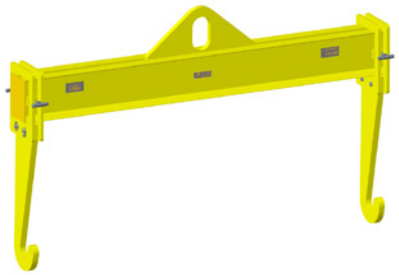
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** Lifting Beams proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Quick and easy lifting and positioning of rolls.
- Ideally suited to low headroom applications.
- Custom hook lengths available - call for quote.
- Made in U.S.A.
- Custom designs available - call for engineering.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.
- All dimensions in inches unless otherwise noted.

⚠ Prop 65 – See Page 112



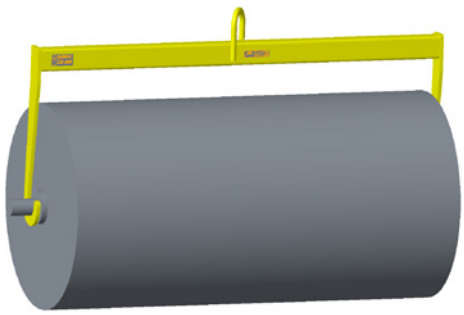
Working Load Limit	Part Number	Max Roll Diameter	Max Arbor Diameter	Inside Length	Weight
2,000	**20784**	36	3	22-76	130

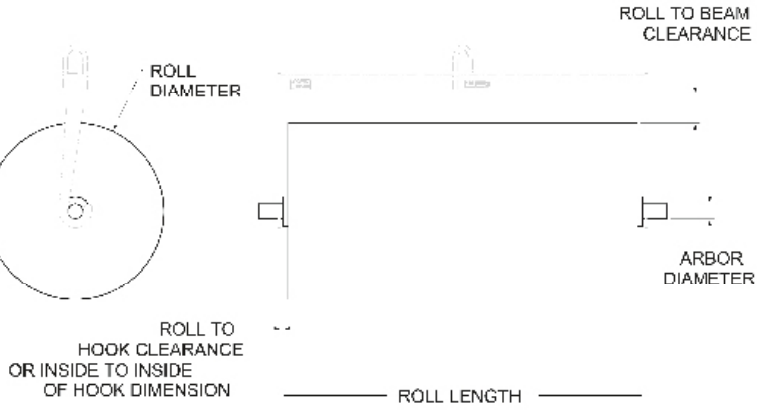
*** Call for specifications on larger sizes and capacities**



Working Load Limit	Part Number	Max Roll Diameter	Max Arbor Diameter	Inside Length	Weight
6,000	**20785**	36	3	22-76	200
10,000	**20786**	36	3	22-76	520

*** Call for specifications on larger sizes and capacities**



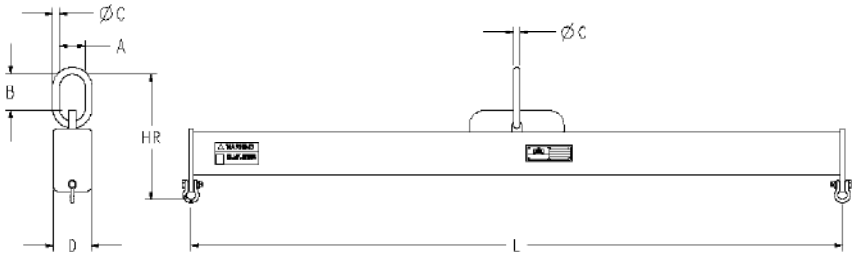


ECONOMY (FIXED LENGTH) LIFTING BEAMS

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** Lifting Beams proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Beams supplied standard with shackle connections.
- Made in U.S.A.
- Custom designs available - call for engineering.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.

⚠ Prop 65 – See Page 112

STANDARD WITH SHACKLES



SHOWN WITH **OPTIONAL** HOOKS

Working Load Limit in Pounds*	Part number Headroom Weight	Spread in Inches - L										A	B	C	D	Bottom Shackle Size
		24	36	42	48	54	60	66	72	96	120					
500	**Part Number** HR= Weight	**16561** 10.5 22	**12540** 10.5 29	**15028** 10.5 33	**11525** 10.5 36	**15031** 10.5 40	**15034** 10.5 43	**15037** 10.5 47	**11526** 10.5 50	**11527** 10.5 65	**11528** 10.5 80	2.4	3.3	0.63	2.5	5/16"
1,000	**Part Number** HR= Weight	**16140** 10.5 22	**12546** 10.5 29	**15040** 10.5 33	**11529** 10.5 36	**15043** 10.5 40	**15046** 10.5 43	**15049** 10.5 47	**11530** 10.5 50	**11531** 10.5 65	**11532** 11.5 115	2.4	3.3	0.63	3.5	5/16"
2,000	**Part Number** HR= Weight	16124 11.5 32	**15054** 11.5 42	**15057** 11.5 48	**11533** 11.5 52	**15060** 11.5 58	**15063** 11.5 63	**15066** 11.5 68	**11534** 11.5 73	**11535** 13.8 127	**11536** 13.8 155	2.4	3.3	0.63	3.5	5/16"
4,000	**Part Number** HR= Weight	**16381** 14.0 43	**15070** 14.0 57	**15073** 14.0 63	**11537** 14.0 70	**15076** 14.0 78	**15079** 14.0 85	**15082** 14.0 93	**11538** 14.0 99	**11539** 14.0 126	**11540** 16.0 190	2.4	3.3	0.63	3.5	3/8"
6,000	**Part Number** HR= Weight	**16382** 14.0 43	**14433** 14.0 56	**15085** 14.0 67	**14438** 16.0 87	**15092** 16.0 95	**15095** 16.0 104	**15098** 16.0 114	**14442** 16.0 121	**14445** 16.0 220	**14452** 16.0 343	2.4	3.3	0.63	3.5	7/16"

*** Call for specifications on larger sizes and capacities**

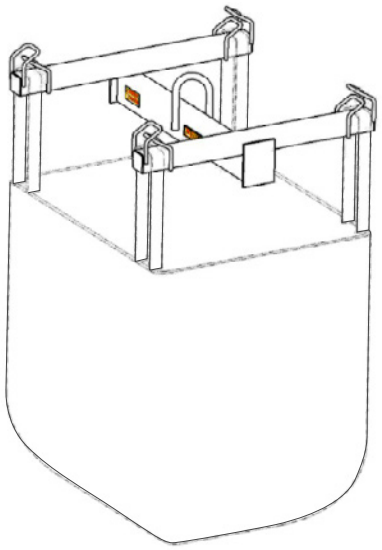
BULK CONTAINER LIFTING BEAM

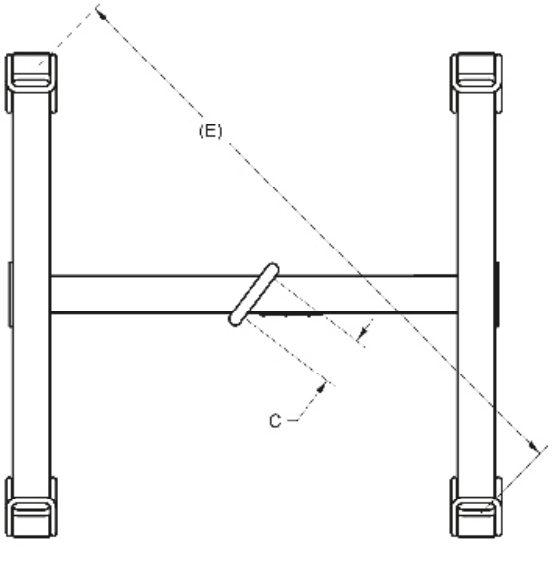
- Built to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** material handling equipment proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- Custom designs available - call for engineering.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.

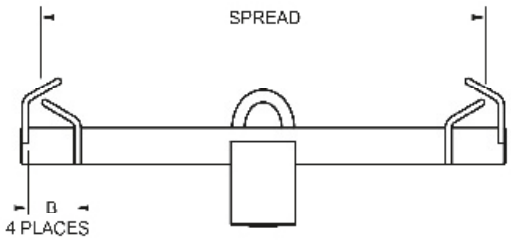
Prop 65 – See Page 112

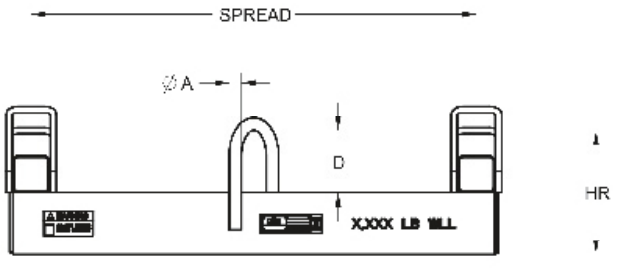
Part Number*	SPREAD	A	B	C	D	E	HR	Weight	Working Load Limit in Pounds*
13325	36	1.0	3.0	4.0	5.0	50.9	10.0	120	4,000
13321	48	1.0	3.0	4.0	5.0	67.9	10.0	150	4,000

***Larger capacities and custom configurations available. Please call for ordering assistance.**





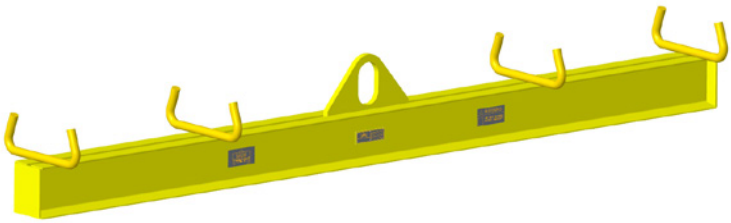


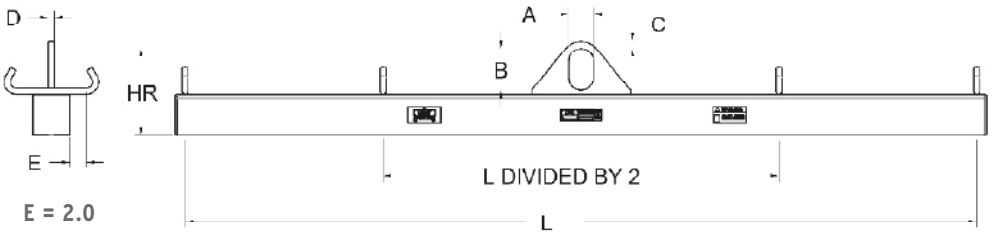


BASKET LIFTING BEAM

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** Lifting Beams proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Designed to be used with lifting slings in a basket hitch
- Two sets of lifting sling hooks are standard
- Hooks designed for 2" eye width
- Custom configurations available - call for ordering assistance
- Made in U.S.A.
- Custom designs available - call for engineering.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.
- All dimensions in inches unless otherwise noted.

⚠ Prop 65 – See Page 112





Working Load Limit in Pounds*	Model Number Headroom (in) Weight (lbs)	Outside Spread (L) in Feet*							A (in) B (in) C (in)
		4	6	8	10	12	14	16	
1,000	**Part Number** HR = LBS =	**17492** 9.50 65	**17493** 9.50 80	**17494** 9.50 100	**17495** 9.50 120	**17496** 9.50 205	**17497** 9.50 235	**17498** 10.50 315	3.0 5.0 .88
2,000	**Part Number** HR = LBS =	**17499** 9.50 65	**17500** 9.50 80	**17501** 10.50 175	**17502** 10.50 210	**17503** 10.50 245	**17504** 11.50 325	**17505** 11.50 370	3.0 5.0 .88
4,000	**Part Number** HR = LBS =	**17506** 10.50 110	**17507** 10.50 150	**17154** 11.50 210	**17508** 11.50 310	**17509** 12.50 340	**17510** 13.50 580	**17511** 13.50 660	3.0 5.0 .88
10,000	**Part Number** HR = LBS =	**17512** 16.37 260	**17513** 16.37 340	**17514** 16.37 425	**17515** 17.37 510	**17516** 17.37 720	**17517** 17.37 965	**16574** 17.37 1,090	4 7 2

*** Call for specifications on larger sizes and capacities**

LIFTING BEAM GLASS PANEL

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** Lifting Beams proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- Custom designs available - call for engineering.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.
- All dimensions in inches unless otherwise noted.
- Used to lift wood cased glass or glass panels or similar material when used with proper slings.

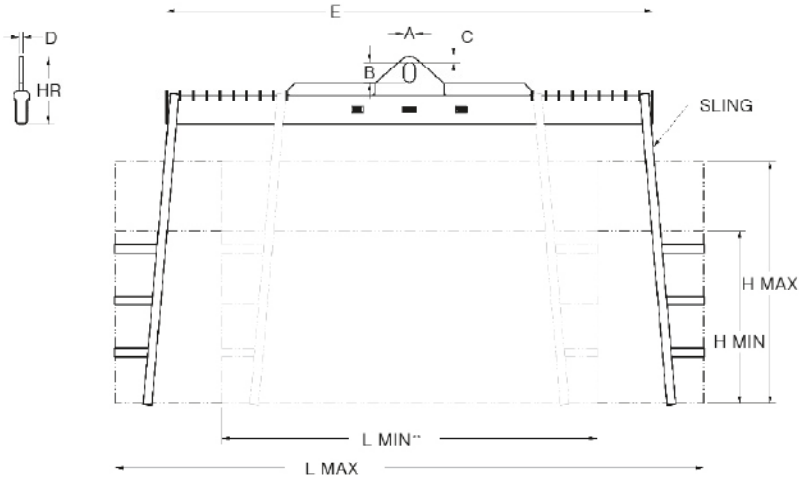
Prop 65 – See Page 112

LIFT BEAM - GLASS PANELS										
Part Number	Working Load Limit in Pounds*	Panel Length (L) Min**	Panel Length (L) Max**	A	B	C	D	E	HR	Weight
22875	5,000	88	144	3	5	1.25	1	109	15	315
22876	10,000	130	204	4	7	2	1.25	169	24	795

** If used with slings below

LIFTING SLING FOR GLASS PANELS - SOLD AS EACH, 2 NEEDED TO LIFT			
Part Number	Working Load Limit in Pounds*	Panel Height (H) Min**	Panel Height (H) Max**
22877	6,000	36	54
22878	6,000	60	84
22879	6,000	72	100
22880	6,000	100	130

** 3" wide, PVC belting on entire inside to help prevent cutting, velcro straps prevent slings from shifting while not under load



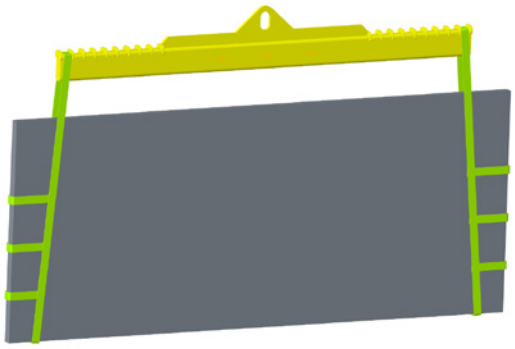
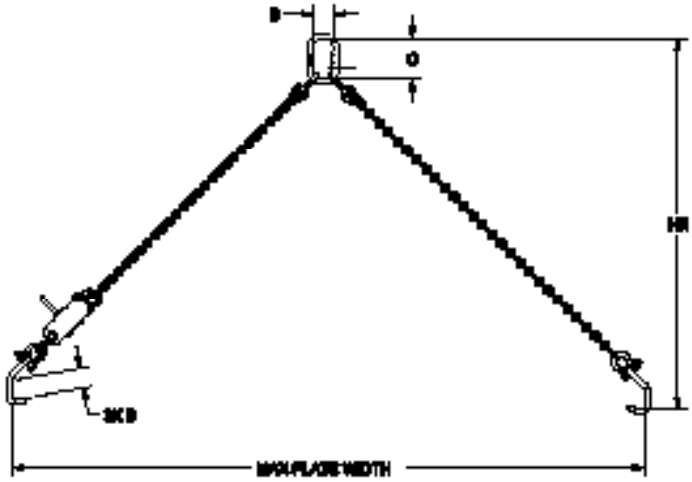
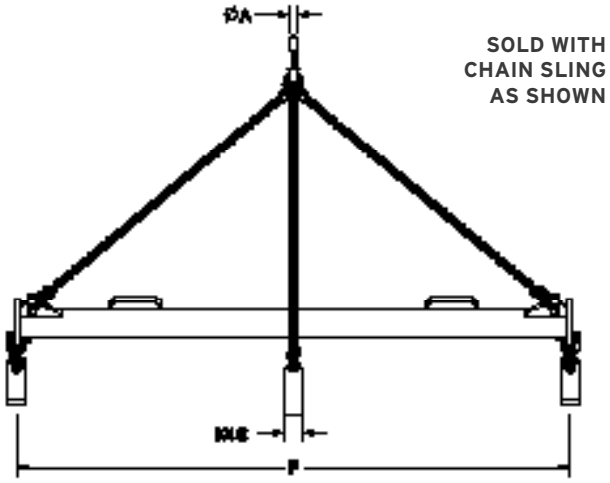


PLATE LIFTING BEAMS

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** Lifting Beams proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.
- All dimensions in inches unless otherwise noted.
- Max Plate Width : 96"

Prop 65 – See Page 112

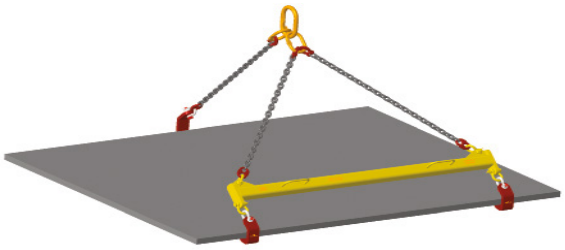




SOLD WITH CHAIN SLING AS SHOWN

Working Load Limit in Pounds*	Part Number	A	B	C	D	E	F	HR	Weight in Pounds
10,000	**14633**	0.82	3.00	6.00	3.00	2.75	84	57	140
20,000	**14632**	1.28	5.00	9.00	4.00	3.50	84	59	245

*** Call for specifications on larger sizes and capacities**



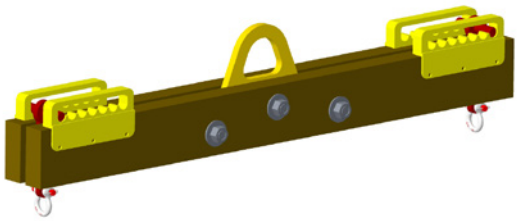
NON-CONDUCTIVE BATTERY LIFTING BEAM

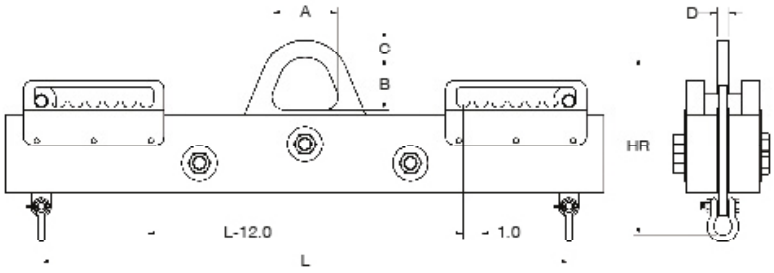
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow lift lug for increased visibility.
- **ALL** Lifting Beams proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Quick and easy adjustment of unbalanced loads.
- Ideally suited to handle large batteries
- Natural spark proof insulation
- Optional Hooks and Lug connections available - call for ordering assistance
- Made in U.S.A.
- Custom designs available - call for engineering.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.
- All dimensions in inches unless otherwise noted.

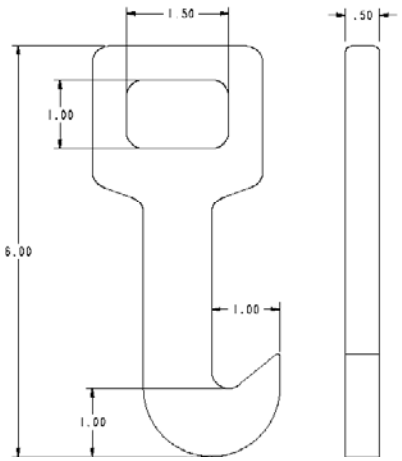
⚠ Prop 65 – See Page 112

Working Load Limit in Pounds*	Part Number	A	B	C	D	HR	L min	L max	Weights
2,000	**17441**	3.8	3.0	1.0	0.63	10.15	18.0	30.0	55 LBS
2,000	**17442**	3.8	3.0	1.0	0.63	10.15	30.0	42.0	65
4,000	**17443**	3.8	3.0	1.0	0.63	12.20	18.0	30.0	65
4,000	**17171**	3.8	3.0	1.0	0.63	12.20	30.0	42.0	75

*** Call for specifications on larger sizes and capacities**







OPTIONAL BATTERY J HOOK

Part Number	Working Load Limit in Pounds*
22094	2,000

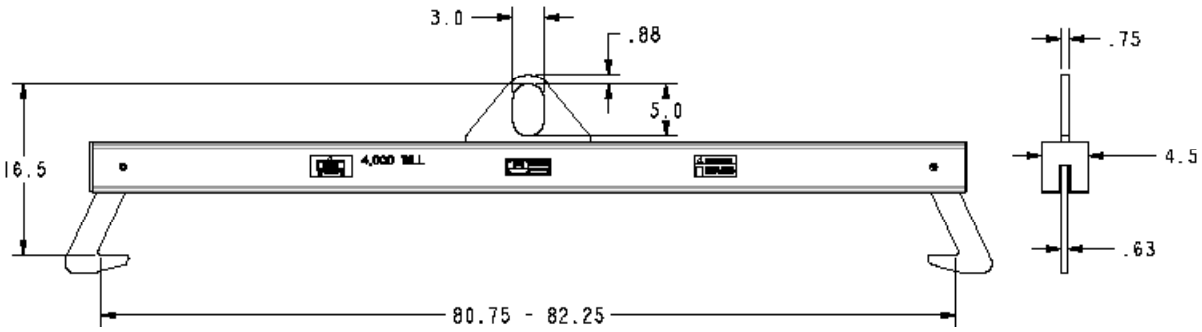
*** Sold each**

CHLORINE CYLINDER LIFT BEAM

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for resistance to corrosion.
- **ALL** Lifting Beams proof loaded and shipped with certification paperwork
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- Custom designs available - call for engineering.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.

⚠ Prop 65 – See Page 112

NEW PRODUCT



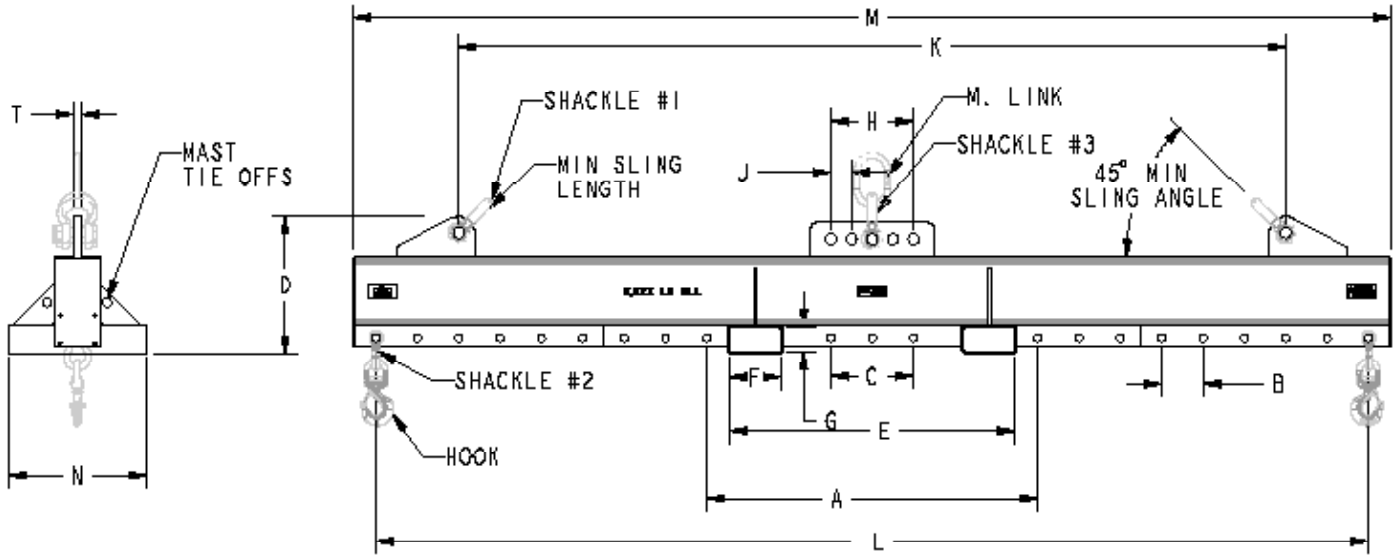
Part Number	Working Load Limit	Weight
19829	4,000	160

UNIVERSAL LIFTING BEAM

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow lift lug for increased visibility.
- **ALL** Lifting Beams proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Lift beam, spreader beam, fork lift beam
- A true universal beam
- Shackles, hooks, mast tie off and top rigging by others
- Made in U.S.A.
- Custom sizes available
- Custom designs available - call for engineering.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.
- All dimensions in inches unless otherwise noted.

Prop 65 – See Page 112

NEW PRODUCT



Part Number	Capacity in Pounds	L = Length	A	B	C	D	E*	F*	G*	H	J	K	M	N	T	Weight	Shackle #1 Size	Shackle #2 Size	Shackle #3 Size	M. Link Size	Hook Size	Min Sling Length
24662	6,000	144	48	6	12	15.7	41.5	7.5	3.5	12	3	120	150.5	20	1	535	3/4"	5/8"	3/4"	3/4"	2t	82"
24663	10,000	144	48	6	12	20	41.5	7.5	3.5	12	3	120	150.5	20	1.25	868	1 1/4"	7/8"	1 1/4"	7/8"	5t	82"
24664	15,000	144	48	6	12	20	41.5	7.5	3.5	12	3	120	150.5	20	1.25	1115	1 1/4"	7/8"	1 1/4"	1"	5t	82"
24665	20,000	144	48	6	12	21.9	41.5	7.5	3.5	12	3	120	150.5	20	1.25	1120	1 1/4"	7/8"	1 1/4"	1"	5t	82"

*** See Fork Lift Attachment Rules OSHA 1910.178**

OPTIONAL MAST TIE OFF CHAIN

Part Number	
20410	Mast Tie Off Chain – 8' Long

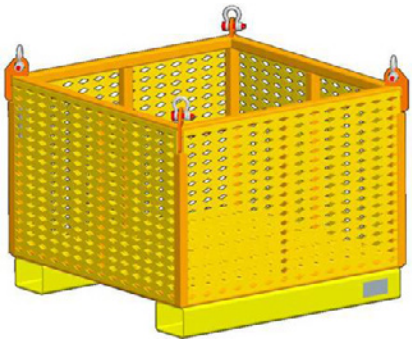
MATERIAL BASKETS WITH FIXED SIDES

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for resistance to corrosion.
- **ALL** material baskets shipped with proof load certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Pick from lifting points with top rigging.
- Made in U.S.A.
- Custom designs available - call for engineering.

NOT FOR PERSONNEL LIFTING.

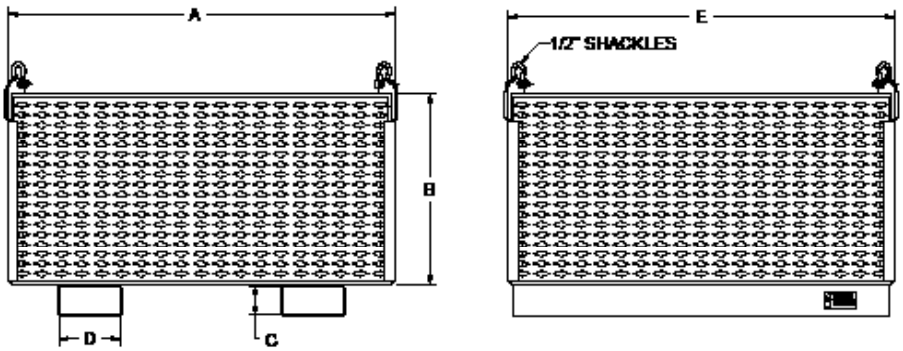
⚠ Prop 65 – See Page 112

UPDATED PRODUCT



Capacity in Pounds*	Part Number	A	B	C	D	E	Weight	Includes Shackles
2,500	**11827**	36	24	4.0	6.0	36	320	1/2"
2,500	**11829**	48	24	4.0	8.0	48	360	1/2"
2,500	**16006**	60	24	4.0	8.0	48	450	1/2"

*** Call for specifications on larger sizes and capacities**



WITH CASTERS

Capacity in Pounds*	Part Number	A	B	C	D	E	Weight	Includes Shackles
2,500	**23954**	36	24	4.0	6.0	36	320	1/2"
2,500	**23955**	48	24	4.0	8.0	48	360	1/2"
2,500	**23956**	60	24	4.0	8.0	48	450	1/2"

OPTIONAL

Part Number	
24985	4 Leg Top Chain Rigging

MATERIAL BASKET WITH DROP SIDE

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for resistance to corrosion.
- **ALL** material baskets shipped with proof load certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Pick from lifting points with top rigging.
- Made in U.S.A.
- Custom designs available - call for engineering.

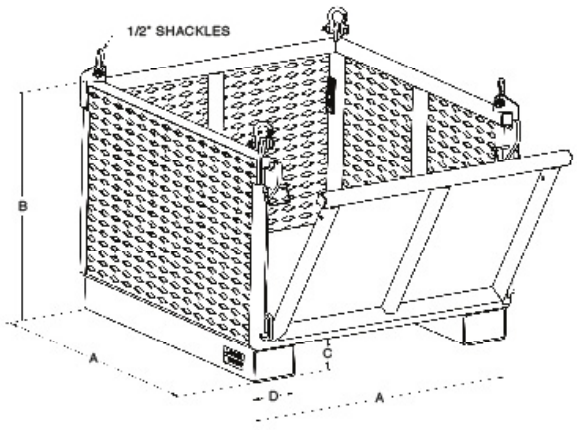
NOT FOR PERSONNEL LIFTING.

Prop 65 – See Page 112

UPDATED PRODUCT

Capacity in Pounds*	Part Number	A	B	C	D	Weight	Includes Shackles
2,500	**12902**	48"	28"	3.6"	7.6"	410	1/2"
2,500	**17594**	36"	28"	3.6"	7.6"	400	1/2"

*** Call for specifications on larger sizes and capacities**



WITH CASTERS

Capacity in Pounds*	Part Number	A	B	C	D	Weight	Includes Shackles
2,500	**23957**	48"	28"	3.6"	7.6"	410	1/2"
2,500	**23958**	36"	28"	3.6"	7.6"	400	1/2"

OPTIONAL

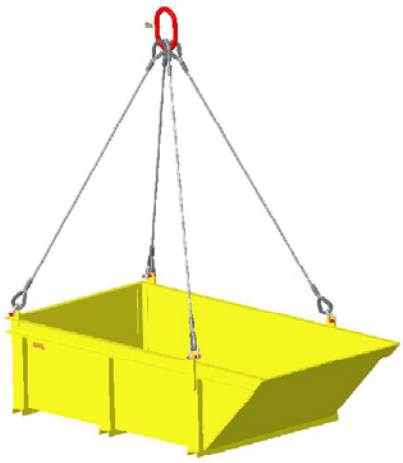
Part Number	
24985	4 Leg Top Chain Rigging

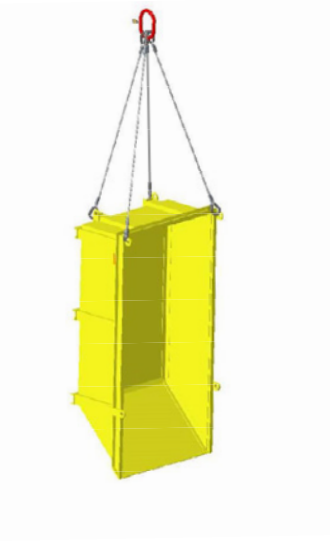
MATERIAL BASKETS WITH FIXED SIDES, AND SLOPED END

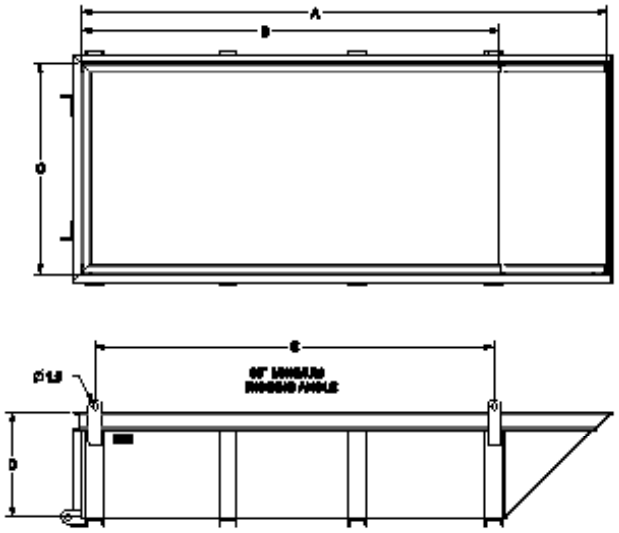
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for resistance to corrosion.
- **ALL** material baskets shipped with proof load certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- Custom designs available - call for engineering.
  NOT FOR PERSONNEL LIFTING.
- **Not water tight**

⚠ Prop 65 – See Page 112

WIRE ROPE BY OTHERS







Capacity in Pounds*	Part Number	A	B	C	D	Weight	E
6,000	**23963**	96	72	48	24	1,210	67
6,000	**23669**	120	96	48	24	1,500	91

*** Call for specifications on larger sizes and capacities**

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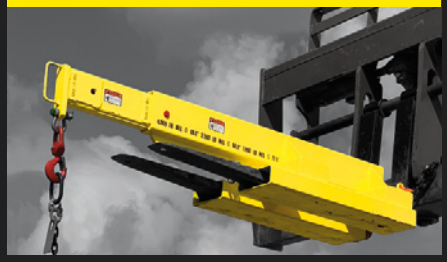
PAGE 31

PAGE 46



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PAGES 8-9

SYNTHETIC POLYESTER ROUND SLINGS

- Manufactured to exceed all ASME B30.9 and OSHA 1910.184 regulations.
- Durable, heavy-duty tags ideally suited to jobsite or warehouse use.
- Custom tagging available - call for details.
- All dimensions in inches unless otherwise noted.

- **Order length in feet in the '-X' portion of part number.**

⚠ Prop 65 – See Page 112

INSPECTION AND REPAIR

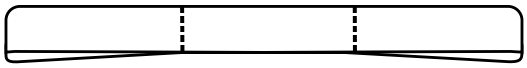
Slings should be examined throughout their length for abrasions, cuts, heat damage, fitting distortion or damage, and tag legibility. Abrasion, heat damage, or cuts to the cover may indicate a loss of strength to the load cores. If any doubts are held by the inspector, sling should be removed from service and sent to M&W for evaluation and possible repair. Slings removed from service shall be destroyed and rendered completely unfit for future use. Inspector and sling user shall follow all applicable OSHA 1910.184 and ASME B30.9-6 regulations regarding sling use and inspection.

Part Number	Color	RATED CAPACITIES IN POUNDS			Approx. Width	Approx. Weight Pounds/Foot	Shortest Possible Leg Length
		Vertical	Choker	Basket			
PNR3-X	Purple	3,000	2,400	6,000	2"	.30	3'
PNR4-X	Black	4,500	3,600	9,000	2"	.45	3'
PNR6-X	Green	6,000	4,800	12,000	2"	.48	3'
PNR9-X	Yellow	9,000	7,200	18,000	2"	.70	3'
PNR12-X	Grey	12,000	9,600	24,000	3"	.90	3'
PNR14-X	Red	14,000	11,200	28,000	3"	.95	3'
PNR17-X	Brown	17,000	13,600	34,000	3"	1.20	3'
PNR22-X	Blue	22,000	17,600	44,000	3"	1.40	3'
PNR26-X	Orange	26,000	20,800	52,000	4"	1.70	3'
PNR32-X	Orange	32,000	25,600	64,000	4"	1.90	4'
PNR40-X	Orange	40,000	32,000	80,000	5"	2.40	4'
PNR50-X	Orange	50,000	40,000	100,000	5"	2.70	4'
PNR60-X	Orange	60,000	48,000	120,000	5"	3.00	4'
PNR70-X	Black	70,000	56,000	140,000	6"	3.50	5'
PNR80-X	Black	80,000	64,000	160,000	6"	4.00	5'
PN90R-X	Black	90,000	72,000	180,000	6"	4.50	5'
PNR100-X	Black	100,000	80,000	200,000	6"	5.00	5'

SYNTHETIC POLYESTER WEBBING SLINGS

- Manufactured to exceed all ASME B30.9 and OSHA 1910.184 regulations.
- Durable, heavy-duty tags ideally suited to jobsite or warehouse use.
- Custom tagging available - call for details.
- All dimensions in inches unless otherwise noted.
- **Order length in feet in the '-X' portion of part number.**

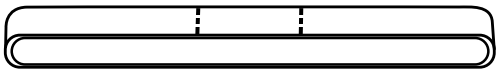
⚠ Prop 65 – See Page 112



TYPE III

Sling is made with a flat loop on each end with loop eye opening on the same plane as the sling body. This type of sling is sometimes called a flat eye and eye, eye and eye, or double eye sling. Web width of 3" and above come standard with tapered eyes. Triple and quadruple ply sling eyes cannot be tapered.

Web Width	Part Number	WORKING LOAD LIMIT IN POUNDS		
		Vertical	Choke	Basket
SINGLE PLY				
1	EE1-901-X	1,600	1,280	3,200
2	EE1-902-X	3,200	2,560	6,400
3	EE1-903-X	4,800	3,840	9,600
4	EE1-904-X	6,400	5,120	12,800
5	EE1-905-X	8,000	6,400	16,000
6	EE1-906-X	9,600	7,680	19,200
8	EE1-908-X	12,800	10,240	25,600
10	EE1-9010-X	16,000	12,800	32,000
12	EE1-9012-X	19,200	15,360	38,400
DOUBLE PLY				
1	EE2-901-X	3,200	2,560	6,400
2	EE2-902-X	6,400	5,120	12,800
3	EE2-903-X	8,880	7,104	17,760
4	EE2-904-X	11,520	9,216	23,640
6	EE2-906-X	16,320	13,056	32,640
8	EE2-908-X	20,480	16,384	40,960
10	EE2-910-X	24,000	19,200	48,000
12	EE2-912-X	26,880	21,504	53,760



TYPE V

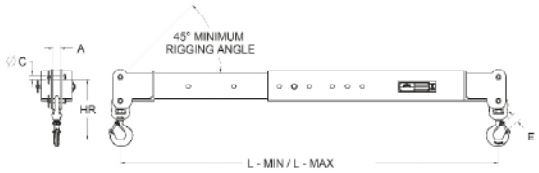
Endless sling, sometimes referred to as a grommet sling. It is a continuous loop formed by joining the ends of the fabric together with a load bearing splice.

Web Width	Part Number	WORKING LOAD LIMIT IN POUNDS		
		Vertical	Choke	Basket
SINGLE PLY				
1	EN1-901-X	3,200	2,560	6,400
2	EN1-902-X	6,400	5,120	12,800
3	EN1-903-X	9,600	7,680	19,200
4	EN1-904-X	12,800	10,240	25,600
5	EN1-905-X	16,000	12,800	32,000
6	EN1-906-X	19,200	15,360	38,400
8	EN1-908-X	25,600	20,480	51,200
10	EN1-9010-X	32,000	25,600	64,000
12	EN1-9012-X	38,400	30,720	76,800
DOUBLE PLY				
1	EN2-901-X	6,400	5,120	12,800
2	EN2-902-X	12,800	10,240	25,600
3	EN2-903-X	17,760	14,208	35,520
4	EN2-904-X	23,040	18,432	46,080
6	EN2-906-X	32,640	26,112	65,280
8	EN2-908-X	40,960	32,768	81,920
10	EN2-910-X	48,000	38,400	96,000
12	EN2-912-X	53,760	43,008	107,520

ADJUSTABLE SPREAD TELESCOPING BEAMS

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** Spreader Beams shipped with proof load certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Standard with swivel latch hooks. Top rigging not included - please call for pricing
- Made in U.S.A.
- Custom designs available - call for engineering.
- Minimum horizontal top rigging angle of 45°.
- Ideally suited for adding stability to critical lifts.

⚠ Prop 65 – See Page 112



TELESCOPING ADJUSTABLE SPREADER BEAMS							
Working Load Limit in Pounds*	Model Number Headroom (in) Weight (lbs)	Outside Spread (L) in Feet*					A (in) C (in) E (in)
		Min Max 4 - 6	Min Max 6 - 10	Min Max 8 - 14	Min Max 12 - 20	Min Max 21 - 30	
4,000	**Part Number**	**12805**	**12822**	**12813**	**12829**	**24455**	1.00
	HR =	5.37	5.12	5.12	5.12	8.87	0.50
	LBS =	80	120	155	235	585	0.89
10,000	**Part Number**	**12834**	**12842**	**12848**	**12853**	**24454**	1.25
	HR =	6.53	6.28	6.28	6.28	11.0	0.75
	LBS =	130	190	250	365	802	1.08
20,000	**Part Number**	**12864**	**12872**	**12880**	**12885**	**24453**	1.66
	HR =	7.63	7.63	7.63	7.63	13.0	1.00
	LBS =	185	265	345	510	1160	1.31

OPTIONAL TOP RIGGING						
Working Load Limit in Pounds*	Part Name	Part Number	Part Number	Part Number	Part Number	Part Number
4,000	**Adjustable Spreader**	**12805**	**12822**	**12813**	**12829**	**24455**
	Chain	23354	23355	23356	23357	24456
	Wire Rope	23396	23397	23398	23399	24462
	Round Sling Bridle	23374	23375	23376	23377	24459
10,000	**Adjustable Spreader**	**12834**	**12842**	**12848**	**12853**	**24454**
	Chain	23378	23379	23380	23381	24457
	Wire Rope	23400	23401	23402	23403	24463
	Round Sling Bridle	23382	23383	23384	23385	24460
20,000	**Adjustable Spreader**	**12864**	**12872**	**12880**	**12885**	**24453**
	Chain	23386	23387	23388	23389	24458
	Wire Rope	23404	23405	23406	23407	24464
	Round Sling Bridle	23390	23391	23392	23393	24461

***Minimum horizontal top rigging angle is 45° on all fixed and adjustable spreaders. M&W recommends a minimum horizontal top rigging angle of 60°. Adjustable on 1" increments.**

ADJUSTABLE SPREAD TELESCOPING BEAMS - LARGE CAPACITY SHACKLE END

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- ALL Spreader Beams shipped with proof load certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- Custom designs available - call for engineering.
- ALL lifting equipment individually proof loaded per OSHA requirements.
- Minimum horizontal top rigging angle of 45°
- Ideally suited for adding stability to critical lifts.
- Beam only. Shackles supplied by others.

⚠ Prop 65 – See Page 112

SHOWN WITH OPTIONAL TOP RIGGING & SHACKLES

TELESCOPING ADJUSTABLE LARGE CAPACITY SHACKLE END SPREADER BEAMS							
Working Load Limit in Pounds*	Shackle Size	Model Number Headroom (in) Weight (lbs)	Outside Spread (L) in Feet*				
			Min Max 5'6" - 7'	Min Max 7 - 10	Min Max 10 - 14	Min Max 14 - 20	Min Max 21 - 30
40,000	1-1/2" Top 1-1/2" Bottom	**Part Number** HR = LBS =	**20127** 7.6 340	**20126** 7.6 410	**20125** 7.6 560	**20124** 7.6 760	**24406** 7.6 1275
60,000	1-3/4" Top 1-3/4" Bottom	**Part Number** HR = LBS =	**20132** 7.1 395	**20131** 7.1 490	**20130** 7.1 660	**20129** 7.1 890	**24407** 7.1 1775
80,000	2" Top 2" Bottom	**Part Number** HR = LBS =	**20137** 9.3 575	**20136** 9.3 700	**20135** 9.3 950	**20134** 9.3 1,250	**24413** 9.3 2280
100,000	2" Top 2" Bottom	**Part Number** HR = LBS =	**20142** 9.3 575	**20141** 9.3 700	**20140** 9.3 950	**20139** 9.3 1,250	**24408** 9.3 2437
150,000	2-1/2" Top 2-1/2" Bottom	**Part Number** HR = LBS =	**N/A**	**24412** 13.9 1310	**24411** 13.9 1640	**24410** 13.9 2120	**24409** 13.9 2995

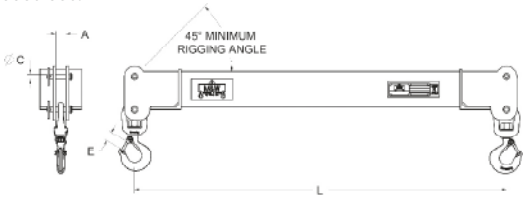
OPTIONAL TOP RIGGING							
Working Load Limit in Pounds*	Part Name		Part Number	Part Number	Part Number	Part Number	Part Number
40,000	**Adjustable Spreader**		**20127**	**20126**	**20125**	**20124**	**24406**
	Wire Rope		23421	23422	23423	23424	24414
	Round Sling Bridle		23433	23434	23435	23436	24422
60,000	**Adjustable Spreader**		**20132**	**20131**	**20130**	**20129**	**24407**
	Wire Rope		23425	23426	23427	23428	24415
	Round Sling Bridle		23437	23438	23439	23440	24423
80,000	**Adjustable Spreader**		**20137**	**20136**	**20135**	**20134**	**24413**
	Wire Rope		23430	23430	23431	23432	24416
	Round Sling Bridle		23441	23442	23443	23444	24424
100,000	**Adjustable Spreader**		**20142**	**20141**	**20140**	**20139**	**24408**
	Wire Rope		23430	23430	23431	23432	24416
	Round Sling Bridle		23441	23442	23443	23444	24424
150,000	**Adjustable Spreader**		N/A	**24412**	**24411**	**24410**	**24409**
	Round Sling Bridle		N/A	24418	24417	24426	24425

***Minimum horizontal top rigging angle is 45° on all fixed and adjustable spreaders. M&W recommends a minimum horizontal top rigging angle of 60°. Adjustable on 6" increments.**

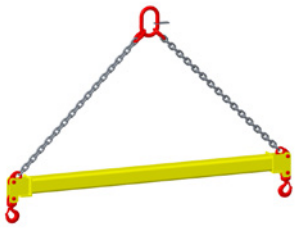
FIXED SPREADER BEAMS

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** Spreader Beams shipped with proof load certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Standard with swivel latch hooks. Top rigging not included - please call for pricing
- Made in U.S.A.
- Custom designs available - call for engineering.
- Minimum horizontal top rigging angle of 45°.
- Ideally suited for adding stability to critical lifts.

⚠ Prop 65 – See Page 112



SHOWN WITH OPTIONAL TOP RIGGING



FIXED LENGTH SPREADER BEAM											
Working Load Limit in Pounds*	Model Number Headroom (in) Weight (lbs)	Outside Spread (L) in Feet*									A (in) C (in) E (in)
		4	6	8	10	12	16	20	25	30	
4,000	**Part Number** HR = LBS =	**13094** 7.37 55	**13097** 7.37 75	**13100** 8.12 95	**13103** 8.12 115	**13106** 8.12 135	**13109** 8.12 180	**13112** 8.12 218	**24473** 9.0 380	**24474** 9.1 455	1.00 0.50 .089
10,000	**Part Number** HR = LBS =	**13116** 8.23 75	**13119** 8.98 105	**13122** 8.98 135	**13125** 8.98 165	**13128** 9.98 195	**13131** 9.98 255	**13134** 9.98 315	**24475** 11.0 578	**24476** 11.3 690	1.31 0.75 1.08
20,000	**Part Number** HR = LBS =	**13138** 9.25 125	**13141** 11.00 165	**13144** 11.00 210	**13147** 11.00 255	**13150** 11.00 300	**13153** 12.00 385	**13156** 12.00 475	**24477** 13.0 895	**24478** 13.0 1065	1.66 1.00 1.31

OPTIONAL TOP RIGGING										
Working Load Limit in Pounds*	Part Name	Part Number	Part Number	Part Number	Part Number	Part Number	Part Number	Part Number	Part Number	Part Number
4,000	**Fixed Spreader**	**13094**	**13097**	**13100**	**13103**	**13106**	**13109**	**13112**	**24473**	**24474**
	Chain	23354	23354	23355	23355	23356	23357	23357	24456	24456
	Wire Rope	23396	23396	23397	23397	23398	23399	23399	24462	24462
	Round Sling Bridle	23374	23374	23375	23375	23376	23377	23377	24459	24459
10,000	**Fixed Spreader**	**13116**	**13119**	**13122**	**13125**	**13128**	**13131**	**13134**	**24475**	**24476**
	Chain	23378	23378	23379	23379	23380	23381	23381	24457	24457
	Wire Rope	23400	23400	23401	23401	23402	23403	23403	24463	24463
	Round Sling Bridle	23382	23382	23383	23383	23384	23385	23385	24460	24460
20,000	**Fixed Spreader**	**13138**	**13141**	**13144**	**13147**	**13150**	**13153**	**13156**	**24477**	**24478**
	Chain	23386	23386	23387	23387	23388	23389	23389	24458	24458
	Wire Rope	23404	23404	23405	23405	23406	23407	23407	24464	24464
	Round Sling Bridle	23390	23390	23391	23391	23392	23393	23393	24461	24461

FIXED SPREADER LARGE CAPACITY SHACKLE END SPREADER BEAMS

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- ALL Spreader Beams shipped with proof load certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- Custom designs available - call for engineering.
- ALL lifting equipment individually proof loaded per OSHA requirements.

⚠ Prop 65 – See Page 112

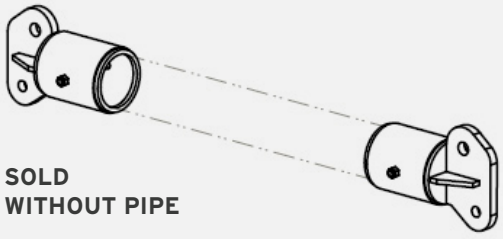
SHOWN WITH OPTIONAL TOP RIGGING & SHACKLES

FIXED LENGTH LARGE CAPACITY SHACKLE END SPREADER BEAMS										
Working Load Limit in Pounds*	Model Number Headroom (in) Weight (lbs)	Outside Spread (L) in Feet*								
		4	6	8	10	12	16	20	25	30
40,000	**Part Number** HR = LBS =	**20165** 8 215	**20166** 8 275	**20167** 8 330	**20168** 8 385	**20169** 8 440	**20170** 8 550	**20171** 8 660	**24479** 8 910	**24480** 8 1066
60,000	**Part Number** HR = LBS =	**20172** 7.6 255	**20173** 7.6 320	**20174** 7.6 385	**20175** 7.6 450	**20176** 7.6 510	**20177** 7.6 635	**20178** 7.6 770	**24481** 7.6 1493	**24482** 7.6 1770
80,000	**Part Number** HR = LBS =	**20179** 9.8 390	**20180** 9.8 475	**20181** 9.8 550	**20182** 9.8 635	**20183** 9.8 715	**20184** 9.8 875	**20185** 9.8 1,050	**24483** 9.8 1496	**24484** 9.8 1735
100,000	**Part Number** HR = LBS =	**20186** 9.8 390	**20187** 9.8 475	**20188** 9.8 550	**20189** 9.8 635	**20190** 9.8 715	**20191** 9.8 875	**20192** 9.8 1,050	**24485** 9.8 1496	**24486** 9.8 1735
150,000	**Part Number** HR = LBS =	**24503** 15.0 820	**24502** 15.0 968	**24501** 15.0 1116	**24500** 15.0 1264	**24499** 15.0 1412	**24498** 15.0 1707	**24497** 15.0 2008	**24487** 15.0 2371	**24488** 15.0 2740

***Minimum horizontal top rigging angle is 45° on all fixed and adjustable spreaders. M&W recommends a minimum horizontal top rigging angle of 60°.**

OPTIONAL RIGGING										
Working Load Limit in Pounds*	Part Name	Part Number	Part Number	Part Number	Part Number	Part Number	Part Number	Part Number	Part Number	Part Number
40,000	**Fixed Spreader**	**20165**	**20166**	**20167**	**20168**	**20169**	**20170**	**20171**	**24479**	**24480**
	Wire Rope	23421	23421	23422	23422	23423	23424	23424	24414	24414
	Round Sling Bridle	23433	23433	23434	23434	23435	23436	23436	24422	24422
60,000	**Fixed Spreader**	**20172**	**20173**	**20174**	**20175**	**20176**	**20177**	**20178**	**24481**	**24482**
	Wire Rope	23425	23425	23426	23426	23427	23428	23428	24415	24415
	Round Sling Bridle	23437	23437	23438	23438	23439	23440	23440	24423	24423
80,000	**Fixed Spreader**	**20179**	**20180**	**20181**	**20182**	**20183**	**20184**	**20185**	**24483**	**24484**
	Wire Rope	23430	23430	23430	23430	23431	23432	23432	24416	24416
	Round Sling Bridle	23441	23441	23442	23442	23443	23444	23444	24424	24424
100,000	**Fixed Spreader**	**20186**	**20187**	**20188**	**20189**	**20190**	**20191**	**20192**	**24485**	**24486**
	Wire Rope	23430	23430	23430	23430	23431	23432	23432	24416	24416
	Round Sling Bridle	23441	23441	23442	23442	23443	23444	23444	24424	24424
150,000	**Fixed Spreader**	**24503**	**24502**	**24501**	**24500**	**24499**	**24498**	**24497**	**24487**	**24488**
	Round Sling	24418	24418	24418	24417	24417	24426	24426	24425	24425

CUSTOM SPREADER BEAM END CAP KITS



SOLD WITHOUT PIPE

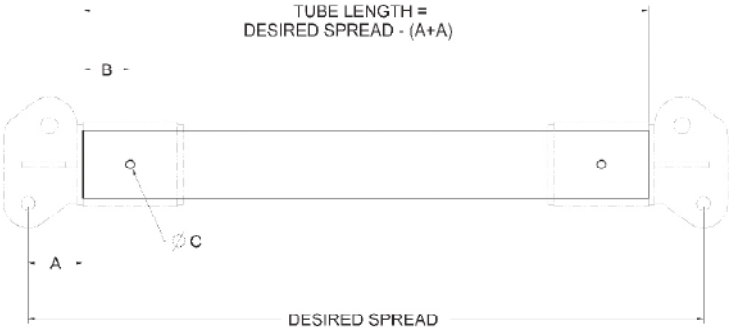
End Cap Part Number	Pipe Size	Top Shackle Min	Top Shackle Max	Bottom Shackle Min	Bottom Shackle Max	Weight per Pair
19499	2-1/2"	1/2"	7/8"	1/2"	7/8"	28
19500	5"	3/4"	1-1/4"	3/4"	1-1/4"	50
19120	8"	1"	1-3/4"	1"	1-1/2"	288

PIPE CAN BE SUPPLIED BY M&W

CALL FOR QUOTE

* Pipe Sold Separately

Part Number	A53 Grade B Schedule 40	A	B	DIA C
19499	2 1/2"	2.75	4	0.69
19500	5"	3.25	4	0.69
19120	8"	7	6	1.06



ORDERING INFORMATION

End cap kits are sold in pairs for models 19499, 19500 and 19120. Each cap kit comes complete with retaining bolts, capacity tags, and individual proof load certifications. End cap kits are proof tested and serial numbered in pairs.

Complete spreader beams can be ordered from the chart above in standard lengths. For example, a 10' spreader beam with 39 tons Working Load Limit capacity would use the 19120 end cap kits and would be supplied assembled with the proper A53 Grade B, Schedule 40 pipe. The pipe would also be tagged and serial numbered. From the chart above, the user would order part number 19120-120. Complete spreader beams are also shipped with individual proof load certification paperwork.

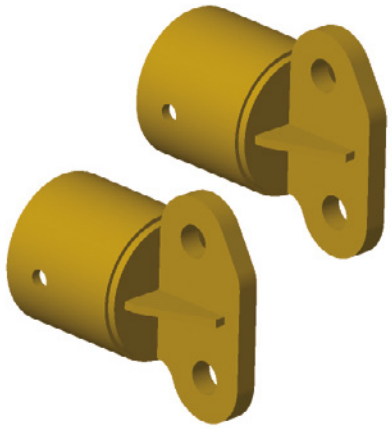
CUSTOM SPREADER BEAM END CAP KITS

- Manufactured to exceed all ASME B30.20 and OSHA regulations when assembled to specifications using A53 Grade B Schedule 40 pipe.
- Painted safety yellow for increased visibility.
- **ALL** End Caps shipped with proof load certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- Top rigging available - call for details.
- Custom designs available - call for engineering.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.
- Minimum horizontal top rigging angle of 45° - M&W recommends a minimum angle of 60°.

Prop 65 – See Page 112

OUTSIDE SPREAD IN FEET / WLL IN POUNDS																				
Part #	Pipe Size	4'	5'	6'	8	10'	12'	14'	15'	16'	18'	20'	22'	24'	26'	28'	30'	32'	34'	36'
19499	2 1/2"	15,000	14,000	13,000	11,000	8,000	5,800	4,000	3,000											
19500	5"	34,000	34,000	34,000	34,000	34,000	32,000	30,000	28,000	26,000	24,000	20,000	16,000	14,000	12,000	10,000	9,000			
19120	8"	78,000	78,000	78,000	78,000	78,000	76,000	76,000	72,000	70,000	66,000	62,000	58,000	54,000	50,000	46,000	42,000	38,000	32,000	30,000

*** Minimum horizontal top rigging angle is 45° on all fixed and adjustable spreaders.**
M&W recommends a minimum horizontal top rigging angle of 60°.



TECHNICAL INFORMATION

End cap kits are designed for use with A53 Grade B, Schedule 40 pipe between the end fittings and must have no weld joint irregularities. This steel pipe is widely available, and also available from M&W. The model 19499 uses a 2-1/2" nominal size pipe, the 19500 uses a 5" nominal size pipe and the 19120 uses an 8" nominal size pipe.

Lengths of pipe between end cap kits must be straight to within +/- 1/8" from each end, and ends of pipe should be cut squarely and cleanly from the centerline of the pipe. Lengths of pipe should be free from any factory defects, irregularities, or damage.

Each end of the length of pipe must have the correct diameter holes drilled through both ends and in proper alignment through both walls of the pipe. The model 19499 uses a Grade 8 hex head cap screw 5/8"-11 with a length of 4-1/2". The model 19500 uses a Grade 8 hex head cap screw 5/8"-11 with a length of 8". The model 19120 uses a Grade 8 hex head cap screw 1"-8 with a length of 11-1/2".

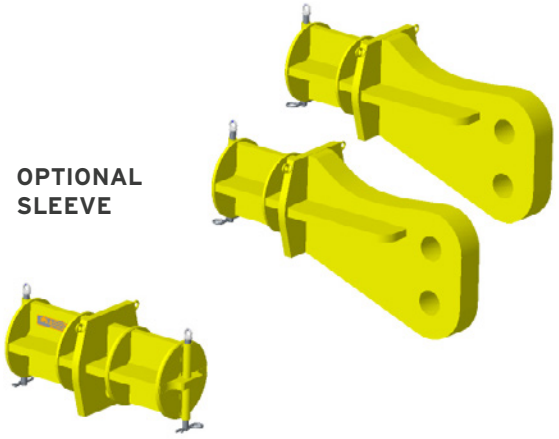
CUSTOM SPREADER BEAM HD END CAP KITS

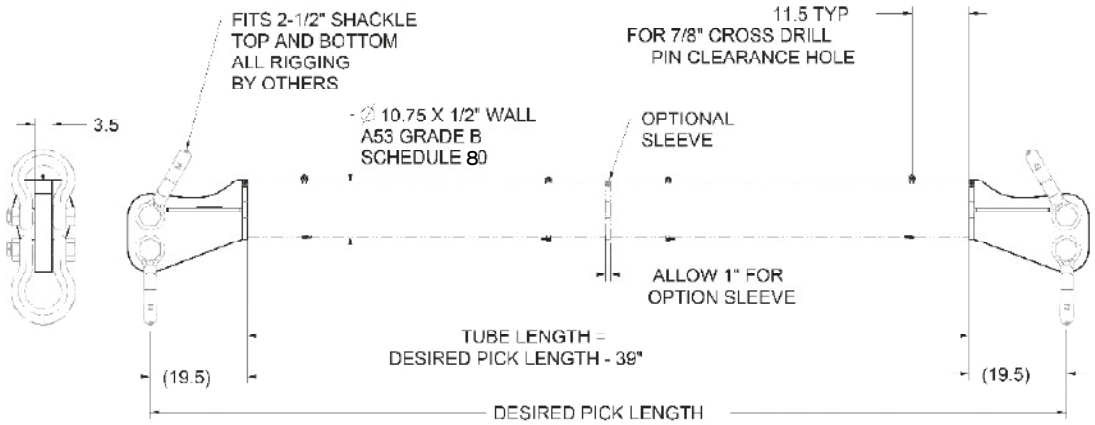
- Manufactured to exceed all ASME B30.20 and OSHA regulations. when assembled to specifications using A53 Grade B Schedule 80 pipe.
- Painted safety yellow for increased visibility.
- **ALL** End Caps shipped with proof load certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- Top rigging available - call for details.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.
- Minimum horizontal top rigging angle of 45° - M&W recommends a minimum angle of 60°.

⚠ Prop 65 – See Page 112

OUTSIDE SPREAD IN FEET / WLL IN POUNDS ***45 OR 60 DEGREE TOP RIGGING										
Part Number	Weight	6'	8'	10'	15'	20'	25'	30'	35'	40'
22525	425 LBS each	160,000	160,000	160,000	160,000	160,000	160,000	160,000	150,000	100,000

Optional Sleeve	Weight
22524	185 LBS





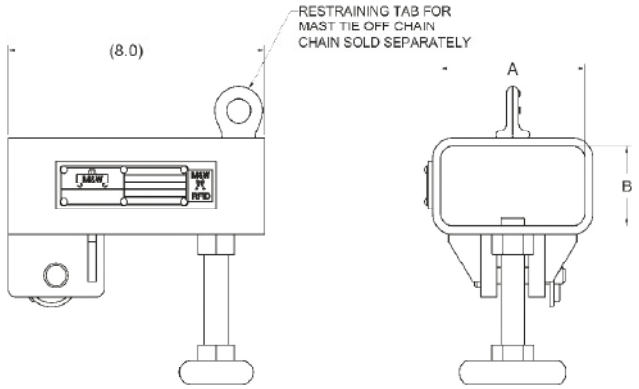
FORKLIFT POCKET LIFTERS

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** forklift attachments proof loaded and shipped with certification paperwork.
- OSHA required tie-off chain: Part Number 12345
- Includes forklift restraining tabs.
- Made in U.S.A.
- Custom designs available - call for engineering.
- Check with manufacturer of your forklift for load capabilities.

Prop 65 – See Page 112

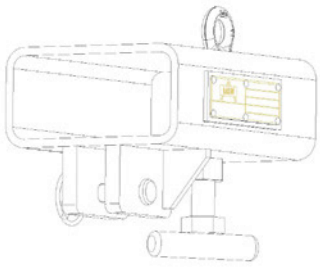
Working Load Limit in Pounds*	Part Number	A	B	Fork Width	Weight
3,000	**11606**	4.5	2.5	4	12
3,000	**11607**	5.5	2.5	5	13
3,000	**11608**	6.5	2.5	6	14
3,000	**15427**	7.5	2.5	7	15
5,000	**14259**	4.5	2.5	4	16
5,000	**14250**	5.5	2.5	5	18
5,000	**14262**	6.5	2.5	6	20
7,000	**15764**	6.5	2.5	6	35
7,000	**16642**	7.5	3.5	7	40
7,000	**16643**	8.5	3.5	8	44

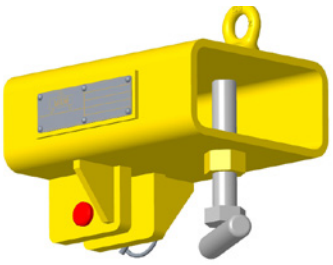
*** Call for specifications on larger sizes and capacities**



OPTIONAL MAST TIE OFF CHAIN:

Part Number	
20410	Mast Tie Off Chain - 8' Long





WARNING: M&W fork beams, fork booms, fork pockets and other lift attachments are modifications or additions that affect capacity and/or safe operation of forklifts (powered industrial trucks) and shall not be used without prior written approval from the forklift manufacturer. Capacity, Operation, Maintenance instruction plates, tags, and/or Decals shall be changed accordingly and not provided by M&W.

Reference OSHA 1910.178 | Any forklift attachment must use a tie off restraint to prevent from sliding off forks, sold separately

FORKLIFT LIFTING BEAM - ADJUSTABLE BOOM

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** forklift attachments proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Check with manufacturer of your forklift for load capabilities.
- Made in U.S.A.
- Includes forklift restraining tabs.
- Converts forklift into aerial crane. Fork Width : 6"
- Adjustable boom spacing at 48", 60" and 72"
- Boom comes equipped with alloy swivel latching hook.

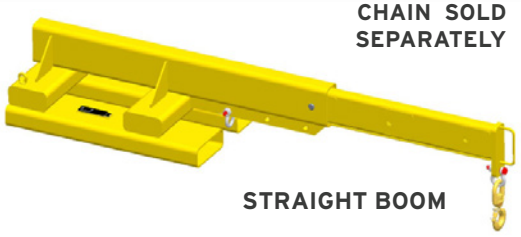
⚠ Prop 65 – See Page 112

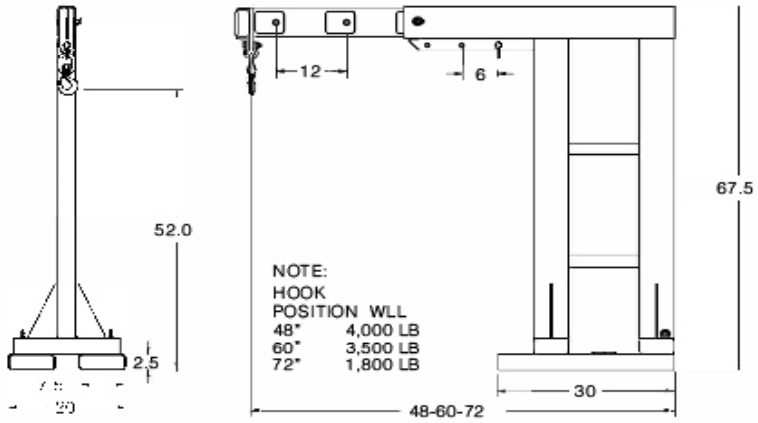
UPDATED PRODUCT

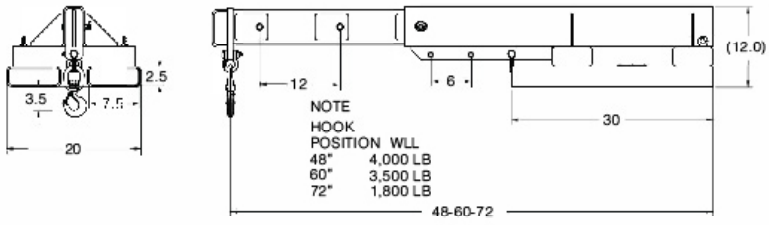
	Part Number	Weight
Reach Over Boom	**16055**	375
Straight Boom	**23312**	260

OPTIONAL MAST TIE OFF CHAIN:

Part Number	
20410	**Mast Tie Off Chain - 8' Long**







WARNING: M&W fork beams, fork booms, fork pockets and other lift attachments are modifications or additions that affect capacity and/or safe operation of forklifts (powered industrial trucks) and shall not be used without prior written approval from the forklift manufacturer. Capacity, Operation, Maintenance instruction plates, tags, and/or Decals shall be changed accordingly and not provided by M&W.

Reference OSHA 1910.178 | Any forklift attachment must use a tie off restraint to prevent from sliding off forks, sold separately

TRAILER SPOTTER

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** forklift attachments proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Easily moves trailers.
- Check with manufacturer of your forklift for load capabilities
- Made in U.S.A.
- Includes forklift restraining tabs.
- Carrying handle for easy placement by personnel - **HANDLE NOT INTENDED FOR LIFTING LOADS.**

⚠ Prop 65 – See Page 112

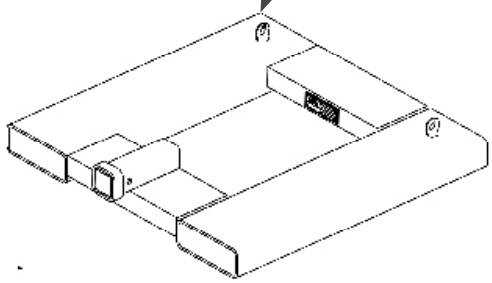
Part Number	Insert	Max Tongue Weight - LBS	Max Rolling Trailer Weight - LBS	Weight
19037	None (with pin)	N/A	N/A	115
23332	3 Way Ball, 1 7/8", 2", 2 5/16	600	6,000 7,500 10,000	135
23333	Pintle Mount, 4 bolt 1/2" dia x 3 3/8" x 1 3/4"	3,000	16,000	135

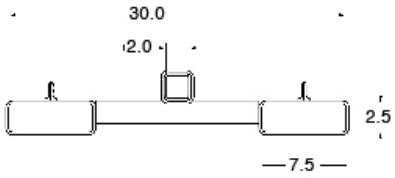
OPTIONAL MAST TIE OFF CHAIN:

Part Number	
20410	Mast Tie Off Chain - 8' Long

RESTRAINING TAB FOR MAST TIE OFF CHAIN

CHAIN SOLD SEPARATELY





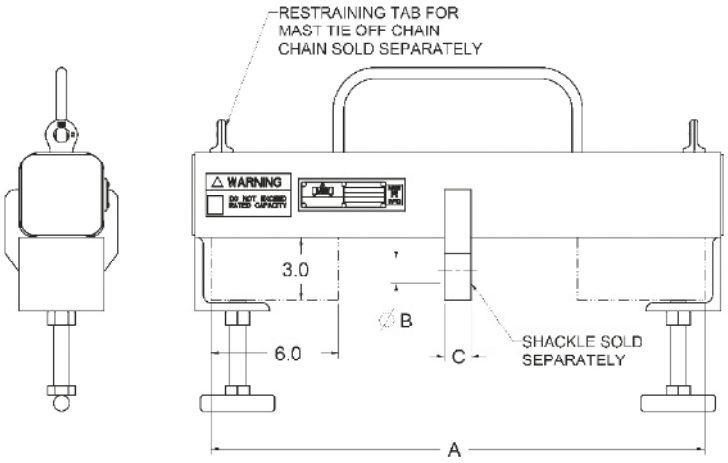
WARNING: M&W fork beams, fork booms, fork pockets and other lift attachments are modifications or additions that affect capacity and/or safe operation of forklifts (powered industrial trucks) and shall not be used without prior written approval from the forklift manufacturer. Capacity, Operation, Maintenance instruction plates, tags, and/or Decals shall be changed accordingly and not provided by M&W.

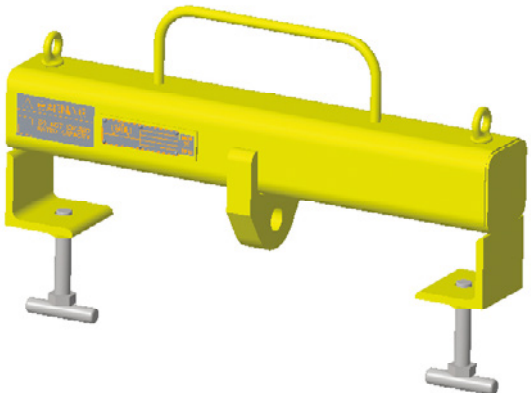
Reference OSHA 1910.178 | Any forklift attachment must use a tie off restraint to prevent from sliding off forks, sold separately

FORKLIFT LIFTING BEAMS - INSIDE SHACKLE MOUNT

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** forklift attachments proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Carrying handle for easy placement by personnel - **HANDLE NOT INTENDED FOR LIFTING LOADS**.
- Check with manufacturer of your forklift for load capabilities.
- Made in U.S.A.
- Custom designs available - call for engineering.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.
- Includes forklift restraining tabs.

⚠ Prop 65 – See Page 112





Working Load Limit in Pounds*	Part Number	A	B	C	Weight	Shackle Size
5,000	**11619**	19.25	0.810	1.00	30	5/8"
10,000	**11620**	23.25	1.130	1.25	50	7/8"

*** Call for specifications on larger sizes and capacities**

OPTIONAL MAST TIE OFF CHAIN:

Part Number	
20410	Mast Tie Off Chain - 8' Long

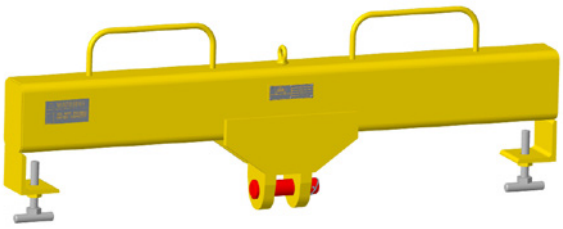
WARNING: M&W fork beams, fork booms, fork pockets and other lift attachments are modifications or additions that affect capacity and/or safe operation of forklifts (powered industrial trucks) and shall not be used without prior written approval from the forklift manufacturer. Capacity, Operation, Maintenance instruction plates, tags, and/or Decals shall be changed accordingly and not provided by M&W.

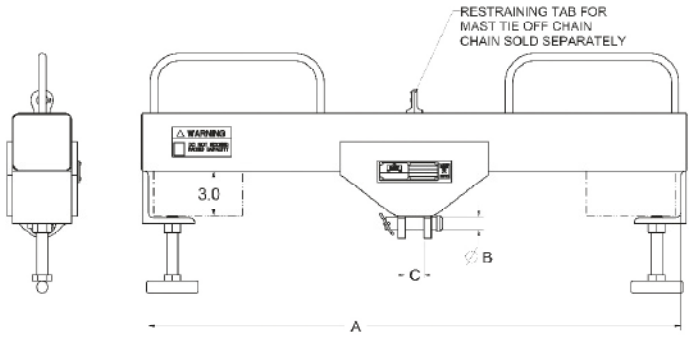
Reference OSHA 1910.178 | Any forklift attachment must use a tie off restraint to prevent from sliding off forks, sold separately

FORKLIFT LIFTING BEAM - INSIDE PIN MOUNT

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** forklift attachments proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Carrying handles for easy placement by personnel - **HANDLE NOT INTENDED FOR LIFTING LOADS**.
- Check with manufacturer of your forklift for load capabilities.
- Made in U.S.A.
- Custom designs available - call for engineering. **HOOK NOT INCLUDED**.
- Swivel Hook with bearing available for applications where the load needs to swivel while suspended.
- Includes forklift restraining tabs.

⚠ Prop 65 – See Page 112





Working Load Limit in Pounds*	Part Number	Weight in Pounds	A	B	C	Swivel Hook part number	Swivel Hook with bearing part number
5,000	**16337**	56	36	0.88	1.25	1048831	1028614
10,000	**16336**	75	36	1.13	1.75	1048837	1028623
15,000	**17000**	135	48	1.38	2.25	1048865	1028641
20,000	**16338**	156	36	1.50	2.25	1048865	1028641

*** Call for specifications on larger sizes and capacities**

OPTIONAL MAST TIE OFF CHAIN:

Part Number	
20410	Mast Tie Off Chain - 8' Long

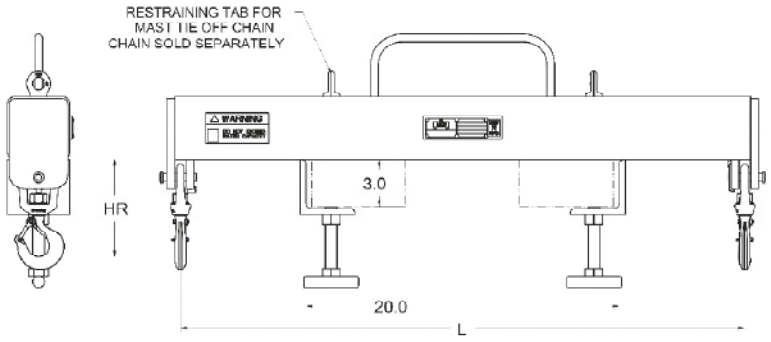
WARNING: M&W fork beams, fork booms, fork pockets and other lift attachments are modifications or additions that affect capacity and/or safe operation of forklifts (powered industrial trucks) and shall not be used without prior written approval from the forklift manufacturer. Capacity, Operation, Maintenance instruction plates, tags, and/or Decals shall be changed accordingly and not provided by M&W.

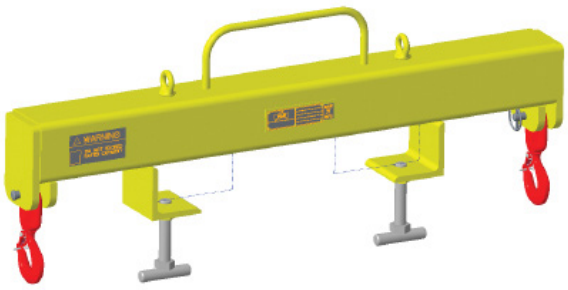
Reference OSHA 1910.178 | Any forklift attachment must use a tie off restraint to prevent from sliding off forks, sold separately

FORKLIFT LIFTING BEAMS - OUTSIDE HOOKS

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** forklift attachments proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Check with manufacturer of your forklift for load capabilities.
- Made in U.S.A.
- Custom designs available - call for engineering.
- Includes forklift restraining tabs.
- Carrying handle for easy placement by personnel - **HANDLE NOT INTENDED FOR LIFTING LOADS**.

⚠ Prop 65 – See Page 112





Working Load Limit in Pounds*	Part Number	HR	L	Weight
5,000	**12343**	6.2	36	49
10,000	**12363**	7.3	36	76
14,000	**16523**	8.8	36	90
22,000	**16524**	11.0	36	125

SOLD WITH HOOKS AS SHOWN

*** Call for specifications on larger sizes and capacities**

OPTIONAL MAST TIE OFF CHAIN:

Part Number	
20410	Mast Tie Off Chain - 8' Long

WARNING: M&W fork beams, fork booms, fork pockets and other lift attachments are modifications or additions that affect capacity and/or safe operation of forklifts (powered industrial trucks) and shall not be used without prior written approval from the forklift manufacturer. Capacity, Operation, Maintenance instruction plates, tags, and/or Decals shall be changed accordingly and not provided by M&W.

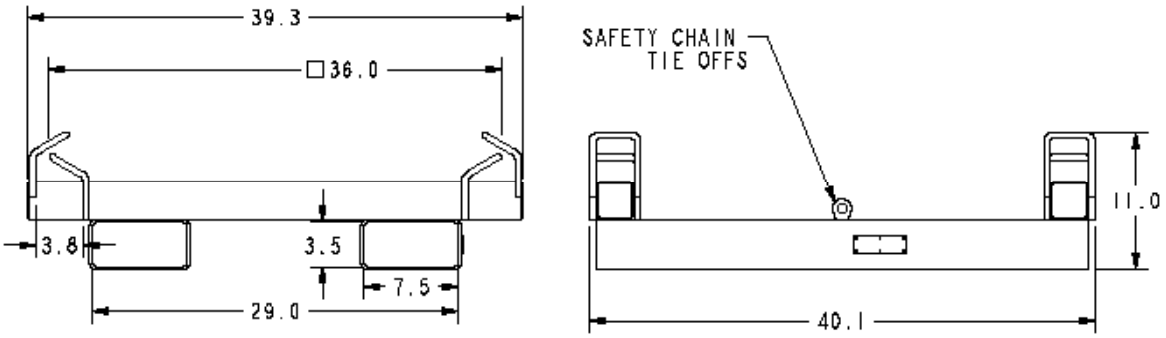
Reference OSHA 1910.178 | Any forklift attachment must use a tie off restraint to prevent from sliding off forks, sold separately

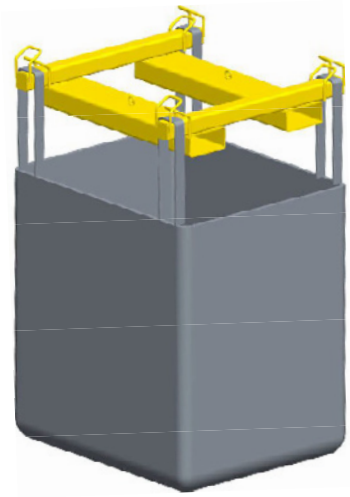
FORKLIFT LIFTING BEAMS - BULK CONTAINER FORK LIFT BEAM

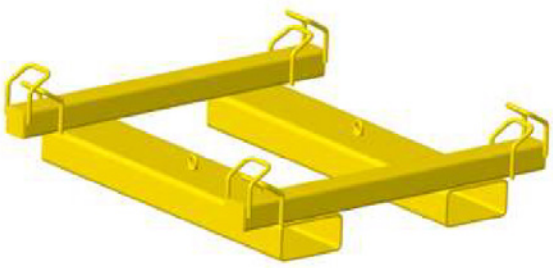
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** forklift attachments proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Check with manufacturer of your forklift for load capabilities.
- Made in U.S.A.
- Custom designs available - call for engineering.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.
- Includes forklift restraining tabs.

⚠ Prop 65 – See Page 112

Part Number	Working Load Limit	Weight
24381	4,000	195







OPTIONAL MAST TIE OFF CHAIN:

Part Number	
20410	Mast Tie Off Chain - 8' Long

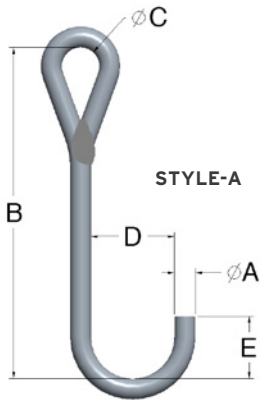
WARNING: M&W fork beams, fork booms, fork pockets and other lift attachments are modifications or additions that affect capacity and/or safe operation of forklifts (powered industrial trucks) and shall not be used without prior written approval from the forklift manufacturer. Capacity, Operation, Maintenance instruction plates, tags, and/or Decals shall be changed accordingly and not provided by M&W.

Reference OSHA 1910.178 | Any forklift attachment must use a tie off restraint to prevent from sliding off forks, sold separately

LIFTING HOOKS : ALLOY STEEL J-HOOKS EYE STYLE A

- ±4% on dimensions.
- Custom designs available - call for engineering.
- **All eyes welded unless otherwise specified.**
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Corrosion resistant finish.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- **Maximum use temperature is 400° F.**

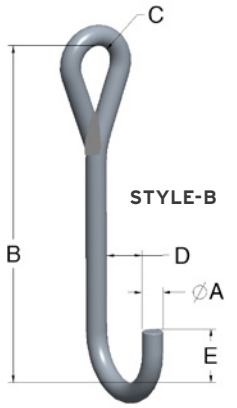
⚠ Prop 65 – See Page 112



Material ØA in Inches*	Part Number C = D = E =	Standard Alloy Style A Steel J-Hooks - B (length)							
		5"	6"	7"	8"	9"	10"	12"	14"
Ø 1/4" WLL = 100 Pounds	**Part Number** C = D = E = **WEIGHT**	**11621-5** 1.00 1.25 0.87 0.14	**11621-6** 1.00 1.25 0.87 0.9	**11621-7** 1.00 1.25 0.87 0.9	**11621-8** 1.00 1.25 0.87 0.9	**11621-9** 1.00 1.25 0.87 0.9	**11621-10** 1.00 1.25 0.87 1	**11621-12** 1.00 1.25 0.87 1	**11621-14** 1.00 1.25 0.87 1
Ø 5/16" WLL = 250 Pounds	**Part Number** C = D = E = **WEIGHT**	**11622-5** 1.00 1.25 0.87 0.21	**11622-6** 1.00 1.25 0.87 0.9	**11622-7** 1.00 1.25 0.87 0.9	**11622-8** 1.00 1.25 0.87 0.9	**11622-9** 1.00 1.25 0.87 0.9	**11622-10** 1.00 1.25 0.87 1	**11622-12** 1.00 1.25 0.87 1	**11622-14** 1.00 1.25 0.87 1
Ø 3/8" WLL = 365 Pounds	**Part Number** C = D = E = **WEIGHT**	**11623-5** 1.00 1.50 1.12 1.1	**11623-6** 1.00 1.50 1.12 0.37	**11623-7** 1.00 1.50 1.12 1.1	**11623-8** 1.00 1.50 1.12 1.1	**11623-9** 1.00 1.50 1.12 1.1	**11623-10** 1.00 1.50 1.12 1.3	**11623-12** 1.00 1.50 1.12 1.3	**11623-14** 1.00 1.50 1.12 1.3
Ø 1/2" WLL = 650 Pounds	**Part Number** C = D = E = **WEIGHT**	**11624-5** 1.00 2.00 1.50 1.5	**11624-6** 1.00 2.00 1.50 1.5	**11624-7** 1.00 2.00 1.50 1.5	**11624-8** 1.00 2.00 1.50 0.83	**11624-9** 1.00 2.00 1.50 1.6	**11624-10** 1.00 2.00 1.50 1.7	**11624-12** 1.00 2.00 1.50 1.7	**11624-14** 1.00 2.00 1.50 1.8
Ø 5/8" WLL = 1,000 Pounds	**Part Number** C = D = E = **WEIGHT**	**11625-5** 1.00 2.50 1.87 1.9	**11625-6** 1.00 2.50 1.87 1.9	**11625-7** 1.00 2.50 1.87 1.9	**11625-8** 1.00 2.50 1.87 2	**11625-9** 1.00 2.50 1.87 1.5	**11625-10** 1.00 2.50 1.87 2	**11625-12** 1.00 2.50 1.87 2.1	**11625-14** 1.00 2.50 1.87 2.2
Ø 3/4" WLL = 1,450 Pounds	**Part Number** C = D = E = **WEIGHT**		**11626-6** 1.00 3.00 2.25 2.3	**11626-7** 1.00 3.00 2.25 2.3	**11626-8** 1.00 3.00 2.25 2.3	**11626-9** 1.00 3.00 2.25 2.4	**11626-10** 1.00 3.00 2.25 2.34	**11626-12** 1.00 3.00 2.25 2.5	**11626-14** 1.00 3.00 2.25 2.6
Ø 7/8" WLL = 1,900 Pounds	**Part Number** C = D = E = **WEIGHT**				**11627-8** 1.00 3.50 2.62 2.7	**11627-9** 1.00 3.50 2.62 2.8	**11627-10** 1.00 3.50 2.62 2.9	**11627-12** 1.00 3.50 2.62 3.8	**11627-14** 1.00 3.50 2.62 3.2
Ø 1" WLL = 2,600 Pounds	**Part Number** C = D = E = **WEIGHT**						**11628-10** 1.25 4.00 3.00 3	**11628-12** 1.25 4.00 3.00 3.3	**11628-14** 1.25 4.00 3.00 5.75

***Larger capacities and custom configurations available. Please call for ordering assistance.**

LIFTING HOOKS : ALLOY STEEL J-HOOKS EYE STYLE B



- ±4% on dimensions.
- Custom designs available - call for engineering.
- All eyes welded unless otherwise specified.
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Corrosion resistant finish.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- **Maximum use temperature is 400° F.**

⚠ Prop 65 – See Page 112

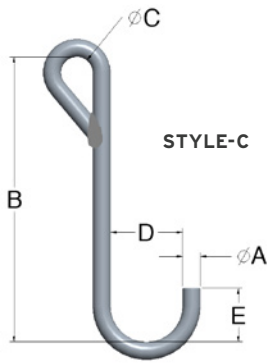
Material ØA in Inches*	Part Number C = D = E =	Standard Alloy Style B Steel J-Hooks - B (length)						
		6"	7"	8"	9"	10"	12"	14"
Ø 1/4" WLL = 100 Pounds	**Part Number** C = D = E = **WEIGHT**	**11637-6** 1.00 1.25 0.87 0.9	**11637-7** 1.00 1.25 0.87 0.9	**11637-8** 1.00 1.25 0.87 0.9	**11637-9** 1.00 1.25 0.87 0.9	**11637-10** 1.00 1.25 0.87 1	**11637-12** 1.00 1.25 0.87 1	**11637-14** 1.00 1.25 0.87 1
Ø 5/16" WLL = 250 Pounds	**Part Number** C = D = E = **WEIGHT**	**11638-6** 1.00 1.25 0.87 0.9	**11638-7** 1.00 1.25 0.87 0.9	**11638-8** 1.00 1.25 0.87 0.9	**11638-9** 1.00 1.25 0.87 0.9	**11638-10** 1.00 1.25 0.87 1	**11638-12** 1.00 1.25 0.87 1	**11638-14** 1.00 1.25 0.87 1
Ø 3/8" WLL = 365 Pounds	**Part Number** C = D = E = **WEIGHT**	**11639-6** 1.00 1.50 1.12 0.37	**11639-7** 1.00 1.50 1.12 1.1	**11639-8** 1.00 1.50 1.12 1.1	**11639-9** 1.00 1.50 1.12 1.1	**11639-10** 1.00 1.50 1.12 1.3	**11639-12** 1.00 1.50 1.12 1.3	**11639-14** 1.00 1.50 1.12 1.3
Ø 1/2" WLL = 650 Pounds	**Part Number** C = D = E = **WEIGHT**	**11640-6** 1.00 2.00 1.50 1.5	**11640-7** 1.00 2.00 1.50 1.5	**11640-8** 1.00 2.00 1.50 0.83	**11640-9** 1.00 2.00 1.50 1.6	**11640-10** 1.00 2.00 1.50 1.7	**11640-12** 1.00 2.00 1.50 1.7	**11640-14** 1.00 2.00 1.50 1.8
Ø 5/8" WLL = 1,000 Pounds	**Part Number** C = D = E = **WEIGHT**	**11641-6** 1.00 2.50 1.87 1.9	**11641-7** 1.00 2.50 1.87 1.9	**11641-8** 1.00 2.50 1.87 2	**11641-9** 1.00 2.50 1.87 1.5	**11641-10** 1.00 2.50 1.87 2	**11641-12** 1.00 2.50 1.87 2.1	**11641-14** 1.00 2.50 1.87 2.2
Ø 3/4" WLL = 1,450 Pounds	**Part Number** C = D = E = **WEIGHT**	**11642-6** 1.00 3.00 2.25 2.3	**11642-7** 1.00 3.00 2.25 2.3	**11642-8** 1.00 3.00 2.25 2.3	**11642-9** 1.00 3.00 2.25 2.4	**11642-10** 1.00 3.00 2.25 2.9	**11642-12** 1.00 3.00 2.25 2.5	**11642-14** 1.00 3.00 2.25 2.6
Ø 7/8" WLL = 1,900 Pounds	**Part Number** C = D = E = **WEIGHT**			**11643-8** 1.00 3.50 2.62 2.7	**11643-9** 1.00 3.50 2.62 2.8	**11643-10** 1.00 3.50 2.62 2.9	**11643-12** 1.00 3.50 2.62 3.8	**11643-14** 1.00 3.50 2.62 3.2
Ø 1" WLL= 2,600 Pounds	**Part Number** C = D = E = **WEIGHT**					**11644-10** 1.25 4.00 3.00 3	**11644-12** 1.25 4.00 3.00 3.3	**11644-14** 1.25 4.00 3.00 5.75

***Larger capacities and custom configurations available. Please call for ordering assistance.**

LIFTING HOOKS : ALLOY STEEL J-HOOKS EYE STYLE C

- ±4% on dimensions.
- Custom designs available - call for engineering.
- All eyes welded unless otherwise specified.
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Corrosion resistant finish.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- **Maximum use temperature is 400° F.**

⚠ Prop 65 – See Page 112



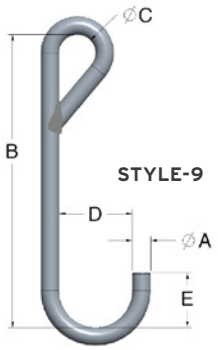
Material ØA in Inches*	Part Number C = D = E =	Standard Alloy Style C Steel J-Hooks - B (length)							
		5"	6"	7"	8"	9"	10"	12"	14"
Ø 1/4" WLL = 100 Pounds	**Part Number** C = D = E = **WEIGHT**	**11653-5** 1.00 1.25 0.87 0.14	**11653-6** 1.00 1.25 0.87 0.9	**11653-7** 1.00 1.25 0.87 0.9	**11653-8** 1.00 1.25 0.87 0.9	**11653-9** 1.00 1.25 0.87 0.9	**11653-10** 1.00 1.25 0.87 1	**11653-12** 1.00 1.25 0.87 1	**11653-14** 1.00 1.25 0.87 1
Ø 5/16" WLL = 250 Pounds	**Part Number** C = D = E = **WEIGHT**	**11654-5** 1.00 1.25 0.87 0.21	**11654-6** 1.00 1.25 0.87 0.9	**11654-7** 1.00 1.25 0.87 0.9	**11654-8** 1.00 1.25 0.87 0.9	**11654-9** 1.00 1.25 0.87 0.9	**11654-10** 1.00 1.25 0.87 1	**11654-12** 1.00 1.25 0.87 1	**11654-14** 1.00 1.25 0.87 1
Ø 3/8" WLL = 365 Pounds	**Part Number** C = D = E = **WEIGHT**	**11655-5** 1.00 1.50 1.12 1.1	**11655-6** 1.00 1.50 1.12 0.37	**11655-7** 1.00 1.50 1.12 1.1	**11655-8** 1.00 1.50 1.12 1.1	**11655-9** 1.00 1.50 1.12 1.1	**11655-10** 1.00 1.50 1.12 1.3	**11655-12** 1.00 1.50 1.12 1.3	**11655-14** 1.00 1.50 1.12 1.3
Ø 1/2" WLL = 650 Pounds	**Part Number** C = D = E = **WEIGHT**	**11656-5** 1.00 2.00 1.50 1.5	**11656-6** 1.00 2.00 1.50 1.5	**11656-7** 1.00 2.00 1.50 1.5	**11656-8** 1.00 2.00 1.50 0.83	**11656-9** 1.00 2.00 1.50 1.6	**11656-10** 1.00 2.00 1.50 1.7	**11656-12** 1.00 2.00 1.50 1.7	**11656-14** 1.00 2.00 1.50 1.8
Ø 5/8" WLL = 1,000 Pounds	**Part Number** C = D = E = **WEIGHT**	**11657-5** 1.00 2.50 1.87 1.9	**11657-6** 1.00 2.50 1.87 1.9	**11657-7** 1.00 2.50 1.87 1.9	**11657-8** 1.00 2.50 1.87 2	**11657-9** 1.00 2.50 1.87 1.5	**11657-10** 1.00 2.50 1.87 2	**11657-12** 1.00 2.50 1.87 2.1	**11657-14** 1.00 2.50 1.87 2.2
Ø 3/4" WLL = 1,450 Pounds	**Part Number** C = D = E = **WEIGHT**		**11658-6** 1.00 3.00 2.25 2.3	**11658-7** 1.00 3.00 2.25 2.3	**11658-8** 1.00 3.00 2.25 2.3	**11658-9** 1.00 3.00 2.25 2.4	**11658-10** 1.00 3.00 2.25 2.34	**11658-12** 1.00 3.00 2.25 2.5	**11658-14** 1.00 3.00 2.25 2.6
Ø 7/8" WLL = 1,900 Pounds	**Part Number** C = D = E = **WEIGHT**				**11659-8** 1.00 3.50 2.62 2.7	**11659-9** 1.00 3.50 2.62 2.8	**11659-10** 1.00 3.50 2.62 2.9	**11659-12** 1.00 3.50 2.62 3.8	**11659-14** 1.00 3.50 2.62 3.2
Ø 1" WLL = 2,600 Pounds	**Part Number** C = D = E = **WEIGHT**						**11660-10** 1.25 4.00 3.00 3	**11660-12** 1.25 4.00 3.00 3.3	**11660-14** 1.25 4.00 3.00 5.75

*Larger capacities and custom configurations available. Please call for ordering assistance.

LIFTING HOOKS : ALLOY STEEL J-HOOKS EYE STYLE 9

- ±4% on dimensions.
- Custom designs available - call for engineering.
- **All eyes welded unless otherwise specified.**
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Corrosion resistant finish.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- **Maximum use temperature is 400° F.**

⚠ Prop 65 – See Page 112



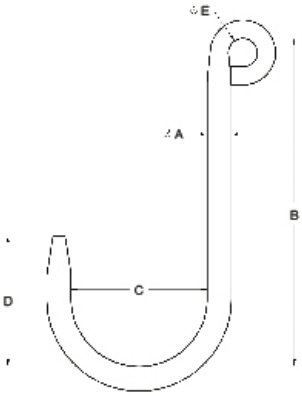
Material ØA in Inches*	Part Number C = D = E =	Standard Alloy Style 9 Steel J-Hooks - B (length)							
		5"	6"	7"	8"	9"	10"	12"	14"
Ø 1/4" WLL = 100 Pounds	**Part Number**	**19475-5**	**19475-6**	**19475-7**	**19475-8**	**19475-9**	**19475-10**	**19475-12**	**19475-14**
	C =	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	D =	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
	E =	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
	WEIGHT	0.9	0.9	0.9	0.9	0.9	1	1	1
Ø 5/16" WLL = 250 Pounds	**Part Number**	**19476-5**	**19476-6**	**19476-7**	**19476-8**	**19476-9**	**19476-10**	**19476-12**	**19476-14**
	C =	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	D =	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
	E =	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
	WEIGHT	0.9	0.9	0.9	0.9	0.9	1	1	1
Ø 3/8" WLL = 365 Pounds	**Part Number**	**19477-5**	**19477-6**	**19477-7**	**19477-8**	**19477-9**	**19477-10**	**19477-12**	**19477-14**
	C =	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	D =	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
	E =	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12
	WEIGHT	1.1	1.1	1.1	1.1	1.1	1.3	1.3	1.3
Ø 1/2" WLL = 650 Pounds	**Part Number**	**19478-5**	**19478-6**	**19478-7**	**19478-8**	**19478-9**	**19478-10**	**19478-12**	**19478-14**
	C =	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	D =	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
	E =	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
	WEIGHT	1.5	1.5	1.5	1.5	1.6	1.7	1.7	1.8
Ø 5/8" WLL = 1,000 Pounds	**Part Number**	**19479-5**	**19479-6**	**19479-7**	**19479-8**	**19479-9**	**19479-10**	**19479-12**	**19479-14**
	C =	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	D =	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
	E =	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87
	WEIGHT	1.9	1.9	1.9	2	2	2	2.1	2.2
Ø 3/4" WLL = 1,450 Pounds	**Part Number**		**19480-6**	**19480-7**	**19480-8**	**19480-9**	**19480-10**	**19480-12**	**19480-14**
	C =		1.00	1.00	1.00	1.00	1.00	1.00	1.00
	D =		3.00	3.00	3.00	3.00	3.00	3.00	3.00
	E =		2.25	2.25	2.25	2.25	2.25	2.25	2.25
	WEIGHT		2.3	2.3	2.3	2.4	2.4	2.5	2.6
Ø 7/8" WLL = 1,900 Pounds	**Part Number**				**19481-8**	**19481-9**	**19481-10**	**19481-12**	**19481-14**
	C =				1.00	1.00	1.00	1.00	1.00
	D =				3.50	3.50	3.50	3.50	3.50
	E =				2.62	2.62	2.62	2.62	2.62
	WEIGHT				2.7	2.8	2.9	3	3.2
Ø 1" WLL = 2,600 Pounds	**Part Number**						**19482-10**	**19482-12**	**19482-14**
	C =						1.25	1.25	1.25
	D =						4.00	4.00	4.00
	E =						3.00	3.00	3.00
	WEIGHT						3	3.3	3.6

***Larger capacities and custom configurations available. Please call for ordering assistance.**

LIFTING HOOKS : ALLOY STEEL FOUNDRY HOOKS

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Corrosion resistant finish.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- Tapered tip.
- Available in long and short reach.
- **Maximum use temperature is 400° F**.
- ±4% on dimensions.
- Custom designs available - call for engineering.
- All eyes welded unless otherwise specified.

Prop 65 – See Page 112



Material ØA in Inches*	Part Number	Long Reach Foundry Hooks					Working Load Limit in Pounds*	Weight LBS
		A	B	C	D	E		
1/2	**14601**	0.50	6.00	2.50	2.31	0.75	500	.90
5/8	**14602**	0.62	8.50	3.50	3.38	0.75	800	1.4
3/4	**14603**	0.75	8.50	3.50	3.38	0.75	1,250	2.0
13/16	**14604**	0.81	8.50	3.50	3.25	0.88	1,600	2.5
1	**14605**	1.00	8.50	4.00	3.75	1.00	2,500	4.0

***Larger capacities and custom configurations available. Please call for ordering assistance.**

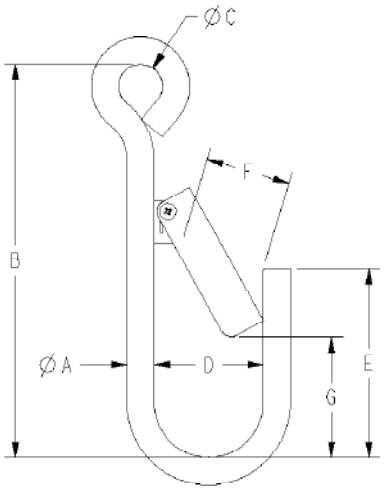
Material ØA in Inches*	Part Number	Short Reach Foundry Hooks					Working Load Limit in Pounds*	Weight LBS
		A	B	C	D	E		
1/2	**14782**	0.50	6.00	3.00	3.00	0.75	450	.90
5/8	**14783**	0.62	6.00	3.00	3.00	0.75	900	1.4
3/4	**14784**	0.75	6.00	3.00	3.00	0.75	1,400	2.0
13/16	**14785**	0.81	6.00	3.00	3.00	0.88	2,000	2.5
1	**14786**	1.00	6.00	3.00	3.00	1.00	3,000	4.0

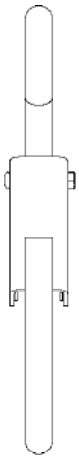
***Larger capacities and custom configurations available. Please call for ordering assistance.**

LIFTING HOOKS : ALLOY STEEL LATCHING J-HOOKS

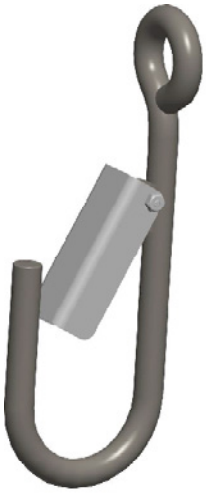
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Corrosion resistant finish.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- ±4% on dimensions.
- All eyes welded unless otherwise specified.
- **Maximum use temperature is 400° F**.

Prop 65 – See Page 112





STYLE B



STYLE A

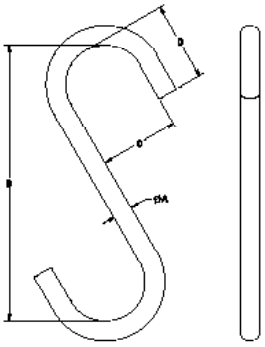
Material ØA in Inches*	Style A Part Number	Style B Part Number	Standard Alloy Steel J-Hooks							Latch	Working Load Limit in Pounds*	Weight LBS
			A	B	C	D	E	F	G			
1/4	**16284**	**17595**	0.25	4.50	1.00	1.25	2.00	0.75	1.2	**23980**	125	.20
5/16	**16016**	**17596**	0.32	5.00	1.00	1.25	2.00	0.80	1.2	**23980**	250	.30
3/8	**14924**	**17611**	0.38	6.00	1.00	1.50	2.38	0.96	1.3	**23980**	365	.55
1/2	**14767**	**17612**	0.50	8.00	1.00	2.00	3.13	1.50	1.7	**23981**	650	1.2
5/8	**14930**	**17613**	0.62	9.00	1.00	2.50	4.32	1.76	2.5	**23888**	1,000	2.0
3/4	**16383**	**17614**	0.75	10.00	1.25	3.00	5.25	2.21	3.0	**23889**	1,435	3.4
7/8	**16384**	**17615**	0.88	12.00	1.25	3.50	6.25	2.57	3.5	**23890**	1,900	5.0
1	**16385**	**17616**	1.00	14.00	1.25	4.50	8.25	3.70	4.5	**23891**	2,300	8.0

***Larger capacities and custom configurations available. Please call for ordering assistance.**

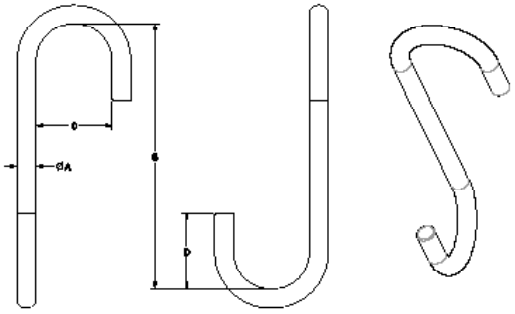
LIFTING HOOKS : ALLOY STEEL S-HOOKS

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Corrosion resistant finish.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- **Maximum use temperature is 400° F.**
- ±4% on dimensions.
- Custom designs available - call for engineering.
- Square and hex stock available.

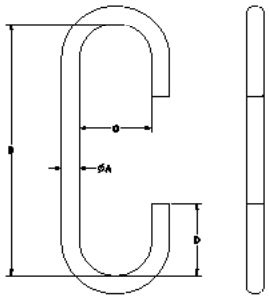
Prop 65 – See Page 112



STYLE A



STYLE B



STYLE C

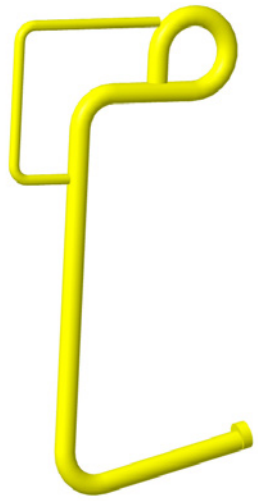
Material ØA in Inches*	Part Number			Standard Alloy Steel S-Hooks					Working Load Limit in Pounds*
	Style A	Style B	Style C	A	B	C	D	Weight	
1/4	14189	14198	14207	0.25	5.00	1.25	1.25	0.1	100
5/16	14190	14199	14208	0.31	5.00	1.25	1.25	0.1	250
3/8	14191	14200	14209	0.38	6.00	1.50	1.50	0.3	365
1/2	14192	14201	14210	0.50	7.00	2.00	2.00	0.6	650
9/16	14193	14202	14211	0.56	9.00	2.25	2.25	0.9	800
5/8	14194	14203	14212	0.63	9.00	2.50	2.50	1.2	1,000
3/4	14195	14204	14213	0.75	9.00	2.25	2.25	2.1	1,790
7/8	14196	14205	14214	0.88	10.00	2.63	2.63	3.3	2,440
1	14197	14206	14215	1.00	11.00	3.00	3.00	5.0	3,190

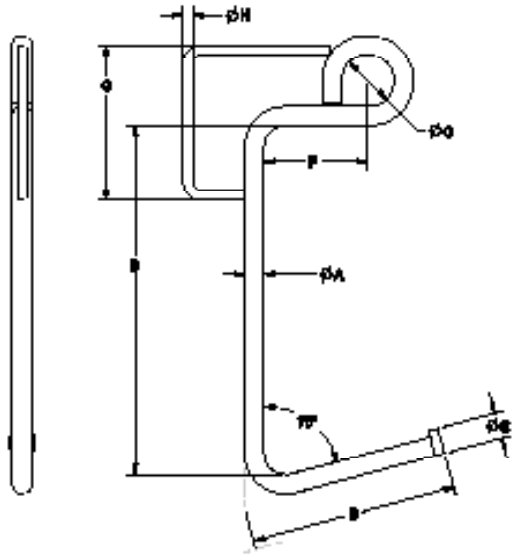
*Larger capacities and custom configurations available. Please call for ordering assistance.

LIFTING HOOKS : ALLOY STEEL SORTING HOOKS

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Corrosion resistant finish.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- ±4% on dimensions.
- Custom designs available - call for engineering.
- All eyes welded unless otherwise specified.
- **Maximum use temperature is 400° F.**
- Handle not designed for lifting.

⚠ Prop 65 – See Page 112





Material ØA in Inches*	Part Number	Standard Alloy Steel Sorting Hooks						Weight	Working Load Limit in Pounds*
		B	C	D	E	F	G		
1/2	**13457**	3.25	1.50	4.00	0.75	1.88	4.00	1.0	100
3/4	**13425**	13.50	2.00	8.00	1.00	4.00	6.00	4.5	300
7/8	**13424**	13.50	2.00	8.00	1.00	3.88	6.00	6.0	450

***Larger capacities and custom configurations available. Please call for ordering assistance.**

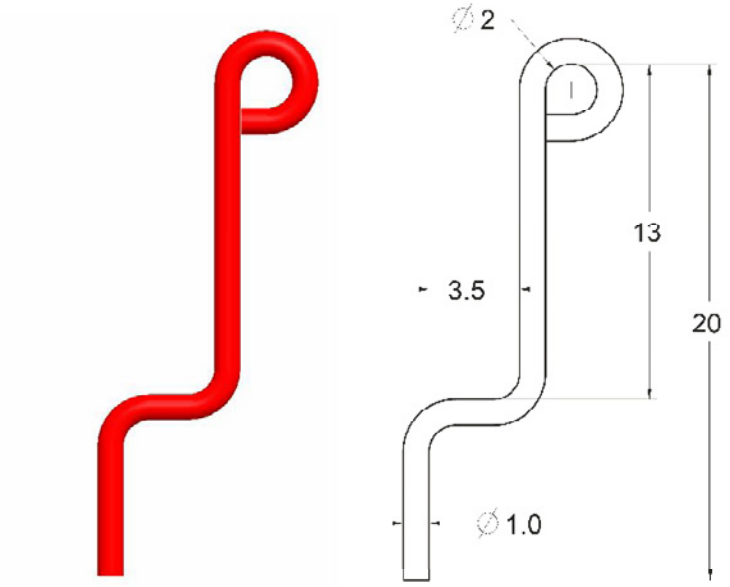
REEL LIFTING HOOK

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Powder coat painted safety red for increased visibility.
- Proof load certificates included.
- Durable construction ideally suited to jobsite use.
- Made in U.S.A.
- ±4% on dimensions.

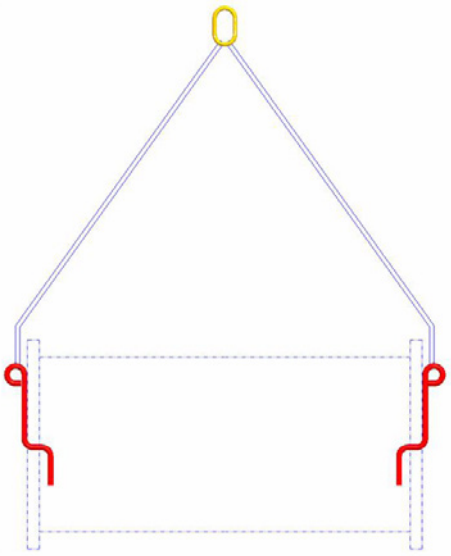
Prop 65 – See Page 112

Working Load Limit in Pounds*	Part Number	Weight
3,000	**13409**	5

- 3,000 pound Working Load Limit per hook.
- 6,000 pound Working Load Limit at 60 degrees when used in pairs.
- 1" diameter hook fits most any reel opening.
- Hook design permits almost universal use no matter the reel size or configuration.
- Shown on 2-leg bridle sling.
- Optional 2-leg bridle sling available upon request.
- Call for details.
- Sold as each.



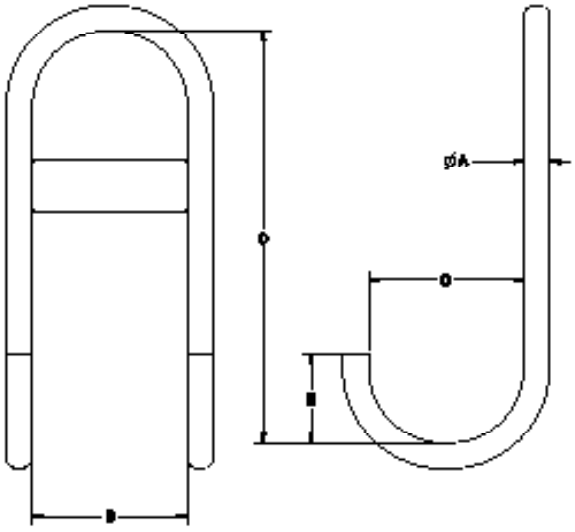
TYPICAL USE

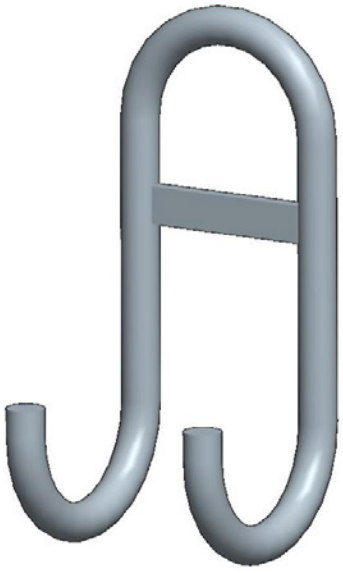


LIFTING HOOKS : STIRRUP / DOUBLE HOOKS

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Corrosion resistant finish.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- ±4% on dimensions.
- Custom designs available - call for engineering.
- **Maximum use temperature is 400° F**.

⚠ Prop 65 – See Page 112





Material ØA in Inches*	Part Number	A	B	C	D	E	Weight	Working Load Limit in Pounds*
3/8	**16386**	0.38	2.50	8.00	2.50	1.75	1.0	450
1/2	**16387**	0.50	3.00	8.00	3.00	1.75	1.8	900
5/8	**16388**	0.63	3.50	9.00	3.50	2.50	3.2	1,500
3/4	**16389**	0.75	4.00	10.00	4.00	2.50	4.9	2,250
1	**16390**	1.00	4.50	12.00	4.50	3.00	10.0	4,600

***Larger capacities and custom configurations available. Please call for ordering assistance.**

INSPECTION, TESTING, AND MAINTENANCE

A. INITIAL INSPECTION

1. New and reinstalled J-hooks shall be inspected by a qualified person prior to initial use. J-hooks manufactured by Machining & Welding are proof loaded prior to delivery of the J-hook.

2. Altered, repaired, or modified J-hooks shall be inspected by a qualified person.

B. EVERY LIFT INSPECTION

1. Visual inspection by the operator before and during each lift made with the J-hook.

C. FREQUENT INSPECTION

1. Normal service – monthly.
2. Heavy service - weekly.
3. Severe service - daily.
4. Special or infrequent service – as recommended by a qualified person before and after each occurrence.

C. PERIODIC INSPECTION

Visual inspection by a qualified person making records of apparent external conditions to provide the basis for continuing evaluation. An external legible tag on the J-hook is an acceptable identification in lieu of written records.

1. Normal service – yearly.
2. Heavy service - semiannually.
3. Severe service - quarterly.
4. Special or infrequent service – as recommended by a qualified person before the first such occurrence and as directed by the qualified person for any subsequent occurrences.

PAINT REMOVAL AND INSPECTION

J-hooks (including paint line hooks) which are used in a painting booth or paint line environment shall be visually inspected by a qualified person and classified as operating in a "Severe service" environment. When paint residue is cleaned from the J-hook, a visual inspection by a designated person shall take place and be documented.

PAINT LINE J-HOOK REMOVAL CRITERIA

J-hooks (including paint line hooks) which are used in a painting booth or paint line environment should be replaced, regardless of apparent external condition, every 6 months. Chemicals used in modern paint booth and paint line environments commonly contribute to the fatigue and crystallization of alloy steel when used repeatedly. In service periods longer than 6 months, J-hooks can become dangerously brittle. This condition contributes to the J-hooks service life being shortened. This condition also causes the J-hook to become susceptible to sudden and catastrophic failure. Therefore, any J-hook (including paint line hooks) used in a painting booth or paint line environment should be replaced every 6 months.

PLATE LIFTING HOOKS

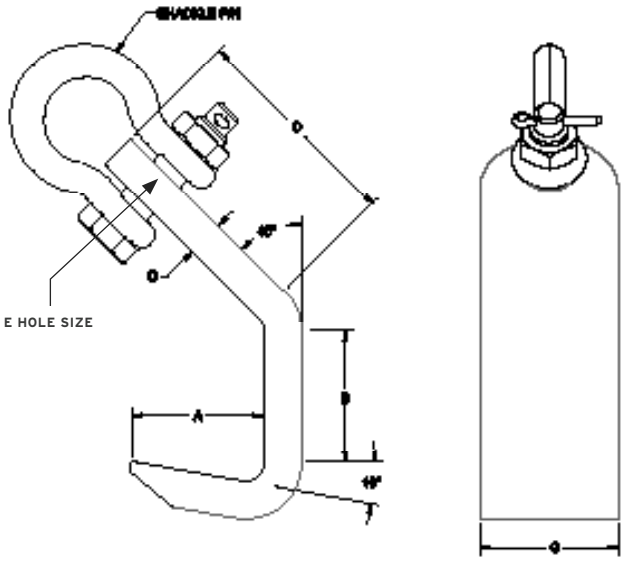
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Powder coat painted safety red for increased visibility.
- **ALL** plate hooks shipped with proof load certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- Custom designs available - call for engineering.

⚠ Prop 65 – See Page 112

Working Load Limit in Pounds*	Part Number	Grade 100 Chain Size	A	B	C	D	E - Hole Size	G	Weight	Shackle Part Number
4,300	**11721**	9/32"	2.00	1.75	2.50	0.63	0.83	2.50	3	M850P
8,800	**11722**	3/8"	2.63	3.00	4.31	0.75	0.95	3.00	6	M851P
15,000	**11723**	1/2"	3.50	4.00	4.38	1.00	1.21	3.50	13	M853P
22,600	**18866**	5/8"	4.38	5.00	5.44	1.25	1.60	5.00	27	M855P

*** Call for specifications on larger sizes and capacities - HOOKS SOLD INDIVIDUALLY**

- Supplied **with** Safety Shackle, as per picture.
- Powder coated red - custom colors available on request.
- Made from alloy material - designed to handle plate steel.
- Available as lifting components or attached to certified lifting chain slings.
- **Recommended to be used at a minimum of a 45° horizontal rigging angle.**

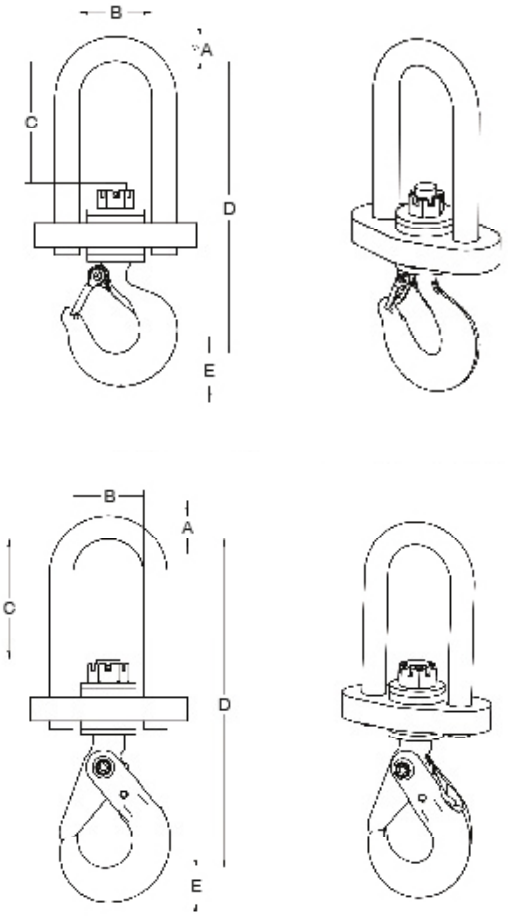


INSULATED SWIVEL HOOKS

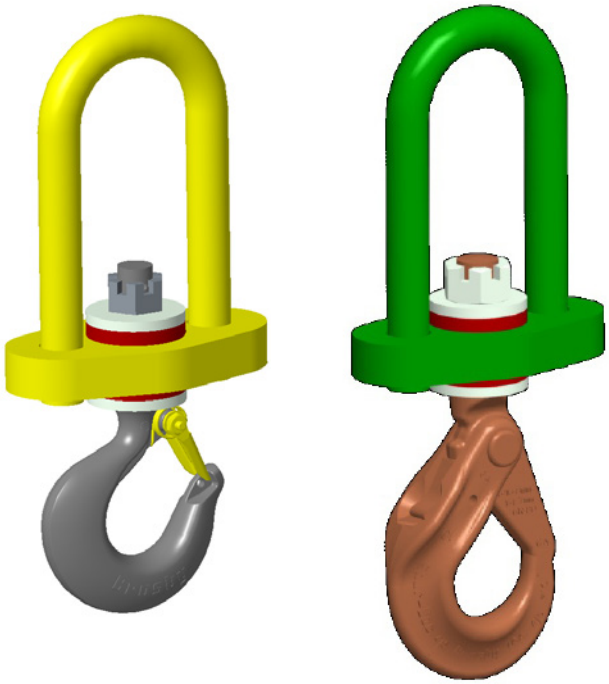
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- **ALL** Lifting Hooks proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- All dimensions in inches unless otherwise noted.
- Electrically insulated - helps eliminate current flow that may damage hoists and lifting equipment.

⚠ Prop 65 – See Page 112

Working Load Limit in Pounds*	Part Number	A	B	C	D	E	F	Weight in Pounds	Color
4,000	**16355**	0.75	2.25	3.75	9.0	1.0	2.75	6	Yellow
4,500	**16358**	0.75	2.25	3.81	10.43	1.1	2.75	7	Green



- 16355 Swivel hook with latch
- 16358 Crosby Shur-Loc® hook
- Insulated to 2,000 VDC
- **Do Not Rotate Under Load**



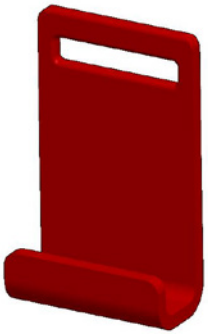
LIFTING HOOKS : ALLOY STEEL FLAT HOOKS

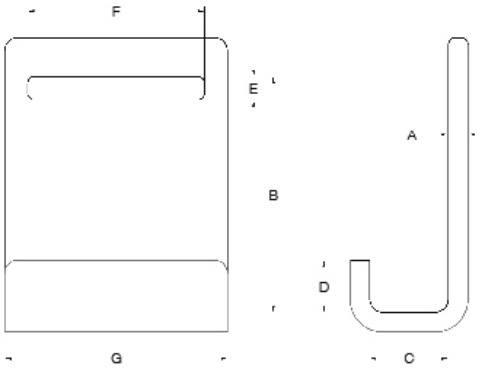
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Corrosion resistant finish.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- **Maximum use temperature is 400° F**.
- ±4% on dimensions.
- Custom designs available - call for engineering.
- Working Load Limit indicated is for the bottom of the hooks - **DO NOT TIP LOAD**.

⚠ Prop 65 – See Page 112

Style A*	Part Number	A	B	C	D	E	F	G	Weight	Working Load Limit in Pounds*
1/4	**16397**	0.25	4.25	1.00	0.75	0.44	2.38	3.00	1.4	3,200
3/8	**16398**	0.38	4.50	1.50	1.00	0.44	3.38	4.25	3.4	4,800
1/2	**16399**	0.50	4.75	1.75	1.25	0.44	4.38	5.25	6.2	6,400

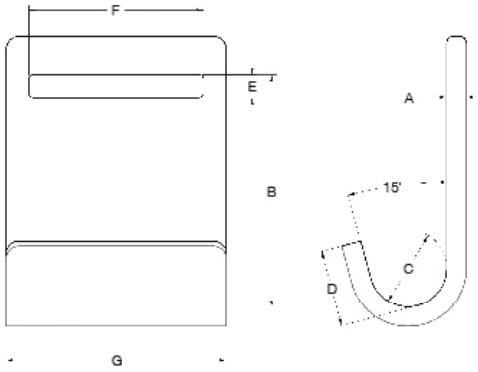
***Larger capacities and custom configurations available. Please call for ordering assistance.**





Style B*	Part Number	A	B	C	D	E	F	G	Weight	Working Load Limit in Pounds*
1/4	**16400**	0.25	4.25	1.00	0.75	0.44	2.38	3.00	1.0	3,200
3/8	**16401**	0.38	4.50	1.50	1.50	0.44	3.38	4.25	3.3	4,800
1/2	**16402**	0.50	4.75	1.75	1.75	0.44	4.38	5.25	6.0	6,400

***Larger capacities and custom configurations available. Please call for ordering assistance.**

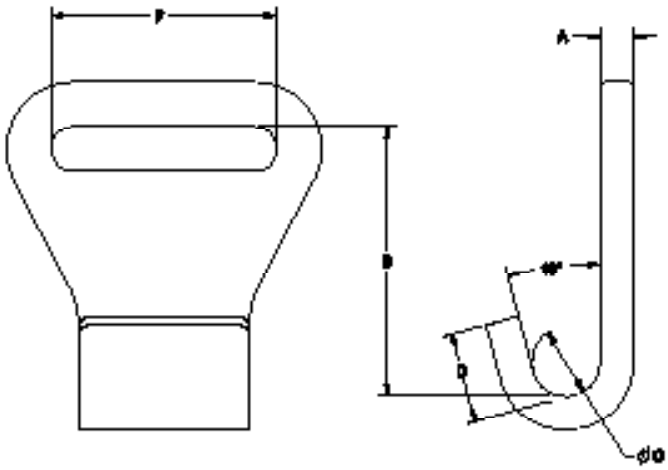


LIFTING HOOKS : ALLOY STEEL FLAT HOOKS

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Corrosion resistant finish.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- **Maximum use temperature is 400° F**.
- Working Load Limit indicated is for the bottom of the hooks - **DO NOT TIP LOAD**.

Prop 65 – See Page 112

	Part Number	A	B	C	D	E	F	G	Weight	Working Load Limit in Pounds*
3/16	**17618**	0.19	1.50	0.25	0.38	0.25	1.25	0.95	0.2	400
3/16	**17619**	0.19	1.50	0.38	0.50	0.25	1.25	0.95	0.2	300



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PAGE 5

PERSONNEL BASKET WITH OPTIONAL TEST WEIGHT AND SUSPENSION RIGGING

- Meets or exceeds ASME B30.23 specifications.
- **EACH** personnel basket individually load tested with inspection and OSHA certification paperwork included.
- Sides enclosed with solid metal to the intermediate rail.
- Grab rail on entire perimeter.
- Non-slip, diamond plate steel floor.
- Inward swing, self-closing locking access door. Heavy-duty hinge and latch standard on all models.
- Guardrail system complies with OSHA 29 CFR Part 1926.1431(e)6 and 1926.1431(e)7.
- Permanent identification/data plate standard on all models.
- Product liability insurance certificate available upon request.
- Solid, removable roof design is standard on all models - keeps weather off personnel to comply with OSHA 1926.1431(e)10.
- Permanent tie-off points for materials and tools to comply with OSHA 1926.1431(e).
- Lifting point shackles not included.

⚠ Prop 65 – See Page 112

OPTIONAL EQUIPMENT

- Pin-on, removable test weight.
- 4 Leg Suspension Bridle with Bolt-Type anchor shackles.
- **Not to be used as a fork lift personnel basket**

OPTIONAL TOP RIGGING

OPTIONAL TEST WEIGHT

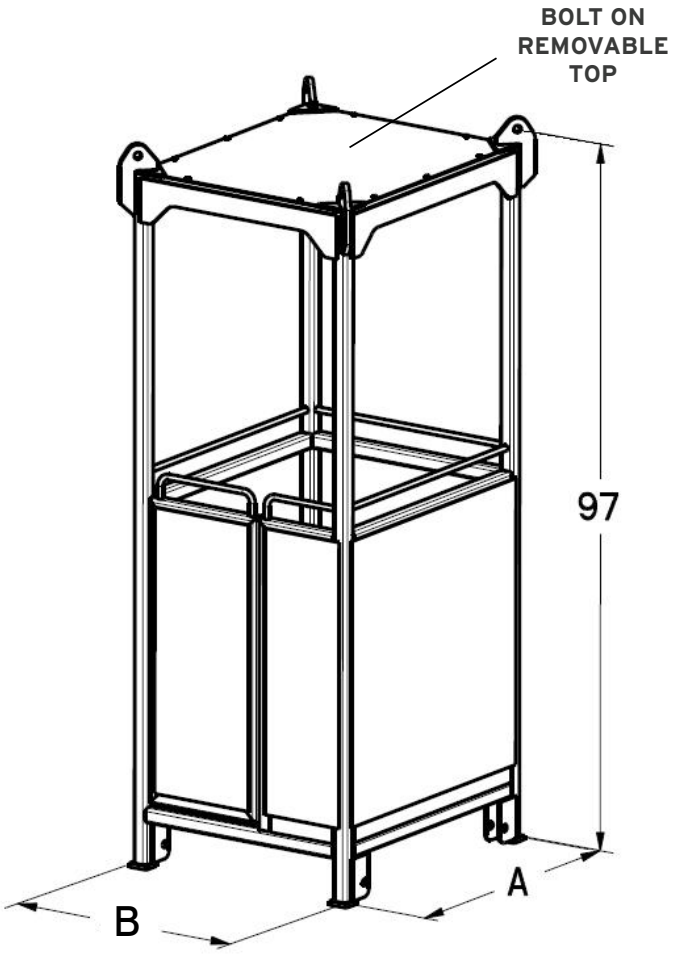
						OPTIONAL EQUIPMENT		
Capacity in Pounds*	Basket Part Number	Max # of People	Weight	Size A x B		Test Weight Part Number	Test Weight Quantity	4 Leg Suspension Bridle Part Number
500	**14347**	1	735	40" x 34"		**14369**	1	**15189**
1,000	**12741**	2	945	48" x 48"		**12748**	1	**15189**
1,500	**12757**	3	1200	72" x 48"		**12766**	1	**15190**
2,000	**12755**	4	1525	94" x 48"		**12748**	2	**15191**

*** Call for specifications on larger sizes and capacities**

SUSPENDED PERSONNEL BASKET WITH OPTIONAL TEST WEIGHT AND SUSPENSION RIGGING

- Painted safety yellow for increased visibility.
- **ALL** Personnel Baskets shipped with proof load certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- Lifting point shackles included with suspension rigging.

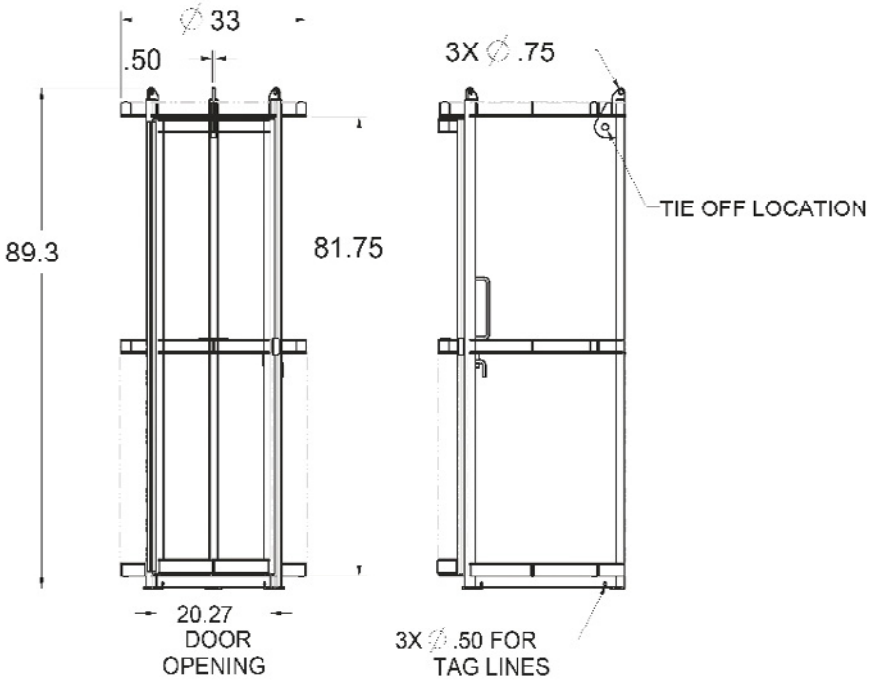
⚠ Prop 65 – See Page 112

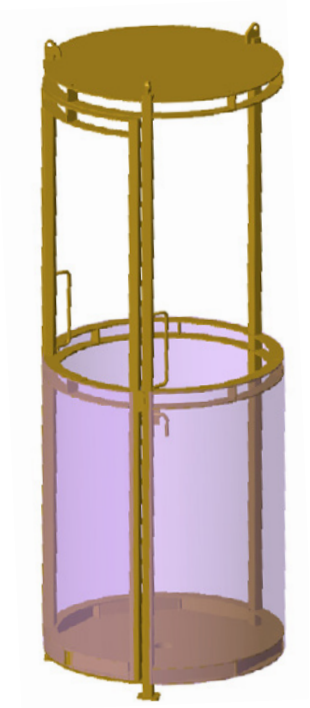


SUSPENDED ROUND PERSONNEL BASKET WITH OPTIONAL TEST WEIGHT

- Painted safety yellow for increased visibility.
- **ALL** Personnel Baskets shipped with proof load certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- Lifting point shackles not included.

⚠ Prop 65 – See Page 112





Capacity in Pounds*	Basket Part Number	Max # of People	Weight	Outside Diameter
500	**16465**	1	550	33"

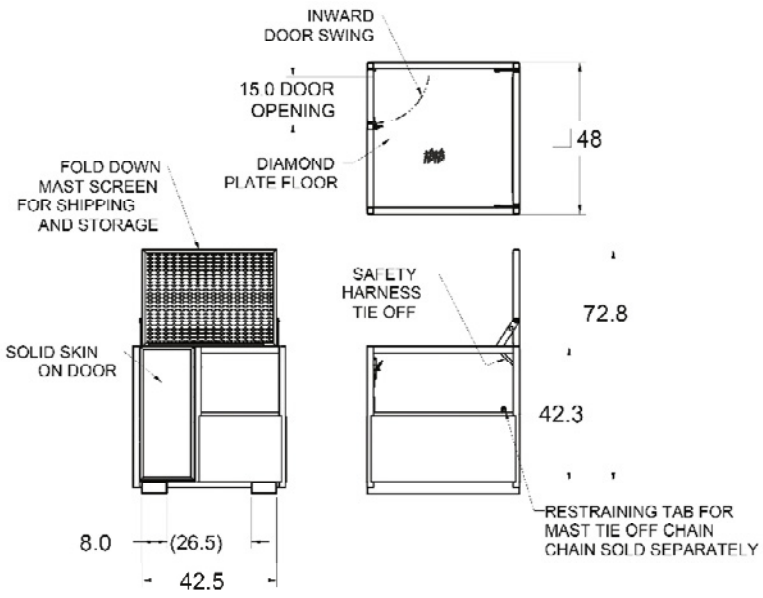
*** Call for specifications on larger sizes and capacities**

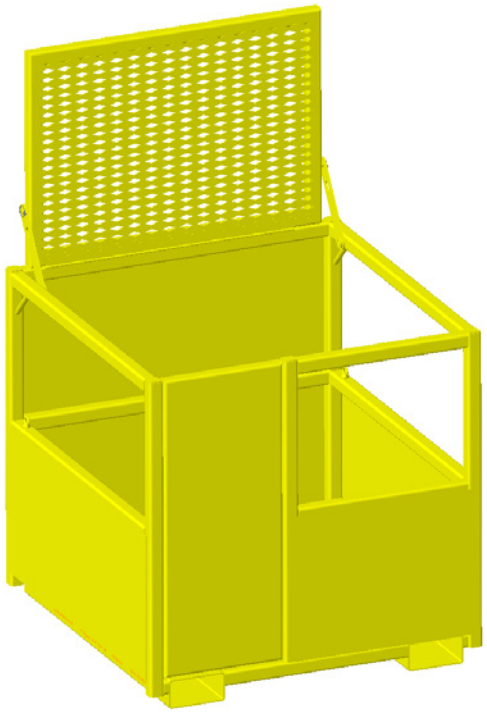
OPTIONAL EQUIPMENT	
Test Weight	**15729**
3-leg suspension rigging bridle with Bolt-Type anchor shackles	**19514**

FORK PERSONNEL BASKET

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** material handling equipment proof loaded and shipped with certification paperwork.
- Inward swing, self-closing locking access door.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- MUST be tied to forklift during use.

⚠ Prop 65 – See Page 112





Part Number	Capacity in Pounds	Max # of People	Weight in Pounds
20988	1,000	2	775

OPTIONAL MAST TIE OFF CHAIN:

Part Number	
20410	Mast Tie Off Chain - 8' Long

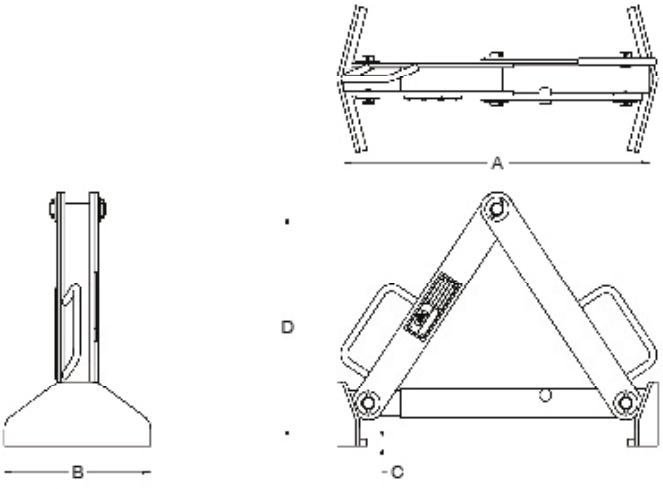
BARREL / BUCKET LIFTER

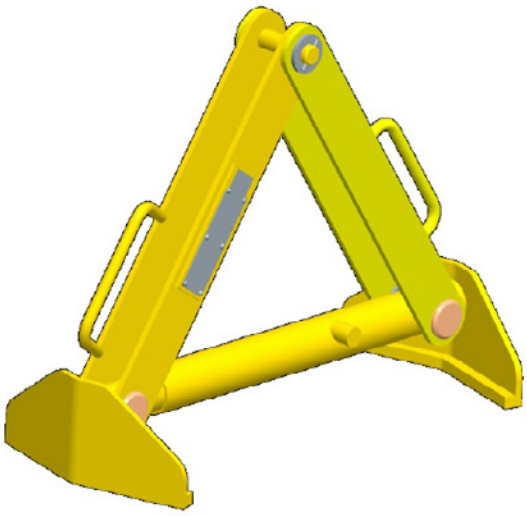
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- Durable construction ideally suited to jobsite or warehouse use.
- Drum lid MUST be properly secured
- Self-adjusting to lift rimmed steel, plastic or fiber drums
- Made in U.S.A.
- Machined to exacting tolerances.
- Custom designs available - call for engineering.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.

Prop 65 – See Page 112

Working Load Limit in Pounds*	Part Number	Weight in Pounds	A min	A max	B	C	D
1,200	**16291**	22	18.0	29.0	9.1	0.44	13.9
1,000	**16656**	17	14.0	20.0	9.1	0.44	11.9

*** Call for specifications on larger sizes and capacities**

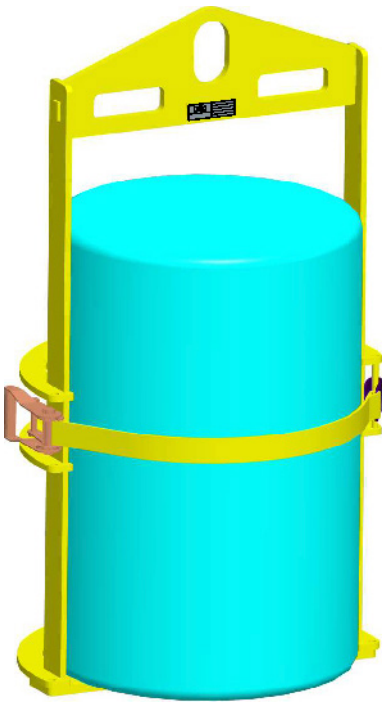




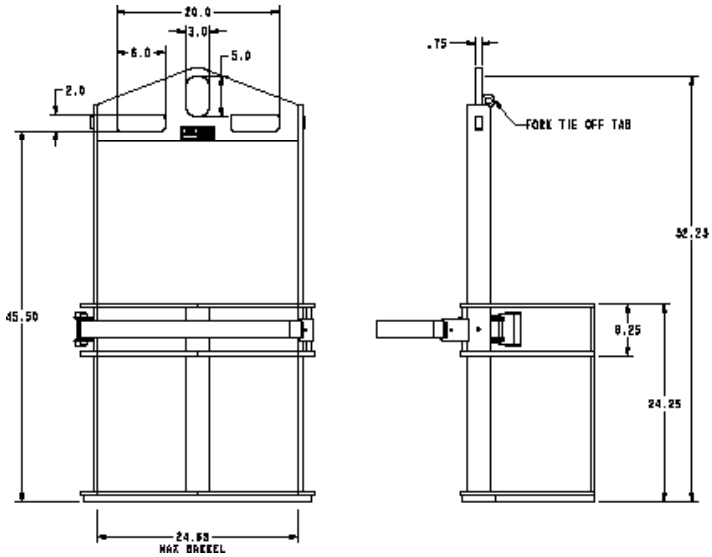
BARREL LIFTER

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- Durable construction ideally suited to jobsite or warehouse use.
- Ratchet strap secures drum
- Used with 30 & 55 gallon fiber, steel or plastic drums
- Vertical lifting only
- Fork pockets
- Maximum drum dia is 24.63
- Made in U.S.A.
- Custom designs available - call for engineering.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.

⚠ Prop 65 – See Page 112



Part Number	Working Load Limit	Weight
23589	1,000	160



OPTIONAL MAST TIE OFF CHAIN:

Part Number	
20410	Mast Tie Off Chain - 8' Long

HD 5 GALLON BUCKET SLING

- Manufactured to exceed all ASME B30.9 and OSHA 1910.184 regulations.
- Durable, heavy-duty tags ideally suited to jobsite or warehouse use.
- Custom tagging available - call for details.

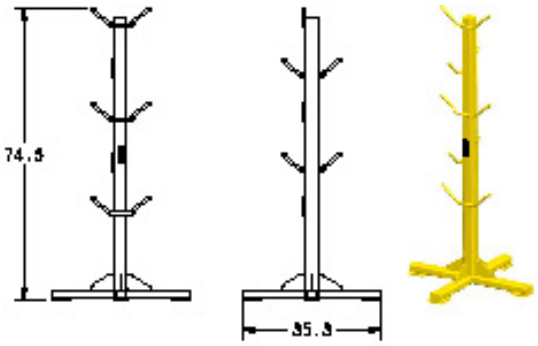
Prop 65 – See Page 112

Part Number	Working Load Limit
21096	500

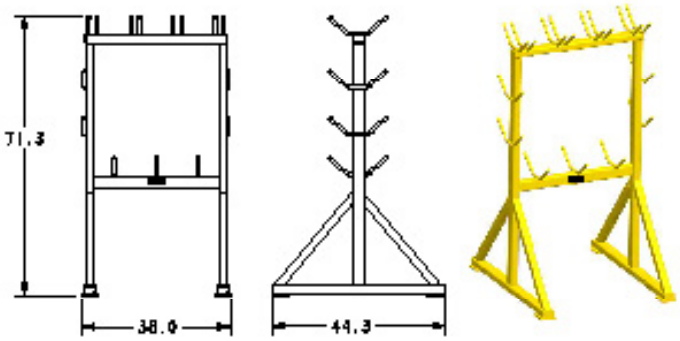
RIGGING RACKS

- Stands commonly used to organize and hang rigging, shackles & other slings off the floor

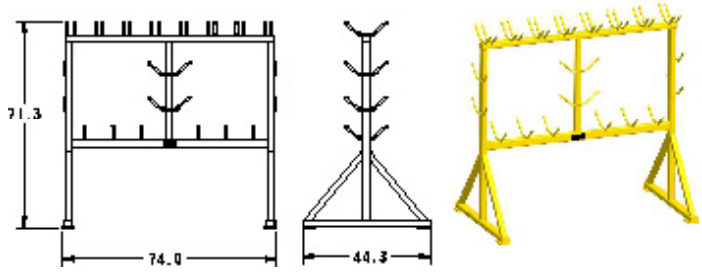
Prop 65 – See Page 112



Part Number	Part Number with Casters	Capacity	Weight
23573	25049	300 LB	125



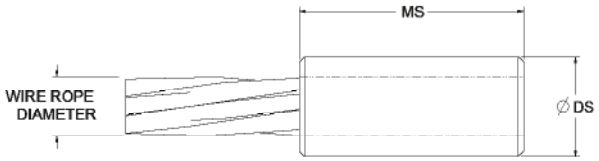
Part Number	Part Number with Casters	Capacity	Weight
23568	25050	500 LB	260



Part Number	Part Number with Casters	Capacity	Weight
23557	25051	800 LB	350

SA WIRE ROPE FERRULES

Mild carbon steel construction. Length is measured from outside and end of terminal. Can also be attached at any point in the assembly as well as at the end. Length and diameter can be modified per customer specifications.

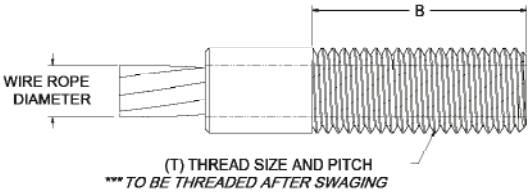


Part Number*	Wire Rope Diameter	DS	MS (approx)	Chamfer
MWSA157-02	1/16"	1/4"	3/8"	1/32 X 45°
MWSA157-03	3/32"	5/16"	1/2"	1/32 X 45°
MWSA157-04	1/8"	3/8"	5/8"	1/32 X 45°
MWSA157-05	5/32"	7/16"	3/4"	1/32 X 45°
MWSA157-06	3/16"	1/2"	7/8"	1/32 X 45°
MWSA157-07	7/32"	9/16"	1"	3/64 X 45°
MWSA157-08	1/4"	5/8"	1-1/8"	3/64 X 45°
MWSA157-09	9/32"	11/16"	1-1/4"	3/64 X 45°
MWSA157-10	5/16"	3/4"	1-3/8"	3/64 X 45°
MWSA157-12	3/8"	7/8"	1-3/4"	1/16 X 45°
MWSA157-14	7/16"	1"	2"	1/16 X 45°
MWSA157-16	1/2"	1-1/8"	2-1/4"	1/16 X 45°
MWSA157-18	9/16"	1-1/4"	2-1/2"	5/64 X 45°
MWSA157-20	5/8"	1-3/8"	3"	5/64 X 45°
MWSA157-24	3/4"	1-9/16"	3-1/2"	5/64 X 45°
MWSA157-28	7/8"	1-3/4"	4-1/4"	5/64 X 45°
MWSA157-32	1"	2"	4-3/4"	3/32 X 45°

* Call for specifications on larger sizes and metric sizes

SA WIRE ROPE THREADED SLEEVES

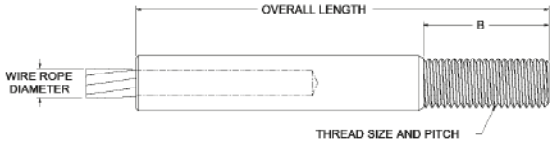
Mild carbon steel construction. NC thread pitch furnished as standard; NF thread pitch available. Right hand threads standard; left hand available. Wrench grips available per customer request. Metric sizes available.



Part Number*	Wire Rope Diameter	Thread Size (T)		B
		NC	NF	
MWSA155-03	3/32"	1/4-20	1/4-28	1/2
MWSA155-04	1/8"	1/4-20	1/4-28	3/4
MWSA155-05	5/32"	5/16-18	5/16-24	1
MWSA155-06	3/16"	3/8-16	3/8-24	1-1/4
MWSA155-07	7/32"	7/16-14	7/16-20	1-1/4
MWSA155-08	1/4"	1/2-13	1/2-20	1-1/2
MWSA155-09	9/32"	9/16-12	9/16-18	1-1/2
MWSA155-10	5/16"	5/8-11	5/8-18	1-3/4
MWSA155-12	3/8"	3/4-10	3/4-16	2
MWSA155-14	7/16"	7/8-9	7/8-14	2-1/4
MWSA155-16	1/2"	1-8	1-14	2-1/2
MWSA155-18	9/16"	1-1/8-7		2-3/4
MWSA155-20	5/8"	1-1/4-7		3
MWSA155-24	3/4"	1-1/2-6		4
MWSA155-28	7/8"	1-3/4-5		5
MWSA155-32	1"	2-4-1/2		6

* Call for specifications on larger sizes and metric sizes

SA WIRE ROPE THREADED STUDS



Mild carbon steel. NC thread pitch furnished; NF available. Right hand threads furnished; left hand available. Wrench grips available upon request.

Part Number*	Wire Rope Diameter	Thread Size (T)		B
		NC	NF	
MWSA156-02	1/16"	10-24	10-32	1/2
MWSA156-03	3/32"	1/4-20	1/4-28	1/2
MWSA156-04	1/8"	1/4-20	1/4-28	3/4
MWSA156-05	5/32"	5/16-18	5/16-24	7/8
MWSA156-06	3/16"	3/8-16	3/8-24	1
MWSA156-07	7/32"	7/16-14	7/16-20	1
MWSA156-08	1/4"	1/2-13	1/2-20	1-1/8
MWSA156-09	9/32"	9/16-12	9/16-18	1-1/4
MWSA156-10	5/16"	5/8-11	5/8-18	1-1/2
MWSA156-12	3/8"	3/4-10	3/4-16	1-5/8
MWSA156-14	7/16"	3/4-10	3/4-16	1-7/8

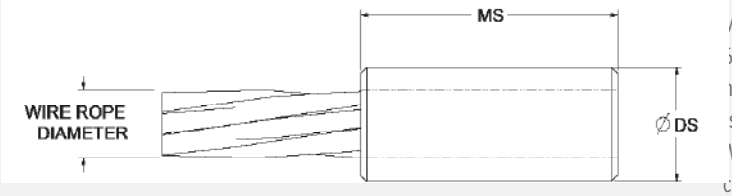
* Call for specifications on larger sizes and metric sizes

Part Number*	Wire Rope Diameter	Thread Size (T)		B
		NC	NF	
MWSA156-16	1/2"	7/8-9	7/8-14	2-1/4
MWSA156-18	9/16"	1-8	1-14	2-1/2
MWSA156-20	5/8"	1-1/8-7		3
MWSA156-24	3/4"	1-3/8-6		3-1/4
MWSA156-28	7/8"	1-1/2-6		3-1/2
MWSA156-32	1"	1-3/4-5		4-3/8
MWSA156-36	1-1/8	2-4-1/2		4-3/4
MWSA156-40	1-1/4	2-1/4-4-1/2		5-1/8
MWSA156-44	1-3/8	2-1/2-4		5-1/2

* Call for specifications on larger sizes and metric sizes

CAUTION: It is recommended that the assembly with the swaged wire rope termination be proof loaded to prove the adequacy of the assembly.

⚠ Prop 65 – See Page 112



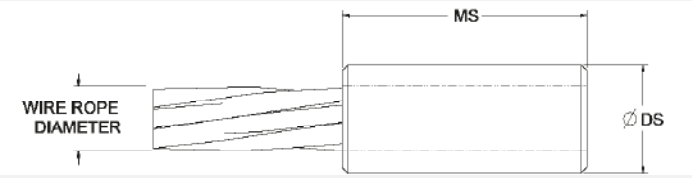
Mild carbon or stainless steel. Recommended for use on 6X19, 6X37 or 7X19 IWRC wire rope constructions only. Not intended to hold the breaking strength of the wire rope - a destructive test is recommended before use. Ends chamfered to help assembly. WHEN ORDERING: replace '-X' in part number with "M" for mild carbon steel or "S" for stainless steel material.

Prop 65 – See Page 112

Part Number*	Wire Rope Diameter	DS After Swage Dim Min	DS After Swage Dim	DS After Swage Dim Max	MS (approx)	Weight Each
WR-10400-X	1/4"	0.49	0.50	0.51	1.03	0.04
WR-10401-X	1/4"	0.49	0.50	0.51	1.125	0.06
WR-10402-X	1/4"	0.49	0.50	0.51	1.25	0.04
WR-10403-X	1/4"	0.49	0.50	0.51	1.50	0.06
WR-10404-X	1/4"	0.615	0.625	0.635	0.875	0.07
WR-10405-X	1/4"	0.615	0.625	0.635	1.25	0.10
WR-10406-X	1/4"	0.615	0.625	0.635	1.50	0.12
WR-10407-X	1/4"	0.74	0.75	0.77	1.125	0.13
WR-10408-X	1/4"	0.74	0.75	0.77	1.25	0.15
WR-10409-X	1/4"	0.74	0.75	0.77	1.50	0.18
WR-10410-X	1/4"	0.855	0.875	0.895	1.00	0.17
WR-10411-X	1/4"	0.855	0.875	0.895	1.125	0.19
WR-10412-X	1/4"	0.855	0.875	0.895	1.25	0.21
WR-10413-X	1/4"	0.855	0.875	0.895	1.50	0.26
WR-10414-X	1/4"	0.98	1.00	1.02	1.125	0.26
WR-10415-X	1/4"	0.98	1.00	1.02	1.25	0.28
WR-10416-X	1/4"	0.98	1.00	1.02	1.50	0.32
WR-10417-X	1/4"	1.23	1.25	1.29	1.75	0.64
WR-10418-X	5/16"	0.615	0.625	0.635	1.25	0.08
WR-10419-X	5/16"	0.74	0.75	0.77	1.25	0.13
WR-10420-X	5/16"	0.855	0.875	0.895	0.875	0.14
WR-10421-X	5/16"	0.855	0.875	0.895	1.00	0.16
WR-10422-X	5/16"	0.855	0.875	0.895	1.25	0.20
WR-10423-X	5/16"	0.855	0.875	0.895	1.50	0.25
WR-10424-X	5/16"	0.855	0.875	0.895	2.00	0.33
WR-10425-X	5/16"	0.98	1.00	1.02	1.50	0.32
WR-10426-X	3/8"	0.74	0.75	0.77	1.50	0.15
WR-10427-X	3/8"	0.855	0.875	0.895	1.50	0.23
WR-10428-X	3/8"	0.98	1.00	1.02	1.00	0.30
WR-10429-X	3/8"	0.98	1.00	1.02	1.50	0.32
WR-10430-X	3/8"	0.98	1.00	1.02	1.75	0.36
WR-10431-X	3/8"	0.98	1.00	1.02	2.00	0.41
WR-10432-X	3/8"	1.23	1.25	1.27	2.00	0.69
WR-10433-X	7/16"	0.855	0.875	0.895	1.875	0.24
WR-10434-X	7/16"	0.855	0.875	0.895	1.625	0.23
WR-10435-X	7/16"	0.98	1.00	1.03	1.375	0.27
WR-10436-X	7/16"	0.98	1.00	1.03	1.50	0.32
WR-10437-X	7/16"	1.105	1.125	1.145	1.75	0.34

*** Call for specifications on different sizes or material**

CAUTION: It is recommended that the assembly with the swaged wire rope termination be proof loaded to prove the adequacy of the assembly.



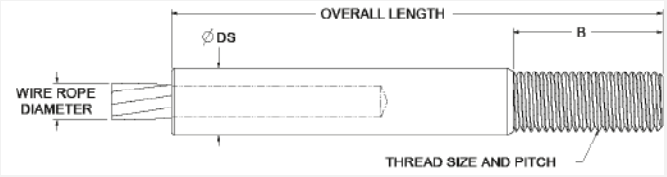
Mild carbon or stainless steel. Recommended for use on 6X19, 6X37 or 7X19 IWRC wire rope constructions only. Not intended to hold the breaking strength of the wire rope - a destructive test is recommended before use. Ends chamfered to help assembly. WHEN ORDERING: replace '-X' in part number with "M" for mild carbon steel or "S" for stainless steel material.

Prop 65 – See Page 112

Part Number*	Wire Rope Diameter	DS After Swage Dim Min	DS After Swage Dim	DS After Swage Dim Max	MS (approx)	Weight Each
WR-10438-X	1/2"	0.98	1.00	1.03	2.00	0.34
WR-10439-X	1/2"	0.98	1.00	1.02	1.75	0.33
WR-10440-X	1/2"	1.105	1.125	1.16	2.00	0.50
WR-10441-X	1/2"	1.23	1.25	1.27	1.25	0.40
WR-10442-X	1/2"	1.23	1.25	1.27	1.75	0.57
WR-10443-X	1/2"	1.105	1.125	1.16	2.19	0.59
WR-10444-X	1/2"	1.105	1.125	1.16	2.375	0.59
WR-10445-X	9/16"	1.04	1.063	1.09	2.438	0.52
WR-10446-X	9/16"	1.105	1.125	1.16	1.50	0.34
WR-10447-X	9/16"	1.23	1.25	1.29	2.438	0.74
WR-10448-X	9/16"	1.23	1.25	1.29	2.625	0.80
WR-10449-X	5/8"	1.23	1.25	1.29	2.75	0.79
WR-10450-X	5/8"	1.355	1.375	1.42	2.50	0.93
WR-10451-X	5/8"	1.355	1.375	1.42	2.875	1.06
WR-10452-X	3/4"	1.48	1.50	1.55	3.25	1.35
WR-10453-X	3/4"	1.48	1.50	1.55	2.00	0.93
WR-10454-X	3/4"	1.48	1.50	1.55	3.50	1.46
WR-10455-X	7/8"	1.73	1.75	1.80	3.875	2.18
WR-10456-X	7/8"	1.73	1.75	1.80	2.50	1.50
WR-10457-X	7/8"	1.73	1.75	1.80	2.79	1.61
WR-10458-X	7/8"	1.73	1.75	1.80	3.00	1.74
WR-10459-X	7/8"	1.73	1.75	1.80	4.125	2.32
WR-10460-X	1"	1.98	2.00	2.05	4.36	3.23
WR-10461-X	1"	1.98	2.00	2.05	4.75	3.53
WR-10462-X	1-1/8"	2.22	2.25	2.30	5.00	4.60
WR-10463-X	1-1/8"	2.22	2.25	2.30	4.81	4.60
WR-10464-X	1-1/8"	2.22	2.25	2.30	5.25	5.00
WR-10465-X	1-1/4"	2.47	2.50	2.56	5.50	6.27
WR-10466-X	1-1/4"	2.47	2.50	2.56	5.875	6.79
WR-10467-X	1-3/8"	2.72	2.75	2.81	6.00	8.46
WR-10468-X	1-3/8"	2.72	2.75	2.81	6.50	9.24
WR-10469-X	1-1/2"	2.97	3.00	3.06	6.50	10.98
WR-10470-X	1-1/2"	2.97	3.00	3.06	7.125	11.97

*** Call for specifications on different sizes or material**

CAUTION: It is recommended that the assembly with the swaged wire rope termination be proof loaded to prove the adequacy of the assembly.



Mild carbon steel, stainless, NC or NF thread pitch, right hand threads or left hand threads available - specify when ordering. See ordering note below. Wrench grips available upon request - supplied without wrench grips unless requested.

⚠ Prop 65 – See Page 112

Part Number*	Wire Rope Diameter	DS After Swage Dim Min	DS After Swage Dim	DS After Swage Dim Max	Overall Length (approx)	B	NC Thread Pitch	NF Thread Pitch	Weight Each
WR-10471	1/4"	0.553	0.563	0.573	4.72	1.50	9/16-12	9/16-18	0.28
WR-10472	1/4"	0.49	0.50	0.51	4.72	1.50	1/2-13	1/2-20	0.21
WR-10473	1/4"	0.43	0.438	0.46	4.06	1.50	1/2-13	1/2-20	0.16
WR-10474	1/4"	0.43	0.438	0.46	5.06	2.50	1/2-13	1/2-20	0.20
WR-10475	5/16"	0.615	0.625	0.65	5.72	1.75	5/8-11	5/8-18	0.41
WR-10476	5/16"	0.615	0.625	0.65	8.97	5.00	5/8-11	5/8-18	0.64
WR-10477	5/16"	0.553	0.563	0.585	5.06	1.87	5/8-11	5/8-18	0.33
WR-10478	3/8"	0.74	0.75	0.78	6.75	2.00	3/4-10	3/4-16	0.72
WR-10479	3/8"	0.74	0.75	0.78	9.75	5.00	3/4-10	3/4-16	1.05
WR-10480	3/8"	0.615	0.625	0.65	6.25	2.25	3/4-10	3/4-16	0.58
WR-10481	7/16"	0.865	0.875	0.91	7.66	2.25	7/8-9	7/8-14	1.13
WR-10482	7/16"	0.74	0.75	0.78	7.31	2.62	7/8-9	7/-14	0.90
WR-10483	1/2"	0.99	1.00	1.03	8.56	2.50	1-8	1-12	1.64
WR-10484	1/2"	0.99	1.00	1.03	12.06	6.00	1-8	1-12	2.4
WR-10485	1/2"	0.865	0.875	0.91	8.25	3.00	1-8	1-12	1.36
WR-10486	1/2"	0.74	0.75	0.78	6.625	2.25	7/8-9	7/8-14	1.00
WR-10487	9/16"	1.115	1.125	1.16	9.625	2.75	1-1/8-7	1-1/8-12	2.33
WR-10488	9/16"	0.99	1.00	1.03	9.25	3.375	1-1/8-7	1-1/8-12	1.93
WR-10489	5/8"	1.24	1.25	1.28	10.66	3.125	1-1/4-7	1-1/4-12	3.23
WR-10490	5/8"	1.115	1.125	1.16	10.125	3.75	1-1/4-7	1-1/4-12	2.66
WR-10491	3/4"	1.49	1.50	1.55	12.69	3.75	1-1/2-6	1-1/2-12	5.51
WR-10492	3/4"	1.365	1.375	1.42	12.81	4.50	1-1/2-6	1-1/2-12	4.56
WR-10493	7/8"	1.74	1.75	1.80	14.625	4.375	1-3/4-5	1-3/4-12	8.58
WR-10494	7/8"	1.49	1.50	1.55	14.56	5.25	1-3/4-5	1-3/4-12	7.14
WR-10495	1"	1.99	2.00	2.05	16.66	5.00	2"-4.5	2"-12	12.60
WR-10496	1"	1.74	1.75	1.80	16.25	6.00	2"-4.5	2"-12	10.66
WR-10497	1-1/8"	2.24	2.25	2.30	18.625	5.625	2-1/4-4.5	2-1/4-12	18.00
WR-10498	1-1/8"	1.99	2.00	2.05	18.25	6.75	2-1/4-4.5	2-1/4-12	15.63
WR-10499	1-1/4"	2.49	2.50	2.56	20.66	6.25	2-1/2-4	2-1/2-12	24.69
WR-10500	1-1/4"	2.24	2.25	2.30	20.25	7.50	2-1/2-4	2-1/2-12	21.00
WR-10501	1-3/8"	2.74	2.75	2.81	22.53	6.875	2-3/4-4	2-3/4-12	33.06
WR-10502	1-3/8"	2.365	2.375	2.41	22.875	8.25	2-3/4-4	2-3/4-12	30.50
WR-10503	1-1/2"	2.99	3.00	3.06	24.25	7.50	3"-4	3"-12	49.30
WR-10504	1-1/2"	2.74	2.75	2.81	24.75	9.00	3"-4	3"-12	41.10

*** Call for specifications on different sizes or material**

When ordering, please specify as follows: **PartNumber - A - B - C - D**

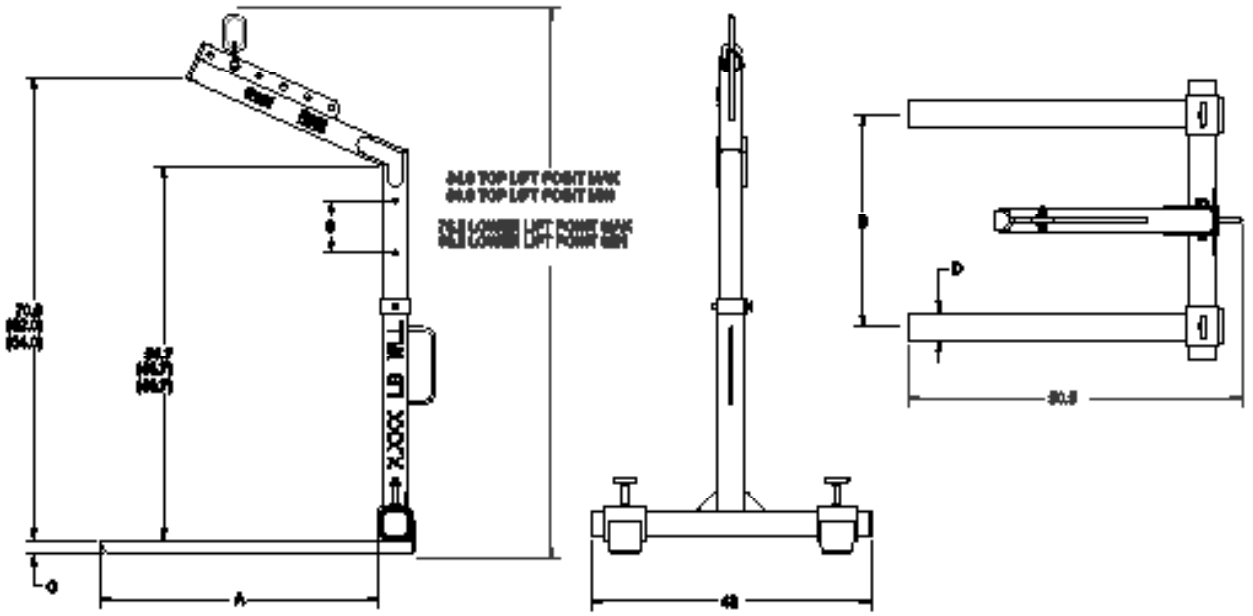
For **field A**, please specify "M" for mild carbon steel or "S" for stainless steel. For **field B**, please specify "C" for coarse thread or "F" for fine thread. For **field C**, please specify "R" for right hand thread or "L" for left hand thread. For **field D**, please indicate "W" for wrench flats or leave blank for none. For example, **WR-10471-M-C-R** would be a threaded stud end for 1/4" wire rope made out of mild carbon steel with coarse right-hand threads and no wrench flats.

CAUTION: It is recommended that the assembly with the swaged wire rope termination be proof loaded to prove the adequacy of the assembly.

PALLET LIFTER WITH ADJUSTABLE LIFTING BASE AND ADJUSTABLE LIFT BALE

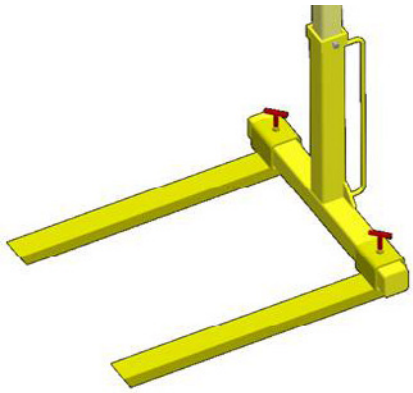
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** material handling equipment proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- Custom designs available - call for engineering.

⚠ Prop 65 – See Page 112



Working Load Limit in Pounds*	Part Number	A	B	C	D	Weight in Pounds
4,000	**12412**	42	17 to 36	2	4	400

*** Call for specifications on larger sizes and capacities**



**** FOR A LEVEL LIFT, THE CENTER LIFTING BAIL MUST BE OVER THE LOADS CENTER OF GRAVITY**

Converts crane or hoist into aerial forklift.
Fork Length : 42"
Adjustable Fork Spacing : 17 - 36"

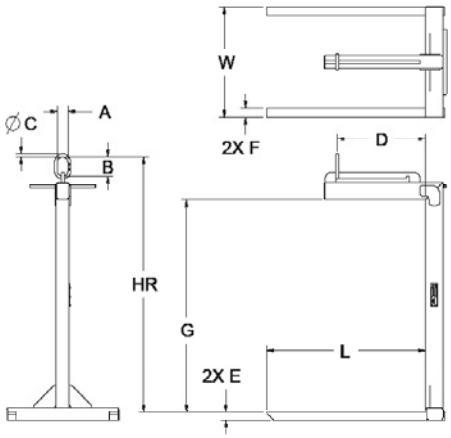
PALLET LIFTERS

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** material handling equipment proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- Custom designs available - call for engineering.

⚠ Prop 65 – See Page 112

Working Load Limit in Pounds*	Part Number	Weight in Pounds	HR	A	B	C	D	E	F	G	L	W
2,000	**14511**	190	57.8	2.36	4.33	0.63	24	2	2	48	36	25
4,000	**14512**	335	58.8	2.36	4.33	0.63	24	2	4	48	36	25
6,000	**14513**	460	62.8	3.94	7.09	1.03	24	2.5	4.5	48	36	27
8,000	**16664**	660	65.0	3.94	7.09	1.03	24	3	5	48	36	27

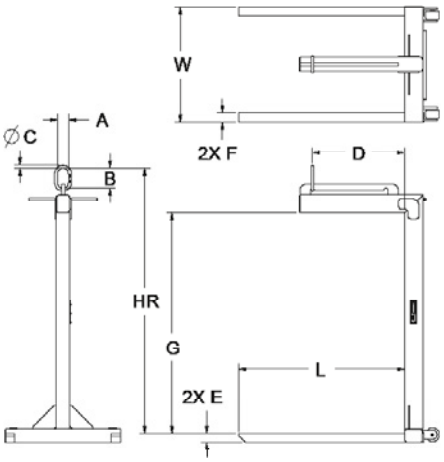
*** Call for specifications on larger sizes and capacities**



Converts crane or hoist into aerial forklift.

**** FOR A LEVEL LIFT, THE CENTER LIFTING BAIL MUST BE OVER THE LOADS CENTER OF GRAVITY**

Converts crane or hoist into aerial forklift.



Working Load Limit in Pounds*	Part Number	Weight in Pounds	HR	A	B	C	D	E	F	G	L	W
2,000	**14538**	190	57.8	2.36	4.33	0.63	24	2	2	48	36	25
4,000	**14537**	335	58.8	2.36	4.33	0.63	24	2	4	48	36	25

*** Call for specifications on larger sizes and capacities**

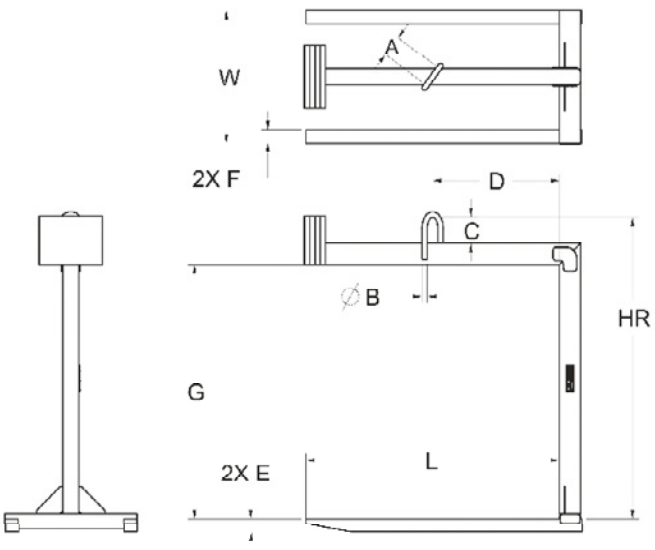
PALLET LIFTERS

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** material handling equipment proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- Custom designs available - call for engineering.

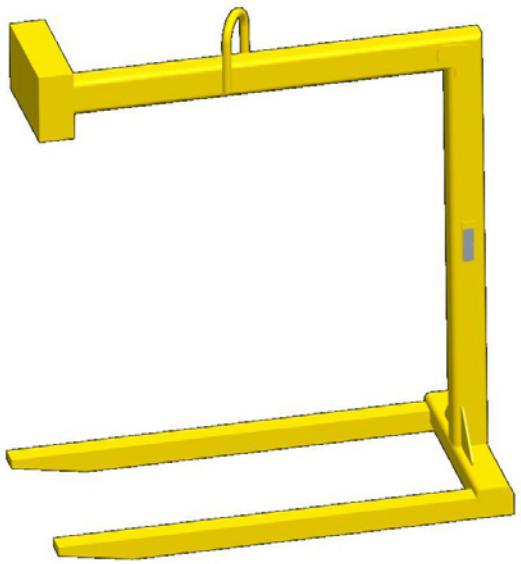
⚠ Prop 65 – See Page 112

Working Load Limit in Pounds*	Part Number	Weight in Pounds	HR	A	B	C	D	E	F	G	L	W
2,000	**14631**	190	57	4	5	1	24	2.5	2.5	48	48	25
4,000	**14630**	760	59	4	5	1	24	2.5	4	48	48	25
6,000	**14629**	965	62	4	7	1.5	24	3	5	48	48	27

*** Call for specifications on larger sizes and capacities**



- Converts crane or hoist into aerial forklift.
- Counter balance allows lifter to hang level when empty.



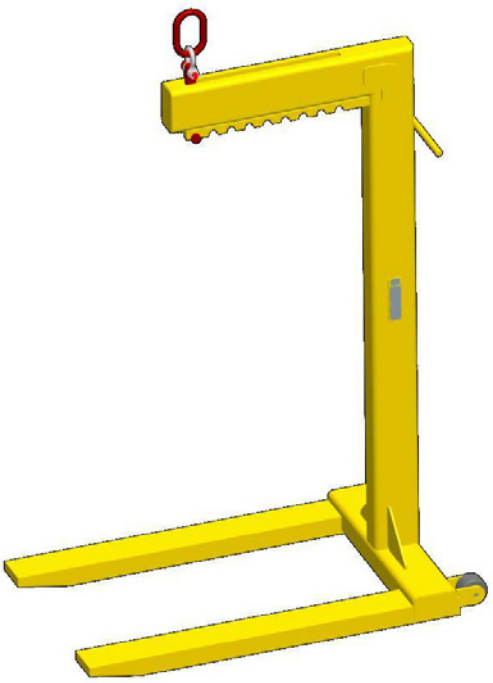
**** FOR A LEVEL LIFT, THE CENTER LIFTING BAIL MUST BE OVER THE LOADS CENTER OF GRAVITY**

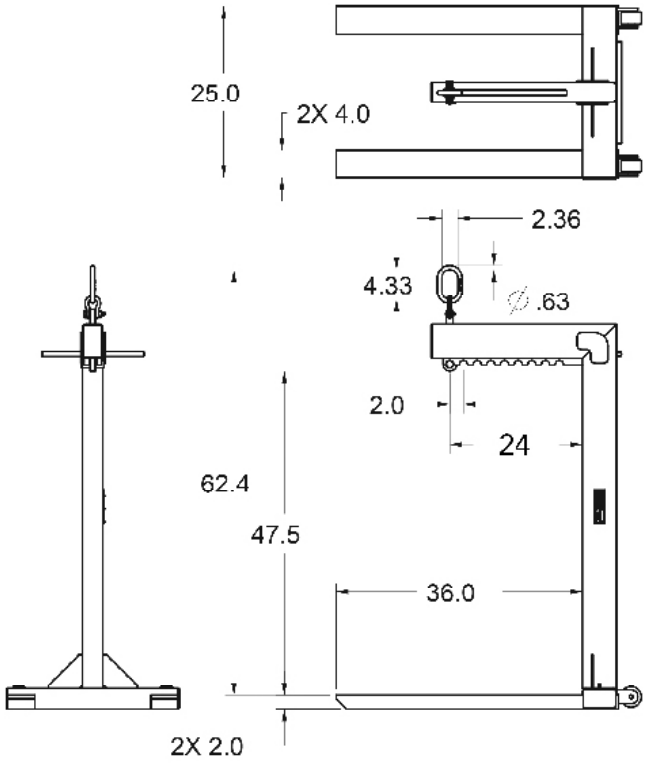
*** Call for specifications on larger sizes and capacities**

ADJUSTABLE WHEELED PALLET LIFTERS

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** material handling equipment proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- Custom designs available - call for engineering.

⚠ Prop 65 – See Page 112





Working Load Limit in Pounds*	Part Number	Weight in Pounds
4,000	**14998**	330

*** Call for specifications on larger sizes and capacities**

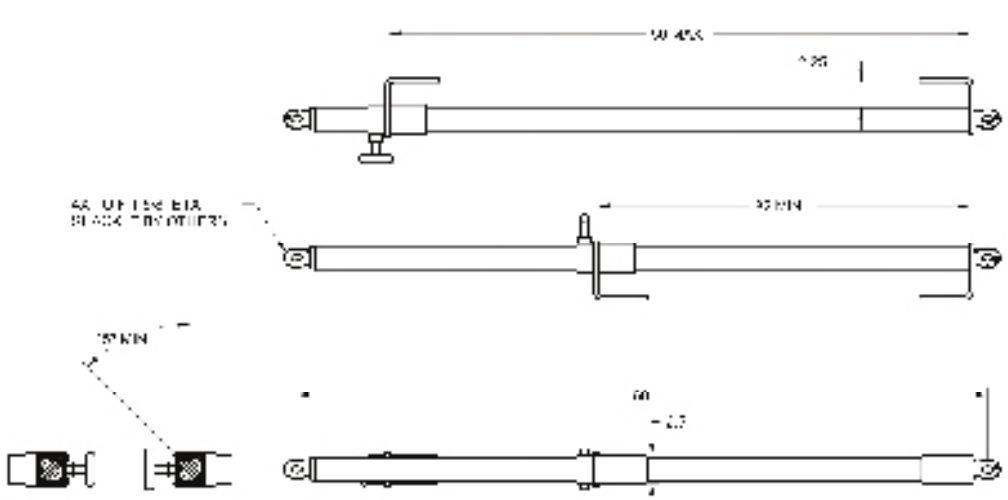
- Converts crane or hoist into aerial forklift.
- Multiple Lift Bale adjustments.

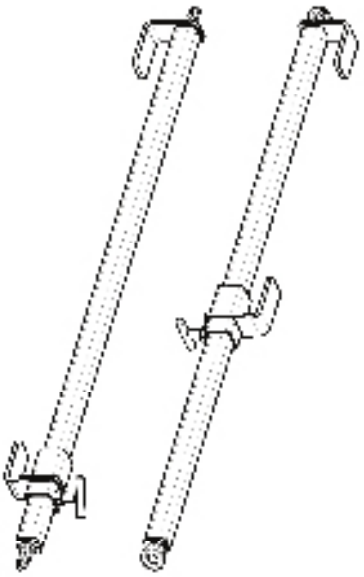
**** FOR A LEVEL LIFT, THE CENTER LIFTING BAIL MUST BE OVER THE LOADS CENTER OF GRAVITY**

PALLET LIFTING BARS - SOLD IN PAIRS

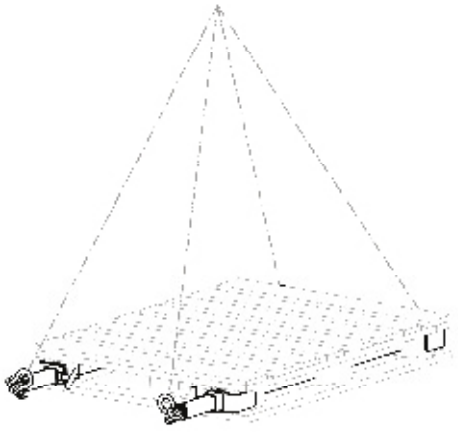
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** material handling equipment proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- Converts crane or hoist into aerial forklift.

Prop 65 – See Page 112





CONVERTS CRANE OR HOIST INTO AERIAL FORKLIFT.



70 LBS SET OR 35 LBS EACH BAR

** FOR A LEVEL LIFT, THE CENTER LIFTING BAIL MUST BE OVER THE LOADS CENTER OF GRAVITY

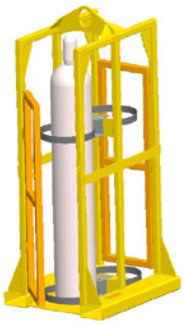
Part Number	Working Load Limit	Weight (set)
17449	4,000	70

BOTTLE LIFTERS

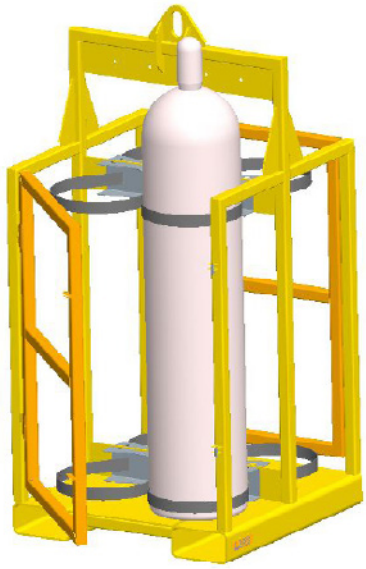
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** Bottle Lifters proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A..
- Custom designs available - call for engineering.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.

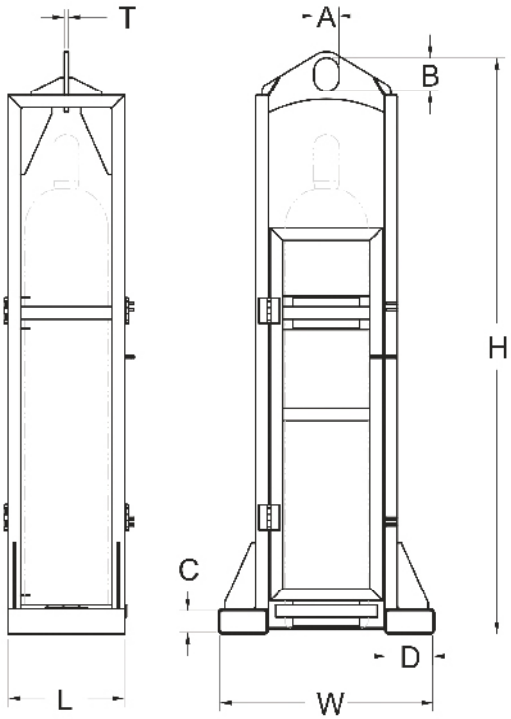
Prop 65 – See Page 112

UPDATED PRODUCT



- Adjustable straps to hold tanks
- Lockable doors
- Max bottle diameter = 10"
- Max bottle height = 60"





Part No.	Working Load Limit	Tank Capacity	A	B	C	D	T	L	W	H	WEIGHT
20199	500	1	3	4	2.62	5.62	0.5	14	26	70	150
16307	750	2	3	4	3	6	0.5	29.5	26	64.5	300
17324	1500	4	15	325	5	9	0.5	31	30.5	65	525

*** Call for specifications on larger sizes and capacities**

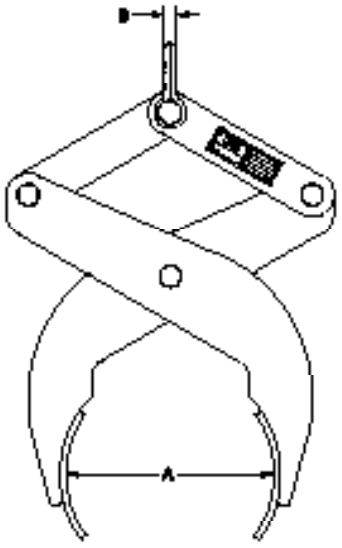
BAR TONG LIFTER

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- **ALL** material handling equipment shipped with proof load certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- Ideal for moving round bars and pipe.

Prop 65 – See Page 112

Working Load Limit in Pounds*	Part Number	A	B	C	D	Weight
1,000	**11855**	0 - 4"	6.00	1.69	0.63	12
2,000	**16890**	7 - 12"	6.00	2.00	0.75	55
4,000	**11902**	4 - 7.5"	6.00	2.00	0.75	41

*** Call for specifications on larger sizes and capacities**



PADDED PIPE LIFTING CLAMPS

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** Lifters proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.

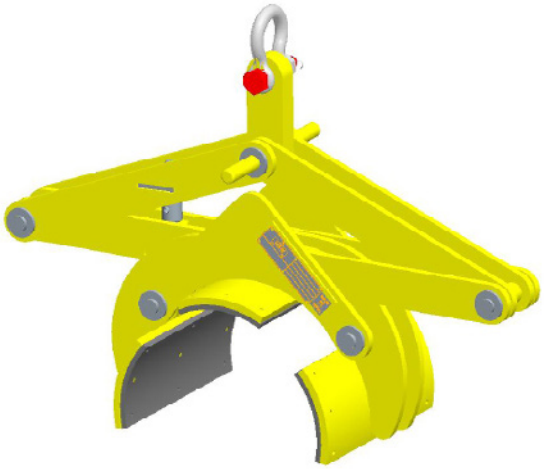
Prop 65 – See Page 112

UPDATED PRODUCT

Working Load Limit in Pounds*	Part Number	Weight	Pipe Dia Min	Pipe Dia Max	Max Grip Opening	Replacement pad set Part Number
1,200	**20053****	26	3.5"	5.5"	6.4"	**20053-17**
2,000	**19911**	82	5.5"	8.8"	10.3"	**19911-17**
4,500	**20054**	253	8.8"	14"	16.4"	**20054-17**
10,000	**20055**	550	14"	22"	25.5"	**20055-17**

*** Call for specifications on larger sizes and capacities**

**** Not supplied with indexing latch mechanism**

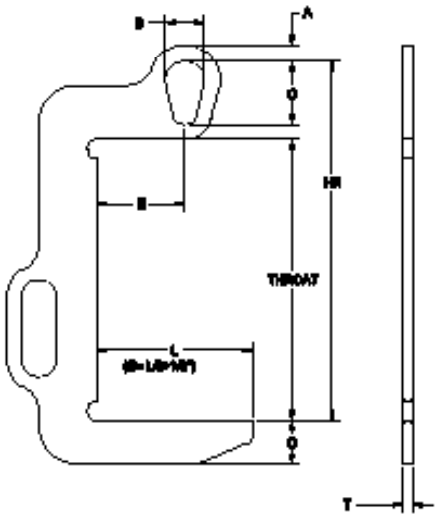


- Heavy-duty design to hold up to outdoor environments.
- Rugged gripping pads conform to load.
- Eliminates the need for rigging when handling large pipe.
- To be used only for vertical lifting.
- Large lifting shackle accommodates crane hooks or supplementary rigging.
- Can be used in pairs to handle longer pipes with lifting beam or spreader beam.
- Replacement pad set installs easily and quickly.
- Indexing latch mechanism allows lifter to be held open.

COIL LIFTERS

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** Coil Lifters proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to warehouse use.
- Made in U.S.A.
- Custom designs available - call for engineering.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.

Prop 65 – See Page 112



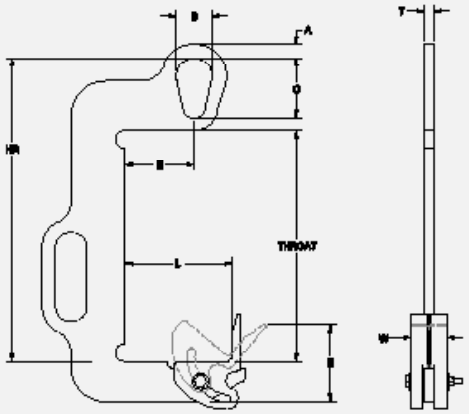
Working Load Limit in Pounds*	Part Number	Throat	HR	A	B	C	D	E	L	T	Weight in Pounds
1,000	**14463**	14.5	18.5	0.81	2.00	3.25	2.25	4.5	8.0	0.50	14
1,000	**14464**	14.5	18.5	0.81	2.00	3.25	2.63	6.5	12.0	0.50	15
2,000	**14465**	17.5	21.5	0.81	2.00	3.25	2.00	4.5	8.0	0.50	14
2,000	**14466**	17.5	21.5	0.81	2.00	3.25	2.50	8.5	16.0	0.50	19
4,000	**14467**	19.5	24.6	1.00	2.56	4.06	2.13	4.5	8.0	0.75	27
4,000	**14468**	19.5	24.6	1.00	2.56	4.06	3.00	8.5	16.0	0.75	35
7,000	**14469**	21.5	28.2	1.18	3.63	5.31	2.87	6.5	12.0	1.00	52
7,000	**14470**	21.5	28.2	1.18	3.63	5.31	3.38	8.5	16.0	1.00	59
10,000	**14471**	25.5	32.9	1.50	4.00	5.81	3.50	8.5	16.0	1.25	87
10,000	**14472**	25.5	32.9	1.50	4.00	5.81	4.00	10.5	20.0	1.25	101

*** Call for specifications on larger sizes and capacities**

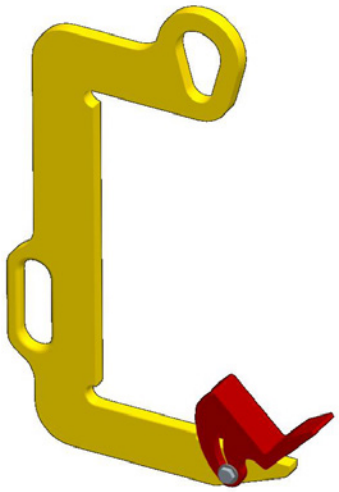
COIL LIFTER/UPENDER

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** Coil Lifters proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to warehouse use.
- Made in U.S.A.
- Custom designs available - call for engineering.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.
- Easy horizontal to vertical upending of coils.

⚠ Prop 65 – See Page 112



UPENDING COIL



Working Load Limit in Pounds*	Part Number	Throat	HR	A	B	C	E	T	W	L	D	Weight in Pounds
1,000	**14480**	13.0	17.0	0.81	2.00	3.31	4.06	0.50	2.00	6.0	2.25	17
1,000	**14481**	13.0	17.0	0.81	2.00	3.31	4.56	0.50	2.00	12.0	2.75	23
2,000	**14482**	16.0	20.0	0.81	2.00	3.31	3.89	0.50	2.00	8.0	2.50	20
4,000	**14483**	18.0	23.1	1.00	2.63	4.00	5.05	0.75	2.00	10.0	2.75	33
7,000	**14484**	20.0	26.3	1.18	3.63	5.31	6.26	1.00	2.50	12.0	3.50	61

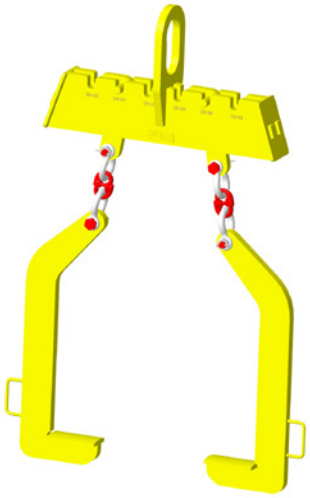
*** Call for specifications on larger sizes and capacities**

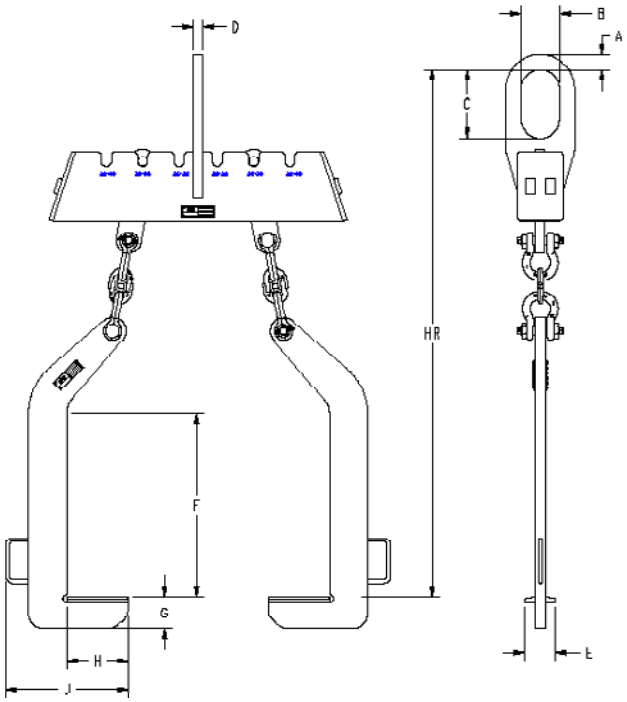
DUAL ARM COIL LIFTER

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** Coil Lifters proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.

⚠ Prop 65 – See Page 112

NEW PRODUCT





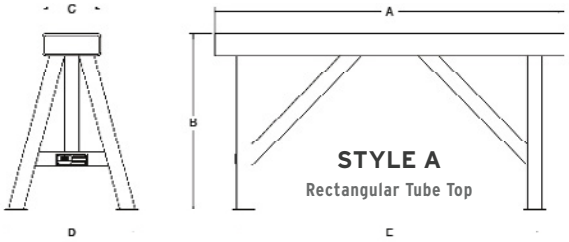
Part Number	Working Load Limit in Pounds*	Coil Range Beam Width Settings	Min / Max Coil Width	A	B	C	E	E	F	G	H	J	HR	Weight
24800	20,000	20"-28" 29"-38" 39"-48"	20"-48"	2	5	9	1.25	4	24	4.25	8	16	69	545
24892	30,000	20"-28" 29"-38" 39"-48"	20"-48"	2	5	9	1.25	4	28	4.5	8	16	73	555
24894	40,000	24"-32" 33"-42" 43"-52" 53"-60"	24"-60"	2.5	8	9	1.25	4	30	4.75	8	16	80	785

*** Call for specifications on larger sizes and capacities**

HEAVY-DUTY MATERIAL STANDS

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- Durable construction ideally suited to warehouse or manufacturing shop floor use.
- Made in U.S.A.
- Custom designs available - call for engineering.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.

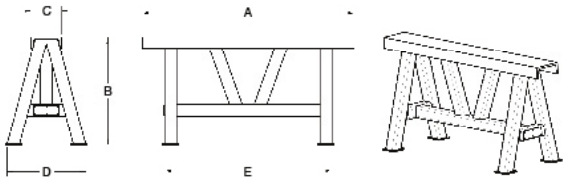
⚠ Prop 65 – See Page 112



STYLE A
Rectangular Tube Top

Working Load Limit in Pounds*	Part Number	A	B	C	D	E	Weight in Pounds
3,000	**13903**	42.0	28.0	12.0	20.0	36.0	140
5,000	**16527**	42.0	29.0	12.0	20.0	36.0	173
7,000	**13777**	47.5	24.0	8.0	18.2	41.5	125
10,000	**16528**	47.5	25.0	8.0	19.2	41.5	130

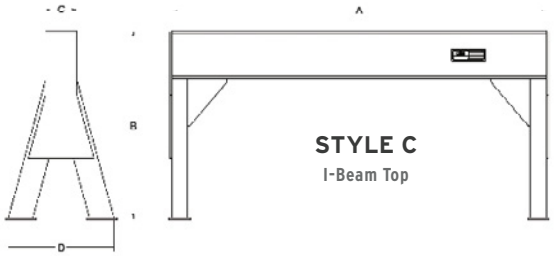
* Call for specifications on larger sizes and capacities



STYLE B
Channel Iron Top

Working Load Limit in Pounds*	Part Number	A	B	C	D	E	Weight in Pounds
2,000	**15262**	35.5	18.0	6.0	13.2	28.0	90
2,000	**15281**	35.5	32.0	6.0	20.7	28.0	120
5,000	**15307**	35.5	18.0	6.0	14.3	28.0	90
5,000	**15306**	35.5	32.0	6.0	21.5	28.0	120
7,000	**15309**	35.5	18.0	8.0	14.6	28.0	100
7,000	**15308**	35.5	32.0	8.0	22.1	28.0	135
10,000	**15327**	35.5	18.0	10.0	14.5	28.0	125
10,000	**15312**	35.5	32.0	10.0	22.0	28.0	160

* Call for specifications on larger sizes and capacities



STYLE C
I-Beam Top

Working Load Limit in Pounds*	Part Number	A	B	C	D	Weight in Pounds
5,000	**16533**	47.5	24.0	4.0	13.4	110
10,000	**16534**	47.5	24.0	6.0	13.3	145
15,000	**16535**	47.5	24.0	5.3	14.3	150
20,000	**16536**	47.5	24.0	6.5	14.4	195
30,000	**16537**	47.5	24.0	8.0	15.5	245

* Call for specifications on larger sizes and capacities

LOAD COLLAPSIBLE CASTERS

OPTIONS AVAILABLE CALL FOR PRICING

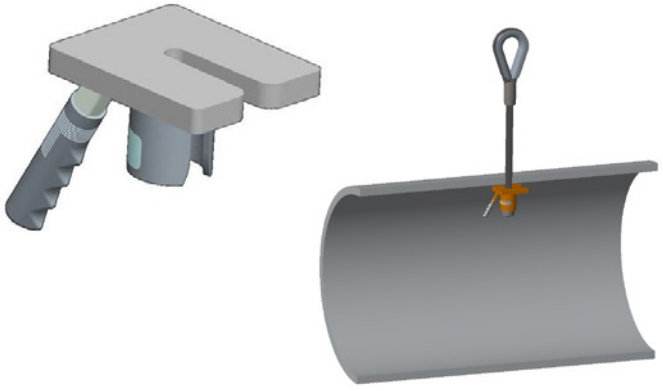
CONCRETE PIPE LIFTING

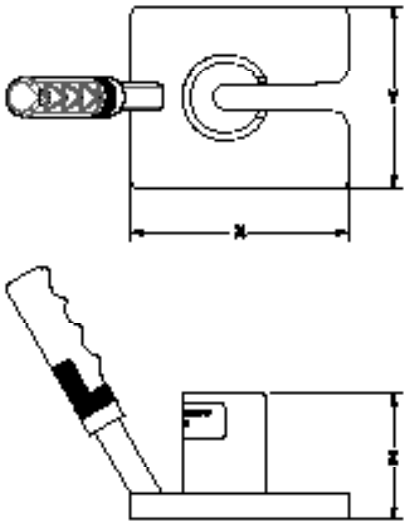
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Wire rope lifting sling available - call for quote.
- Wire rope ferrules available separately - order by part number and wire rope diameter.
- Durable construction ideally suited to jobsite use.
- Made in U.S.A.
- Efficient method for handling of water and sewer concrete pipes.

⚠ Prop 65 – See Page 112

Capacity in Pounds*	Teacup Part Number	Wire Rope Diameter	X	Y	Z	Color	Wire Rope Ferrule Part Number
4,400	**11575**	1/2"	5.00	6.00	3.50	Orange	**12370**
6,800	**11576**	5/8"	5.00	6.00	3.50	Gray	**12371**
9,800	**11577**	3/4"	5.00	6.00	3.50	Blue	**12372**
13,200	**11578**	7/8"	5.00	6.00	3.50	Black	**12373**
17,000	**11579**	1"	5.00	6.00	4.25	Red	**12374**
20,000	**11580**	1-1/8"	5.00	6.00	4.25	Green	**12375**
26,000	**11581**	1-1/4"	6.00	7.50	5.00	Yellow	**12376**
30,000	**11582**	1-3/8"	6.00	7.50	5.00	White	**12380**
36,000	**11583**	1-1/2"	6.00	7.50	5.50	Orange	**12381**
50,000	**11783**	1-3/4"	6.00	7.50	5.50	Brown	**12421**

*** Call for specifications on larger sizes and capacities**





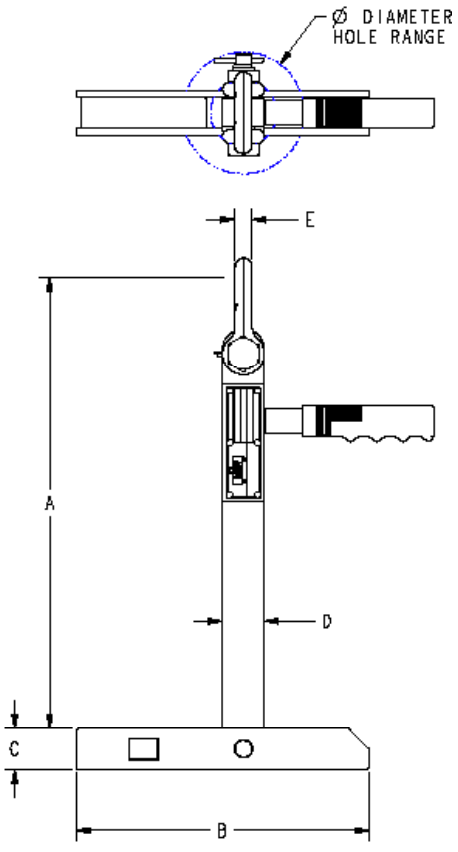
PIPE PICK

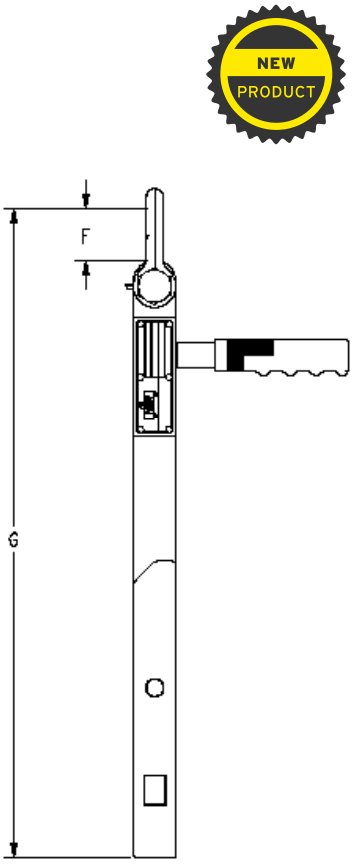
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Wire rope lifting sling available - call for quote.
- Wire rope ferrules available separately - order by part number and wire rope diameter.
- Durable construction ideally suited to jobsite use.
- Made in U.S.A.
- Efficient method for handling of water and sewer concrete pipes.

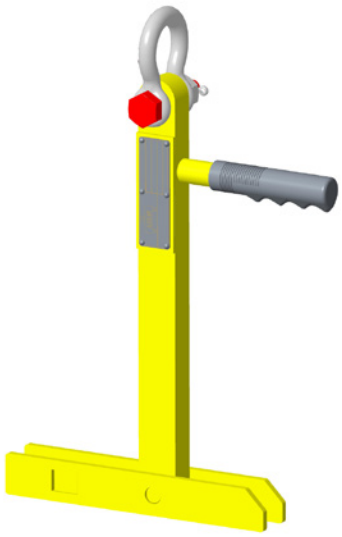
⚠ Prop 65 – See Page 112

Part Number	Working Load Limit in LBS	Min / Max Hole Dia	A	B	C	D	E	F	G	Weight
24993	3,000	2.37 - 4.37	16.25	10.5	1.5	1.5	0.62	1.8	23	17
24994	6,000	2.63 - 5	20	12	1.75	1.75	0.75	2.1	27.6	20
24995	10,000	3.25 - 5.5	25	13	2.25	2.25	1.0	2.8	32.4	33

*** Call for specifications on larger sizes and capacities**







PIPE LIFTING HOOKS - SOLD IN PAIRS

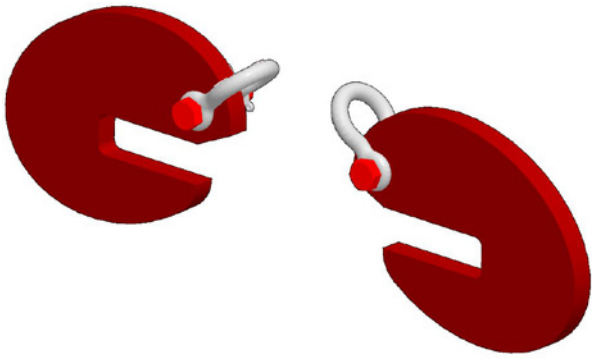
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety red for increased visibility.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- Custom designs available - call for engineering.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.

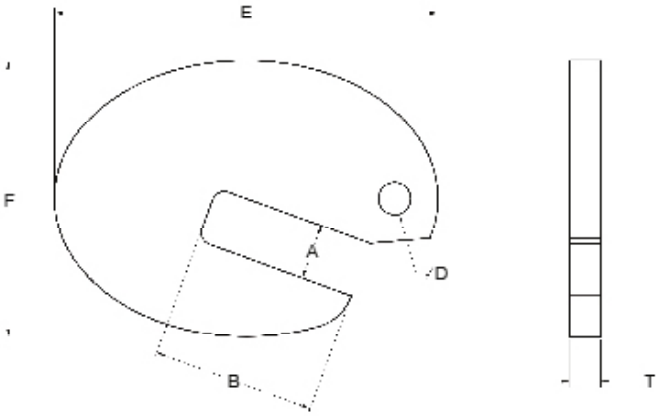
Prop 65 – See Page 112

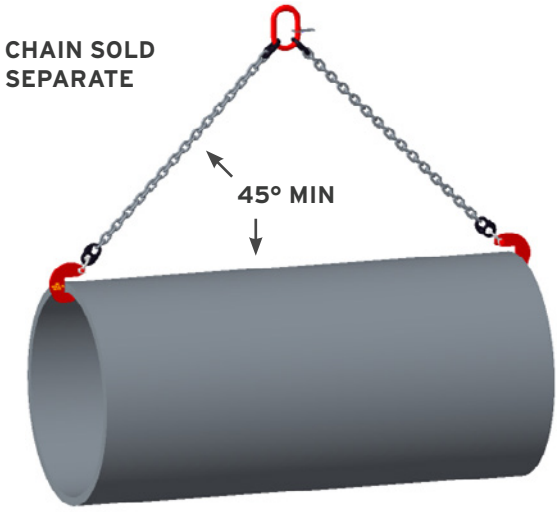
Working Load Limit in Pounds*	Part Number	A	B	C	D	T	E	F	Weight per Pair	Shackle Part Number
4,000	**11903**	1.13	3.30	0.63	0.65	5/8	7.75	5.60	12	1019472
8,000	**11904**	1.25	2.50	0.75	0.65	3/4	7.60	6.47	14	1019472
10,000	**16194**	3.38	3.00	1.00	0.81	1.0	8.28	8.72	28	1019490

*** Call for specifications on larger sizes and capacities**

- Working load limit capacity is PER PAIR.
- Supplied with Safety Shackle as per picture.
- Painted safety red for increased visibility.
- Designed to carry and lift steel and other types of pipe.







REEL LIFTING AND TURNING

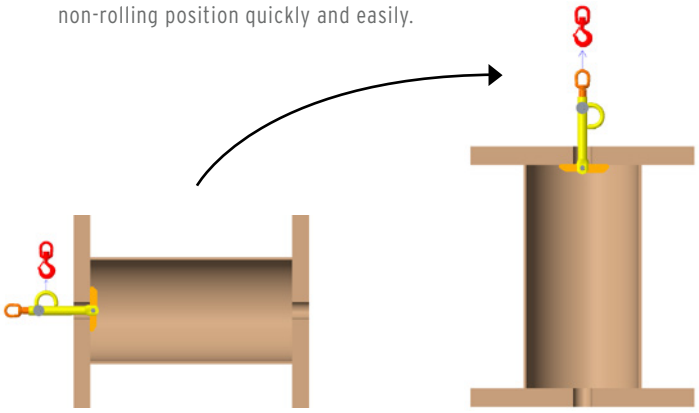
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- **ALL** material handling equipment proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- Machined to exacting tolerances.

⚠ Prop 65 – See Page 112

Working Load Limit in Pounds*	Part Number	A	B	C	D	Arbor Dia	Weight	
500	**19455**	0.75	1.05	n/a	1.00	1-1/4" - 2"	3	*
3,000	**12782**	1.50	2.00	2.75	1.66	2" - 4"	7	*
4,500	**24046**	2.00	2.63	2.75	2.38	3" - 6"	14	*

*** Call for specifications on larger sizes and capacities**

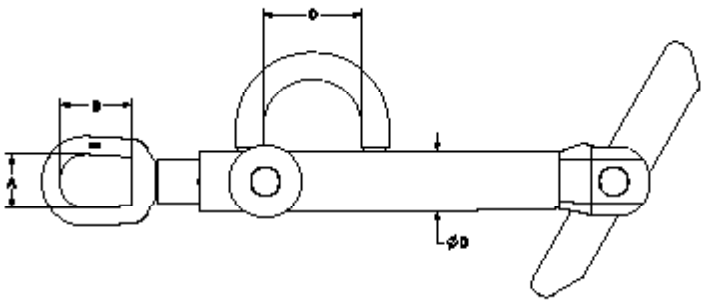
- Working Load Limit stamped on each lifter.
- Safely allows personnel to flip reels from rolling to non-rolling position quickly and easily.

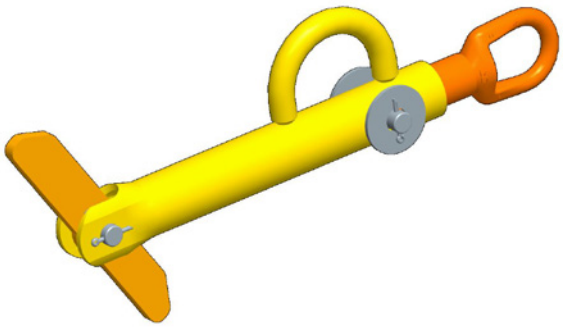


*** TIP UP REEL FROM A ROLLING POSITION TO AN UPRIGHT POSITION, PAY OUT REEL IN UPRIGHT POSITION**

PART NUMBER 12782 & 13037

PART NUMBER 19455 NOT FOR TIPPING UP REELS

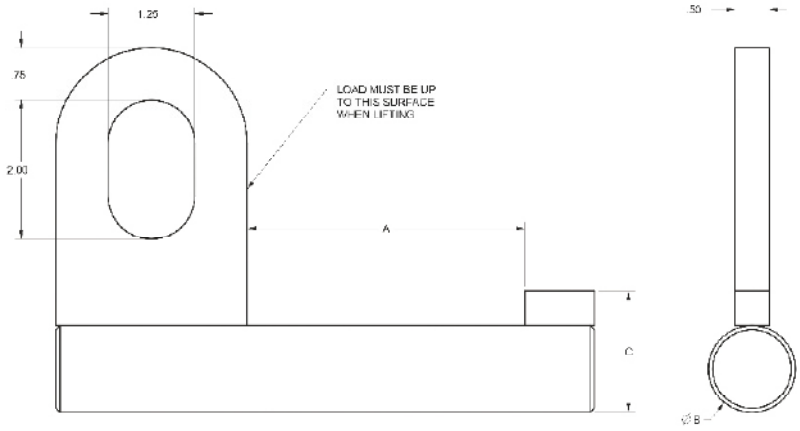


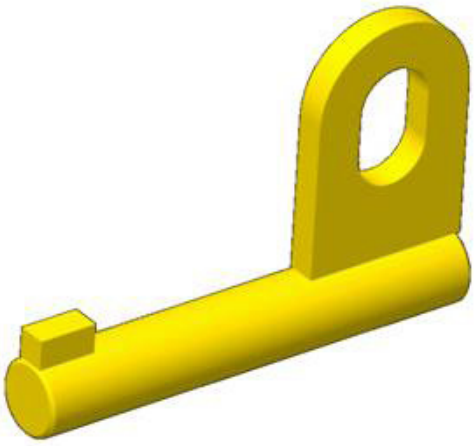


MANHOLE TOGGLE KEY

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- Machined to exacting tolerances.
- Custom designs available - call for engineering.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.

Prop 65 – See Page 112



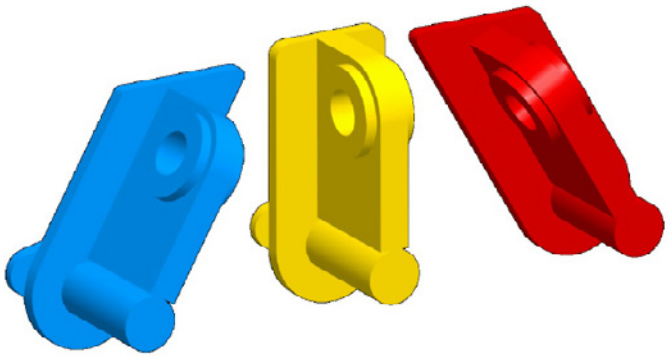


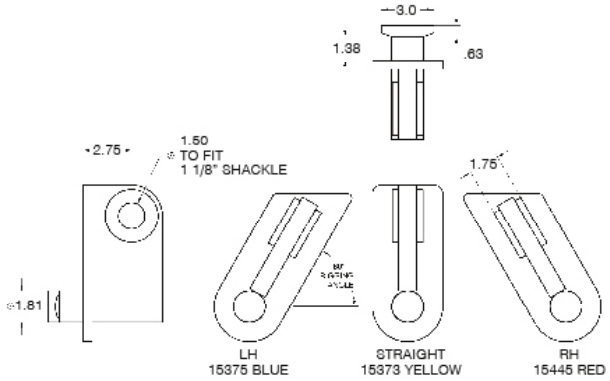
Working Load Limit in Pounds	Part Number	Weight	A	B	C
3,500	**12434**	3	4.0	1.25	1.75
3,200	**16300**	5	8.25	1.13	1.63
2,200	**17761**	6	11.0	1.25	1.38
3,400	**19123**	5	6.0	1.25	1.75

CONTAINER LIFTING LUGS

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Lifting Lugs proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Sold individually
- Made in U.S.A.
- Top of lug must be horizontal to show proper engagement for lifting.

⚠ Prop 65 – See Page 112

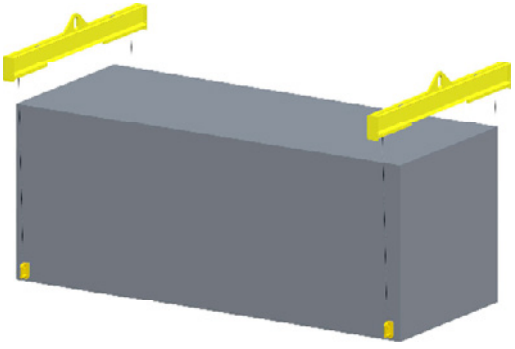




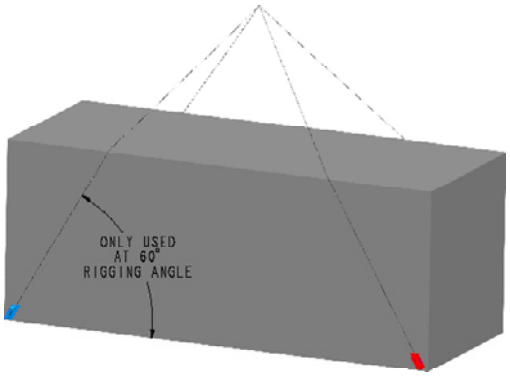
Working Load Limit in Pounds*	Part Number	Color	Style	Weight in Pounds
19,000	**15373**	Yellow	Straight	17
19,000	**15375**	Blue	Left	17
19,000	**15445**	Red	Right	17

NOTE: Typical container lift will require 2 left and 2 right lugs.
Or will require 4 straight lugs with appropriate spreader / lifting beam and rigging.

***NOT FOR PULLING**



Straight setup
Typically used with lift beam or spreader beam
Used only on lower corners of the long slides



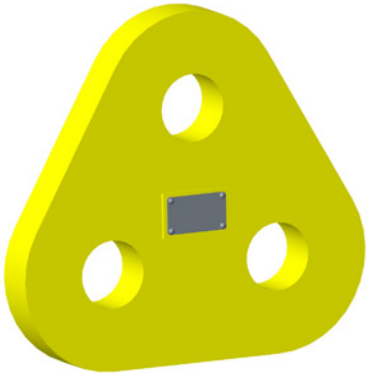
LH / RH setup
Used only on lower corners of the long sides

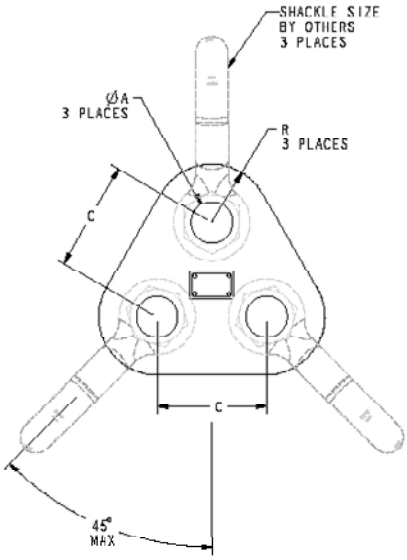
TRIANGLE RIGGING PLATE / EQUALIZER

- 5 to 1 Design
- Used to equalize loads over multiple rigging lines
- Helps reduce crane hook rigging overcrowding when multiple rigging lines are required
- Reduces the chance of over loading a rigging line.
- Designed to allow for better load distribution in multiple lines.

Prop 65 – See Page 112

NEW PRODUCT





Part Number	Working Load Limit in Pounds*	A	B	C	R	Y	Weight	Shackle Size	Max Rigging Angle
24783	37,400	2	1.25	4.75	2.5	9.11	20	1 1/2"	45°
24784	55,000	2.25	1.5	6	3.2	11.6	40	1 3/4"	45°
24785	77,000	2.38	2	6.38	3.5	12.52	70	2"	45°
24786	121,000	3	2.5	9.13	4.25	16.4	135	2 1/2"	45°

*Call for specifications on larger sizes and capacities.

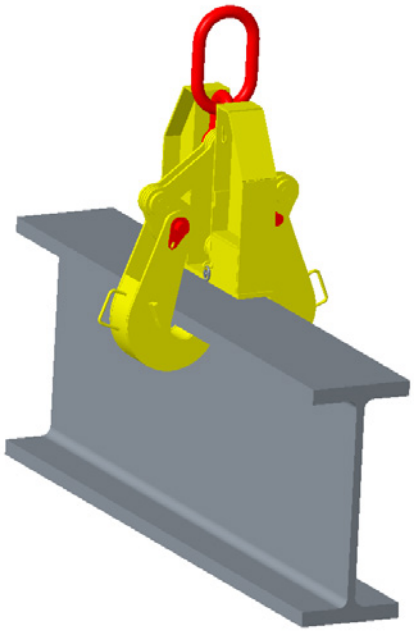
LARGE BEAM CLAMPS

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** Lifters proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.
- All dimensions in inches unless otherwise noted.

⚠ Prop 65 – See Page 112

Working Load Limit in Pounds*	Part Number	Weight	Flange Width Min	Flange Width Max	Flange Thickness Min	Flange Thickness Max
30,000	**20052**	180	7"	17"	1/2"	2"
50,000	**20051**	335	16"	24"	1"	3"
70,000	**19913**	600	16"	36"	1-5/8"	4"

*** Call for specifications on larger sizes and capacities**



- Heavy-duty design to hold up in outdoor environments.
- Eliminates the need for rigging when handling large beams.
- To be used only for vertical lifting only.
- Large lifting master link accommodates crane hooks.
- Can be used in pairs to handle longer beams using a lift beam or spreader beam.

SMALL FRAME BEAM CLAMPS

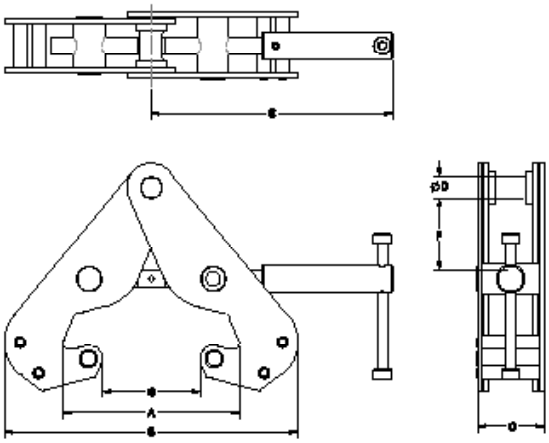
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- Do not side load above angles of 45° from vertical.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- Custom designs available - call for engineering.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.

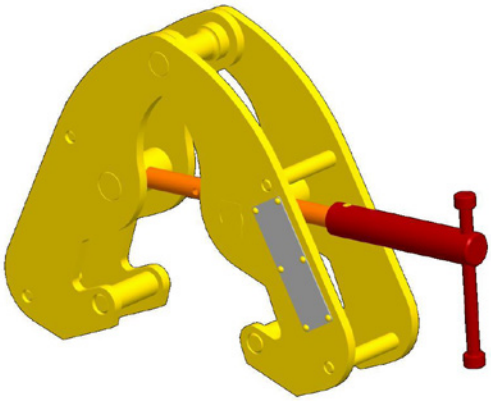
⚠ Prop 65 – See Page 112

- Refer to side loading table below for reduction factors for side loading applications.
- Clamps to be used for lifting, pulling or as an anchor point.
- Ratings apply to clamps only. User is responsible for engineering calculations for all support steelwork.

  WARNING: All clamps must be correctly applied to the beam by a competent person and fully hand tightened. If in doubt, contact M&W for recommendations.

Reduction in Working Load Limits when side loads are applied				
Angle from Vertical	0°	0 - 15°	15 - 30°	30 - 45°
Reduction factor	none	20%	35%	50%





Working Load Limit in Pounds*	Part Number	A	B	C	D	E	F	G	Weight	Maximum Flange Thickness	Minimum Flange Thickness	Maximum Flange Width	Minimum Flange Width	Maximum Slip Over Width
2,240	**13474**	10.94	14.59	2.41	0.80	8.75	1.35	8.33	8.3	1.21	0.81	9.50	3.20	8.85
2,240†	**13510**	15.74	20.52	2.94	0.80	10.63	1.65	13.42	13.8	1.45	0.75	13.50	3.75	11.50
4,480	**13486**	10.94	14.59	2.94	0.80	8.75	1.35	8.33	10.4	1.21	0.87	9.60	3.20	9.00
4,480†	**13553**	15.74	20.52	3.19	0.80	10.63	1.65	13.42	16.1	1.45	0.81	14.50	3.50	14.00
6,720	**13497**	15.11	19.53	3.94	1.05	10.13	2.41	12.51	21.4	1.63	1.13	14.00	5.00	13.25
11,200	**13648**	15.11	19.53	4.19	1.38	10.13	2.24	12.51	25.6	1.63	1.13	14.00	4.25	13.00

*Call for specifications on larger sizes and capacities. † Indicates beam clamp for use on wide flange beams.

LARGE FRAME BEAM CLAMPS

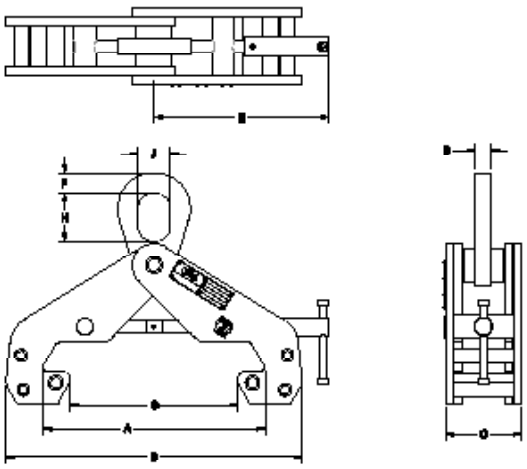
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- Do not side load above angles of 45° from vertical.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- Custom designs available - call for engineering.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.

Prop 65 – See Page 112

- Refer to side loading table below for reduction factors for side loading applications.
- Clamps to be used for lifting, pulling or as an anchor point.
- Ratings apply to clamps only. User is responsible for engineering calculations for all support steelwork.

  WARNING: All clamps must be correctly applied to the beam by a competent person and fully hand tightened. If in doubt, contact M&W for recommendations.

Reduction in Working Load Limits when side loads are applied				
Angle from Vertical	0°	0 - 15°	15 - 30°	30 - 45°
Reduction factor	none	20%	35%	50%



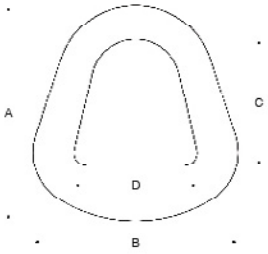
Working Load Limit in Pounds*	Part #	A	B	C	D	E	F	G	H	J	Weight	Maximum Flange Thickness	Maximum Flange Width	Minimum Flange Width	Maximum Slip Over Width
15,680	**13659**	16.02	20.92	4.72	1.00	10.88	1.25	12.94	3.00	1.75	34.1	1.25	13.75	4.50	13.38
22,400	**13674**	16.02	20.92	4.72	1.25	10.88	1.50	12.94	3.75	2.50	43.1	1.25	13.75	4.50	13.38

*Call for specifications on larger sizes and capacities.

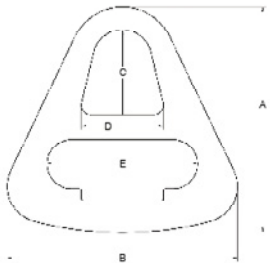
SYNTHETIC SLING TRIANGLES AND CHOKERS : ALUMINUM

- Aluminum Triangle and Choker fittings engineered to be used on single-ply capacity slings.
- Aluminum resists corrosion.
- Aluminum alloy designed for overhead lifting applications.
- 100% domestic parts and workmanship.
- Machined to exacting tolerances.

Prop 65 – See Page 112



SPECIFICATIONS FOR ALUMINUM TRIANGLES							
Part Number	Sling Width	Dimensions				Weight	Minimum Breaking Strength
		A	B	C	D		
11469	2	3.94	3.75	2.31	2.25	.4	16,800
11470	3	5.31	5.00	3.31	3.06	.6	25,000
11471	4	6.75	6.75	3.75	4.25	1.2	33,500
13263	5	8.00	8.13	4.75	5.25	1.5	40,000
11472	6	9.25	9.38	5.50	6.13	2.0	48,500



SPECIFICATIONS FOR ALUMINUM CHOKERS								
Model Number	Sling Width	Dimensions					Weight	Minimum Breaking Strength
		A	B	C	D	E		
11473	2	6.16	6.29	2.31	2.24	4.12	.9	16,800
11474	3	8.00	8.17	3.31	3.06	5.40	1.5	25,000
11475	4	9.40	10.67	3.75	4.25	7.10	2.4	33,500
13264	5	11.29	12.00	4.75	5.25	8.19	3.2	40,000
11476	6	13.25	14.48	5.50	6.13	9.75	8.5	48,500

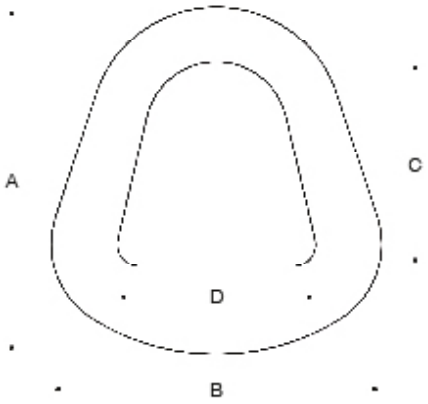
SYNTHETIC SLING TRIANGLES AND CHOKERS : STEEL

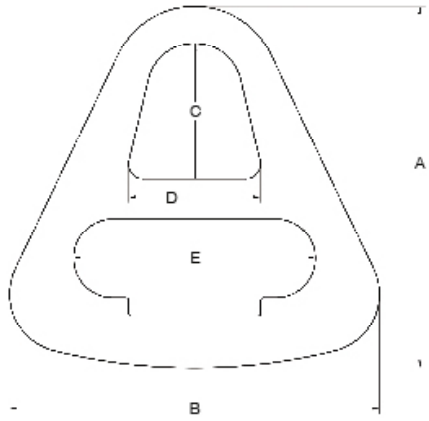
- Steel Triangle and Choker fittings engineered to be used on single-ply, two-ply, three-ply, and four-ply slings.
- Powder coat painted for resistance to corrosion.
- Alloy steel for overhead lifting applications.
- 100% domestic parts and workmanship.
- Machined to exacting tolerances.

⚠ Prop 65 – See Page 112

SPECIFICATIONS FOR 2-PLY STEEL TRIANGLES							
Part Number	Sling Width	Dimensions				Weight	Minimum Breaking Strength
		A	B	C	D		
11455	2	3.94	3.75	2.31	2.25	1.0	33,000
11456	3	5.31	5.00	3.31	3.06	1.8	44,500
11457	4	6.75	6.75	3.75	4.25	3.2	58,000
12337	5	7.70	7.81	4.60	5.13	3.79	70,000
11458	6	9.25	9.38	5.50	6.13	5.7	84,000
11459	8	11.88	12.25	7.50	8.44	12.06	112,000
11460	10	13.25	13.88	8.63	10.88	14.41	140,000
11461	12	15.75	16.69	10.31	13.00	20.24	160,000

SPECIFICATIONS FOR 4-PLY STEEL TRIANGLES							
Part Number	Sling Width	Dimensions				Weight	Minimum Breaking Strength
		A	B	C	D		
14476	2	4.38	3.75	2.31	2.25	3.3	62,000
11938	3	5.81	5.50	3.31	3.06	5.7	93,000
12441	4	6.5	6.75	3.75	4.25	7.6	110,000
12440	6	9.15	9.38	5.50	6.13	13.8	165,000
12313	8	13.07	12.75	7.50	8.61	21.8	220,000
14431	10	15.87	16.00	8.87	11.00	35.2	285,000
12543	12	18.75	19.25	10.50	13.00	48.4	330,000





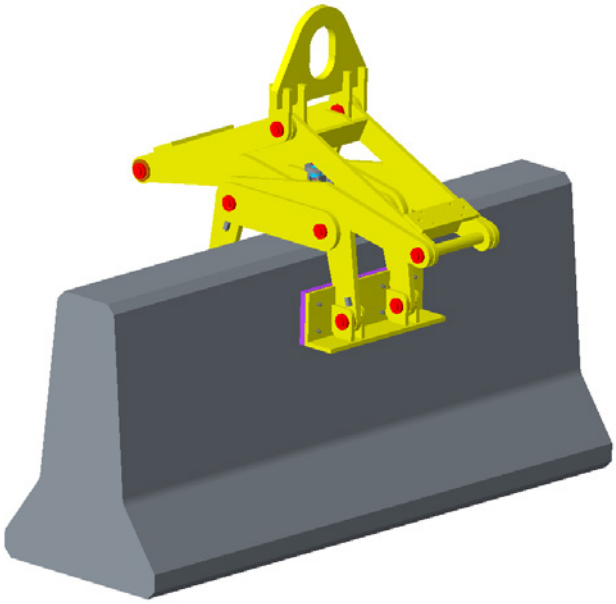
SPECIFICATIONS FOR 2-PLY STEEL CHOKERS								
Part Number	Sling Width	Dimensions					Weight	Minimum Breaking Strength
		A	B	C	D	E		
11462	2	6.16	6.29	2.31	2.24	4.12	2.9	33,000
11463	3	8.00	8.17	3.31	3.06	5.40	4.3	44,500
11464	4	9.40	10.67	3.75	4.25	7.10	6.8	58,000
12338	5	11.18	12.16	4.62	5.15	8.19	9.0	70,000
11465	6	13.25	14.48	5.50	6.13	9.75	13.1	84,000
12297	8	14.31	16.19	7.13	5.14	12.00	23.0	112,000
12296	10	16.88	17.88	8.44	5.26	13.38	27.0	140,000
12312	12	20.25	21.44	10.13	6.30	16.00	38.9	160,000

SPECIFICATIONS FOR 4-PLY STEEL CHOKERS								
Part Number	Sling Width	Dimensions					Weight	Minimum Breaking Strength
		A	B	C	D	E		
14477	2	8.75	7.00	2.25	2.25	4.50	8.4	62,000
13368	3	9.13	9.05	3.00	3.31	5.75	11.4	93,000
12442	4	10.50	10.67	3.75	4.25	7.10	13.4	110,000
12439	6	14.12	14.48	5.50	6.13	9.75	25.7	165,000
12314	8	16.38	17.00	7.00	5.14	13.14	40.0	220,000
14430	10	21.75	24.00	8.50	6.50	16.68	65.4	285,000
12544	12	25.50	28.25	10.00	8.00	19.63	86.5	330,000

CONCRETE BARRIER LIFTER

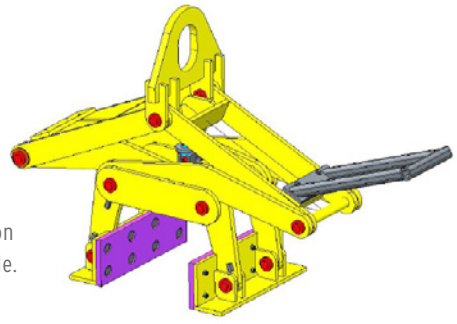
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- Proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- **ALL** lifting equipment individually proof loaded per OSHA requirements.

Prop 65 – See Page 112

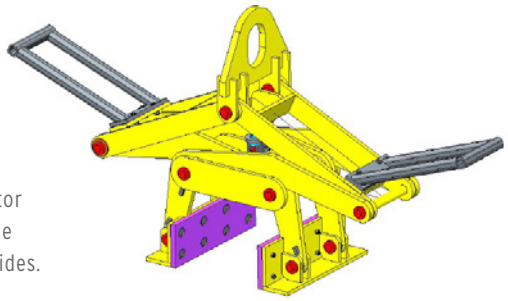


- Heavy-duty design to hold up to outdoor environments where barriers are commonly used.
- Stainless steel indexing latch mechanism.
- Rugged gripping pads swivel to conform to load.
- Indexing latch mechanism allows lifter to be held open.
- Replacement pad installs easily and quickly.
- Operator Extension Handle keeps ground personnel away from load when adjustment is needed.
- Large lifting eye accommodates crane hook.
- Handles barriers with 6" to 12" width at the top of the barrier.

Shown with **optional** Part Number 19790-40 Operator Extension Handle on one side.



Shown with **optional** Part Number 19790-40 Operator Extension Handle added to both sides.



Part Number	Working Load Limit	Weight	Replacement Pads
19790	9,000	400	**19790-31**

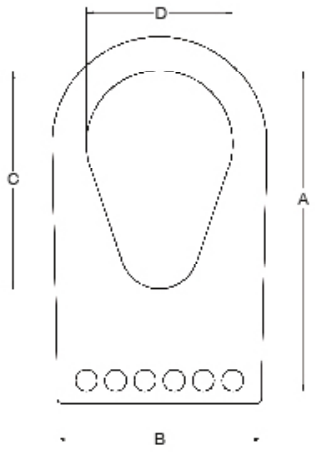
OPTIONAL HANDLE:

Part Number
19790-40

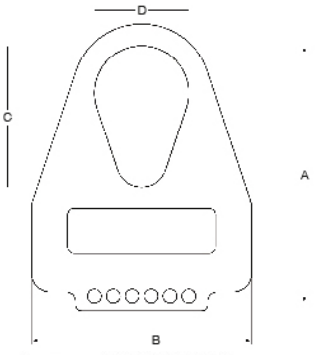
GRADE 80 ALLOY CHAIN MESH SLING TRIANGLES AND CHOKERS

- Steel Triangle and Choker fittings engineered to be used on chain mesh slings.
- Powder coat painted for resistance to corrosion.
- Alloy steel for overhead lifting applications.
- 100% domestic parts and workmanship.
- Machined to exacting tolerances.

⚠ Prop 65 – See Page 112



SPECIFICATIONS FOR CHAIN MESH ALLOY STEEL TRIANGLES										
Part Number	Chain Size	Chain Parts	Dimensions				Weight	WLL Vertical	WLL Choker	WLL Basket
			A	B	C	D				
18980	7/32"	3	6.75	3.00	4.13	2.75	1.0	5,000	5,000	10,000
18981		4	6.75	3.75	4.13	2.75	2.5	6,700	6,700	13,400
18982		5	8.00	4.50	5.0	3.50	3.2	8,400	8,400	16,800
18983		6	8.25	5.25	5.25	3.75	3.8	10,800	10,800	21,600
18984	9/32"	3	6.62	4.5	4.13	2.75	3.0	8,400	8,400	16,800
18985		4	6.62	4.5	4.13	2.75	3.5	11,200	11,200	22,400
18986		5	8.00	5.25	5.0	3.50	4.5	14,000	14,000	28,000
18987		6	8.25	5.75	5.25	3.75	5.0	16,800	16,800	33,600
18988	3/8"	3	6.88	4.25	5.0	3.50	5.0	17,000	17,000	34,000
18989		4	8.13	6.00	6.13	4.38	7.0	22,700	22,700	45,400
18990		5	8.38	6.50	6.25	4.38	9.0	28,400	28,400	56,800
18991		6	9.75	8.00	7.88	5.25	12.0	34,000	34,000	68,000
18992	1/2"	2	10.38	4.88	7.5	5.25	7.0	19,200	19,200	38,400
18993		3	10.38	6.50	7.5	5.25	13.0	28,800	28,800	57,600
18994		4	11.00	8.13	7.5	5.25	15.0	38,400	38,400	76,800



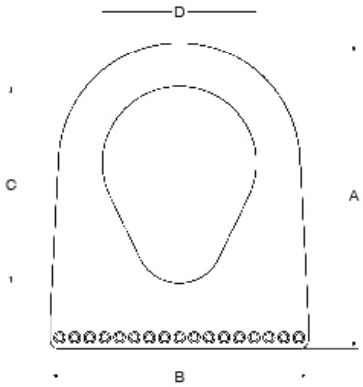
SPECIFICATIONS FOR CHAIN MESH ALLOY STEEL CHOKE										
Part Number	Chain Size	Chain Parts	Dimensions				Weight	WLL Vertical	WLL Choker	WLL Basket
			A	B	C	D				
18995	7/32"	3	8.75	7.00	4.13	2.75	4.0	5,000	5,000	10,000
18996		4	8.75	7.00	4.13	2.75	4.0	6,700	6,700	13,400
18997		5	9.75	8.50	5.0	3.50	4.0	8,400	8,400	16,800
18998		6	10.25	8.75	5.25	3.75	5.0	10,800	10,800	21,600
18999	9/32"	3	8.69	7.50	4.13	2.75	5.7	8,400	8,400	16,800
19000		4	8.62	7.00	4.13	2.75	5.7	11,200	11,200	22,400
19001		5	9.75	8.5	5.0	3.50	7.0	14,000	14,000	28,000
19002		6	10.25	9.00	5.25	3.75	7.5	16,800	16,800	33,600
19029	3/8"	4	11.62	10.00	6.13	4.38	14.5	22,700	22,700	45,400

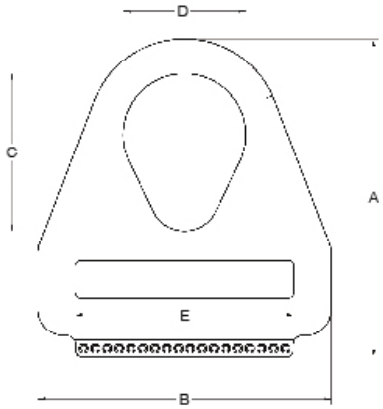
WIRE MESH SLING TRIANGLES AND CHOKERS

- Steel Triangle and Choker fittings engineered to be used on wire mesh body slings.
- Powder coat paint resists corrosion.
- Alloy steel for overhead lifting applications.
- 100% domestic parts and workmanship.
- Machined to exacting tolerances.

Prop 65 – See Page 112

SPECIFICATIONS FOR WIRE MESH TRIANGLES									
Part Number	Sling Width	Dimensions				Weight	WLL Vertical	WLL 90 Degree Basket	Minimum Breaking Strength
		A	B	C	D				
17915	2	4.55	3.10	3.00	2.00	1.0	2,300	4,600	11,500
17925	3	5.18	3.86	3.50	2.50	1.5	3,500	7,000	17,500
17884	4	6.30	4.60	4.00	3.00	2.0	4,800	9,600	24,000
17917	6	7.00	5.87	4.50	3.50	3.5	7,200	14,400	36,000
17919	8	9.00	7.91	6.00	4.50	5.5	9,600	19,200	48,000
17921	10	9.25	9.95	6.25	4.75	6.5	12,000	24,000	60,000
17923	12	9.75	12.00	6.50	5.00	15.0	14,400	28,800	72,000





SPECIFICATIONS FOR WIRE MESH CHOKERS										
Model Number	Sling Width	Dimensions					Weight	WLL Vertical	WLL 90 Degree Basket	Minimum Breaking Strength
		A	B	C	D	E				
17916	2	6.63	4.50	3.00	2.00	3.25	2.0	2,300	4,600	11,500
17926	3	7.31	5.62	3.50	2.50	4.00	3.0	3,500	7,000	17,500
17885	4	7.93	6.37	4.00	3.00	4.75	3.5	4,800	9,600	24,000
17918	6	9.13	8.38	4.50	3.50	6.25	5.5	7,200	14,400	36,000
17920	8	11.38	10.75	6.00	4.50	8.25	9.0	9,600	19,200	48,000
17922	10	11.88	13.25	6.25	4.75	10.25	11.5	12,000	24,000	60,000
17924	12	12.88	15.50	6.50	5.00	12.36	15.0	14,400	28,800	72,000

WIRE MESH SLINGS

NEW PRODUCT

- Steel construction resists abrasion and cutting.
- Each sling is permanently stamped with capacity and serial number.
- Grips contour of the load.
- Each sling is proof-tested and certified.
- Grips load firmly without stretching – reduces load damage.
- Resists abrasion and cutting for greater sling life.
- Low stretch and wide-bearing area distributes load to help avoid damage.
- The slings are repairable.
- Alloy steel end fittings are powder coated for long life.
- Width of mesh helps control and balance load.
- End fittings accomodate most large crane hooks.
- Wire mesh slings shall not be used at temperatures above 550°F.
- Store in a clean, dry area.

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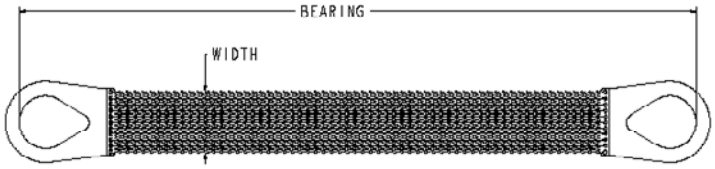
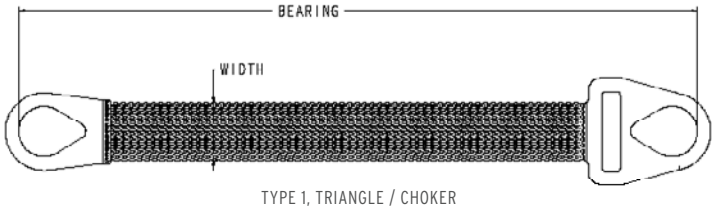
Wire Mesh Width (in.)	RATED CAPACITY (LBS)*		
	Vertical	Choker	Basket
2	2,300	2,300	4,600
3	3,500	3,500	7,000
4	4,800	4,800	9,600
6	7,200	7,200	14,400
8	9,600	9,600	19,200
10	12,000	12,000	24,000
12	14,400	14,400	28,800



TYPE 2, TRIANGLE / TRIANGLE



TYPE 1, TRIANGLE / CHOKER

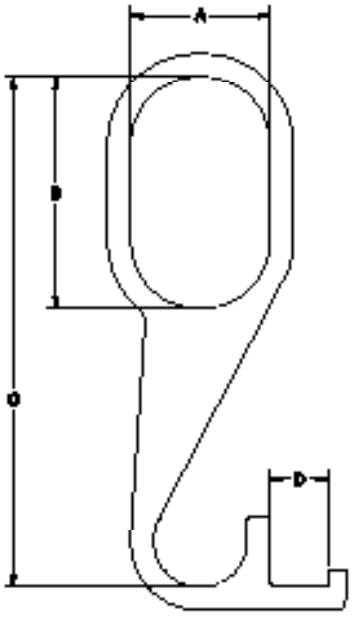
Type	Width	10 GUAGE, PART NUMBER & LENGTH IN FEET					Weight of 3' Sling	Mesh Weight (Per ft)
		3'	4'	6'	8'	10'		
2	2"	WMTT2-3	WMTT2-4	WMTT2-6	WMTT2-8	WMTT2-10	6	1.3
2	3"	WMTT3-3	WMTT3-4	WMTT3-6	WMTT3-8	WMTT3-10	8	1.9
2	4"	WMTT4-3	WMTT4-4	WMTT4-6	WMTT4-8	WMTT4-10	10	2.5
2	6"	WMTT6-3	WMTT6-4	WMTT6-6	WMTT6-8	WMTT6-10	16	3.9
2	8"	WMTT8-3	WMTT8-4	WMTT8-6	WMTT8-8	WMTT8-10	22	5.1
2	10"	WMTT10-3	WMTT10-4	WMTT10-6	WMTT10-8	WMTT10-10	28	6.4
2	12"	WMTT12-3	WMTT12-4	WMTT12-6	WMTT12-8	WMTT12-10	34	7.6
1	2"	WMTC2-3	WMTC2-4	WMTC2-6	WMTC2-8	WMTC2-10	6	1.3
1	3"	WMTC3-3	WMTC3-4	WMTC3-6	WMTC3-8	WMTC3-10	8	1.9
1	4"	WMTC4-3	WMTC4-4	WMTC4-6	WMTC4-8	WMTC4-10	10	2.5
1	6"	WMTC6-3	WMTC6-4	WMTC6-6	WMTC6-8	WMTC6-10	16	3.9
1	8"	WMTC8-3	WMTC8-4	WMTC8-6	WMTC8-8	WMTC8-10	22	5.1
1	10"	WMTC10-3	WMTC10-4	WMTC10-6	WMTC10-8	WMTC10-10	28	6.4
1	12"	WMTC12-3	WMTC12-4	WMTC12-6	WMTC12-8	WMTC12-10	34	7.6

SLING INSPECTION AND MEASURING HOOK

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Powder coat painted safety red for increased visibility.
- **ALL** Lifting equipment shipped with proof load certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- Machined to exacting tolerances.
- U.S. Patent No. 8,028,436

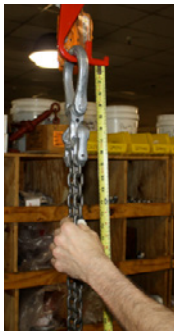
Prop 65 – See Page 112

Capacity in Pounds	Part Number	A	B	C	D	Weight in Pounds
500	**12187**	3	5	11	1.3	3
1,000	**19474**	5	8	15	1.3	6



SLING INSPECTION AND MEASURING HOOK

STEP 1 : Place sling into bowl of measuring hook. Make sure there are no kinks or twists in chain legs. If the sling is equipped with shortening hooks / clutches, make sure they are disengaged and legs hang free.

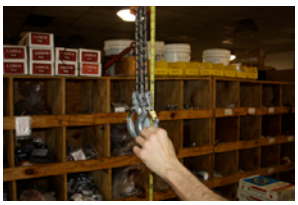


STEP 2 : Insert your tape measure into the slotted section of the hook. Make sure the tape sits into the groove and is hanging parallel with the chain legs. Do not allow the tape measure to become kinked or rest at an angle.

STEP 3 : Perform your daily, link-by-link inspection of the chain sling while raising the hoist hook. This can easily be done at eye level with no stooping or kneeling on the floor.

Required under OSHA 1910.184(d) : Each day before being used, the sling and all fastenings and attachments shall be inspected for damage or defects by a competent person designated by the employer. Additional inspections shall be performed during sling use, where service conditions warrant. Damaged or defective slings shall be immediately removed from service.

STEP 4 : Measure the bearing of the sling. This can easily be done at eye level by raising the hoist hook. **Because the sling is hanging vertically, the measurement will be more accurate than those taken while the sling is laying on the ground.** Also, the measurement can be easily done by a single person in a short time.



PROOF LOADING

1. All BTHLDs meet or exceed all ASME B30.20 and OSHA 1926.251 design specifications, and are proof loaded to 125% of their stated Working Load Limit.
2. All chain, wire rope and synthetic slings are manufactured to meet and exceed ASME B30.9 and OSHA 1910.184.

MARKING AND STENCILING OF BTHLDS

1. Stencil markings on both sides with the working load limit (WLL) and the **Machining & Welding** logo. Any additional marking, when required by the customer, will be noted on applicable paperwork or drawings.
2. Stencil markings are black unless otherwise specified. DO NOT EXCEED RATED CAPACITY. Warning decal is attached if space permits.
3. Stencil markings of the WLL is on lifter unless space does not allow.
4. The WLL marking is located in central locations so that it is both highly visible and upright during normal use.
5. A serial number tag is permanently attached which meets and exceeds ASME B30.9 and OSHA specifications.
6. All chain, wire rope, and synthetic slings are tagged to meet and exceed ASME B30.9 and OSHA 1910.184.

DESIGN SERVICE CLASS AND LIFE CATEGORY PER ASME BTH-1

Unless otherwise specified on applicable paperwork or product drawings, the design category used is "B" and the service life is Class "2" (up to 500,000 load cycles). Different design categories and service classes must be specified by the buyer prior to order placement. The lifting product will then be engineered to meet the specified requirements. Inspection required per ASME B30.20 "normal service." Fixtures to be re-tested and documented annually.

SERVICE TEMPERATURES OF BTHLD'S

All lifting devices and slings sold by **Machining & Welding** are manufactured to meet or exceed ASME B30.20 and ASME B30.9 unless otherwise noted. These specifications require the user to perform a pre-lift equipment inspection and limit the amount of impact and shock loading to a minimum. This is of extreme importance especially when the service temperature is below 35˚F, and increasingly important at lower temperatures. On this basis, the **Machining & Welding** standard service temperature for all BTHLDs is within the temperature range of 25˚F to 150˚F. The buyer has the option of purchasing BTHLDs made for arctic service to -50˚F. These devices are made of special steels produced to withstand Charpy impact tests made at -50˚F, and must be specified by the buyer prior to order placement.

PRE-LIFT INSPECTION PROCEDURES

Machining & Welding requires that before any lift, the BTHLD is inspected for cracks, gouges, or deep scratches in high stress areas in accordance with all applicable ASME B30.9, ASME B30.20 and OSHA requirements.

REPAIRS OF BTHLDS

All repairs of BTHLDs must be performed by **Machining & Welding**. Any BTHLD removed from use after inspection must be returned to **Machining & Welding** for evaluation and inspection. Contact **Machining & Welding** for instructions and Return Goods Authorization (RGA) numbers prior to returning BTHLDs for inspection or repair.

WARRANTY OF BTHLDS

Machining & Welding warrants every item of its manufacture, when used under normal operating conditions, to be free from defects in material and workmanship within thirty days from the date of original billing. If upon return of a product within thirty days from the date of original billing, our examination should disclose defects in manufacture, it is our limited obligation under this warranty to make good at our facility in Cokato, MN, the complete product or any portion thereof, within thirty days from the date of original billing. If any repairs, heat treatment, or annealing of products are conducted at any place other than our facilities, this warranty shall be rendered null and void. **Machining & Welding** will assume no other obligations or liabilities, expressed or implied, than those contained in this warranty. This warranty, which is given expressly and in lieu of all other warranties, expressed or implied, of merchantability and fitness for a particular purpose, constitutes the only warranty made by **Machining & Welding**.

FREQUENTLY ASKED QUESTIONS AND BUYING CONSIDERATIONS

How do I know if the manufacturer of the Below-the-Hook Lifting Device conforms to ASME B30.20, ASME BTH-1 and OSHA 1926.251 design specifications?

Ask, and if the answer is NO, then **DO NOT BUY THE DEVICE**! Companies that purchase lifting devices not conforming to ASME and OSHA requirements run the risk of endangering their worker's safety and expose themselves to potential lawsuits and potential OSHA fines. M&W proudly manufactures all Below-the-Hook Lifting Devices to meet or exceed all applicable ASME and OSHA requirements.

My Below-the-Hook Lifting Device was designed by a professional engineer. Do we still need to conform to ASME B30.20 and OSHA 1926.251 design specifications? Does the device need to be load tested?

YES to both. All below-the-hook lifting devices need to conform to the ASME and OSHA specifications. OSHA 1926.251(a)(4) requires: **Special custom design grabs, hooks, clamps, or other lifting accessories, for such units as modular panels, prefabricated structures and similar materials, shall be marked to indicate the safe working loads and shall be proof-tested prior to use to 125 percent of their rated load.** If a below-the-hook lifting device is not a regularly manufactured or produced item, the device is deemed a special custom design and must be "marked to indicate the safe working loads and shall be proof-tested prior to use" in accordance with the OSHA 1926.251(a)(4) requirements.

We've been using a 'homemade' Below-the-Hook Lifting Device for years without any problems. Does this OSHA rule apply to us? Aren't we 'grandfathered' in?

Yes, OSHA 1926.251 applies and NO, you are not 'grandfathered' in. These 'homemade' lifting devices are frequently in violation. They expose your company to potential OSHA fines and penalties. They also can potentially subject the designer and fabricator to personal liability litigation.

How do I know which Below-the-Hook Lifting Device is best suited for my application?

As the manufacturer, we are able to help you make the best decision based on the designs available and the costs involved. Using a less expensive, lighter duty lifter in a heavy duty application is all too common in our industry. By working with our customers, we're able to keep costs, downtime and injuries to a minimum.

How much information does M&W need to know to determine which Below-the-Hook Lifting Device is best suited for my application?

As a general rule, more information is better. However, we do have standard forms you can fill out to answer most of our questions.

Do I need to worry about spare parts for my Below-the-Hook Lifting Device?

No. At M&W, we keep detailed engineering records of every lifter we sell so we're able to easily and quickly get you replacement parts if the situation arises.

Do you have personnel who are able to come in to our plant and look at our current situation?

Yes - we have established a proven track record of service, performance, and quality with our customers for over 50 years. Part of that commitment to service is having experts available to come to your facility to inspect your equipment and offer solutions which fit your company's unique needs and technical requirements.

How do I educate my personnel on how to safely use the Below-the-Hook Lifting Device once we receive it?

At M&W, we're constantly working to help our customers operate in safer, more accident-free environments. We've also teamed up with our local community college to help develop accredited curriculum which can be scheduled for employees in your plant. Our **User Responsibilities for Inspection, Maintenance, and Safe Operation for Below The Hook Lifting Devices** is an excellent reference to address safety issues concerning daily and periodic inspections.

Are M&W personnel certified? How do I know an M&W lifter is safe for my application?

All M&W welding personnel are certified to AWS D14.1 and ASME BTH-1 in accordance with ASME B30.20 requirements. Certification paperwork is available upon request.

CALIFORNIA PROPOSITION 65

WARNING: The steel and alloy steel in this product contains chromium and nickel. This product can expose you to chemicals including nickel and chromium, which are known to the state of California to cause cancer and birth defects or reproductive harm. For more information go to **www.p65warning.ca.gov**

Normal handling and use of this product is not generally an exposure concern. However, unintended uses and activities that included, but not limited to grinding, sanding, welding, and others can expose you to ingestion, inhalation or absorption of chemicals that require proposition 65 warnings.

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