

2020 CATALOG

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WIRE ROPE TERMINATIONS
HOOKS
PLATE CLAMPS
LIFTING BEAMS
SPREADER BEAMS
FORKLIFT ATTACHMENTS
MATERIAL HANDLING
PERSONNEL BASKETS
CUSTOM LIFTING
DEVICES



FEATURING NEW &
UPDATED PRODUCTS

MACHININGANDWELDING.COM



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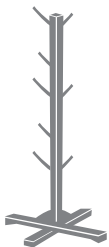
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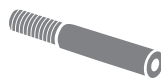
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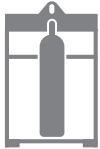









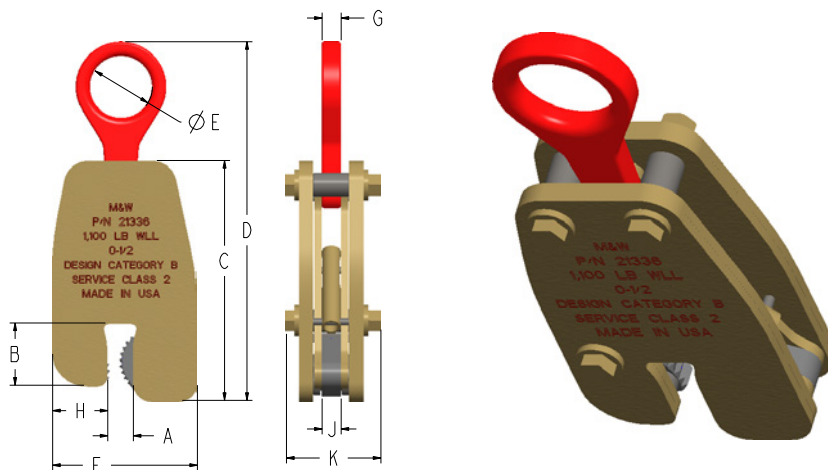
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PLATE CLAMP – STRAIGHT

- 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 100**



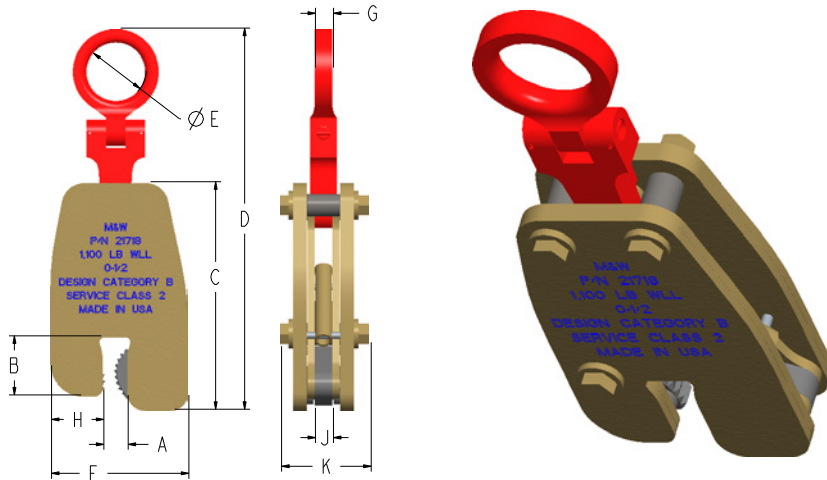
STRAIGHT

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 CLAMPS

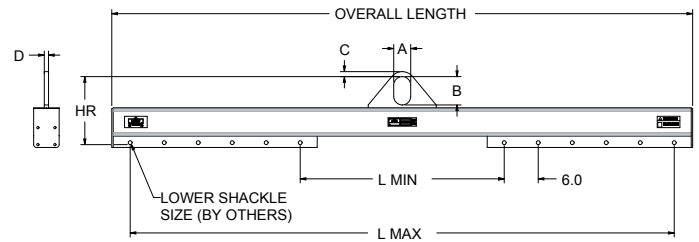
Plate Clamp - Hinged

PLATE CLAMP – HINGED

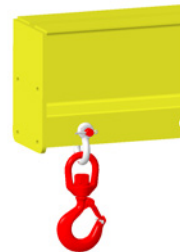
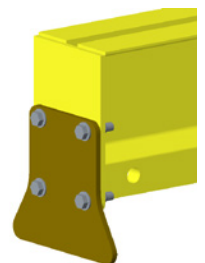


HINGED

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


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
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
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
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
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
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
22172	3' - 5'	67	40,000	5	9	2.5	1.5	26.2	1 1/4"	706
22173	5' - 10'	127	40,000	5	9	2.5	1.5	26.2	1 1/4"	1,574
22174	10' - 15'	187	40,000	5	9	2.5	1.5	27.9	1 1/4"	2,098
22175	15' - 20'	247	40,000	5	9	2.5	1.5	27.9	1 1/4"	2,643
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
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

OPTIONAL SHACKLE & HOOK

OPTIONAL BOLT ON STAND


* Call for specifications on larger sizes and capacities


LIFTING BEAMS

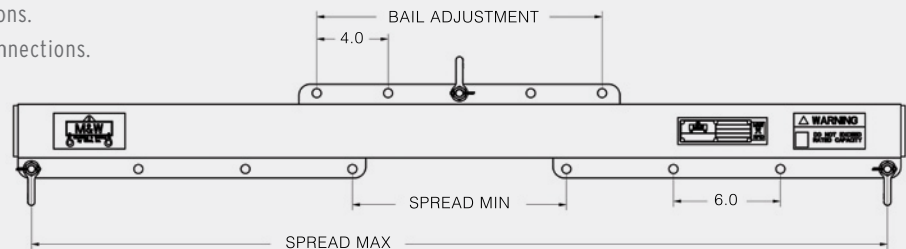
Adjustable Economy

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.

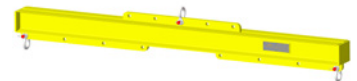
 Prop 65 – See Page 100



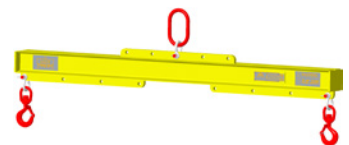
WORKING LOAD LIMIT IN POUNDS*	PART NUMBER	MAX SPREAD	MIN SPREAD	BAIL ADJ	HR	WEIGHT IN POUNDS	TOP SHACKLE SIZE	BOTTOM SIZE
500	13855	48	12	16	7.57	45	3/8"	3/8"
500	13862	72	36	16	7.57	60	3/8"	3/8"
500	13866	96	60	16	7.57	75	3/8"	3/8"
1,000	13878	48	12	16	7.57	45	3/8"	3/8"
1,000	13879	72	36	16	7.57	60	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"

* Call for specifications on larger sizes and capacities

STANDARD WITH SHACKLES




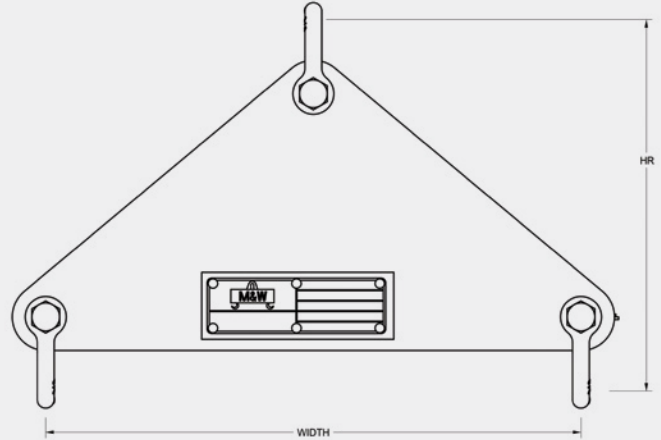
SHOWN WITH OPTIONAL TOP RING & HOOKS



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.

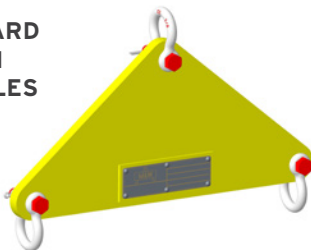
 Prop 65 – See Page 100



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**




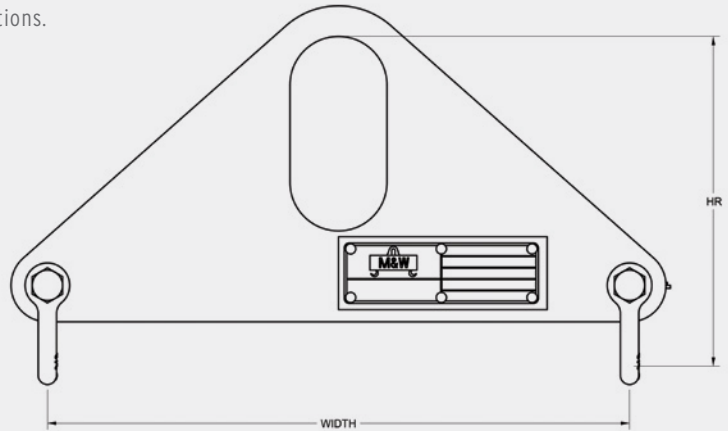
LIFTING BEAMS

Small Length Lift Beams - Lift Bale Top

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.

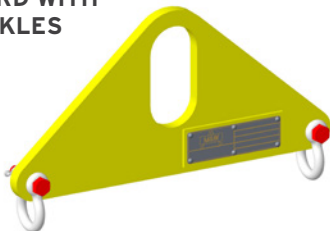
 Prop 65 – See Page 100



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




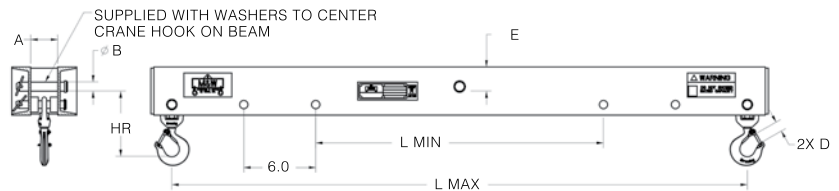
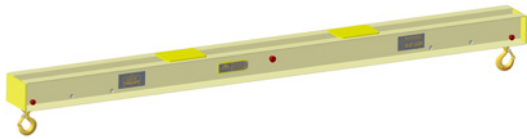
SHOWN WITH OPTIONAL HOOKS



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 100



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	16484	16485	16486	16487	16488	2.25	0.63	0.86
	HR=	5.5	5.5	5.5	5.5	5.5			
	E=	1.94	1.94	1.94	1.94	1.94			
	Weight	57	82	100	120	145			
2,000	Part Number	16489	16490	16491	16492	16493	2.25	0.75	0.86
	HR=	5.5	5.5	6.5	6.5	6.5			
	E=	2.00	2.00	2.00	2.00	2.00			
	Weight	60	85	175	215	250			
4,000	Part Number	16494	16495	16496	16497	16498	2.25	1.00	0.89
	HR=	6.7	6.7	7.1	7.1	7.9			
	E=	2.13	2.13	2.75	2.75	3.00			
	Weight	110	150	210	310	345			
6,000	Part Number	16499	16500	16501	16502	16503	3.00	1.25	0.96
	HR=	6.9	7.6	8.6	9.6	9.6			
	E=	2.51	2.76	2.76	2.76	2.76			
	Weight	125	185	255	300	400			
10,000	Part Number	16504	16505	16506	16507	16508	3.00	1.50	1.08
	HR=	9.8	9.8	9.8	10.3	10.3			
	E=	3.25	3.25	3.25	3.75	3.75			
	Weight	240	320	400	490	695			

* Call for specifications on larger sizes and capacities

LIFTING BEAMS

Economy H-Beam



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

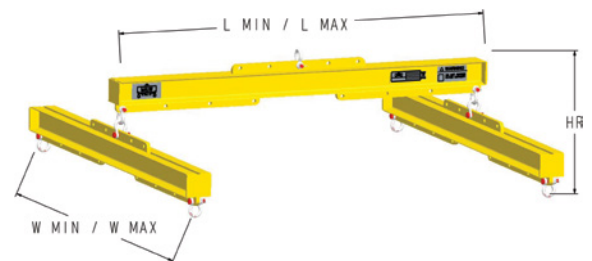
8,000 LB WLL		TOP BEAM: L MIN / L MAX		
		PART NUMBER		
		24"-72"	48"-96"	72"-120"
LOWER BEAMS: W MIN / W MAX	12"-48"	17598	17602	17606
	HR	25.6	25.6	25.6
	WEIGHT	305	410	565
	36"-72"	17599	17603	17607
	HR	26.6	26.6	26.6
	WEIGHT	425	530	685
	60"-96"	17600	17604	17608
	HR	27.6	27.6	27.6
	WEIGHT	655	760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

* Call for specifications on larger sizes and capacities


- 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 100

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



LOW HEADROOM, MULTIPLE LENGTH STANDARD LIFTING BEAM

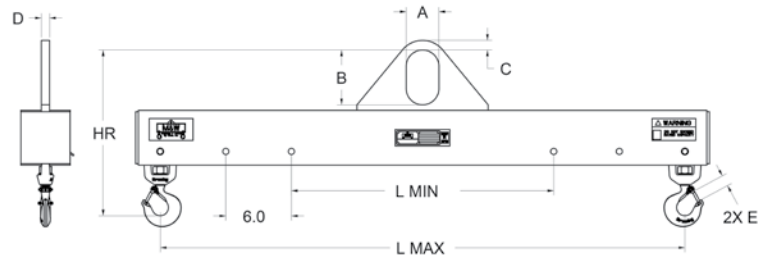
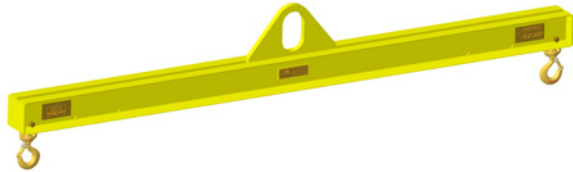
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
 - Painted safety yellow for increased visibility.
 - **ALL** Lifting Beams proof loaded and shipped with certification paperwork.
 - Durable construction ideally suited to jobsite or warehouse use.
 - Standard with hooks.
 - Made in U.S.A.
 - Machined to exacting tolerances.
 - Custom designs available - call for engineering.
 - **ALL** lifting equipment individually proof loaded per OSHA requirements.
-  Prop 65 – See Page 100

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

LIFTING BEAMS

Low Headroom, Multiple Length


Standard Lifting Beam

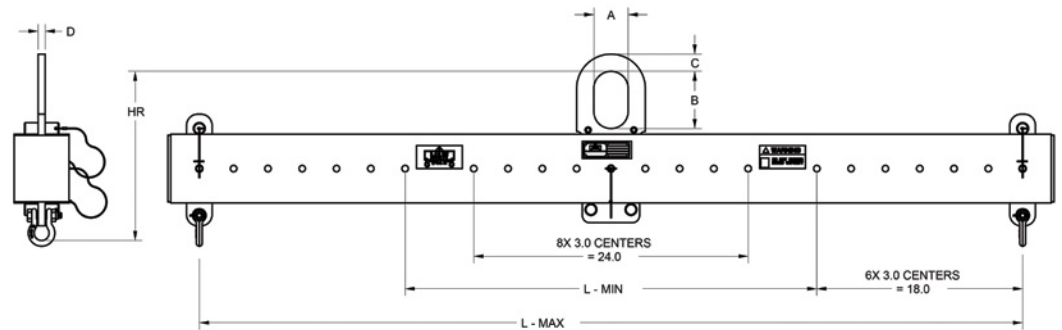


Pick Points – Outside Length (L) in Feet					Other Dimensions	Working Load Limit in Pounds
LMin LMax 12', 13', 14'	LMin LMax 14', 15', 16'	LMin LMax 16', 17', 18'	LMin LMax 18', 19', 20'	LMin LMax 22', 23', 24'		
11968 13.11 226	11971 14.11 313	11974 14.11 350	11977 14.11 390	11981 15.11 535	C=.875, 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

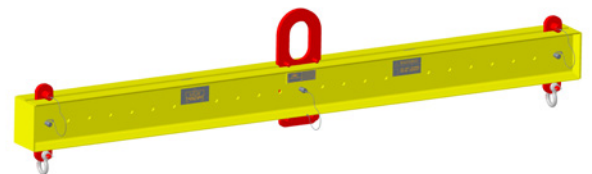
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** Lifting Beams proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Quick and easy adjustment of unbalanced 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 100



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



LIFTING BEAMS

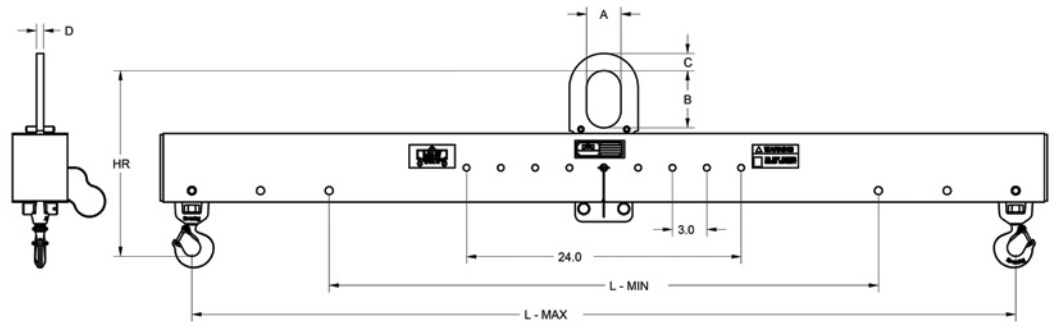
Adjustable Length Lifting Beams
with Swivel Hook Bottoms



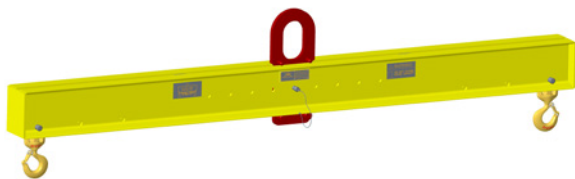
ADJUSTABLE LENGTH LIFTING BEAMS WITH SWIVEL HOOK BOTTOMS

- 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 100

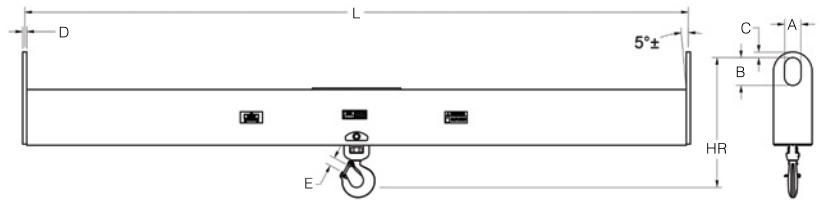
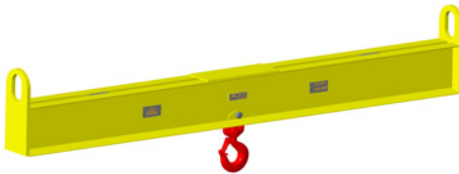


Working Load Limit in Pounds*	Part Number	L min	L max	A	B	C	D	HR	Weight in Pounds
2,000	16410	48	72	3	5	0.75	0.63	13.8	85
2,000	16411	120	144	3	5	0.75	0.63	15.7	285
4,000	16412	48	72	3	5	1.5	0.63	14.6	135
4,000	16413	120	144	3	5	1.5	0.63	16.6	330
6,000	16414	48	72	3	5	1.5	0.63	16.2	160
6,000	16415	120	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 100**



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


LIFTING BEAMS

IBC Tote



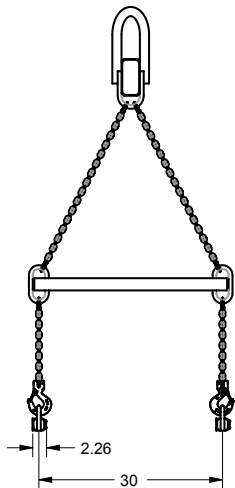
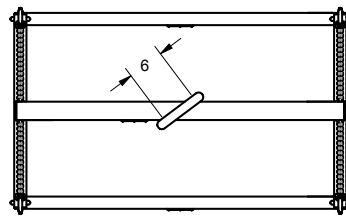
IBC TOTE LIFTING BEAM

- 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.

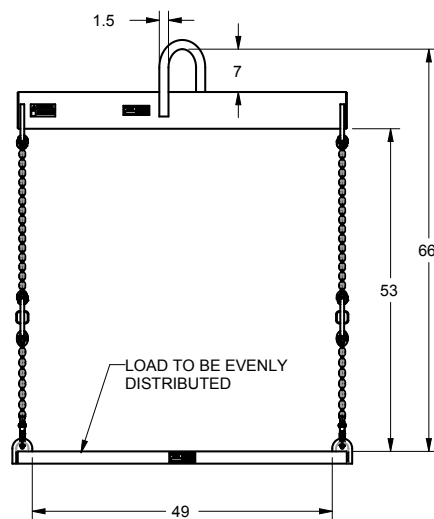
 Prop 65 – See Page 100

**PART
NUMBER
23070**

5,000 LB Working
Load Limit




**SOLD WITH CHAIN
SLING AS SHOWN**



Lifts 330 or 275 GAL IBC
Tanks

FIXED ROLL LIFTING BEAMS

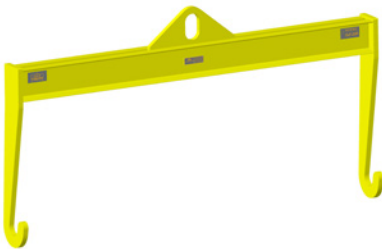
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** Lifting Beams proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- Custom designs available - 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 100



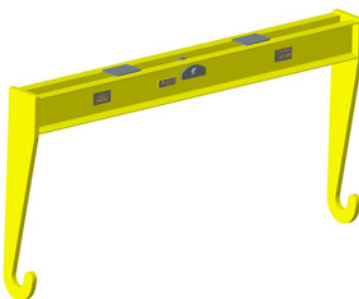
Working Load Limit	Part Number	Max Roll Diameter	Max Arbor Diameter	Inside Length	Weight
2,000	20715	36	3	50	75
2,000	20716	36	3	74	105
4,000	20717	36	3	50	115
4,000	20718	36	3	74	154

* 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

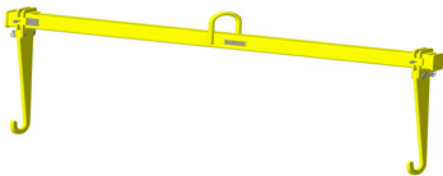
LIFTING BEAMS

Adjustable Roll Lift Beams

ADJUSTABLE ROLL LIFT BEAMS

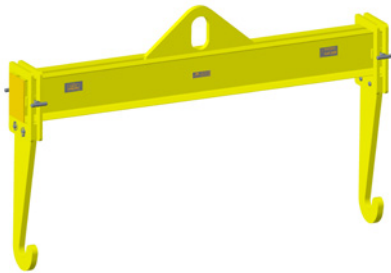
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** Lifting Beams proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Quick and easy lifting and positioning of 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 100



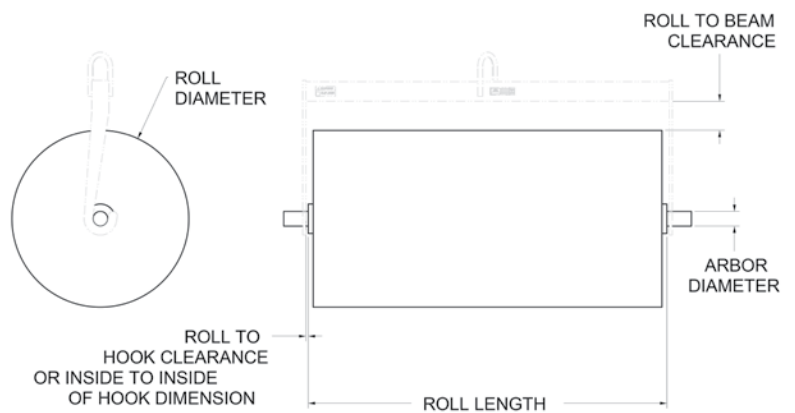
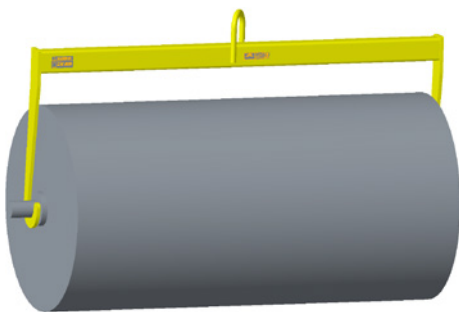
Working Load Limit	Part Number	Max Roll Diameter	Max Arbor Diameter	Inside Length	Weight
2,000	20784	36	3	22-76	130

* 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



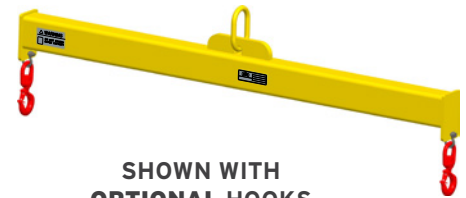
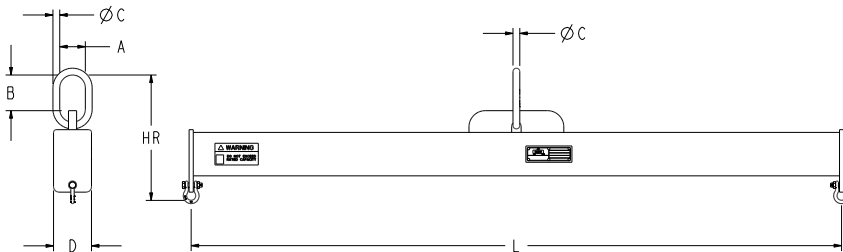
ECONOMY (FIXED LENGTH) LIFTING BEAMS

- 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 100



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

* Call for specifications on larger sizes and capacities

LIFTING BEAMS

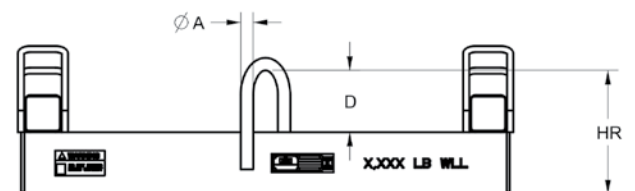
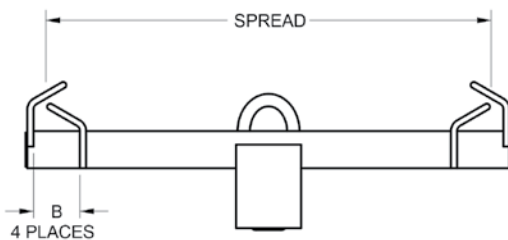
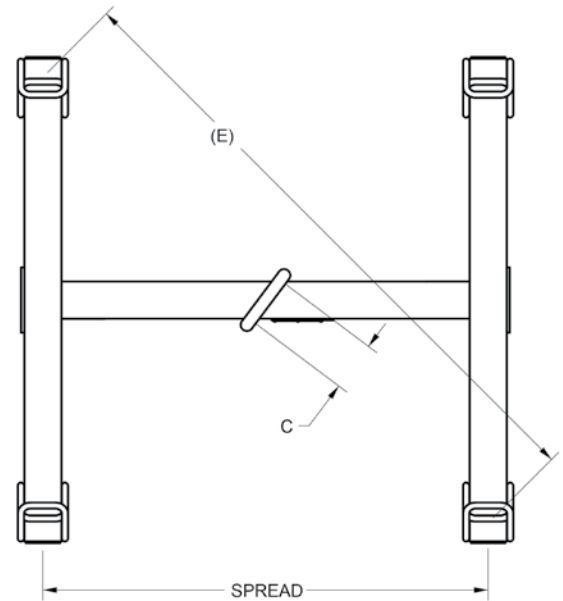
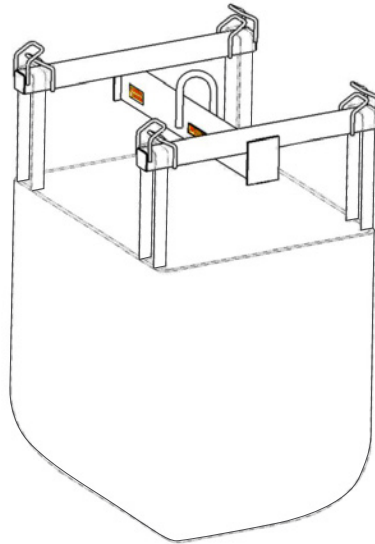
Bulk Container Lifting Beams

- 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 100


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

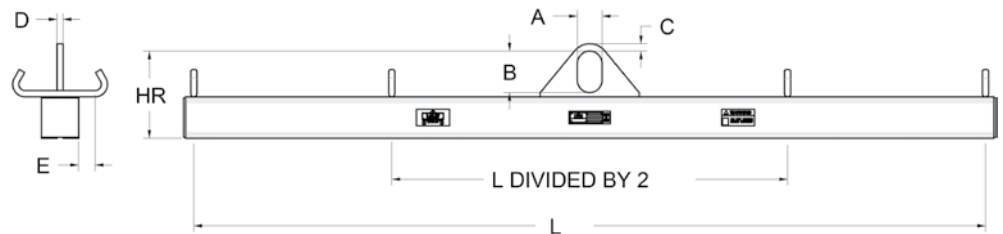
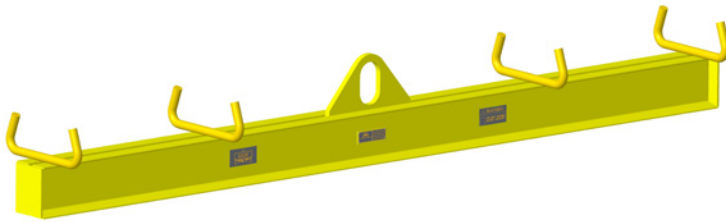
*Larger capacities and custom configurations available. Please call for ordering assistance.



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.

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Working Load Limit in Pounds*	Model Number Headroom (in) Weight (lbs)	Outside Spread (L) in Feet*							A (in) B (in) E (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 2.0
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 2.0
4,000	Part Number HR = LBS =	17506 10.50 110	17507 10.50 150	17514 11.50 210	17508 11.50 310	17509 12.50 340	17510 13.50 580	17511 13.50 660	3.0 5.0 2.0
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	3.0 5.0 2.0


* Call for specifications on larger sizes and capacities

LIFTING BEAMS

Glass Panel

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.

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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

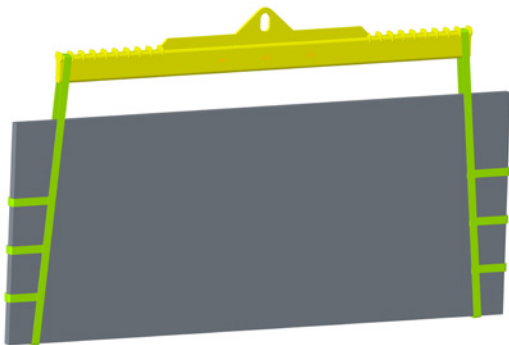
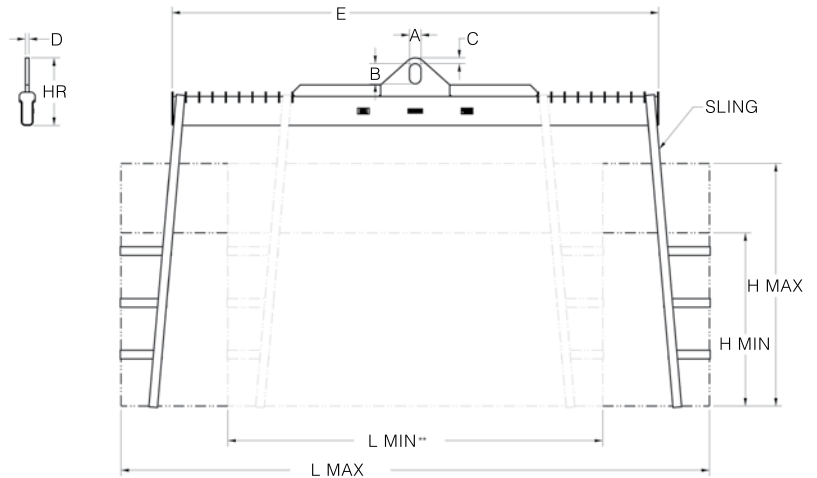

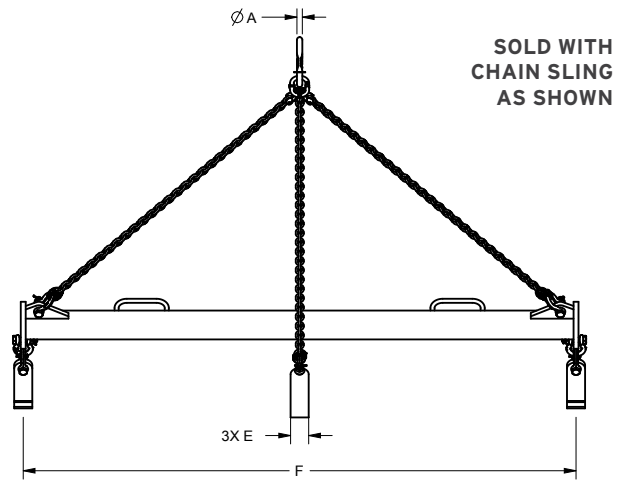
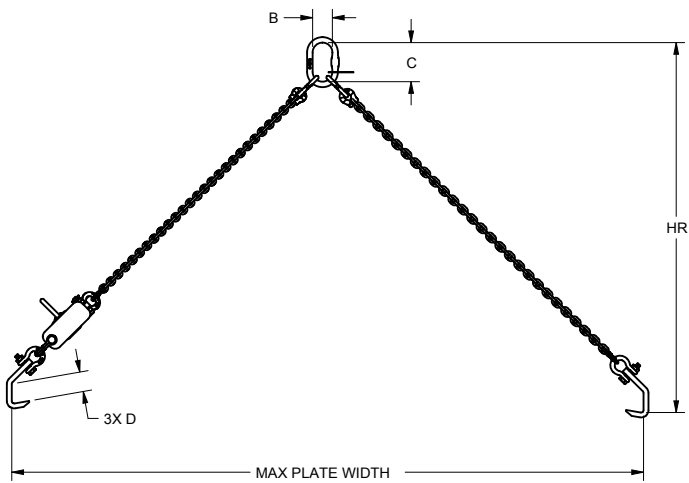


PLATE LIFTING BEAMS

- 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"

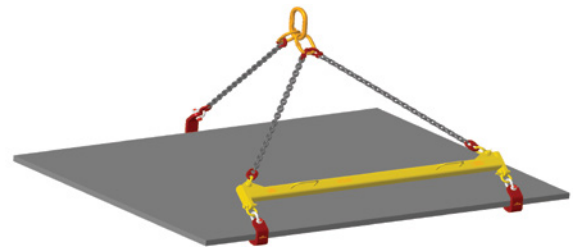
 Prop 65 – See Page 100



**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




LIFTING BEAMS

Non-Conductive Battery Lifting Beam

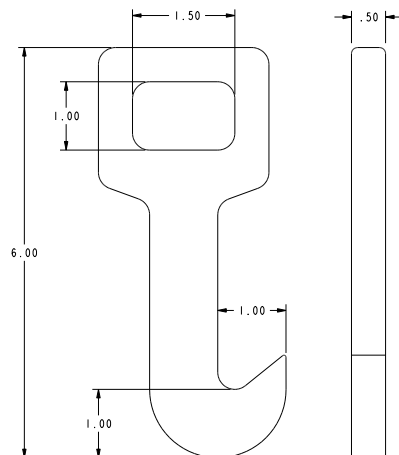
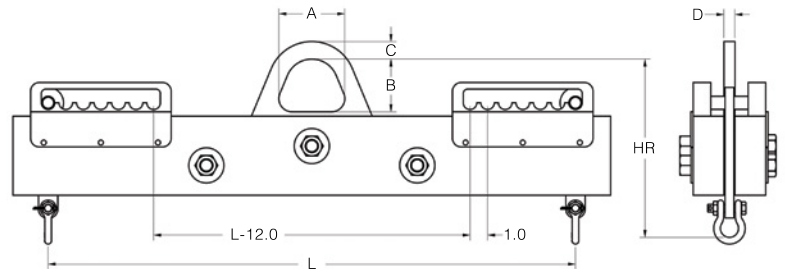
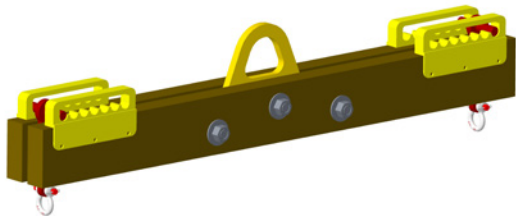
NON-CONDUCTIVE BATTERY LIFTING BEAM

- 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 100

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

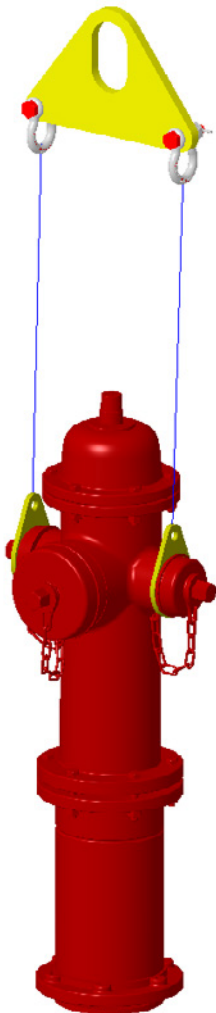
P/N: 22094
(sold each)
2,000 LB WLL



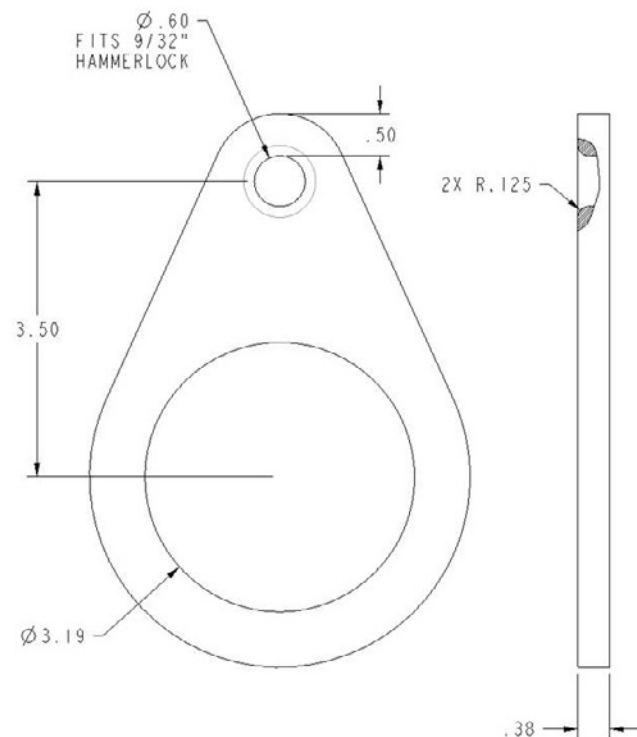
HYDRANT LIFTER

- 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 100



- **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



MATERIAL BASKETS

Fixed Side Material Baskets

MATERIAL BASKETS WITH FIXED SIDES

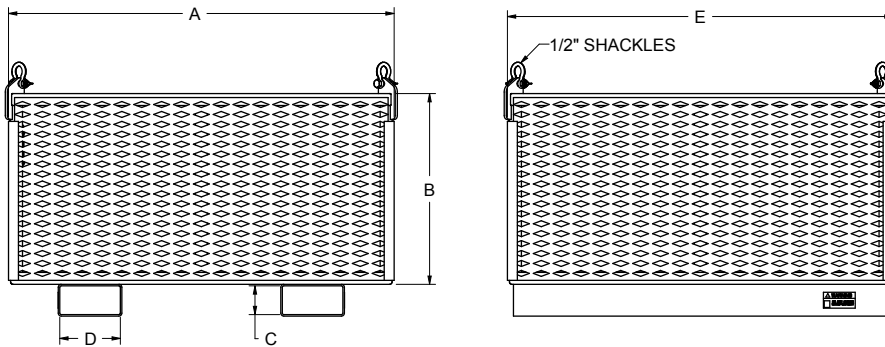
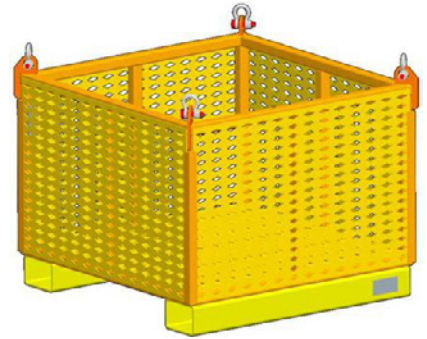
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for resistance to corrosion.
- **ALL** material baskets shipped with proof load certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Pick from lifting points with top rigging.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

NOT FOR PERSONNEL LIFTING.

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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"



MATERIAL BASKET WITH DROP SIDE

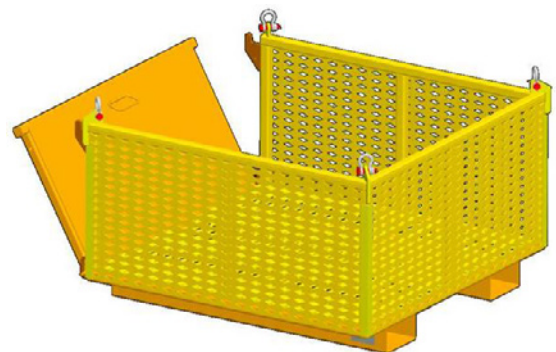
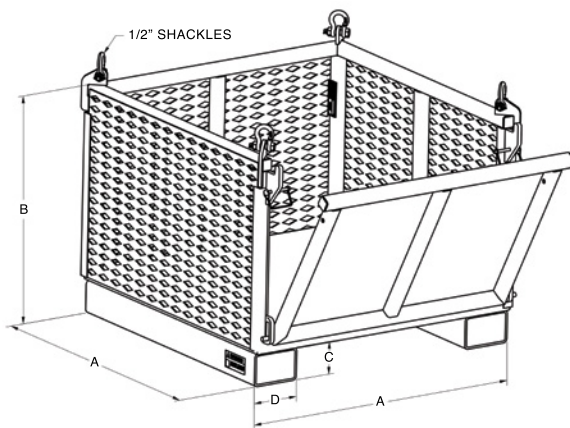
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for resistance to corrosion.
- **ALL** material baskets shipped with proof load certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Pick from lifting points with top rigging.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

NOT FOR PERSONNEL LIFTING.

 Prop 65 – See Page 100

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"




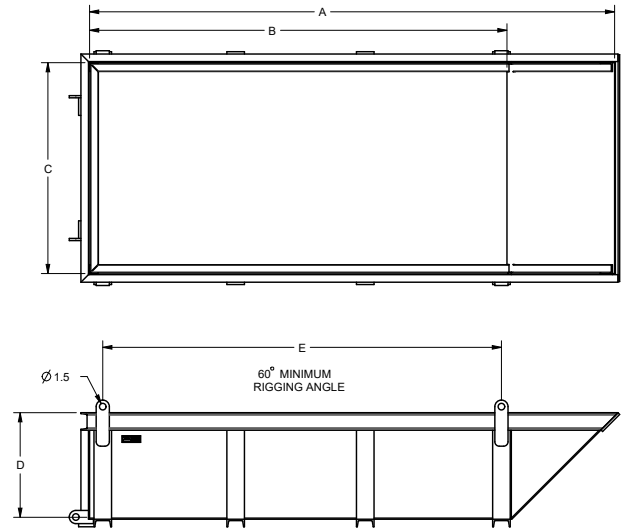
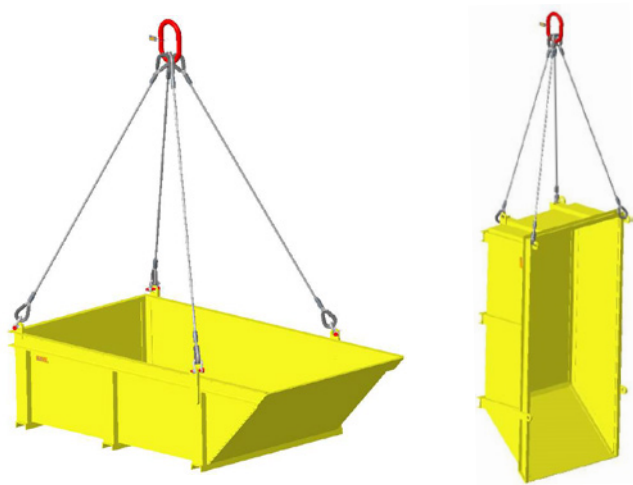
MATERIAL BASKETS

Fixed Side Material Baskets

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 100



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



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 100



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'
PNR90-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

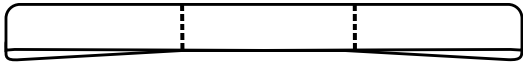
Type III - Eye & Eye Flat Slings & Type V - Endless Slings

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.

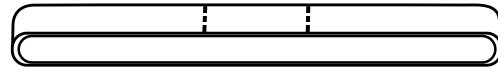
- All dimensions in inches unless otherwise noted.
- **Order length in feet in the '-X' portion of part number.**

 Prop 65 – See Page 100



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.



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	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

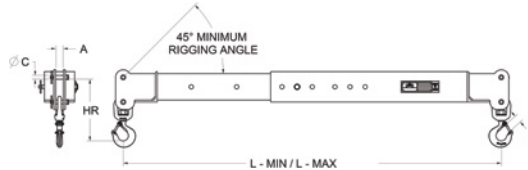
Web Width	Part Number	WORKING LOAD LIMIT IN POUNDS		
		Vertical	Choke	Basket
SINGLE PLY				
1	EN1-901-X	3,200	2,560	6,400
2	EN1-902-X	6,400	5,120	12,800
3	EN1-903-X	9,600	7,680	19,200
4	EN1-904-X	12,800	10,240	25,600
5	EN1-905-X	16,000	12,800	32,000
6	EN1-906-X	19,200	15,360	38,400
8	EN1-908-X	25,600	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.

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SHOWN WITH OPTIONAL TOP RIGGING

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	
4,000	Part Number HR = LBS =	12805 5.37 80	12822 5.12 120	12813 5.12 155	12829 5.12 235	1.00 0.50 0.89
10,000	Part Number HR = LBS =	12834 6.53 130	12842 6.28 190	12848 6.28 250	12853 6.28 365	1.25 0.75 1.08
20,000	Part Number HR = LBS =	12864 7.63 185	12872 7.63 265	12880 7.63 345	12885 7.63 510	1.66 1.00 1.31

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


*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.

SPREADER BEAMS

Telescoping Adjustable

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 100



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
40,000	1-1/2" Top 1-1/2" Bottom	Part Number	20127	20126	20125	20124
		HR = LBS =	7.6 340	7.6 410	7.6 560	7.6 760
60,000	1-3/4" Top 1-3/4" Bottom	Part Number	20132	20131	20130	20129
		HR = LBS =	7.1 395	7.1 490	7.1 660	7.1 890
80,000	2" Top 2" Bottom	Part Number	20137	20136	20135	20134
		HR = LBS =	9.3 575	9.3 700	9.3 950	9.3 1,250
100,000	2" Top 2" Bottom	Part Number	20142	20141	20140	20139
		HR = LBS =	9.3 575	9.3 700	9.3 950	9.3 1,250

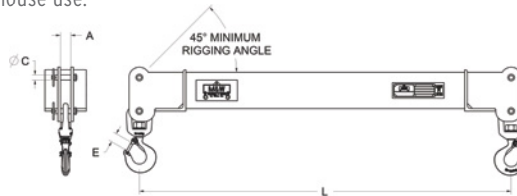
OPTIONAL TOP RIGGING						
Working Load Limit in Pounds*	Part Name		Part Number	Part Number	Part Number	Part Number
40,000	Adjustable Spreader		20127	20126	20125	20124
	Wire Rope		23421	23422	23423	23424
	Round Sling Bridle		23433	23434	23435	23436
60,000	Adjustable Spreader		20132	20131	20130	20129
	Wire Rope		23425	23426	23427	23428
	Round Sling Bridle		23437	23438	23439	23440
80,000	Adjustable Spreader		20137	20136	20135	20134
	Wire Rope		23430	23430	23431	23432
	Round Sling Bridle		23441	23442	23443	23444
100,000	Adjustable Spreader		20142	20141	20140	20139
	Wire Rope		23430	23430	23431	23432
	Round Sling Bridle		23441	23442	23443	23444

*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.

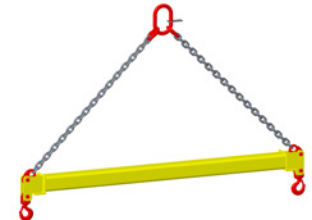
FIXED SPREADER BEAMS

- 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°.

 Prop 65 – See Page 100



**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	
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	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	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	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
4,000	Fixed Spreader	13094	13097	13100	13103	13106	13109	13112
	Chain	23354	23354	23355	23355	23356	23357	23357
	Wire Rope	23396	23396	23397	23397	23398	23399	23399
	Round Sling Bridle	23374	23374	23375	23375	23376	23377	23377
10,000	Fixed Spreader	13116	13119	13122	13125	13128	13131	13134
	Chain	23378	23378	23379	23379	23380	23381	23381
	Wire Rope	23400	23400	23401	23401	23402	23403	23403
	Round Sling Bridle	23382	23382	23383	23383	23384	23385	23385
20,000	Fixed Spreader	13138	13141	13144	13147	13150	13153	13156
	Chain	23386	23386	23387	23387	23388	23389	23389
	Wire Rope	23404	23404	23405	23405	23406	23407	23407
	Round Sling Bridle	23390	23390	23391	23391	23392	23393	23393

SPREADER BEAMS

Fixed Spread

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 100

SHOWN WITH
OPTIONAL TOP
RIGGING & SHACKLES

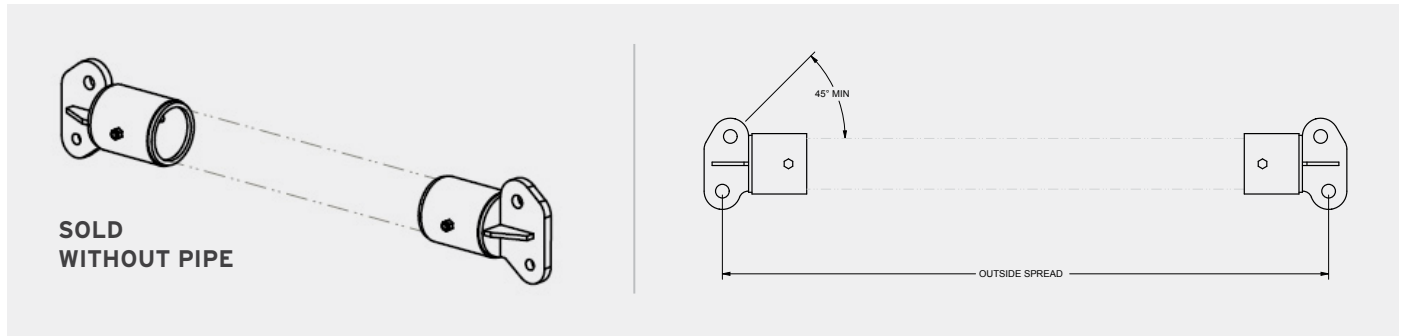


FIXED LENGTH LARGE CAPACITY SHACKLE END SPREADER BEAMS								
Working Load Limit in Pounds*	Model Number Headroom (in) Weight (lbs)	Outside Spread (L) in Feet*						
		4	6	8	10	12	16	20
40,000	Part Number HR = LBS =	20165 8 215	20166 8 275	20167 8 330	20168 8 385	20169 8 440	20170 8 550	20171 8 660
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
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
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

*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
40,000	Fixed Spreader	20165	20166	20167	20168	20169	20170	20171
	Wire Rope	23421	23421	23422	23422	23423	23424	23424
	Round Sling Bridle	23433	23433	23434	23434	23435	23436	23436
60,000	Fixed Spreader	20172	20173	20174	20175	20176	20177	20178
	Wire Rope	23425	23425	23426	23426	23427	23428	23428
	Round Sling Bridle	23437	23437	23438	23438	23439	23440	23440
80,000	Fixed Spreader	20179	20180	20181	20182	20183	20184	20185
	Wire Rope	23430	23430	23430	23430	23431	23432	23432
	Round Sling Bridle	23441	23441	23442	23442	23443	23444	23444
100,000	Fixed Spreader	20186	20187	20188	20189	20190	20191	20192
	Wire Rope	23430	23430	23430	23430	23431	23432	23432
	Round Sling Bridle	23441	23441	23442	23442	23443	23444	23444

CUSTOM SPREADER BEAM END CAP KITS



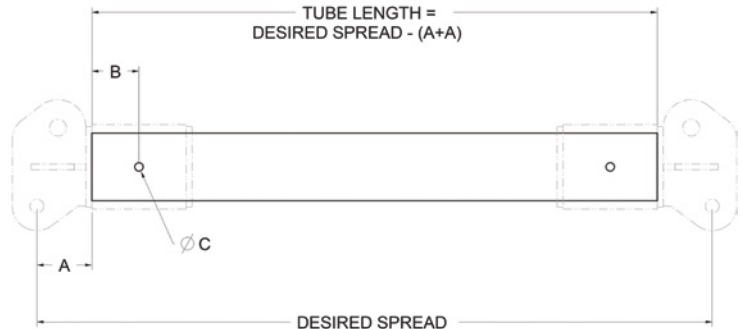
End Cap Part Number	Pipe Size	Top Shackle Min	Top Shackle Max	Bottom Shackle Min	Bottom Shackle Max	Weight per Pair
19499	2-1/2"	1/2"	7/8"	1/2"	7/8"	28
19500	5"	3/4"	1-1/4"	3/4"	1-1/4"	50
19120	8"	1"	1-3/4"	1"	1-1/2"	288

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.

SPREADER BEAMS


Custom Spreader Beam

End Cap Kits



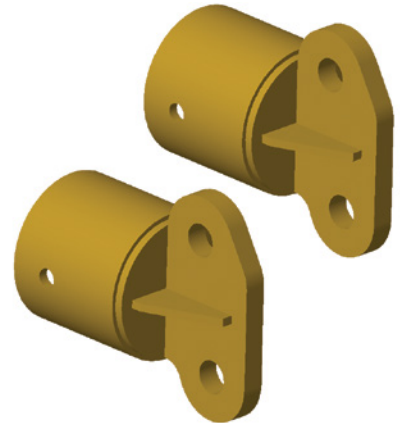
CUSTOM SPREADER BEAM END CAP KITS

- 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 100

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".

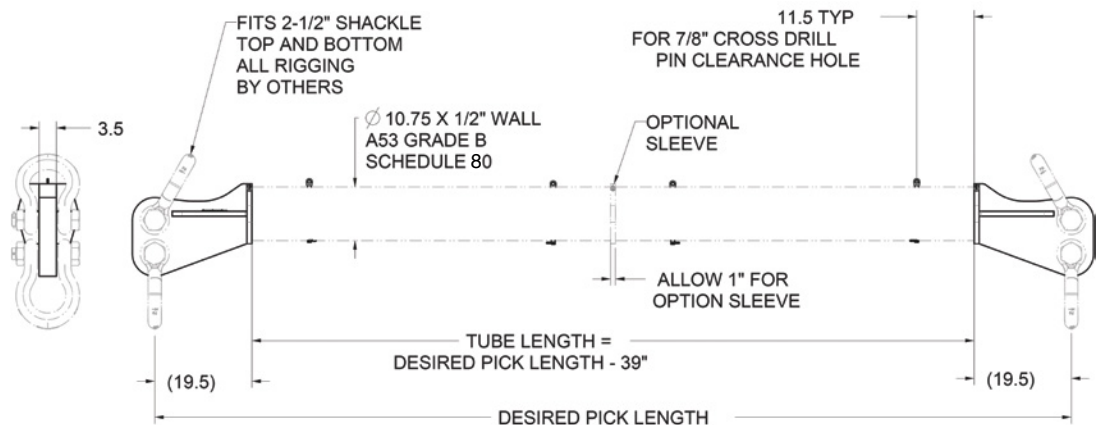
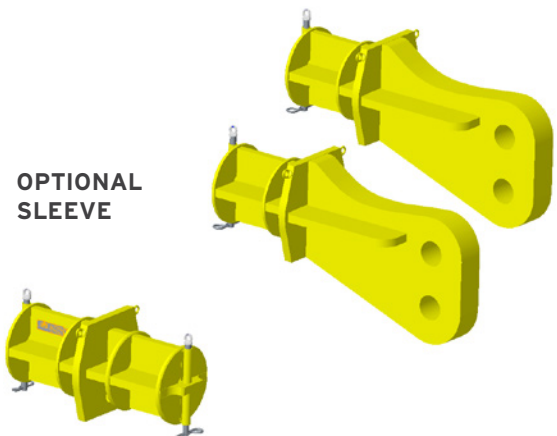
CUSTOM SPREADER BEAM HD END CAP KITS

- 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 100

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 ATTACHMENTS

Forklift Pocket Lifters

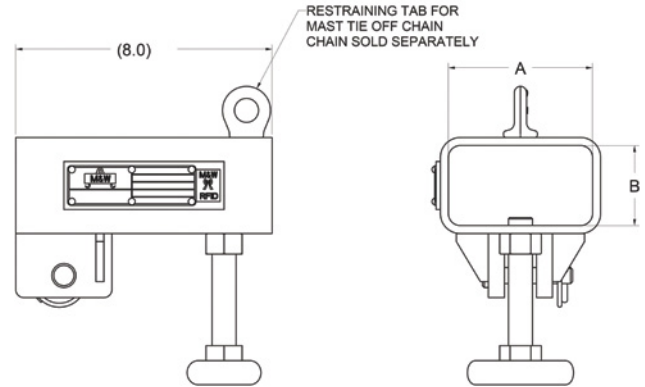
FORKLIFT POCKET LIFTERS

- 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 100

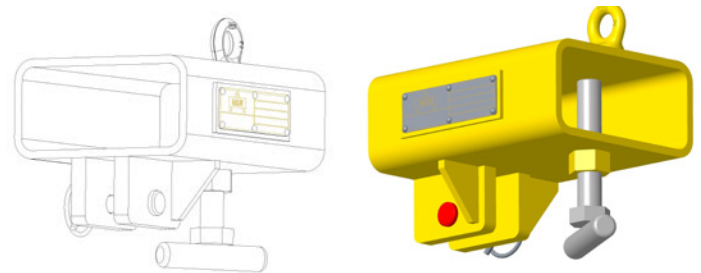
Working Load Limit in Pounds*	Part Number	A	B	Fork Width	Weight
3,000	11606	4.5	2.5	4	12
3,000	11607	5.5	2.5	5	13
3,000	11608	6.5	2.5	6	14
3,000	15427	7.5	2.5	7	15
5,000	14259	4.5	2.5	4	16
5,000	14250	5.5	2.5	5	18
5,000	14262	6.5	2.5	6	20
7,000	15764	6.5	2.5	6	35
7,000	16642	7.5	3.5	7	40
7,000	16643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

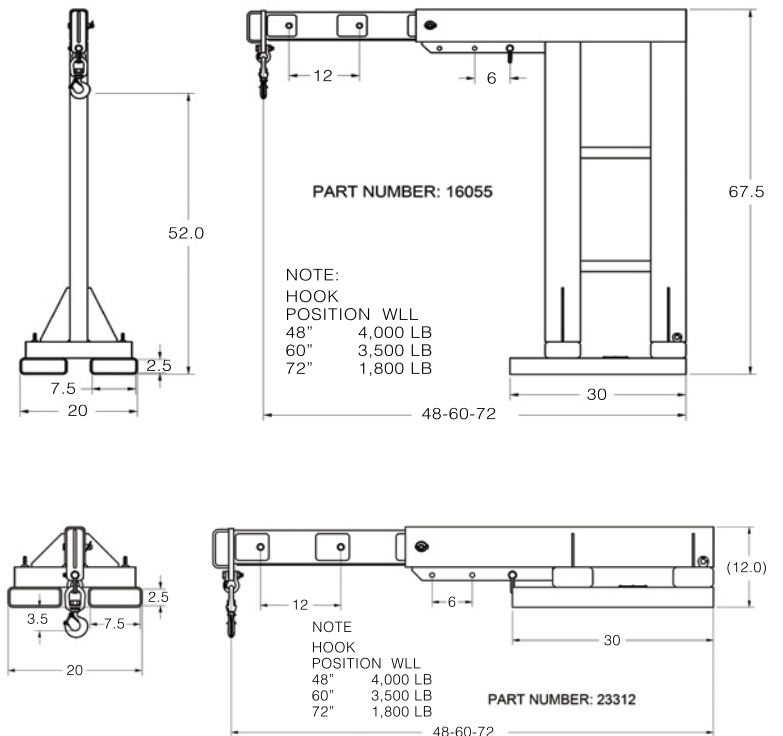
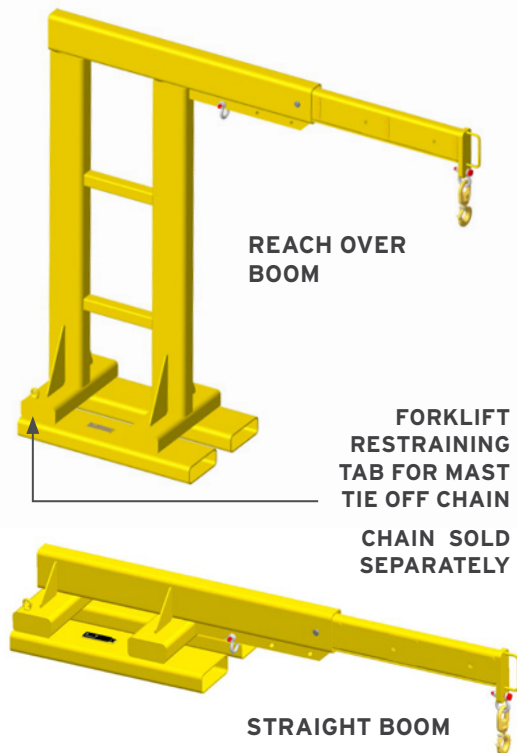
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** forklift attachments proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Check with manufacturer of your forklift 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 100

	Part Number	A	Weight
Reach Over Boom	16055	67.3	375
Straight Boom	23312	12.0	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

FORKLIFT ATTACHMENTS

Trailer Spotter

TRAILER SPOTTER

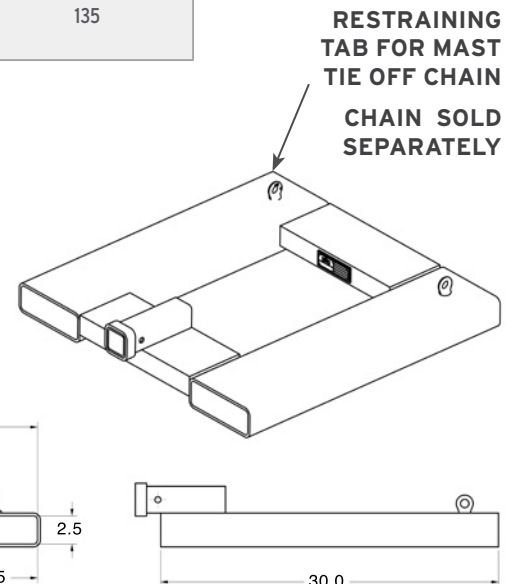
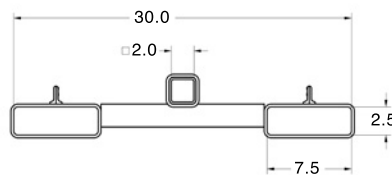
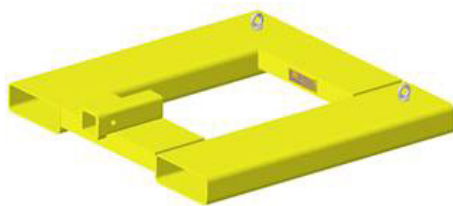
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** forklift attachments proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Easily moves trailers.
- Check with 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 100

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




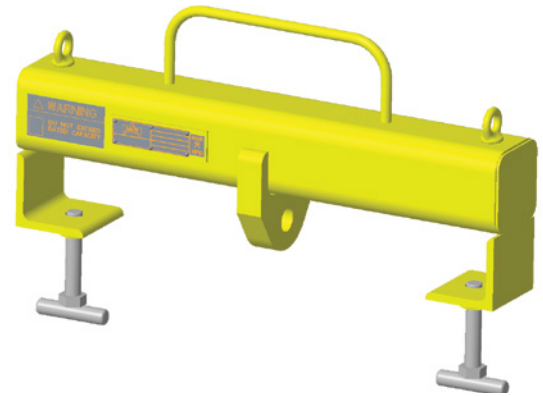
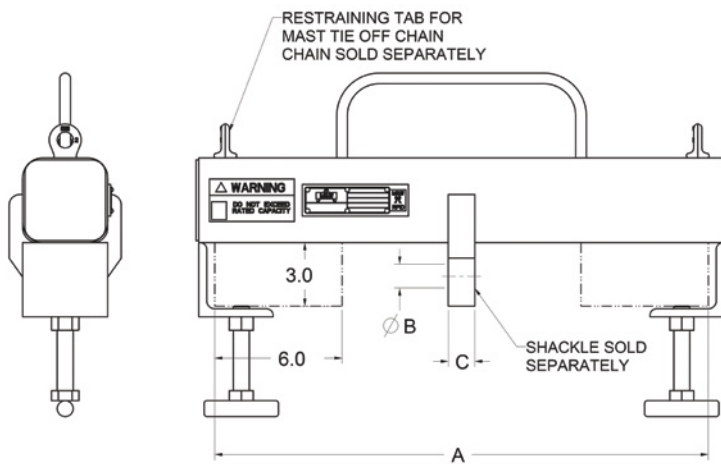
WARNING: M&W fork beams, fork booms, fork pockets and other lift attachments are modifications or additions that affect capacity and/or safe operation of forklifts (powered industrial trucks) and shall not be used without prior written approval from the forklift manufacturer. Capacity, Operation, Maintenance 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 100



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

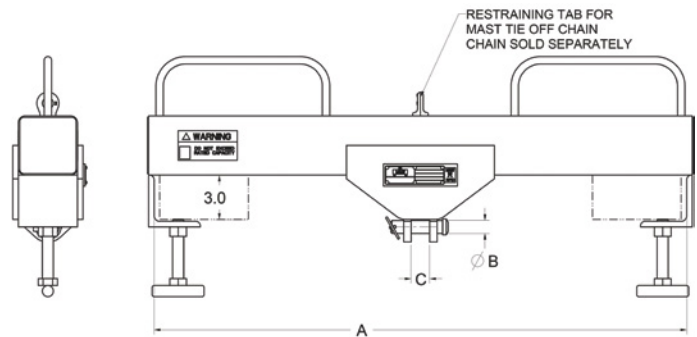
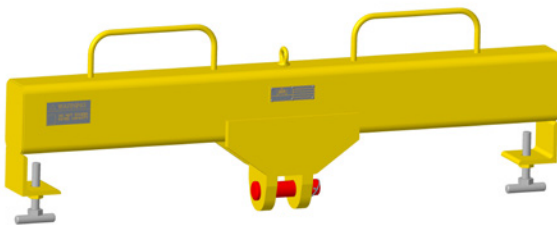
FORKLIFT ATTACHMENTS

Forklift Lifting Beam Inside Pin Mount

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 100



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

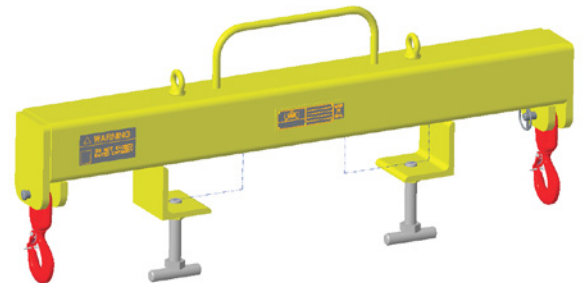
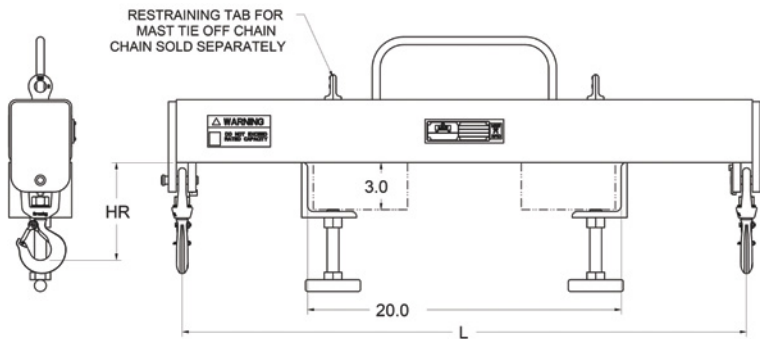
WARNING: M&W fork beams, fork booms, fork pockets and other lift attachments are modifications or additions that affect capacity and/or safe operation of forklifts (powered industrial trucks) and shall not be used without prior written approval from the forklift manufacturer. Capacity, Operation, Maintenance 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 100



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

LIFTING HOOKS

Alloy Steel J-Hooks

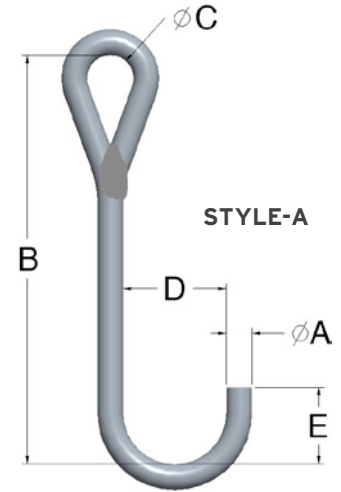
Eye Style A



LIFTING HOOKS : ALLOY STEEL J-HOOKS EYE STYLE A

- $\pm 4\%$ 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 100




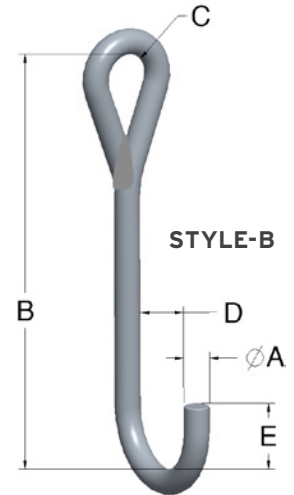
Material Diameter in Inches*	Part Number C = D = E =	Standard Alloy Style A Steel J-Hooks - B (length)							
		5"	6"	7"	8"	9"	10"	12"	14"
1/4 WLL= 100 Pounds	Part Number C = D = E =	11621-5 1.00 1.25 0.87	11621-6 1.00 1.25 0.87	11621-7 1.00 1.25 0.87	11621-8 1.00 1.25 0.87	11621-9 1.00 1.25 0.87	11621-10 1.00 1.25 0.87	11621-12 1.00 1.25 0.87	11621-14 1.00 1.25 0.87
5/16 WLL= 250 Pounds	Part Number C = D = E =	11622-5 1.00 1.25 0.87	11622-6 1.00 1.25 0.87	11622-7 1.00 1.25 0.87	11622-8 1.00 1.25 0.87	11622-9 1.00 1.25 0.87	11622-10 1.00 1.25 0.87	11622-12 1.00 1.25 0.87	11622-14 1.00 1.25 0.87
3/8 WLL= 365 Pounds	Part Number C = D = E =	11623-5 1.00 1.50 1.12	11623-6 1.00 1.50 1.12	11623-7 1.00 1.50 1.12	11623-8 1.00 1.50 1.12	11623-9 1.00 1.50 1.12	11623-10 1.00 1.50 1.12	11623-12 1.00 1.50 1.12	11623-14 1.00 1.50 1.12
1/2 WLL= 650 Pounds	Part Number C = D = E =	11624-5 1.00 2.00 1.50	11624-6 1.00 2.00 1.50	11624-7 1.00 2.00 1.50	11624-8 1.00 2.00 1.50	11624-9 1.00 2.00 1.50	11624-10 1.00 2.00 1.50	11624-12 1.00 2.00 1.50	11624-14 1.00 2.00 1.50
5/8 WLL= 1,000 Pounds	Part Number C = D = E =	11625-5 1.00 2.50 1.87	11625-6 1.00 2.50 1.87	11625-7 1.00 2.50 1.87	11625-8 1.00 2.50 1.87	11625-9 1.00 2.50 1.87	11625-10 1.00 2.50 1.87	11625-12 1.00 2.50 1.87	11625-14 1.00 2.50 1.87
3/4 WLL= 1,450 Pounds	Part Number C = D = E =		11626-6 1.00 3.00 2.25	11626-7 1.00 3.00 2.25	11626-8 1.00 3.00 2.25	11626-9 1.00 3.00 2.25	11626-10 1.00 3.00 2.25	11626-12 1.00 3.00 2.25	11626-14 1.00 3.00 2.25
7/8 WLL= 1,900 Pounds	Part Number C = D = E =				11627-8 1.00 3.50 2.62	11627-9 1.00 3.50 2.62	11627-10 1.00 3.50 2.62	11627-12 1.00 3.50 2.62	11627-14 1.00 3.50 2.62
1" WLL= 2,600 Pounds	Part Number C = D = E =						11628-10 1.25 4.00 3.00	11628-12 1.25 4.00 3.00	11628-14 1.25 4.00 3.00

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

LIFTING HOOKS : ALLOY STEEL J-HOOKS EYE STYLE B

- $\pm 4\%$ 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 100



Material Diameter in Inches*	Part Number C = D = E =	Standard Alloy Style B Steel J-Hooks - B (length)						
		6"	7"	8"	9"	10"	12"	14"
1/4 WLL= 100 Pounds	Part Number C = D = E =	11637-6 1.00 1.25 0.87	11637-7 1.00 1.25 0.87	11637-8 1.00 1.25 0.87	11637-9 1.00 1.25 0.87	11637-10 1.00 1.25 0.87	11637-12 1.00 1.25 0.87	11637-14 1.00 1.25 0.87
5/16 WLL= 250 Pounds	Part Number C = D = E =	11638-6 1.00 1.25 0.87	11638-7 1.00 1.25 0.87	11638-8 1.00 1.25 0.87	11638-9 1.00 1.25 0.87	11638-10 1.00 1.25 0.87	11638-12 1.00 1.25 0.87	11638-14 1.00 1.25 0.87
3/8 WLL= 365 Pounds	Part Number C = D = E =	11639-6 1.00 1.50 1.12	11639-7 1.00 1.50 1.12	11639-8 1.00 1.50 1.12	11639-9 1.00 1.50 1.12	11639-10 1.00 1.50 1.12	11639-12 1.00 1.50 1.12	11639-14 1.00 1.50 1.12
1/2 WLL= 650 Pounds	Part Number C = D = E =	11640-6 1.00 2.00 1.50	11640-7 1.00 2.00 1.50	11640-8 1.00 2.00 1.50	11640-9 1.00 2.00 1.50	11640-10 1.00 2.00 1.50	11640-12 1.00 2.00 1.50	11640-14 1.00 2.00 1.50
5/8 WLL= 1,000 Pounds	Part Number C = D = E =	11641-6 1.00 2.50 1.87	11641-7 1.00 2.50 1.87	11641-8 1.00 2.50 1.87	11641-9 1.00 2.50 1.87	11641-10 1.00 2.50 1.87	11641-12 1.00 2.50 1.87	11641-14 1.00 2.50 1.87
3/4 WLL= 1,450 Pounds	Part Number C = D = E =	11642-6 1.00 3.00 2.25	11642-7 1.00 3.00 2.25	11642-8 1.00 3.00 2.25	11642-9 1.00 3.00 2.25	11642-10 1.00 3.00 2.25	11642-12 1.00 3.00 2.25	11642-14 1.00 3.00 2.25
7/8 WLL= 1,900 Pounds	Part Number C = D = E =			11643-8 1.00 3.50 2.62	11643-9 1.00 3.50 2.62	11643-10 1.00 3.50 2.62	11643-12 1.00 3.50 2.62	11643-14 1.00 3.50 2.62
1" WLL= 2,600 Pounds	Part Number C = D = E =					11644-10 1.25 4.00 3.00	11644-12 1.25 4.00 3.00	11644-14 1.25 4.00 3.00

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

LIFTING HOOKS

Alloy Steel J-Hooks

Eye Style C

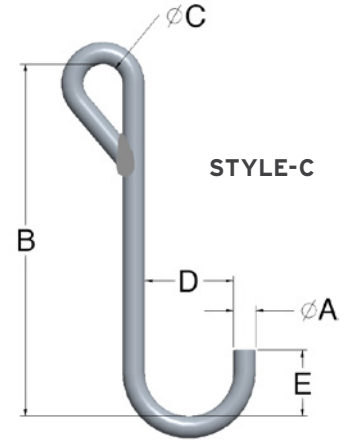


LIFTING HOOKS : ALLOY STEEL J-HOOKS EYE STYLE C

- $\pm 4\%$ 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 100




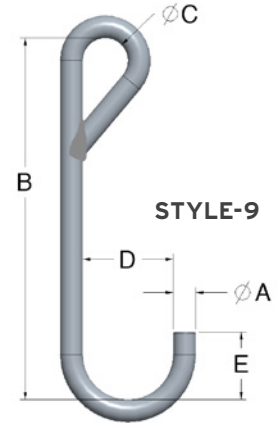
Material Diameter in Inches*	Part Number C = D = E =	Standard Alloy Style C Steel J-Hooks - B (length)							
		5"	6"	7"	8"	9"	10"	12"	14"
1/4 WLL= 100 Pounds	Part Number C = D = E =	11653-5 1.00 1.25 0.87	11653-6 1.00 1.25 0.87	11653-7 1.00 1.25 0.87	11653-8 1.00 1.25 0.87	11653-9 1.00 1.25 0.87	11653-10 1.00 1.25 0.87	11653-12 1.00 1.25 0.87	11653-14 1.00 1.25 0.87
5/16 WLL= 250 Pounds	Part Number C = D = E =	11654-5 1.00 1.25 0.87	11654-6 1.00 1.25 0.87	11654-7 1.00 1.25 0.87	11654-8 1.00 1.25 0.87	11654-9 1.00 1.25 0.87	11654-10 1.00 1.25 0.87	11654-12 1.00 1.25 0.87	11654-14 1.00 1.25 0.87
3/8 WLL= 365 Pounds	Part Number C = D = E =	11655-5 1.00 1.50 1.12	11655-6 1.00 1.50 1.12	11655-7 1.00 1.50 1.12	11655-8 1.00 1.50 1.12	11655-9 1.00 1.50 1.12	11655-10 1.00 1.50 1.12	11655-12 1.00 1.50 1.12	11655-14 1.00 1.50 1.12
1/2 WLL= 650 Pounds	Part Number C = D = E =	11656-5 1.00 2.00 1.50	11656-6 1.00 2.00 1.50	11656-7 1.00 2.00 1.50	11656-8 1.00 2.00 1.50	11656-9 1.00 2.00 1.50	11656-10 1.00 2.00 1.50	11656-12 1.00 2.00 1.50	11656-14 1.00 2.00 1.50
5/8 WLL= 1,000 Pounds	Part Number C = D = E =	11657-5 1.00 2.50 1.87	11657-6 1.00 2.50 1.87	11657-7 1.00 2.50 1.87	11657-8 1.00 2.50 1.87	11657-9 1.00 2.50 1.87	11657-10 1.00 2.50 1.87	11657-12 1.00 2.50 1.87	11657-14 1.00 2.50 1.87
3/4 WLL= 1,450 Pounds	Part Number C = D = E =		11658-6 1.00 3.00 2.25	11658-7 1.00 3.00 2.25	11658-8 1.00 3.00 2.25	11658-9 1.00 3.00 2.25	11658-10 1.00 3.00 2.25	11658-12 1.00 3.00 2.25	11658-14 1.00 3.00 2.25
7/8 WLL= 1,900 Pounds	Part Number C = D = E =				11659-8 1.00 3.50 2.62	11659-9 1.00 3.50 2.62	11659-10 1.00 3.50 2.62	11659-12 1.00 3.50 2.62	11659-14 1.00 3.50 2.62
1" WLL= 2,600 Pounds	Part Number C = D = E =						11660-10 1.25 4.00 3.00	11660-12 1.25 4.00 3.00	11660-14 1.25 4.00 3.00

*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 100



Material Diameter in Inches*	Part Number C = D = E =	Standard Alloy Style 9 Steel J-Hooks - B (length)							
		5"	6"	7"	8"	9"	10"	12"	14"
1/4 WLL= 100 Pounds	Part Number C = D = E =	19475-5 1.00 1.25 0.87	19475-6 1.00 1.25 0.87	19475-7 1.00 1.25 0.87	19475-8 1.00 1.25 0.87	19475-9 1.00 1.25 0.87	19475-10 1.00 1.25 0.87	19475-12 1.00 1.25 0.87	19475-14 1.00 1.25 0.87
5/16 WLL= 250 Pounds	Part Number C = D = E =	19476-5 1.00 1.25 0.87	19476-6 1.00 1.25 0.87	19476-7 1.00 1.25 0.87	19476-8 1.00 1.25 0.87	19476-9 1.00 1.25 0.87	19476-10 1.00 1.25 0.87	19476-12 1.00 1.25 0.87	19476-14 1.00 1.25 0.87
3/8 WLL= 365 Pounds	Part Number C = D = E =	19477-5 1.00 1.50 1.12	19477-6 1.00 1.50 1.12	19477-7 1.00 1.50 1.12	19477-8 1.00 1.50 1.12	19477-9 1.00 1.50 1.12	19477-10 1.00 1.50 1.12	19477-12 1.00 1.50 1.12	19477-14 1.00 1.50 1.12
1/2 WLL= 650 Pounds	Part Number C = D = E =	19478-5 1.00 2.00 1.50	19478-6 1.00 2.00 1.50	19478-7 1.00 2.00 1.50	19478-8 1.00 2.00 1.50	19478-9 1.00 2.00 1.50	19478-10 1.00 2.00 1.50	19478-12 1.00 2.00 1.50	19478-14 1.00 2.00 1.50
5/8 WLL= 1,000 Pounds	Part Number C = D = E =	19479-5 1.00 2.50 1.87	19479-6 1.00 2.50 1.87	19479-7 1.00 2.50 1.87	19479-8 1.00 2.50 1.87	19479-9 1.00 2.50 1.87	19479-10 1.00 2.50 1.87	19479-12 1.00 2.50 1.87	19479-14 1.00 2.50 1.87
3/4 WLL= 1,450 Pounds	Part Number C = D = E =		19480-6 1.00 3.00 2.25	19480-7 1.00 3.00 2.25	19480-8 1.00 3.00 2.25	19480-9 1.00 3.00 2.25	19480-10 1.00 3.00 2.25	19480-12 1.00 3.00 2.25	19480-14 1.00 3.00 2.25
7/8 WLL= 1,900 Pounds	Part Number C = D = E =				19481-8 1.00 3.50 2.62	19481-9 1.00 3.50 2.62	19481-10 1.00 3.50 2.62	19481-12 1.00 3.50 2.62	19481-14 1.00 3.50 2.62
1" WLL= 2,600 Pounds	Part Number C = D = E =						19482-10 1.25 4.00 3.00	19482-12 1.25 4.00 3.00	19482-14 1.25 4.00 3.00

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

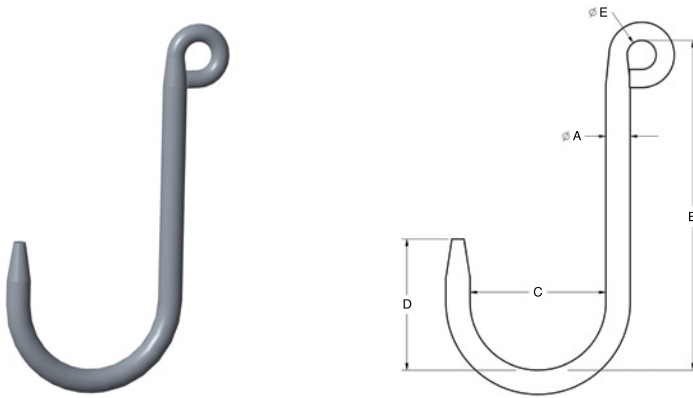
LIFTING HOOKS

Alloy Steel Foundry Hooks

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.**
- $\pm 4\%$ on dimensions.
- Custom designs available - call for engineering.
- All eyes welded unless otherwise specified.

 Prop 65 – See Page 100



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

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


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

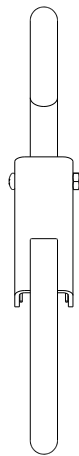
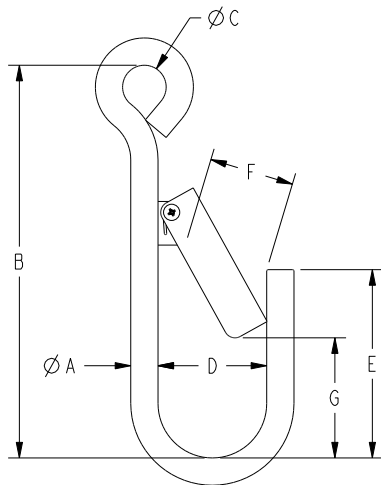
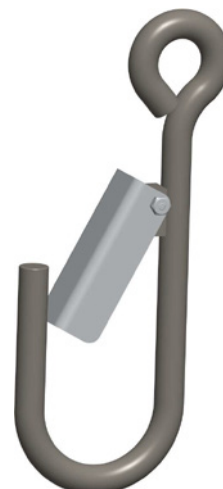
*Larger capacities and custom configurations available. Please call for ordering assistance.

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.
- $\pm 4\%$ on dimensions.

- All eyes welded unless otherwise specified.
- **Maximum use temperature is 400° F.**

 Prop 65 – See Page 100


STYLE B
STYLE A


Material Diameter in Inches*	Style A Part Number	Style B Part Number	Standard Alloy Steel J-Hooks							Latch	Working Load Limit in Pounds*
			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	1096325	125
5/16	16016	17596	0.32	5.00	1.00	1.25	2.00	0.80	1.2	1096421	250
3/8	14924	17611	0.38	6.00	1.00	1.50	2.38	0.96	1.3	29380	365
1/2	14767	17612	0.50	8.00	1.00	2.00	3.13	1.50	1.7	29381	650
5/8	14930	17613	0.62	9.00	1.00	2.50	4.32	1.76	2.5	23888	1,000
3/4	16383	17614	0.75	10.00	1.25	3.00	5.25	2.21	3.0	23889	1,435
7/8	16384	17615	0.88	12.00	1.25	3.50	6.25	2.57	3.5	23890	1,900
1	16385	17616	1.00	14.00	1.25	4.50	8.25	3.70	4.5	23891	2,300

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

LIFTING HOOKS

Alloy Steel S-Hooks

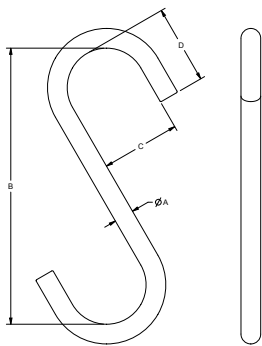
Style A, B and C



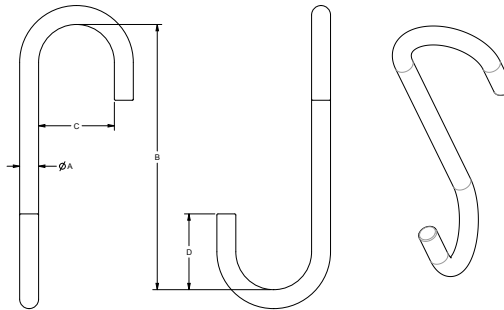
LIFTING HOOKS : ALLOY STEEL S-HOOKS

- 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.

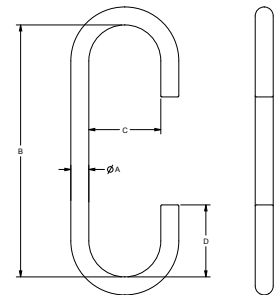
 Prop 65 – See Page 100



STYLE A



STYLE B




STYLE C

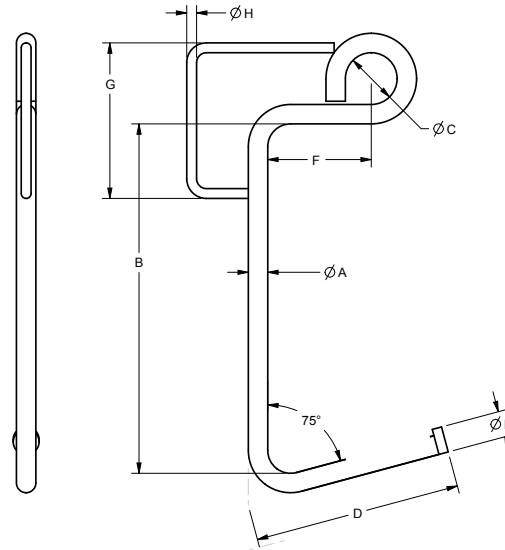
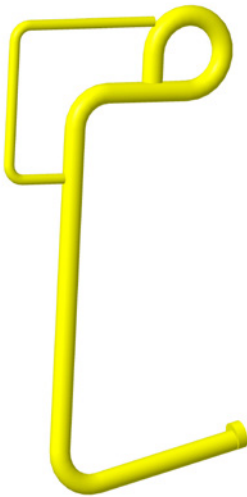
Material Diameter in Inches*	Part Number			Standard Alloy Steel S-Hooks					Working Load Limit in Pounds*
	Style A	Style B	Style C	A	B	C	D	Weight	
1/4	14189	14198	14207	0.25	5.00	1.25	1.25	0.1	100
5/16	14190	14199	14208	0.31	5.00	1.25	1.25	0.1	250
3/8	14191	14200	14209	0.38	6.00	1.50	1.50	0.3	365
1/2	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.
- $\pm 4\%$ 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 100



Material Diameter 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.

LIFTING HOOKS

Reel Lifting Hook

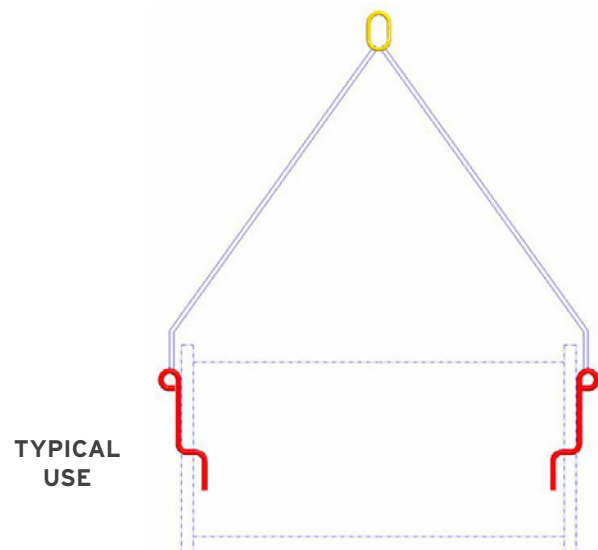
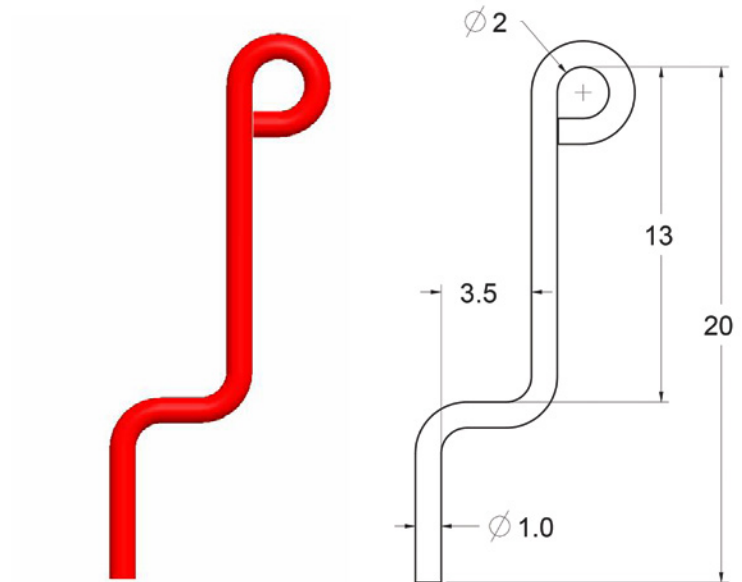
REEL LIFTING HOOK

- 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.
- $\pm 4\%$ on dimensions.

 Prop 65 – See Page 100


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

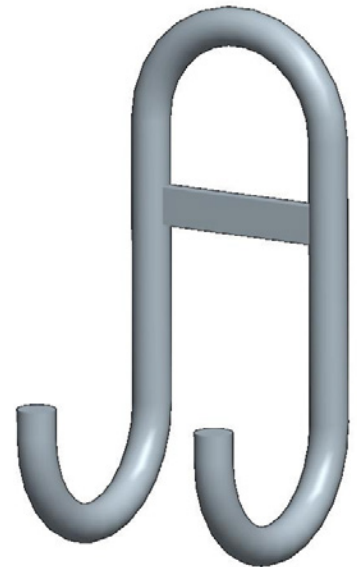
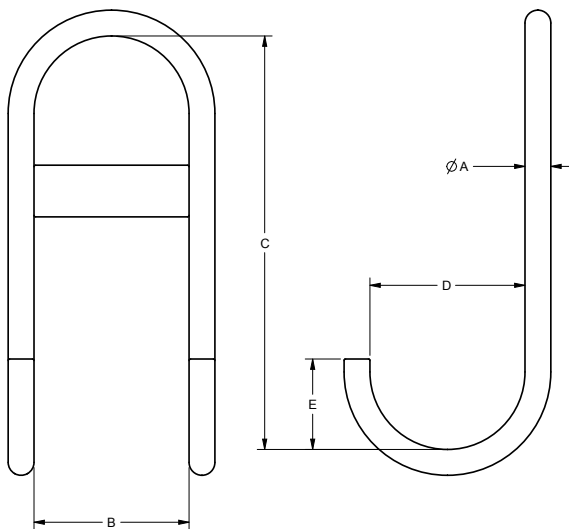
- 3,000 pound Working Load Limit per hook.
- 6,000 pound Working Load Limit at 60 degrees when used in pairs.
- 1" diameter hook fits most any reel opening.
- Hook design permits almost universal use no matter the reel size or configuration.
- Shown on 2-leg bridle sling.
- Optional 2-leg bridle sling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



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.
- $\pm 4\%$ on dimensions.
- Custom designs available - call for engineering.
- **Maximum use temperature is 400° F.**

 Prop 65 – See Page 100



Material Diameter 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.

LIFTING HOOKS


Plate Lifting Hooks

For use with Grade 80 or Grade 100 Chain Slings



PLATE LIFTING HOOKS

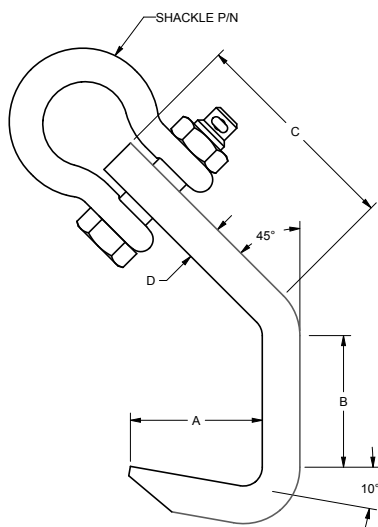
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Powder coat painted safety red for increased visibility.
- **ALL** plate hooks shipped with proof load certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- Custom designs available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

 Prop 65 – See Page 100

Working Load Limit in Pounds*	Part Number	Grade 100 Chain Size	A	B	C	D	E	F	G	Weight	Shackle Part Number
4,300	11721	9/32"	2.00	1.75	2.50	0.63	3.45	0.83	2.50	3	M850P
8,800	11722	3/8"	2.63	3.00	4.31	0.75	5.92	0.95	3.00	6	M851P
15,000	11723	1/2"	3.50	4.00	4.38	1.00	6.93	1.21	3.50	13	M853P
22,600	18866	5/8"	4.38	5.00	5.44	1.25	8.66	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.**

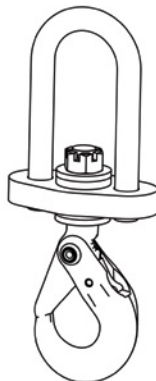
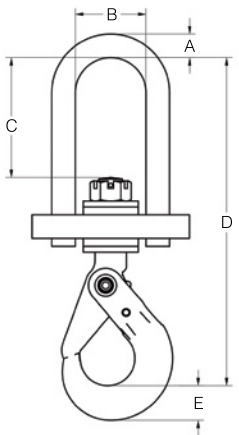
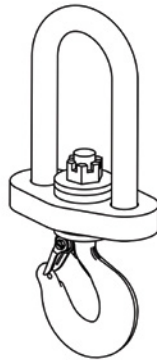
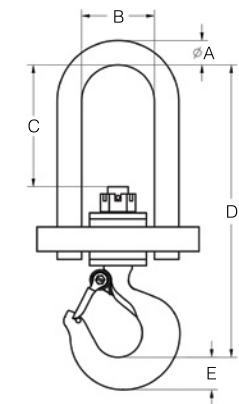


INSULATED SWIVEL HOOKS

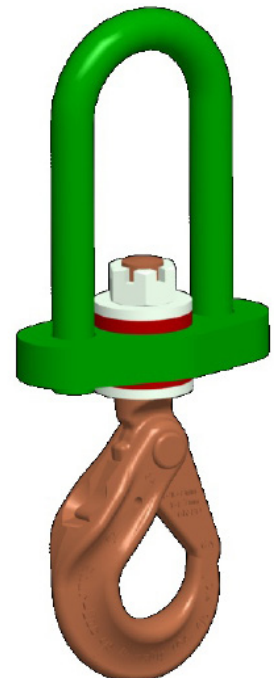
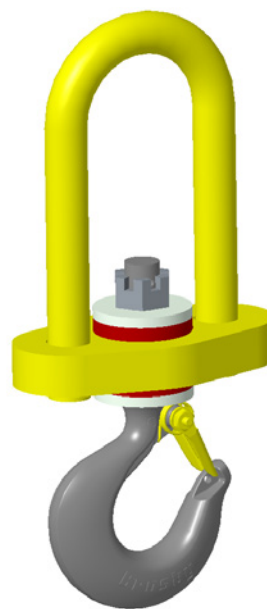
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- **ALL** Lifting Hooks proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- All dimensions in inches unless otherwise noted.
- Electrically insulated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

 Prop 65 – See Page 100

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

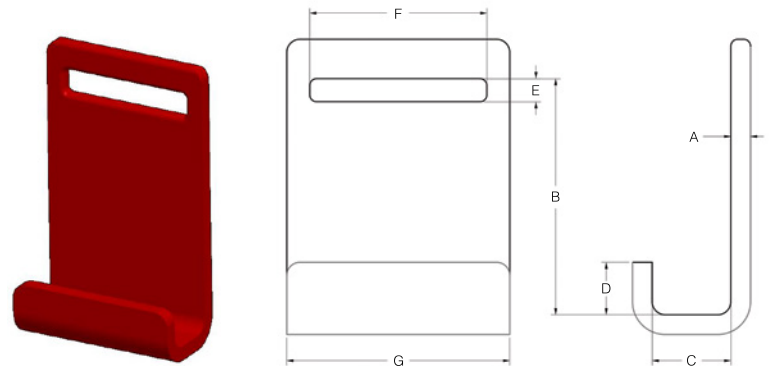
LIFTING HOOKS : ALLOY STEEL FLAT HOOKS

- 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 100

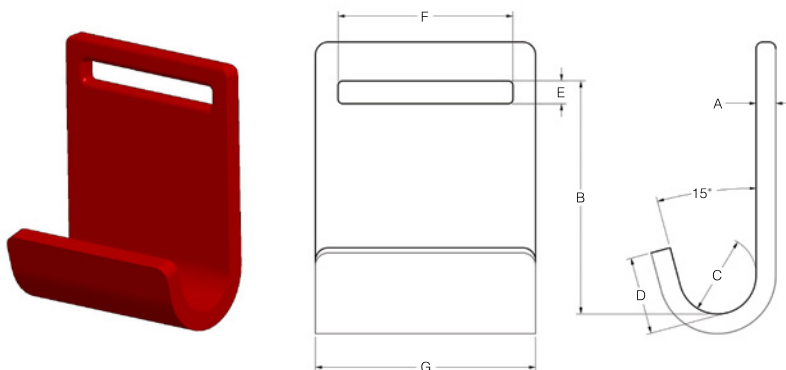
Style A*	Part Number	A	B	C	D	E	F	G	Weight	Working Load Limit in Pounds*
1/4	16397	0.25	4.25	1.00	0.75	0.44	2.38	3.00	1.4	3,200
3/8	16398	0.38	4.50	1.50	1.00	0.44	3.38	4.25	3.4	4,800
1/2	16399	0.50	4.75	1.75	1.25	0.44	4.38	5.25	6.2	6,400

*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.



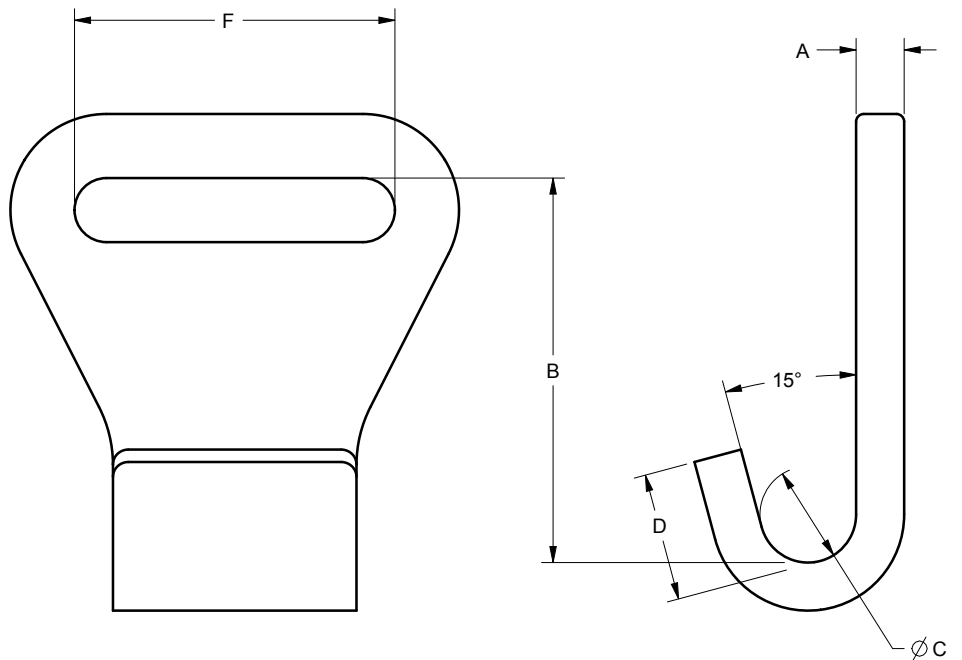
LIFTING HOOKS : ALLOY STEEL FLAT HOOKS

- 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 100

	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



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.

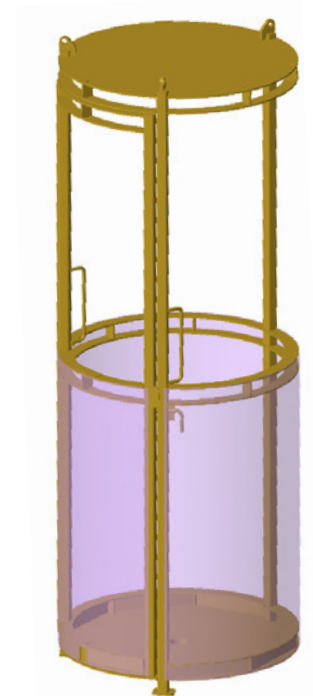
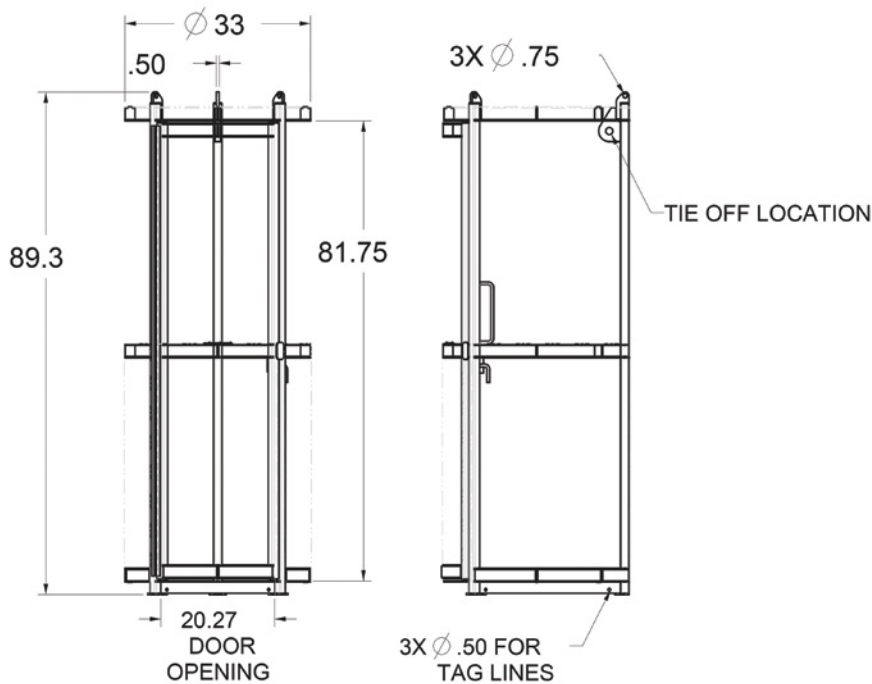
PAINT LINE J-HOOK REMOVAL CRITERIA

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.

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 100



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

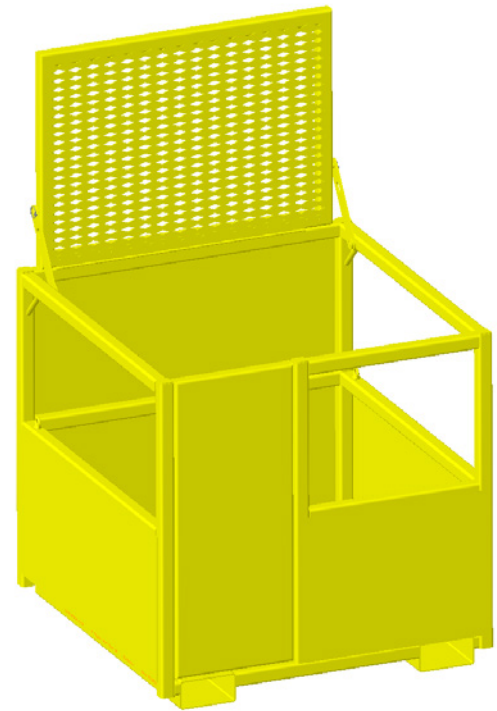
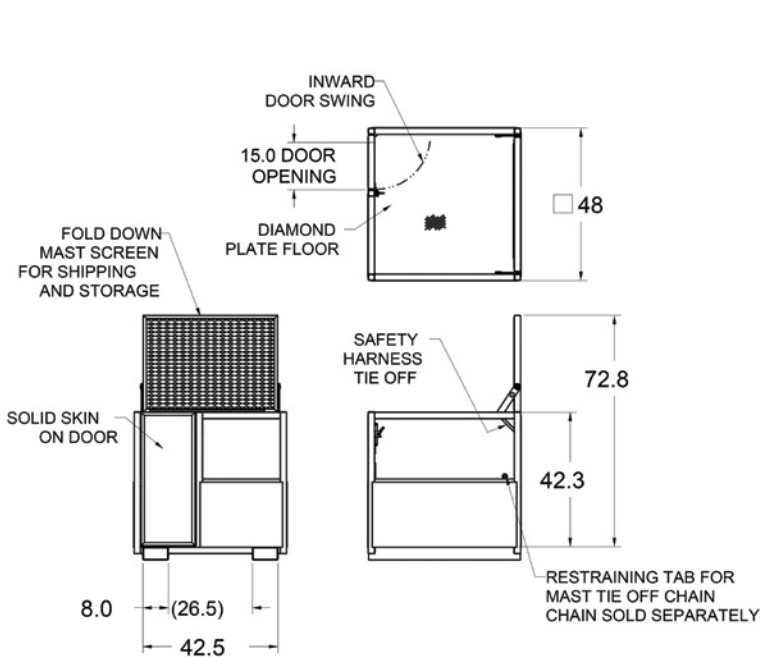
PERSONNEL BASKET

Heavy Duty Fork Personnel Basket

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 100



OPTIONAL MAST TIE OFF CHAIN:

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

Part Number	
20410	Mast Tie Off Chain - 8' Long


SUSPENDED PERSONNEL BASKET

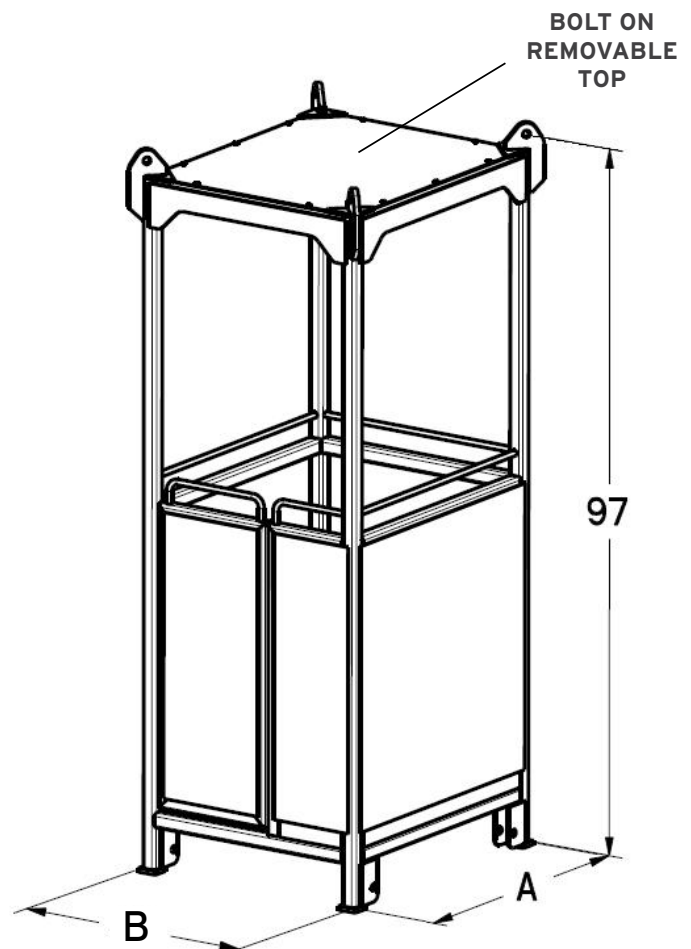
with optional Test Weight and Suspension Rigging

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 100




PERSONNEL BASKET

with optional Test Weight and Suspension Rigging

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 100



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

Capacity in Pounds*	Basket Part Number	Max # of People	Weight	Size A x B	OPTIONAL EQUIPMENT		
					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

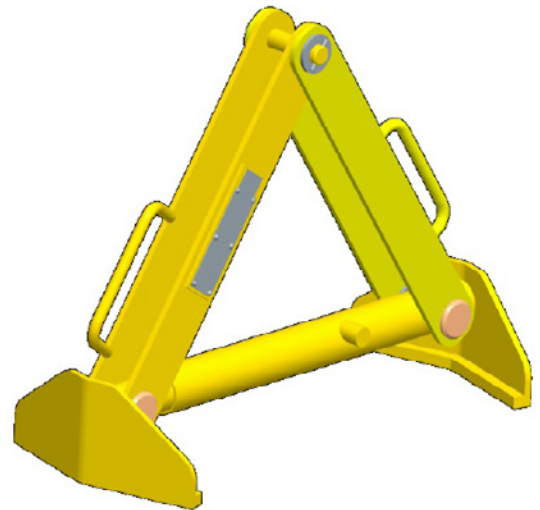
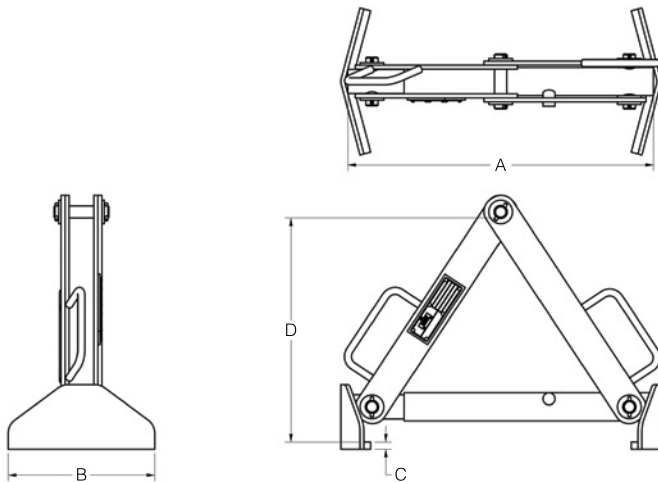
BARREL / BUCKET LIFTER

- 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 100

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, DRUM & BUCKET LIFTING

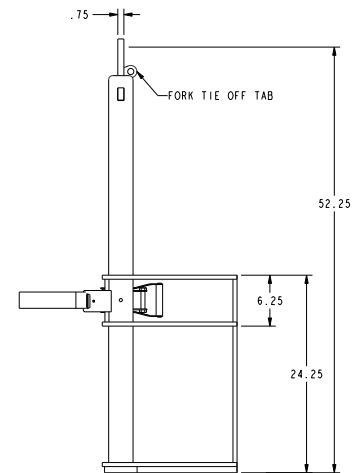
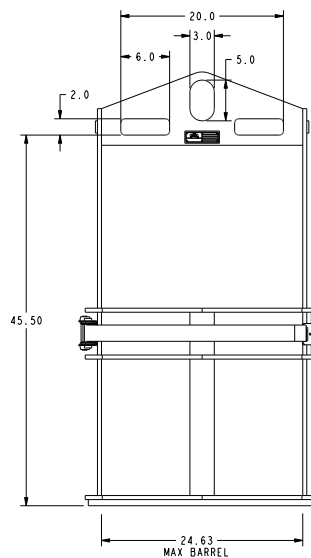
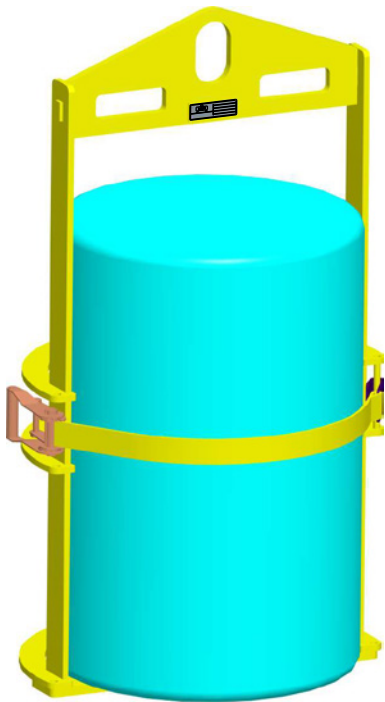
Barrel Lifter



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 100




PART NUMBER 23589

1,000 LB Capacity

Weight = 160

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.

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PART NUMBER: 21096

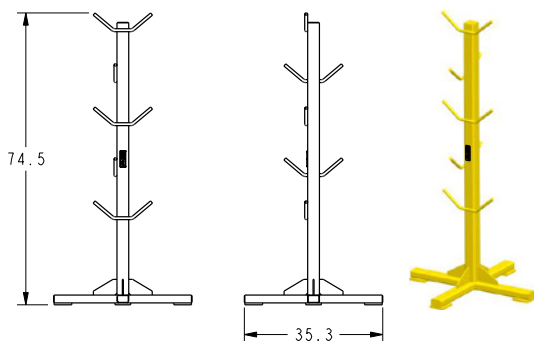
500 LB WLL Bucket Not Included



RIGGING RACKS

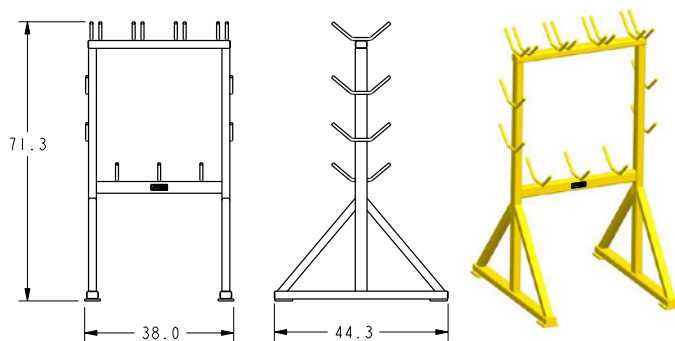
- Stands commonly used to organize and hang rigging, shackles & other slings off the floor

 Prop 65 – See Page 100



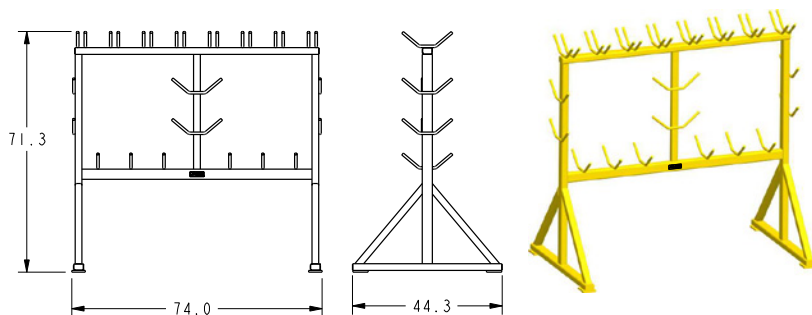
PART NUMBER
23573

300 LB Capacity
Weight = 125



PART NUMBER
23568

500 LB Capacity
Weight = 260

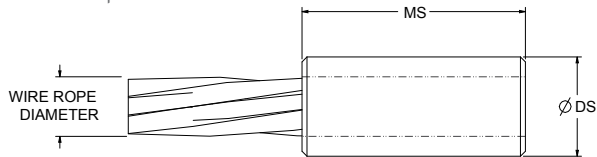


PART
NUMBER
23557

800 LB Capacity
Weight = 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.

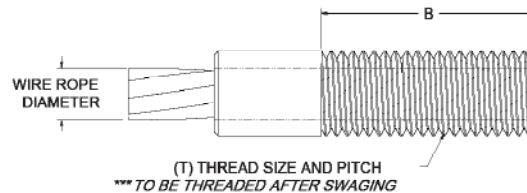


Part Number*	Wire Rope Diameter	DS	MS (approx)	Chamfer
MWSA157-02	1/16"	1/4"	3/8"	1/32 X 45°
MWSA157-03	3/32"	5/16"	1/2"	1/32 X 45°
MWSA157-04	1/8"	3/8"	5/8"	1/32 X 45°
MWSA157-05	5/32"	7/16"	3/4"	1/32 X 45°
MWSA157-06	3/16"	1/2"	7/8"	1/32 X 45°
MWSA157-07	7/32"	9/16"	1"	3/64 X 45°
MWSA157-08	1/4"	5/8"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

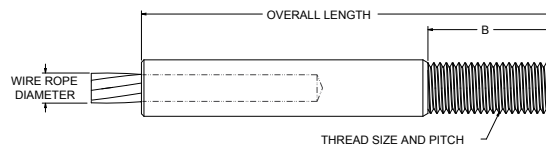
Mild carbon steel construction. NC thread pitch furnished as standard; NF thread pitch available. Right hand threads standard; left hand available. Wrench grips available per customer request. Metric sizes available.



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



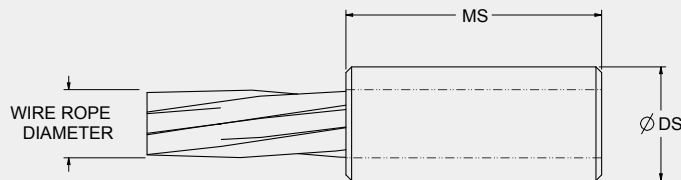
Prop 65 –
See Page 100

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

WIRE ROPE TERMINATIONS

Wire Rope Ferrules

1/4" to 7/16" Wire Rope Diameter



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 100

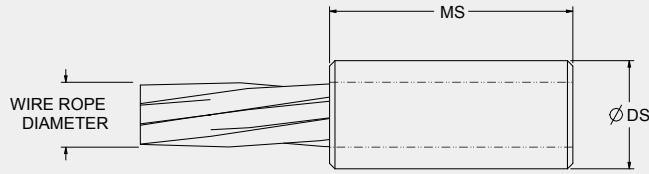
Part Number*	Wire Rope Diameter	DS After Swage Dim Min	DS After Swage Dim	DS After Swage Dim Max	MS (approx)	Weight Each
WR-10400-X	1/4"	0.49	0.50	0.51	1.03	0.04
WR-10401-X	1/4"	0.49	0.50	0.51	1.125	0.06
WR-10402-X	1/4"	0.49	0.50	0.51	1.25	0.04
WR-10403-X	1/4"	0.49	0.50	0.51	1.50	0.06
WR-10404-X	1/4"	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.

WIRE ROPE TERMINATIONS

Wire Rope Ferrules
1/2" to 1-1/2" Wire Rope Diameter



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.

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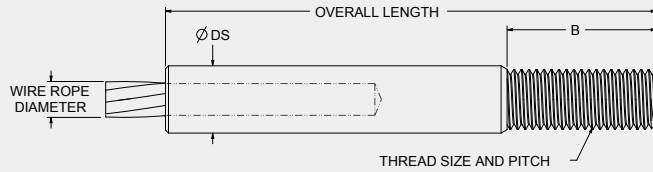
Part Number*	Wire Rope Diameter	DS After Swage Dim Min	DS After Swage Dim	DS After Swage Dim Max	MS (approx)	Weight Each
WR-10438-X	1/2"	0.98	1.00	1.03	2.00	0.34
WR-10439-X	1/2"	0.98	1.00	1.02	1.75	0.33
WR-10440-X	1/2"	1.105	1.125	1.16	2.00	0.50
WR-10441-X	1/2"	1.23	1.25	1.27	1.25	0.40
WR-10442-X	1/2"	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.

WIRE ROPE TERMINATIONS

Wire Rope Threaded Stud Ends
1/4" to 1-1/2" Wire Rope Diameter



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.

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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	7/8-14	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.

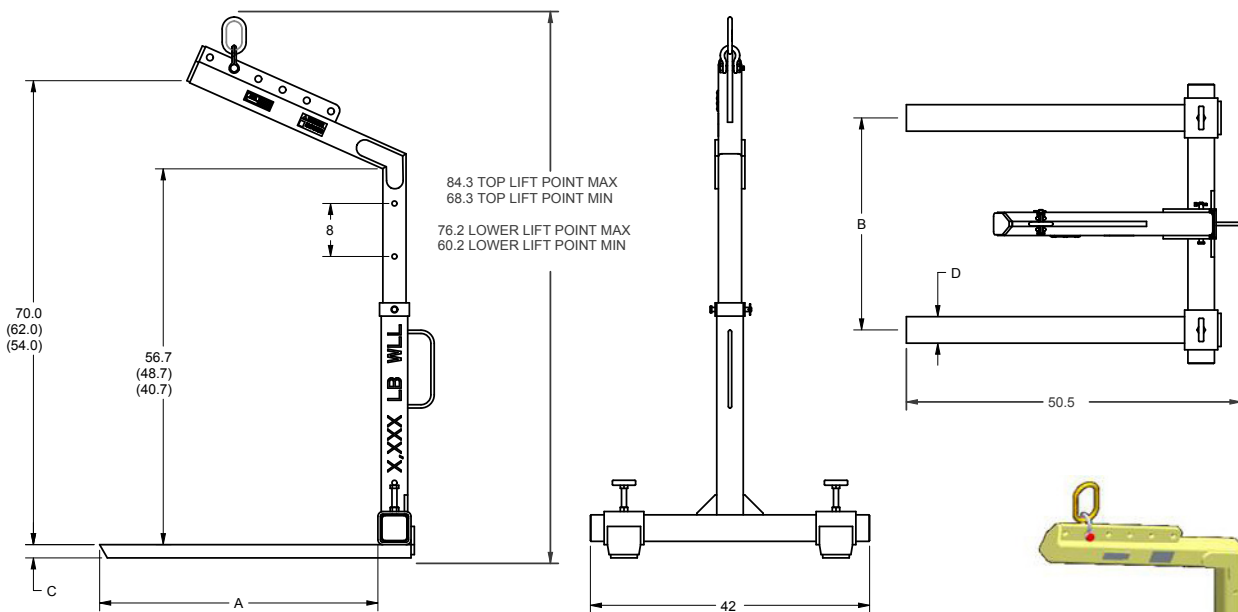
For example, **WR-10471-M-C-R** would be a threaded stud end for 1/4" wire rope made out of mild carbon steel with coarse right-hand threads and no wrench flats.

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.

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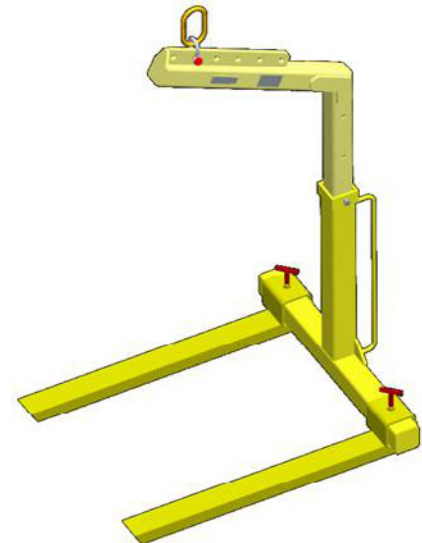


Working Load Limit in Pounds*	Part Number	A	B	C	D	Weight in Pounds
4,000	12412	42	17 to 36	2	4	400

* 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

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.

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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

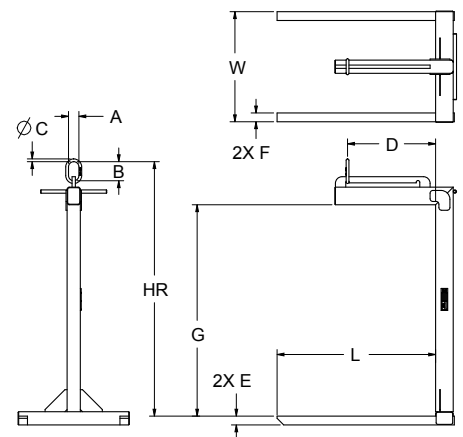
**** FOR A LEVEL LIFT, THE CENTER LIFTING BAIL MUST BE OVER THE LOADS CENTER OF GRAVITY**



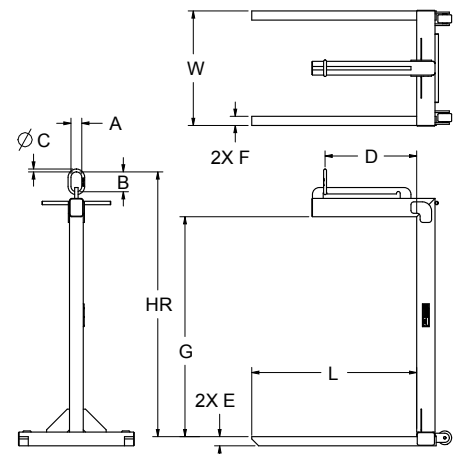
Converts crane or hoist into aerial forklift.

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




Converts crane or hoist into aerial forklift.



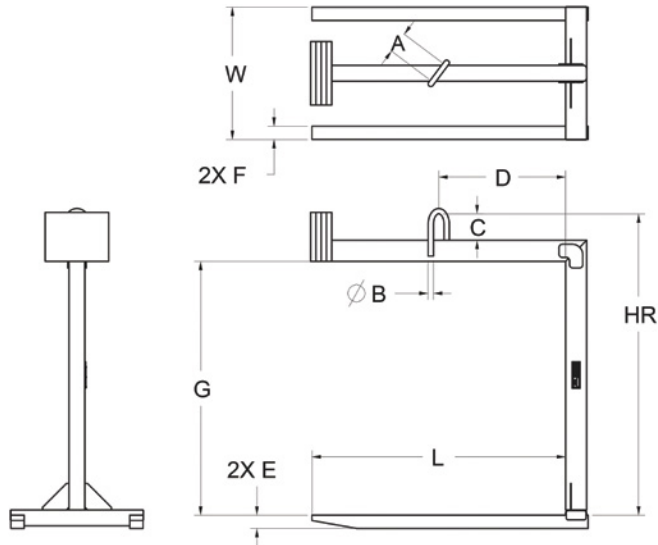
PALLET LIFTERS

- 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.

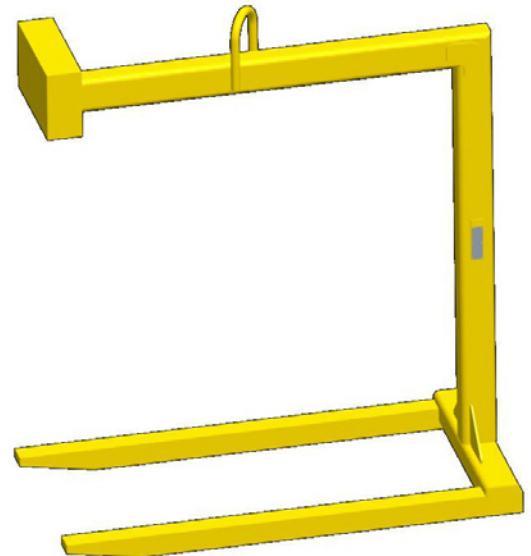
 Prop 65 – See Page 100

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**


PALLET LIFTERS

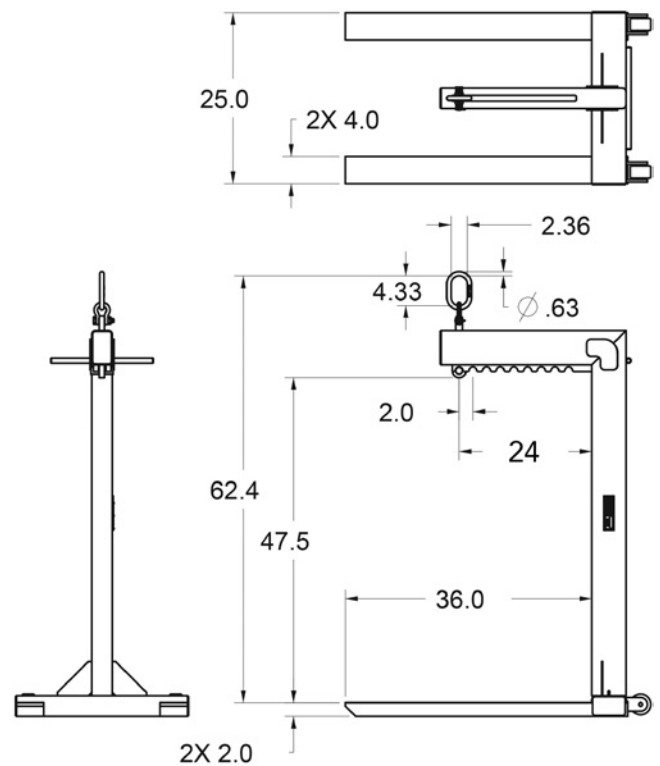
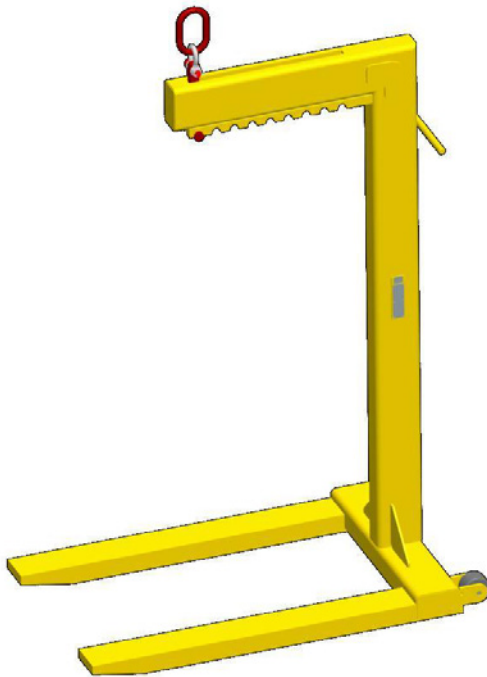
Adjustable Wheeled Pallet Lifters

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 100



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


* Call for specifications on larger sizes and capacities

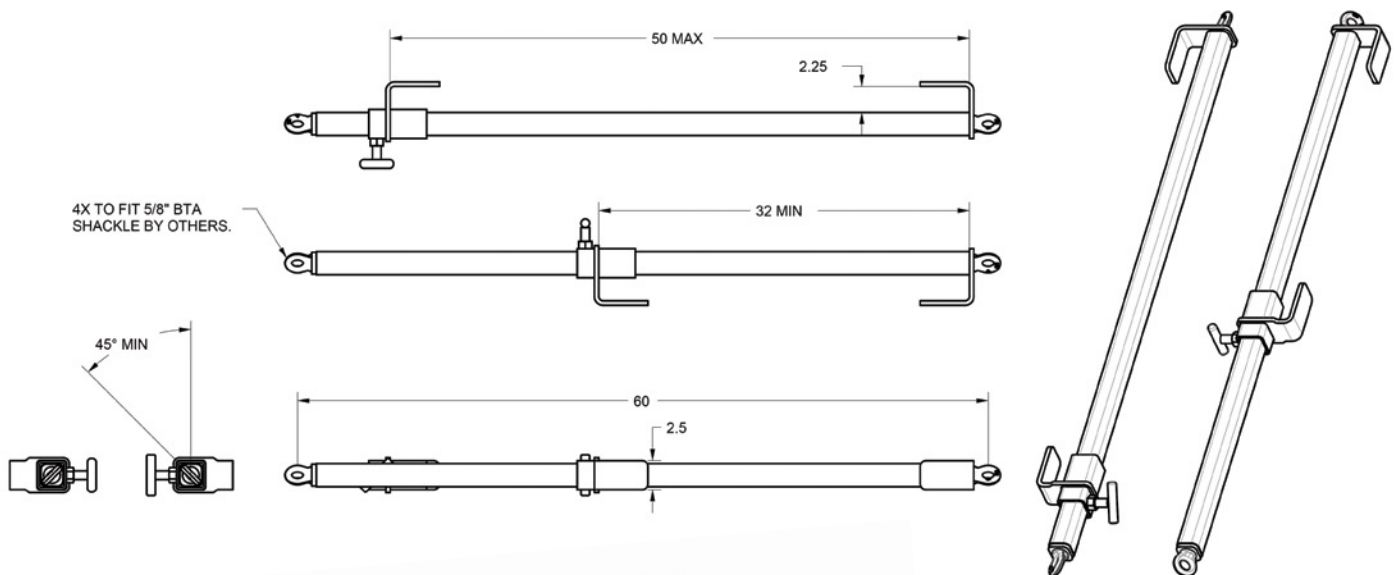
- Converts crane or hoist into aerial forklift.
- Multiple Lift Bale adjustments.

**** 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.

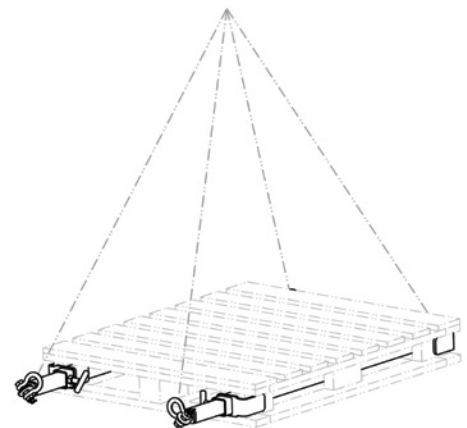
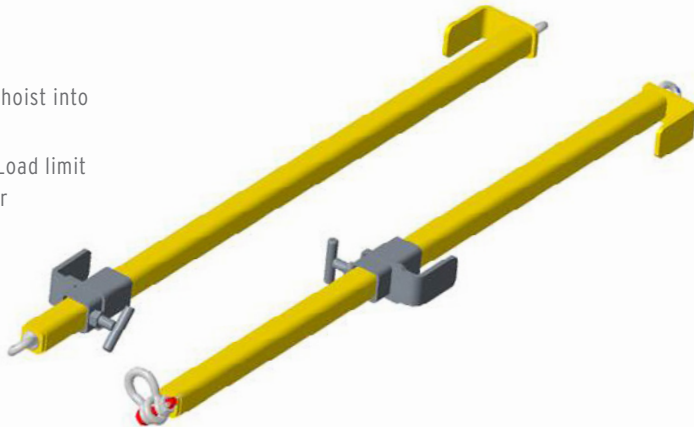
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PART NUMBER: 17449

- Converts crane or hoist into aerial forklift.
- 4,000 LB Working Load Limit capacity is Per Pair

**70 LBS
SET /
35 LBS
EACH**




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

LIFTING TONGS

Bar Tong Lifter

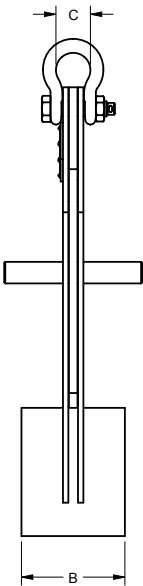
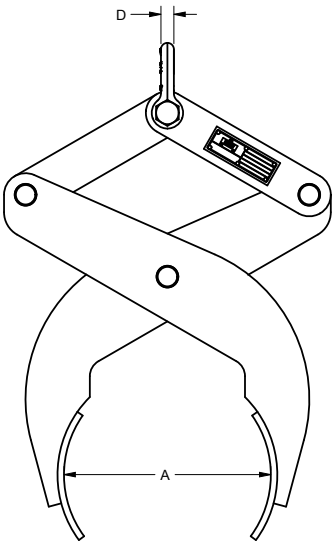
BAR TONG LIFTER

- 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.

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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.

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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



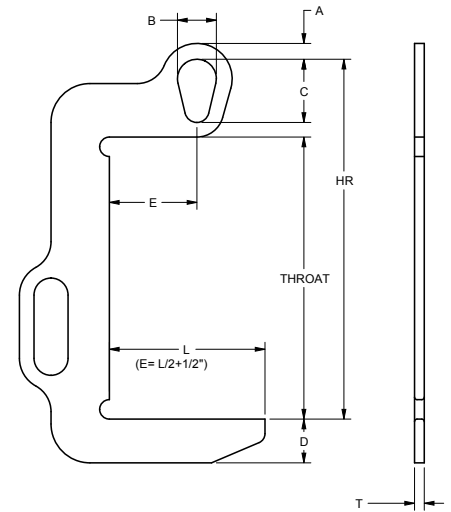
- Heavy-duty design to hold up to outdoor environments.
- Rugged gripping pads conform to load.
- Eliminates the need for rigging when handling large pipe.
- To be used only for vertical lifting.
- Large lifting shackle accommodates crane hooks or supplementary rigging.
- Can be used in pairs to handle 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

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 100




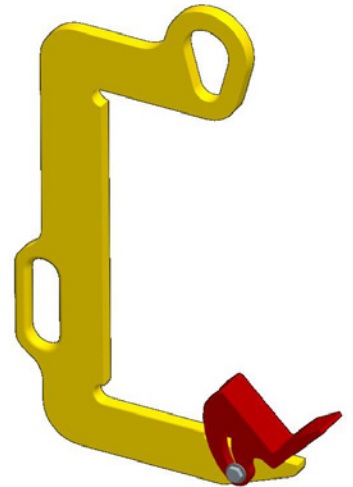
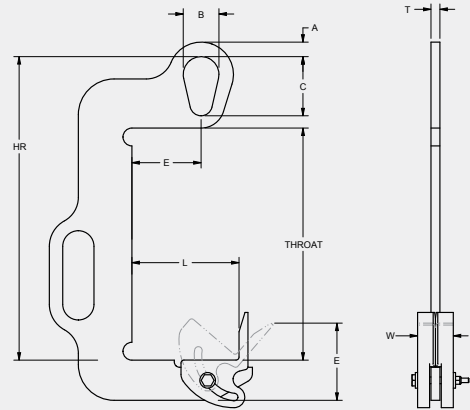
Working Load Limit in Pounds*	Part Number	Throat	HR	A	B	C	D	E	L	T	Weight in Pounds
1,000	14463	14.5	18.5	0.81	2.00	3.25	2.25	4.5	8.0	0.50	14
1,000	14464	14.5	18.5	0.81	2.00	3.25	2.63	6.5	12.0	0.50	15
2,000	14465	17.5	21.5	0.81	2.00	3.25	2.00	4.5	8.0	0.50	14
2,000	14466	17.5	21.5	0.81	2.00	3.25	2.50	8.5	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.

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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

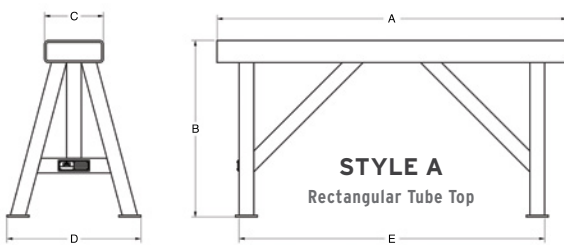
MATERIAL STANDS

Heavy-Duty Material Stands

HEAVY-DUTY MATERIAL STANDS

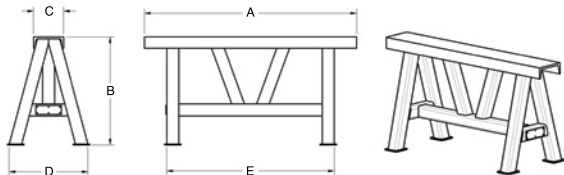
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- Durable construction ideally suited to warehouse or manufacturing shop floor use.
- Made in U.S.A.
- Custom designs available - call for engineering.
- **ALL** lifting equipment individually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

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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

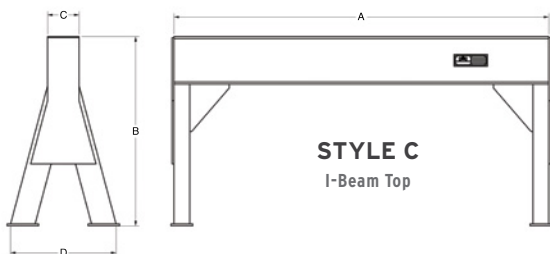
* Call for specifications on larger sizes and capacities



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



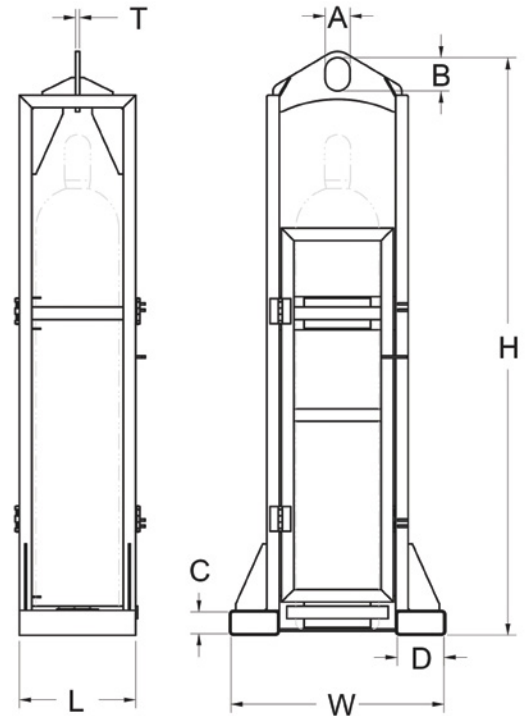
BOTTLE LIFTERS

- 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.

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- Adjustable straps to hold tanks
- Lockable doors




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

CONCRETE PIPE LIFTING

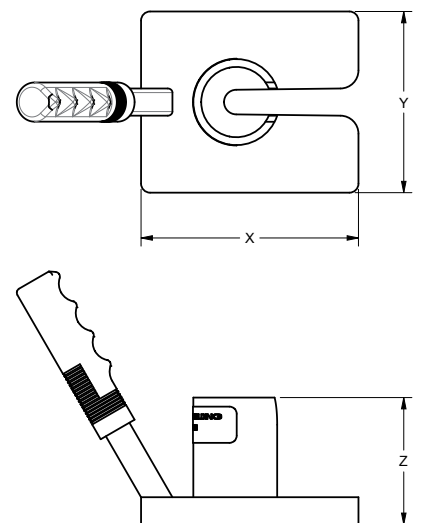
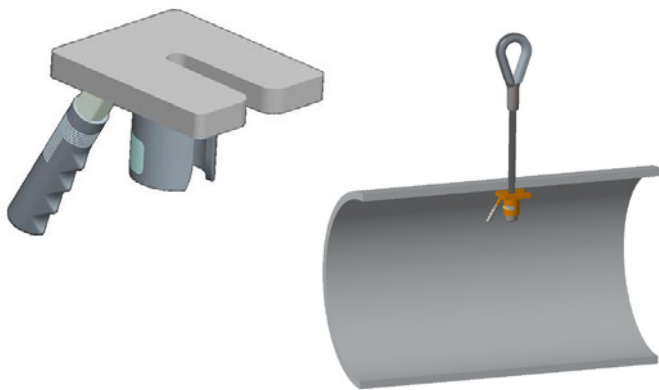
CONCRETE PIPE LIFTING

- 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.

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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 LIFTING HOOKS - SOLD IN PAIRS

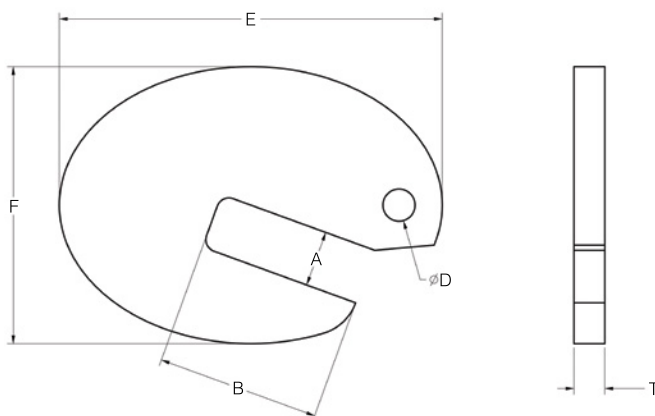
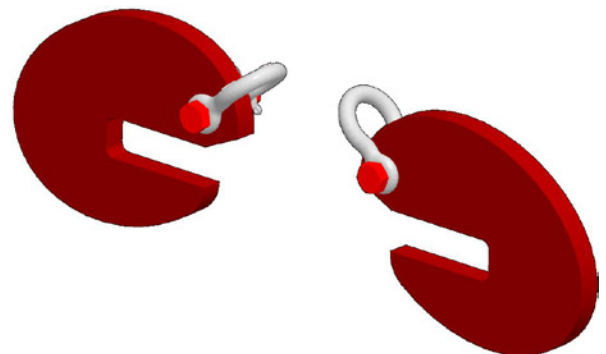
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety red for increased visibility.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- Custom designs available - call for engineering.
- **ALL** lifting equipment individually proof loaded per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

 Prop 65 – See Page 100

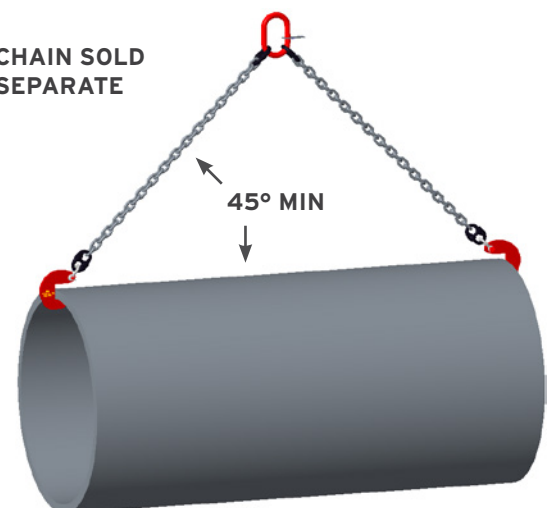
Working Load Limit in Pounds*	Part Number	A	B	C	D	T	E	F	Weight per Pair	Shackle Part Number
4,000	11903	1.13	3.30	0.63	0.65	5/8	7.75	5.60	12	1019472
8,000	11904	1.25	2.50	0.75	0.65	3/4	7.60	6.47	14	1019472
10,000	16194	3.38	3.00	1.00	0.81	1.0	8.28	8.72	28	1019490

* 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.



CHAIN SOLD SEPARATE



MATERIAL HANDLING

Reel Lifting/Turning

REEL LIFTING AND TURNING

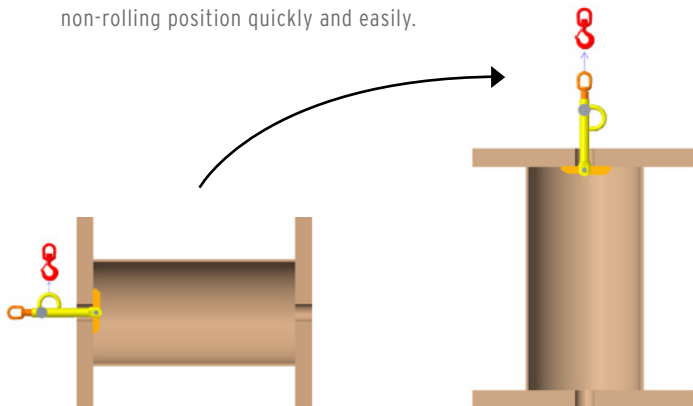
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- **ALL** material handling equipment proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- Machined to exacting tolerances.

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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	13037	2.00	2.63	2.75	2.38	3" - 6"	14	*

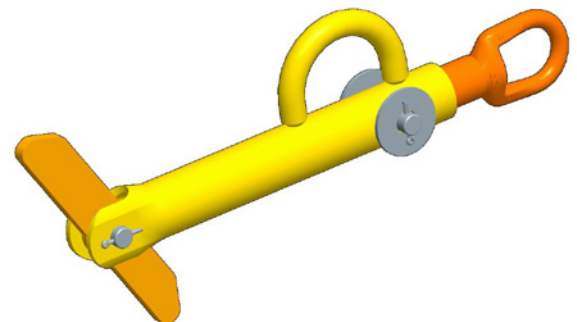
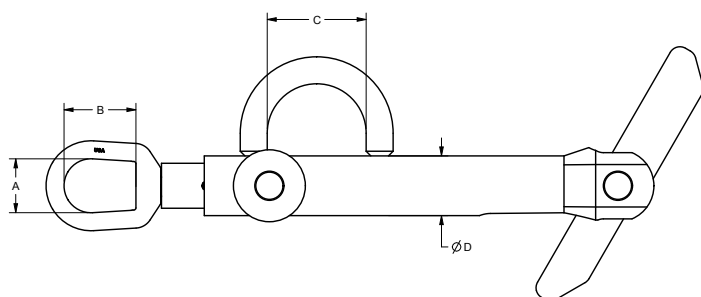
* Call for specifications on larger sizes and capacities

- 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

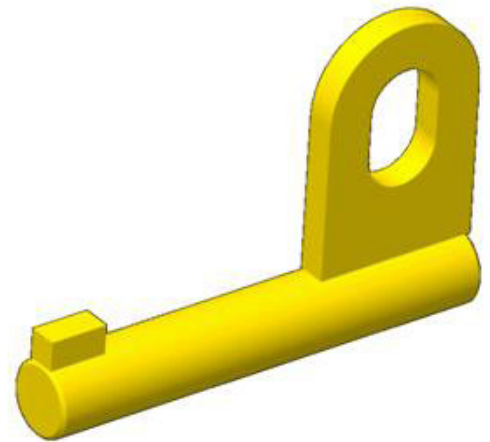
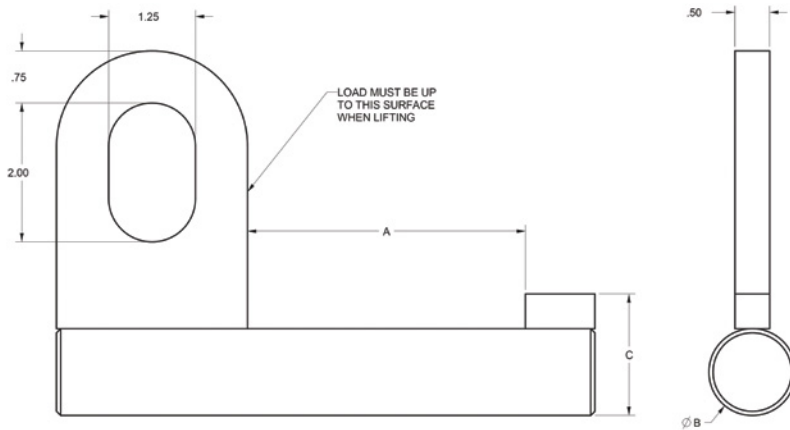
PART NUMBER 19455 NOT FOR TIPPING UP REELS



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.

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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


MATERIAL HANDLING

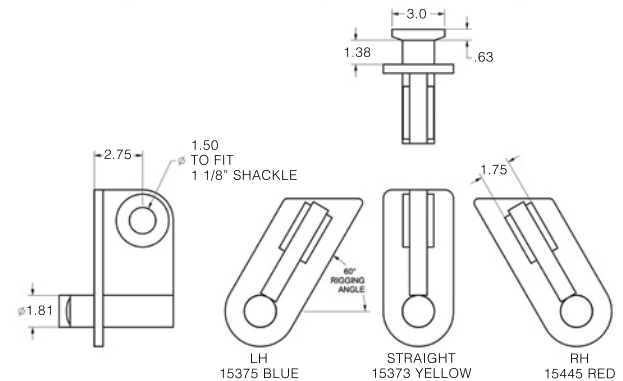
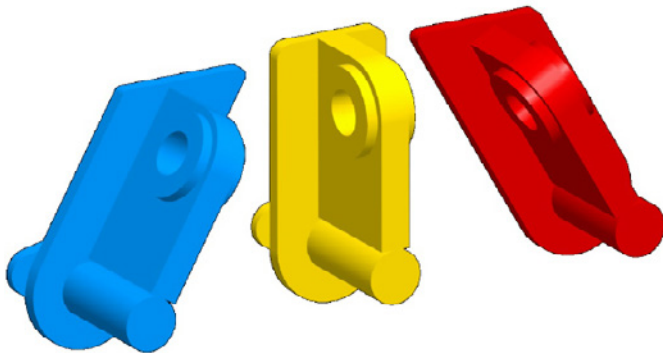
Container Lifting Lugs

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.

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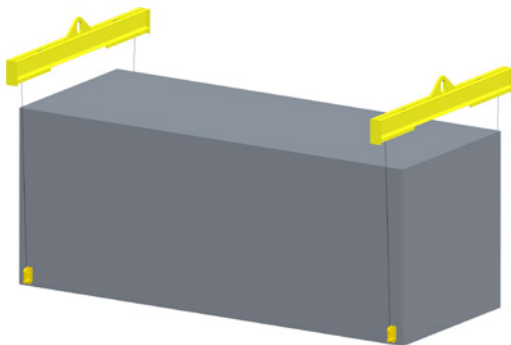


Working Load Limit in Pounds*	Part Number	Color	Style	Weight in Pounds
19,000	15373	Yellow	Straight	17
19,000	15375	Blue	Left	17
19,000	15445	Red	Right	17

NOTE: Typical container lift will require 2 left and 2 right lugs.

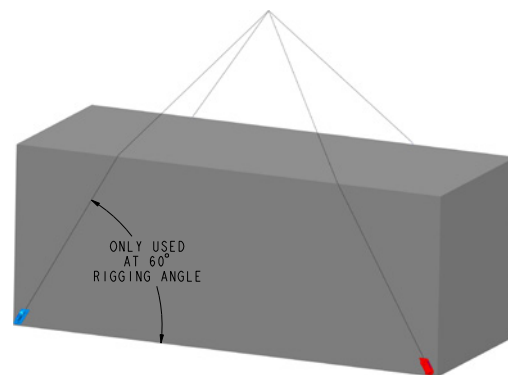
Or will require 4 straight lugs with appropriate spreader / lifting beam and rigging.

***NOT FOR PULLING**



Straight setup

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




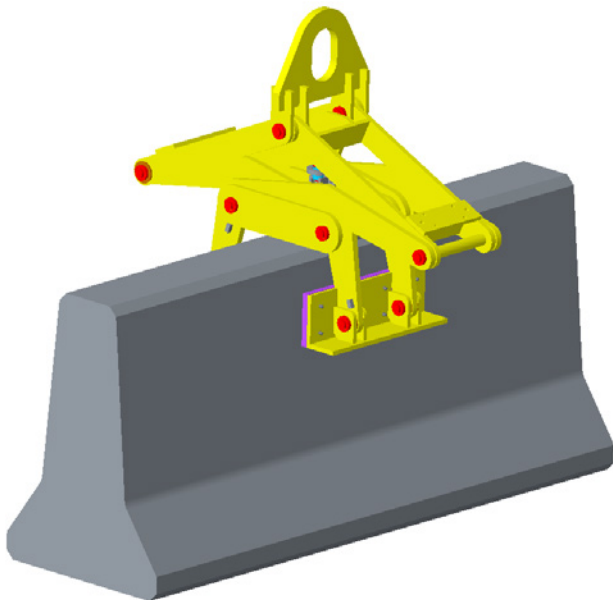
LH / RH setup

Used only on lower corners of the long sides

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.

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PART NUMBER 19790

- 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.

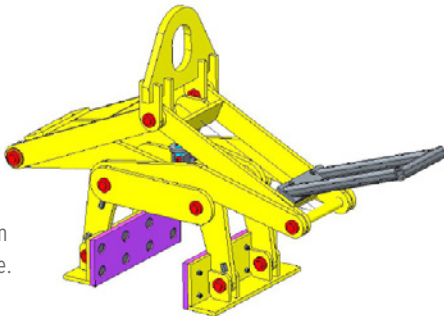
PART NUMBER 19790-31

- Replacement pad installs easily and quickly.

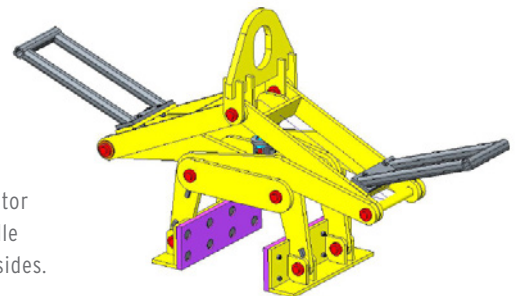
PART NUMBER 19790-40 (Optional)

- 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.
- 9,000 pound capacity.

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.



LARGE BEAM CLAMPS

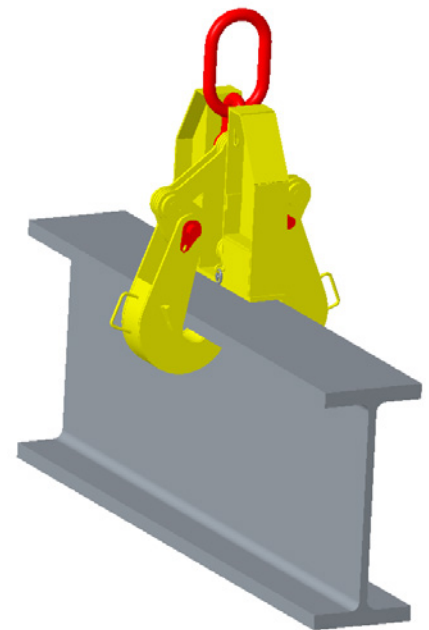
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** Lifters proof loaded and shipped with certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- **ALL** lifting equipment individually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

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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.

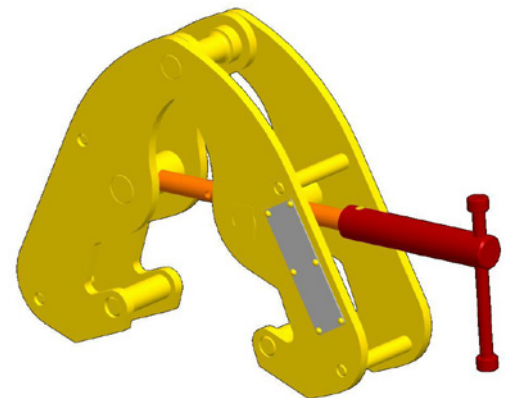
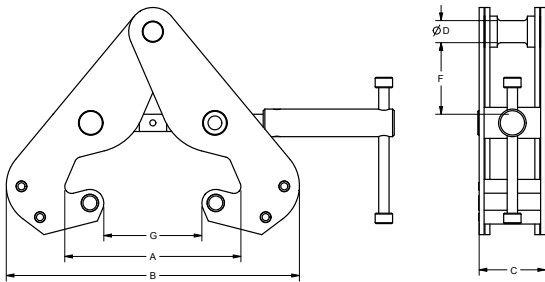
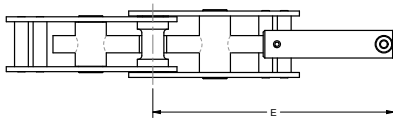
 Prop 65 – See Page 100

- 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.

BEAM CLAMPS

Large Frame

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.

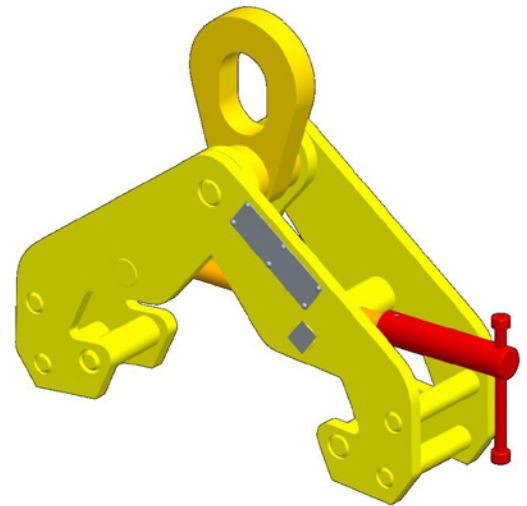
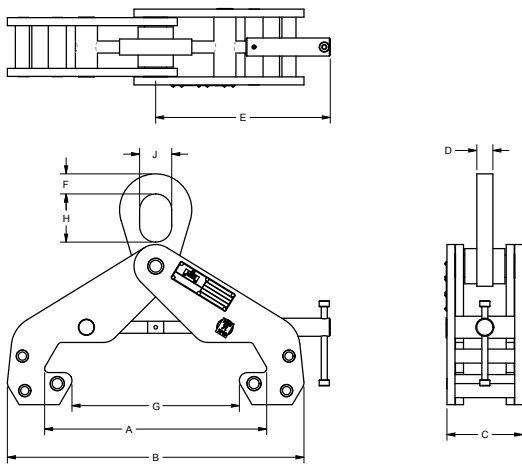
 Prop 65 – See Page 100

- 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%




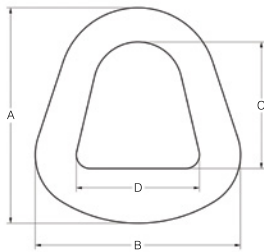
Working Load Limit in Pounds*	Part #	A	B	C	D	E	F	G	H	J	Weight	Maximum Flange Thickness	Maximum Flange Width	Minimum Flange Width	Maximum Slip Over Width
15,680	13659	16.02	20.92	4.72	1.00	10.88	1.25	12.94	3.00	1.75	34.1	1.25	13.75	4.50	13.38
22,400	13674	16.02	20.92	4.72	1.25	10.88	1.50	12.94	3.75	2.50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

*Call for specifications on larger sizes and capacities.

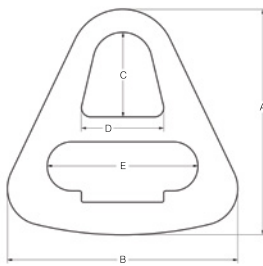
SYNTHETIC SLING TRIANGLES AND CHOKERS : ALUMINUM

- 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.

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SPECIFICATIONS FOR ALUMINUM TRIANGLES							Minimum Breaking Strength
Part Number	Sling Width	Dimensions				Weight	
		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								Minimum Breaking Strength
Model Number	Sling Width	Dimensions					Weight	
		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

Triangle and Choker
Steel

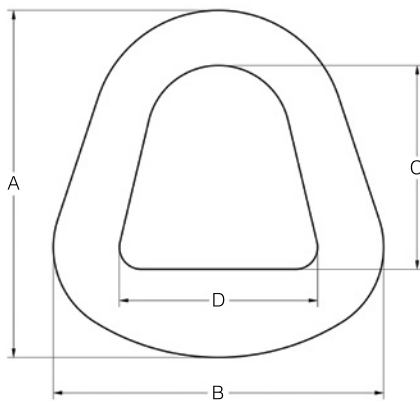


SYNTHETIC SLING TRIANGLES AND CHOKERS : STEEL

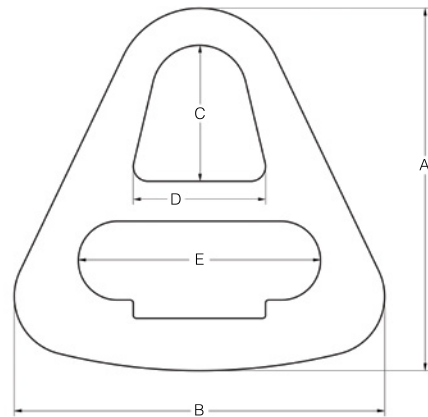
- Steel Triangle and Choker fittings engineered to be used on single-ply, two-ply, three-ply, and four-ply slings.
- Powder coat painted for resistance to corrosion.
- Alloy steel for overhead lifting applications.
- 100% domestic parts and workmanship.
- Machined to exacting tolerances.

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SPECIFICATIONS FOR 2-PLY STEEL TRIANGLES							Minimum Breaking Strength
Part Number	Sling Width	Dimensions				Weight	
		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							Minimum Breaking Strength
Part Number	Sling Width	Dimensions				Weight	
		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								Minimum Breaking Strength
Part Number	Sling Width	Dimensions					Weight	
		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								Minimum Breaking Strength
Part Number	Sling Width	Dimensions					Weight	
		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

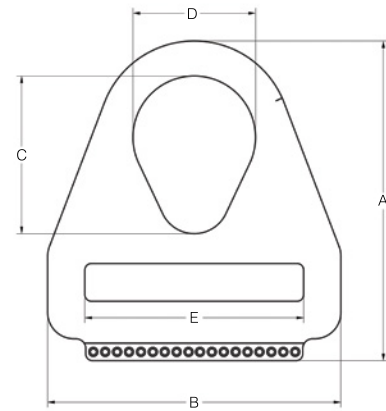
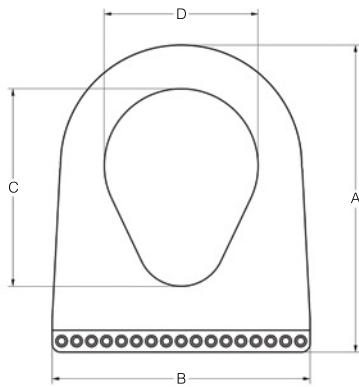
WIRE MESH SLING TRIANGLES AND CHOKERS

- 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.

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SPECIFICATIONS FOR WIRE MESH TRIANGLES							WLL Vertical	WLL 90 Degree Basket	Minimum Breaking Strength
Part Number	Sling Width	Dimensions				Weight			
		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								WLL Vertical	WLL 90 Degree Basket	Minimum Breaking Strength
Model Number	Sling Width	Dimensions					Weight			
		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	7.91	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

CHAIN MESH SLING

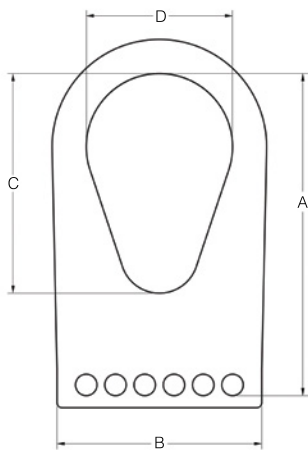
Triangle and Choker

GRADE 80 ALLOY CHAIN MESH SLING TRIANGLES AND CHOKERS

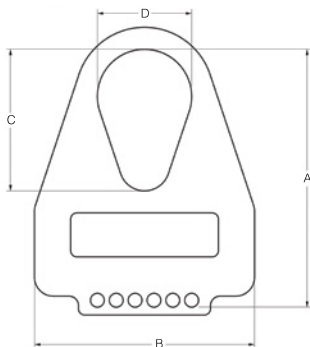
- Steel Triangle and Choker fittings engineered to be used on chain mesh slings.
- Powder coat painted for resistance to corrosion.
- Alloy steel for overhead lifting applications.
- 100% domestic parts and workmanship.
- Machined to exacting tolerances.



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SPECIFICATIONS FOR CHAIN MESH ALLOY STEEL TRIANGLES								WLL Vertical	WLL Choker	WLL Basket
Part Number	Chain Size	Chain Parts	Dimensions				Weight			
			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	5.25	3.50	3.2	8,400	8,400	16,800
18983		6	8.25	5.25	5.63	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	5.25	3.50	4.5	14,000	14,000	28,000
18987		6	8.25	5.75	5.63	3.75	5.0	16,800	16,800	33,600
18988	3/8"	3	6.88	4.25	5.25	3.50	5.0	17,000	17,000	34,000
18989		4	8.13	6.00	6.50	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	7.88	5.25	7.0	19,200	19,200	38,400
18993		3	10.38	6.50	7.88	5.25	13.0	28,800	28,800	57,600
18994		4	11.00	8.13	7.88	5.25	15.0	38,400	38,400	76,800



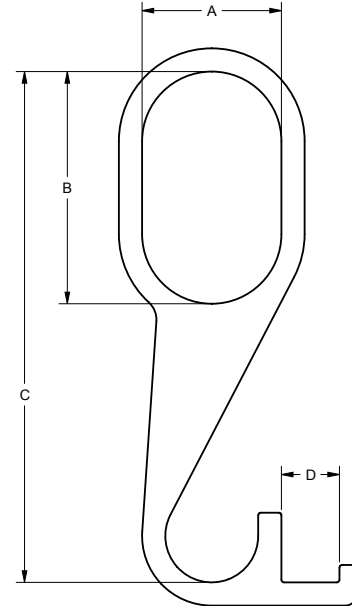
SPECIFICATIONS FOR CHAIN MESH ALLOY STEEL CHOKER								WLL Vertical	WLL Choker	WLL Basket
Part Number	Chain Size	Chain Parts	Dimensions				Weight			
			A	B	C	D				
18995	7/32"	3	8.75	7.00	4.13	2.75	4.0	5,000	5,000	10,000
18996		4	8.75	7.00	4.13	2.75	4.0	6,700	6,700	13,400
18997		5	9.75	8.50	5.25	3.50	4.0	8,400	8,400	16,800
18998		6	10.25	8.75	5.63	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	5.25	3.50	7.0	14,000	14,000	28,000
19002		6	10.25	9.00	5.63	3.75	7.5	16,800	16,800	33,600
19029	3/8"	4	11.62	10.00	6.50	4.38	14.5	22,700	22,700	45,400

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

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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



INSPECTION / SAFETY DEVICES

Sling Inspection and Measuring Hook

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.



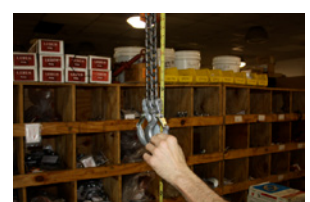
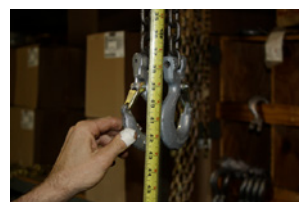
STEP 2 : Insert your tape measure into the slotted section of the hook. Make sure the tape sits into the groove and is hanging parallel with the chain legs. Do not allow the tape measure to become kinked or rest at an angle.

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.

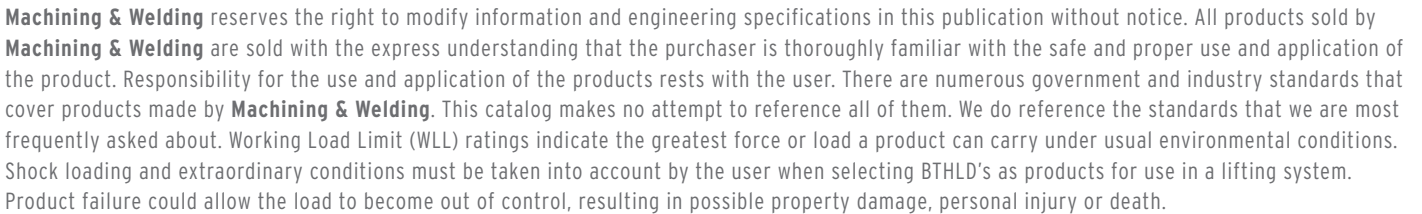


CALIFORNIA PROPOSITION 65

8/31/18

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.





NOTES



MADE IN
THE USA



MACHININGANDWELDING.COM



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