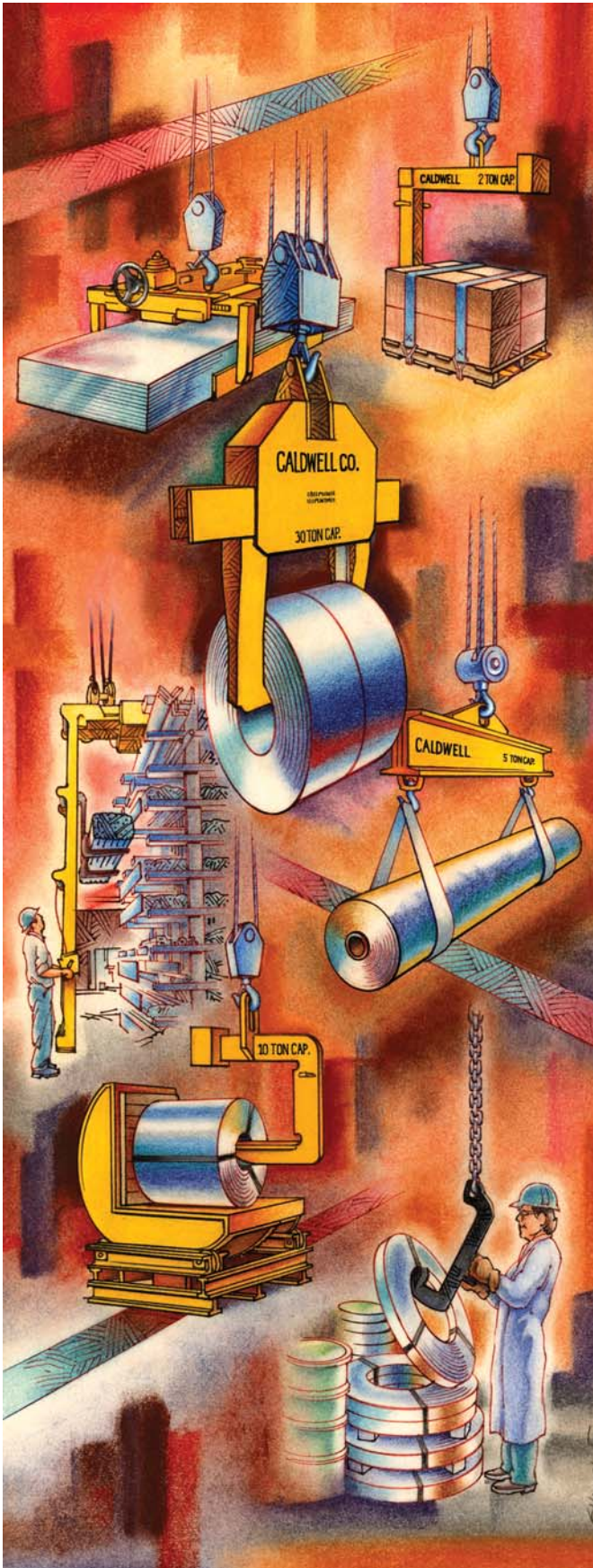


STRONG-BAC®

Below-the-Hook Lifters for Cranes & Hoists



Lifting Beams

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Spreader Beams

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Roll Lifters

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Coil Lifters & Upenders

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Sheet Lifters

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Lifter LockOut™

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Pallet Lifters

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Rotating Crane Hooks

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Material Handling

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Lifting Tongs

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SPREADER BEAMS
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COIL LIFTERS & UPENDERS
SHEET LIFTERS
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Lifting Tongs



Quality & Engineering

The Caldwell Group has been manufacturing lifting equipment since 1954. It is our goal to manufacture high quality, long lasting lifting products that will safely increase productivity and reduce operating costs.

Below-the-Hook Lifters are devices (excluding slings) that attach hoists to their loads. These lifters can be categorized into three types.

1. **Supporting** - carries the load on a bearing surface(s).
2. **Indentation** - grip force indents the sides of the load.
3. **Friction** - applies sufficient coefficient of friction to support the load.

Benefits your company will receive with a Caldwell Lifter:

- Increased productivity.
- Increased safety of an engineered product.
- Low costs maintenance.
- Reliability and durability for long lasting service.

All Caldwell lifters have:

- Identification nameplate.
- Rated capacities.
- Product Safety Labels.

Industry Standards

The American Society of Mechanical Engineers (ASME) has developed standards that apply specifically to the devices Caldwell designs. ASME B30.20 provides detailed information on the classifications, marking, construction, installation, inspection, testing, maintenance, and operation of below the hook lifting devices. ASME BTH-1 provides detailed information on the design criteria of below the hook lifting devices. ASME B30.9 provides detailed information on the fabrication, markings, usage, inspection, and maintenance of lifting slings. These standards serve as a guide to government authorities, manufacturers, purchasers and users of lifting devices. For a summary of these standards, please see pages 8-10 in the front section of this catalog or visit our web site at www.caldwellinc.com/standards.

Caldwell's Standard Quality Assurance program follows specific design criteria as required by ASME. If you would like your lifter proof tested and a test certificate issued, please specify at the time of order (there is a nominal charge).

Caldwell Delivery Programs

The Caldwell Group offers two quick delivery programs, INSTOCK and QUICKSHIP.



Look for the **green INSTOCK** logo on our standard products. The specific **INSTOCK** model number is shown in **green**. **INSTOCK** products ship in 48 hours (excluding weekends and holidays).



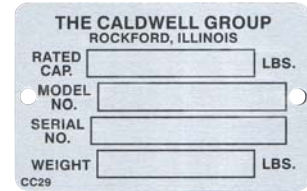
Look for the **red QUICKSHIP** logo on our standard products. The specific **QUICKSHIP** model number is shown in **red**. **QUICKSHIP** products ship in 7 to 10 days (excluding weekends and holidays).

Caldwell Service

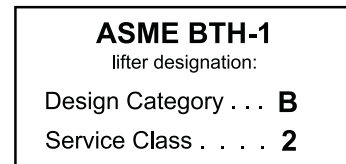
We offer solutions that will increase the productivity and effectiveness of your lifter, while ensuring the safety, reliability, and compliance of your equipment. Our services include: training & maintenance, inspection, repairs and modernizations. See pages 6-7 in the front of this catalog for more details.

DISCLAIMER:

All product designs are subject to change without notice. Products pictured in this catalog are a representation of a specific design. The product you purchase will be designed for your specific application and may not look exactly like the picture in this catalog.



I.D. Nameplate



BTH-1 Tag



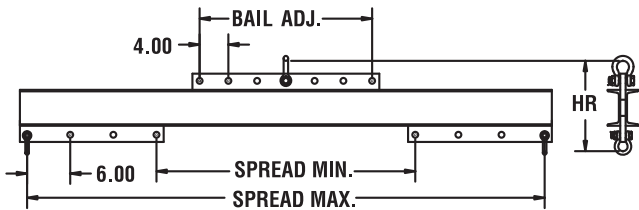
Product Safety Labels



Test Certificate

Lifting Beams

Model 16 - Adjustable Spreader/Lifting Beam



PRODUCT FEATURES:

- Adjustable lifting points.
- Handles both wide and unbalanced loads.
- Low headroom capability.
- Shackles included.
- Add chain top rigging for additional stability.
- Optional swivel hooks available.
- Optional chain top rigging available.
- Complies with ASME standards.

PRODUCT OPTIONS:

- **OPTION S** - Pair of swivel hooks
 - **OPTION C** - Chain top rigging
 - **OPTION B1** - One cross beam*
 - **OPTION B2** - Two cross beams*
- * Specify spreads

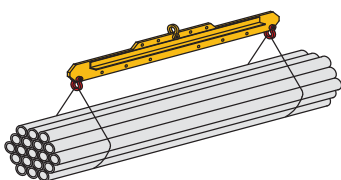
SPECIFICATIONS

Model Number	Rated Capacity (tons)	Spread (in.)		Bail Adjustment (in.)	HR Headroom (in.)	Bolt Type Anchor Shackle (tons)		Weight (lbs.)
		Max.	Min.			Top	Bottom	
16-1/4-4	1/4	48	12	16	7.13	1.5	1.5	40
16-1/2-4	1/2	48	12	16	7.13	1.5	1.5	40
16-1/2-6	1/2	72	36	24	10.00	1.5	1.5	100
16-1/2-8	1/2	96	48	32	10.00	1.5	1.5	135
16-1/2-10	1/2	120	60	40	10.00	1.5	1.5	145
16-1-6	1	72	36	24	10.00	1.5	1.5	100
16-1-8	1	96	48	32	11.00	1.5	1.5	140
16-1-10	1	120	60	40	11.00	1.5	1.5	175
16-2-6	2	72	36	24	12.50	3.25	2	130
16-2-8	2	96	48	32	13.50	3.25	2	200
16-2-10	2	120	60	40	14.50	3.25	2	280
16-4-8	4	96	48	32	16.75	4.75	4.75	290
16-4-10	4	120	60	40	18.75	4.75	4.75	420
16-4-12	4	144	72	48	18.75	4.75	4.75	500
16-5-8	5	96	48	32	18.75	6.5	4.75	320
16-5-10	5	120	60	40	20.25	6.5	4.75	465
16-5-12	5	144	72	48	20.25	6.5	4.75	550
16-7-12	7	144	72	48	23.75	8.5	6.5	790

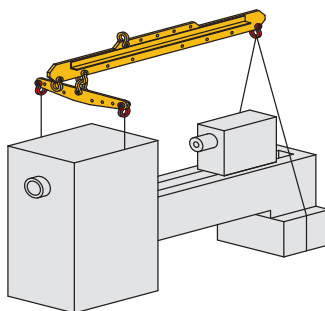
INSTOCK PROGRAM

QUICKSHIP PROGRAM

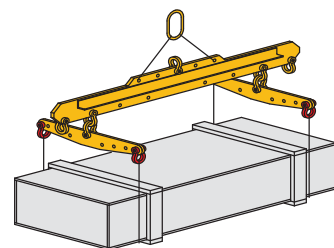
Operation



Standard
2 Point Lift



Custom
3 Point Lift



Custom
4 Point Lift

Lifting Beams

Model 17 - Adjustable Lifting Beam

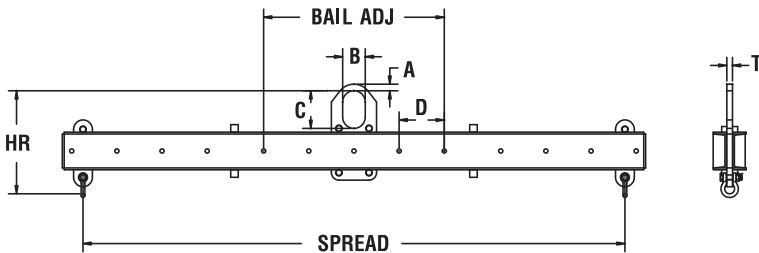


PRODUCT FEATURES:

- Bail adjusts horizontally for lifting unbalanced loads.
- Provides clearance in low headroom applications.
- Spread adjusts in 6" increments along lifting beam.
- Shackles included.
- Optional swivel hooks available.
- Complies with ASME standards.

PRODUCT OPTIONS:

- **OPTION S** - Pair of swivel hooks

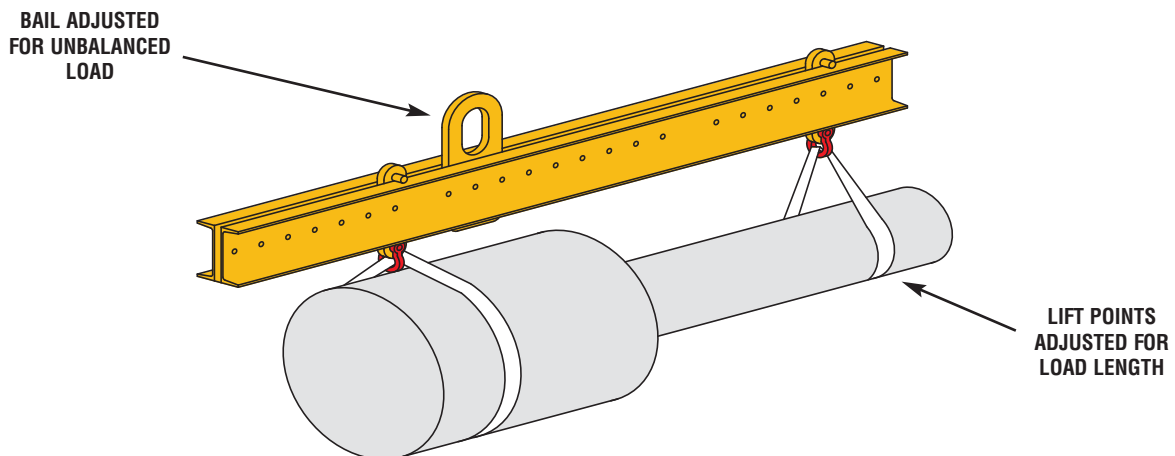


INSTOCK PROGRAM

SPECIFICATIONS

Model Number	Rated Capacity (tons)	Spread (in.)		Bail Adjustment		HR Headroom (in.)	Shackle Size (tons)	Bail Dimensions (in.)				Weight (lbs.)
		Max.	Min.	Range (in.)	D (in.)			A	B	C	T	
17-1 1/4-6	1-1/4	72	36	24	3	14.7	2	1 1/2	3	5	5/8	150
17-2-6	2	72	36	24	3	14.7	2	1 1/2	3	5	5/8	155
17-4-8	4	96	54	36	6	19.8	3 1/4	2	4	7	3/4	285
17-5-10	5	120	60	36	6	22.4	4 3/4	2	4	7	1	475

Operation

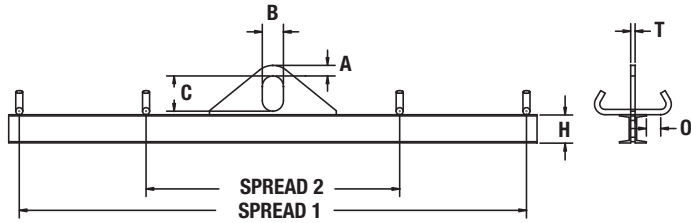


Lifting Beams

Model 18 - Fixed Twin Basket Sling Lifting Beam



QUICKSHIP PROGRAM



PRODUCT FEATURES:

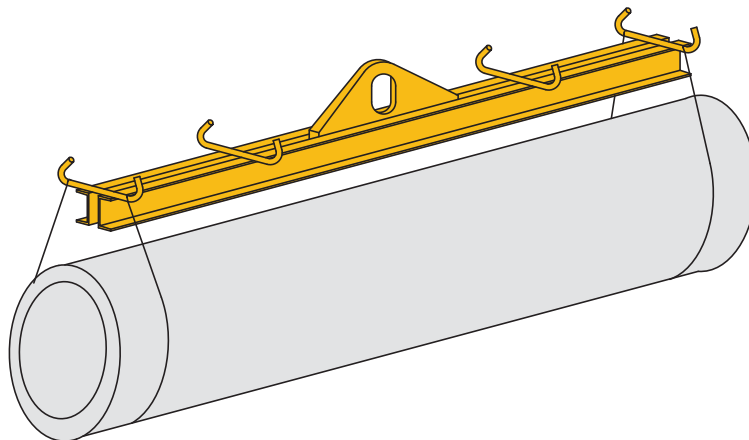
- Designed to be used with slings in a basket hitch.
- Provides greatest clearance in low headroom applications.
- Two sets of bent bar hooks are standard on units with a spread of 6' and greater.
- Spread 2 is 1/2 of spread 1.
- Hooks are designed to handle up to a 2" sling eye width.
- Complies with ASME standards.

SPECIFICATIONS

Capacity (tons)	Model Number HR Headroom (in.) Weight (lbs.)	Spread (feet)						Other Dimensions (in.)
		3*	4*	6	8	10	12	
1/2	Model Number	18-1/2-3	18-1/2-4	18-1/2-6	18-1/2-8	18-1/2-10	18-1/2-12	A=7/8 T=3/4
	H (in.)	8-1/2	8-1/2	8-1/2	8-1/2	8-1/2	9-1/2	B=3 O=2
	Weight	40	48	78	95	113	171	C=5
1	Model Number	18-1-3	18-1-4	18-1-6	18-1-8	18-1-10	18-1-12	A=7/8 T=3/4
	H (in.)	8-1/2	8-1/2	9-1/2	10-1/2	10-1/2	11-1/2	B=3 O=2
	Weight	40	48	93	136	175	239	C=5
2	Model Number	18-2-3	18-2-4	18-2-6	18-2-8	18-2-10	18-2-12	A=7/8 T=3/4
	H (in.)	9-1/2	10-1/2	10-1/2	11-1/2	12-1/2	13-1/2	B=3 O=2
	Weight	52	75	139	169	246	326	C=5
5	Model Number	18-5-3	18-5-4	18-5-6	18-5-8	18-5-10	18-5-12	A=2 T=1-1/4
	H (in.)	13-1/2	14-1/2	15-1/2	16-1/2	17-1/2	19-1/2	B=4 O=2
	Weight	104	135	211	310	423	618	C=7
7 1/2	Model Number	18-7 1/2-3	18-7 1/2-4	18-7 1/2-6	18-7 1/2-8			A=2 T=1-1/4
	H (in.)	12	14	15	17			B=4 O=2
	Weight	125	185	315	475			C=7

* 3' and 4' beams are provided with one set of bent bar hooks.

Operation



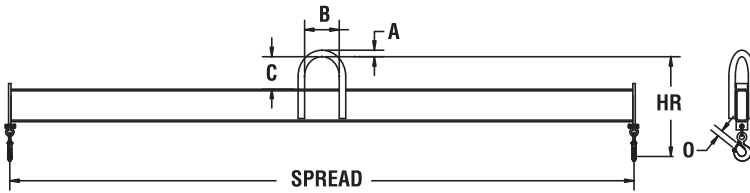
Lifting Beams

Model 19 - Fixed Spread Lifting Beam



PRODUCT FEATURES:

- Provides clearance in low headroom applications.
- Bent bar bail for easy crane hook attachment.
- Eye hooks with hook latches standard.
- Fixed spread.
- Complies with ASME standards.

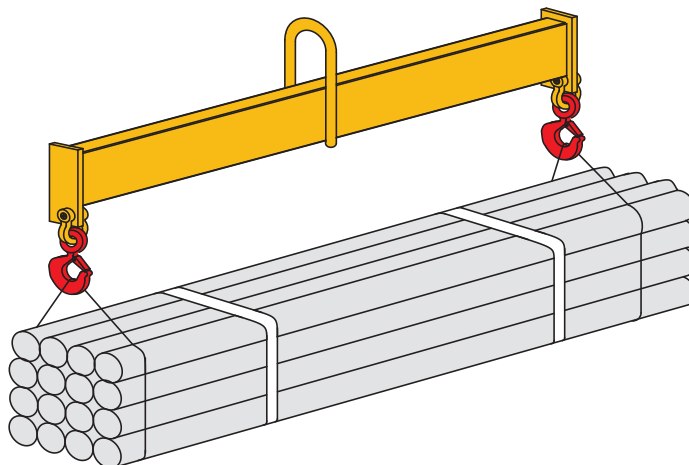


QUICKSHIP PROGRAM

SPECIFICATIONS

Capacity (tons)	Model Number HR Headroom (in.) Weight (lbs.)	Spread (feet)						Other Dimensions (in.)	
		2	3	4	6	8	10		
1/2	Model Number	19-1/2-2	19-1/2-3	19-1/2-4	19-1/2-6	19-1/2-8	19-1/2-10	A=.75	O=.89
	HR Headroom	13.75	13.75	13.75	13.75	14.75	14.75	B=3	
	Weight	20	26	33	48	75	93	C=5	
1	Model Number	19-1-2	19-1-3	19-1-4	19-1-6	19-1-8	19-1-10	A=1	O=.89
	HR Headroom	14.75	14.75	14.75	15.75	15.75	16.75	B=6	
	Weight	26	35	44	72	93	131	C=5	
2	Model Number		19-2-3	19-2-4	19-2-6	19-2-8	19-2-10	A=1	O=1
	HR Headroom		17.19	17.19	20.19	20.19	20.19	B=6	
	Weight		45	55	108	140	188	C=5	
3	Model Number		19-3-3	19-3-4	19-3-6	19-3-8	19-3-10	A=1.5	O=1
	HR Headroom		18.50	20.50	20.50	20.50	20.50	B=6	
	Weight		58	87	118	222	272	C=5	

Operation



Lifting Beams

Model 20 - Low Headroom Multiple Spread Lifting Beam

Ideal where headroom is limited.



QUICKSHIP PROGRAM

PRODUCT FEATURES:

- Beams over 6' and longer have 3 spreads.
- 3' & 4' beams have 2 spreads.
- Swivel hooks with hook latches standard.
- Wide range of sizes and capacities available.
- Complies with ASME standards.

STANDARD FEATURE:

Three spreads to adjust to the load

- Outside spread
- Middle spread (outside less 1')
- Inside spread (outside less 2')

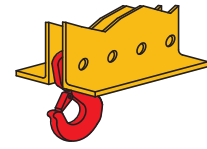
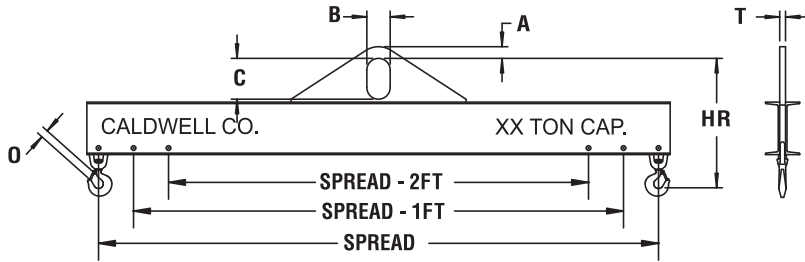
SPECIFICATIONS

Capacity (tons)	Model Number HR Headroom (in.) Weight (lbs.)	Outside Spread (feet)						
		3	4	6	8	10	12	
1/2	Model Number	20-1/2-3	20-1/2-4	20-1/2-6	20-1/2-8	20-1/2-10	20-1/2-12	
	HR Headroom	12-3/4	12-3/4	12-3/4	12-3/4	13-3/4	13-3/4	
	Weight	40	50	65	95	140	160	
1	Model Number	20-1-3	20-1-4	20-1-6	20-1-8	20-1-10	20-1-12	
	HR Headroom	12-3/4	12-3/4	13-3/4	13-3/4	14-3/4	15-3/4	
	Weight	40	50	85	115	165	230	
2	Model Number	20-2-3	20-2-4	20-2-6	20-2-8	20-2-10	20-2-12	
	HR Headroom	13-3/4	13-3/4	14-3/4	16-1/2	17-1/2	18-1/4	
	Weight	50	65	100	165	230	315	
3	Model Number	20-3-3	20-3-4	20-3-6	20-3-8	20-3-10	20-3-12	
	HR Headroom	15-1/4	15-1/4	16-1/4	17-1/4	18-1/4	22-1/2	
	Weight	70	80	140	200	275	415	
5	Model Number	20-5-3	20-5-4	20-5-6	20-5-8	20-5-10	20-5-12	
	HR Headroom	19-1/2	20-1/2	21-1/2	25-1/2	25-1/2	27-1/2	
	Weight	115	145	205	325	390	580	
7-1/2	Model Number	20-7 1/2-3	20-7 1/2-4	20-7 1/2-6	20-7 1/2-8	20-7 1/2-10	20-7 1/2-12	
	HR Headroom	22-1/2	23-1/2	25-1/4	27-1/4	27-1/4	30-1/4	
	Weight	135	170	265	415	500	910	
10	Model Number	20-10-3	20-10-4	20-10-6	20-10-8	20-10-10	20-10-12	
	HR Headroom	23-1/4	25-1/4	27-1/4	27-1/4	30-1/4	30-1/4	
	Weight	150	205	335	420	775	910	
15	Model Number	20-15-3	20-15-4	20-15-6	20-15-8	20-15-10	20-15-12	
	HR Headroom	28-1/2	30-1/2	30-1/2	33-1/2	33-1/2	40-1/4	
	Weight	215	295	375	685	820	1180	
20	Model Number	20-20-3	20-20-4	20-20-6	20-20-8	20-20-10	20-20-12	
	HR Headroom	38-3/4	38-3/4	38-3/4	38-3/4	41-1/2	41-1/2	
	Weight	370	435	575	710	1070	1235	
25	Model Number		20-25-4	20-25-6	20-25-8	20-25-10	20-25-12	
	HR Headroom		41-3/8	41-3/8	44-3/8	44-3/8	44-3/8	
	Weight		470	590	925	1100	1650	
30	Model Number		20-30-4	20-30-6	20-30-8			
	HR Headroom		45-1/2	45-1/2	48-1/4			
	Weight		525	660	1010			
40	Model Number		20-40-4	20-40-6				
	HR Headroom		44-3/4	47-3/4				
	Weight		600	930				

Other sizes available, consult factory.

Lifting Beams

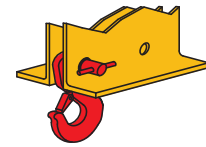
Recommend faspins (Option B) if frequent hook position changes (spread) are required.



OPTION A

Extra Holes or Different Placement of Holes

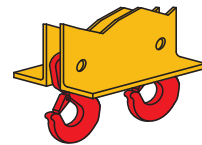
Allows multiple hook positioning beyond standard spreads. Specify number and spread(s) required.



OPTION B

Faspins

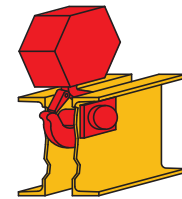
For ease of positioning hooks with quick release. Specify number required.



OPTION C

Extra Hooks

Allows for multiple pick points. Specify number required.



OPTION D

Pin Type Bail

Lifting pin located between structural channel. (Hoist hook information must be supplied.)



OPTION E

Shackle Lug

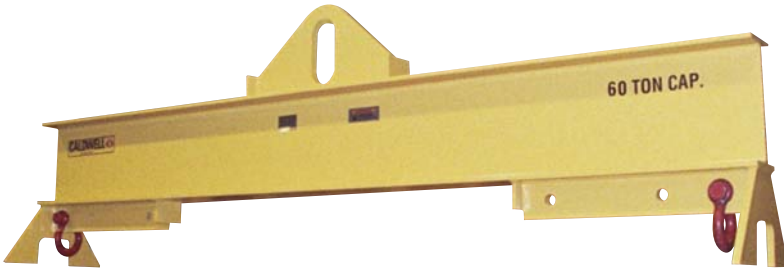
Lifting lug with shackle. (Headroom may change.)

SPECIFICATIONS

	Outside Spread (feet)						Other Dimensions (in.)	
	14	16	18	20	24	30		
	20-1/2-14 14-3/4 230	20-1/2-16 15-3/4 305	20-1/2-18 16-3/4 400	20-1/2-20 16-3/4 450	20-1/2-24 20-1/4 830	20-1/2-30 22-1/4 1340	A=7/8 B=3 C=5	T=3/4 O=7/8
	20-1-14 16-3/4 320	20-1-16 18-1/2 415	20-1-18 20-1/4 605	20-1-20 20-1/4 675	20-1-24 22-1/4 1095		A=7/8 B=3 C=5	T=3/4 O=7/8
	20-2-14 20-1/4 480	20-2-16 20-1/4 540	20-2-18 24-3/4 800	20-2-20 24-3/4 900	20-2-24 27-3/4 1730		A=7/8 B=3 C=5	T=3/4 O=7/8
	20-3-14 24-1/2 650	20-3-16 24-1/2 730	20-3-18 27-1/2 1295	20-3-20 27-1/2 1450	20-3-24 27-1/2 1765		A=1-1/4 B=3 C=5	T=1 O=1
	20-5-14 27-1/2 690	20-5-16 30-1/4 1210	20-5-18 30-1/4 1340	20-5-20 30-1/4 1505	20-5-24 33-1/4 2275		A=2 B=4 C=7	T=1-1/4 O=1-15/16
	20-7 1/2-14 30-1/4 1070	20-7 1/2-16 30-1/4 1600	20-7 1/2-18 33 1665				A=2 B=4 C=7	T=1-1/4 O=1-1/2
	20-10-14 30-1/4 1075	20-10-16 33 1500	20-10-18 33 1670				A=2 B=4 C=7	T=1-1/4 O=1-9/16
	20-15-14 40-1/4 1385						A=2-1/2 B=5 C=9	T=1-1/2 O=2-1/16
See pages A.10 and A.11 for these capacities and sizes.							A=2-1/2 B=5 C=9	T=1-1/2 O=2-1/4
See pages A.10 and A.11 for these capacities and sizes.							A=3 B=6 C=12	T=1-3/4 O=2-1/4
See pages A.10 and A.11 for these capacities and sizes.							A=3-1/2 B=7 C=16	T=2 O=2-1/4
See pages A.10 and A.11 for these capacities and sizes.							A=3-1/2 B=7 C=16	T=2-1/2 O=3

Lifting Beams

Model 20H - Low Headroom Multiple Spread Lifting Beam



Shown with optional Built-In Stand and different hole placement.

PRODUCT FEATURES:

- 'I' beam construction.
- Three spreads to adjust to the load
 - Outside spread
 - Middle spread (outside less 1')
 - Inside spread (outside less 2')
- Swivel hooks with hook latches standard.
- Wide range of sizes and capacities available.
- Complies with ASME standards.

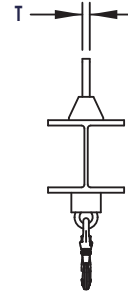
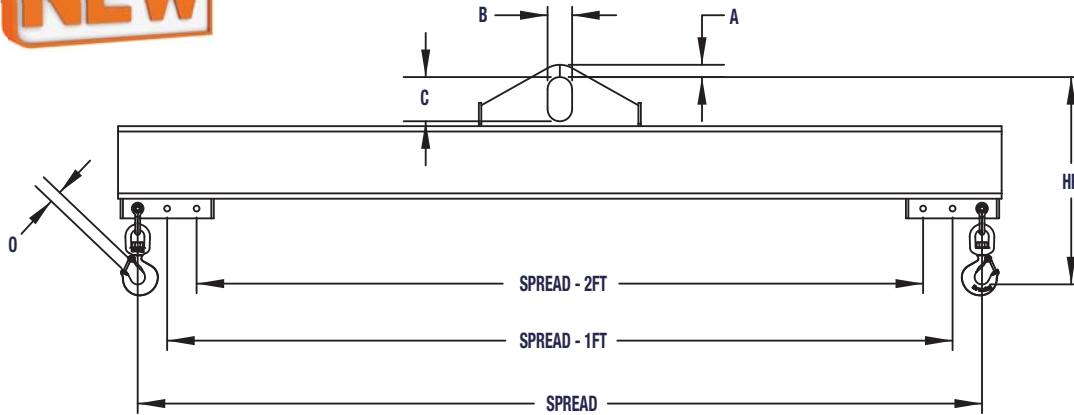
SPECIFICATIONS

Capacity (tons)	Model Number HR Headroom (in.) Weight (lbs.)	Outside Spread (feet)						
		8	10	12	14	16	18	
1	Model Number HR Headroom Weight							
2	Model Number HR Headroom Weight							
3	Model Number HR Headroom Weight	See pages A.8 and A.9 for these capacities and sizes.						
5	Model Number HR Headroom Weight							
7-1/2	Model Number HR Headroom Weight							
10	Model Number HR Headroom Weight							
15	Model Number HR Headroom Weight					20H-15-16 41.50 1350	20H-15-18 41.75 1610	
20	Model Number HR Headroom Weight				20H-20-14 45.75 1210	20H-20-16 46 1510	20H-20-18 46.25 1885	
25	Model Number HR Headroom Weight				20H-25-14 55.75 1430	20H-25-16 55 1780	20H-25-18 56.75 2110	
30	Model Number HR Headroom Weight		20H-30-10 59.75 1150	20H-30-12 61.50 1395	20H-30-14 61.75 1695	20H-30-16 62 2050	20H-30-18 67.50 2380	
40	Model Number HR Headroom Weight	20H-40-8 71.50 1200	20H-40-10 72 1550	20H-40-12 72.25 1840	20H-40-14 72 2220	20H-40-16 74.75 2400	20H-40-18 75 3100	

Other sizes available, consult factory.

Lifting Beams

NEW



SPECIFICATIONS

Outside Spread (feet)							Other Dimensions (in.)	
20	24	30	34	38	42			
		20H-1-30 24 1250	20H-1-34 24 1605	20H-1-38 24 2120	20H-1-42 26 2810	A=7/8 B=3 C=5	T=3/4 O=7/8	
		20H-2-30 24 1560	20H-2-34 24 2130	20H-2-38 24.50 2680	20H-2-42 26.50 3410	A=1-1/2 B=3 C=5	T=1 O=7/8	
		20H-3-30 27.25 1840	20H-3-34 27.25 2070	20H-3-38 27.50 3110	20H-3-42 29 3890	A=1-1/2 B=3 C=5	T=1 O=1	
		20H-5-30 32 2325	20H-5-34 32 3130	20H-5-38 34 3950	20H-5-42 34 4760	A=2 B=4 C=7	T=1-1/4 O=1-3/8	
20H-7 1/2-20 34.75 1325	20H-7 1/2-24 34.75 1890	20H-7 1/2-30 35 2790	20H-7.5-34 36.75 3560	20H-7.5-38 37 4760	20H-7.5-42 37 5730	A=2 B=4 C=7	T=1-1/4 O=1-5/8	
20H-10-20 35.75 1500	20H-10-24 36 2100	20H-10-30 37.75 3190	20H-10-34 38 4300	20H-10-38 38 5230	20H-10-42 38.50 6910	A=2 B=4 C=7	T=1-1/4 O=1-5/8	
20H-15-20 42 1915	20H-15-24 41.50 2340	20H-15-30 42.25 4255	20H-15-34 42.25 4230	20H-15-38 42.50 6340	20H-15-42 43 8420	A=2-1/2 B=5 C=9	T=1-1/2 O=2-1/16	
20H-20-20 48 2225	20H-20-24 48.50 3155	20H-20-30 49.25 5040	20H-20-34 49.25 6250	20H-20-38 55.25 8170	20H-20-42 55.50 9930	A=2-3/4 B=5 C=9	T=1-1/2 O=2-1/4	
20H-25-20 59.75 2590	20H-25-24 60 3545	20H-25-30 60.75 5380	20H-25-34 64 7425	20H-25-38 64.50 9100	20H-25-42 67.25 11235	A=3 B=6 C=12	T=1-3/4 O=2-1/4	
20H-30-20 67.75 2850	20H-30-24 68 4040	20H-30-30 73.75 5725	20H-30-34 71.75 7930	20H-30-38 69.75 10100	20H-30-42 70 12300	A=3-1/2 B=7 C=16	T=2 O=2-1/4	
20H-40-20 78 3680	20H-40-24 81 4920	20H-40-30 84.25 6810	20H-40-34 77 9310	20H-40-38 80 11500	20H-40-42 83 14510	A=3-1/2 B=7 C=16	T=2-1/2 O=3	



OPTION A

Extra Holes or Different Placement of Holes

Allows multiple hook positioning beyond standard 3 spreads. Specify number and spread(s) required.

OPTION B

Extra Shackles and Swivel Hooks

Allows for multiple pick points or eliminates the need to move hardware for different size loads.



OPTION C

Built In stand

Keeps beam upright for easy crane hook attachment (pictured above).

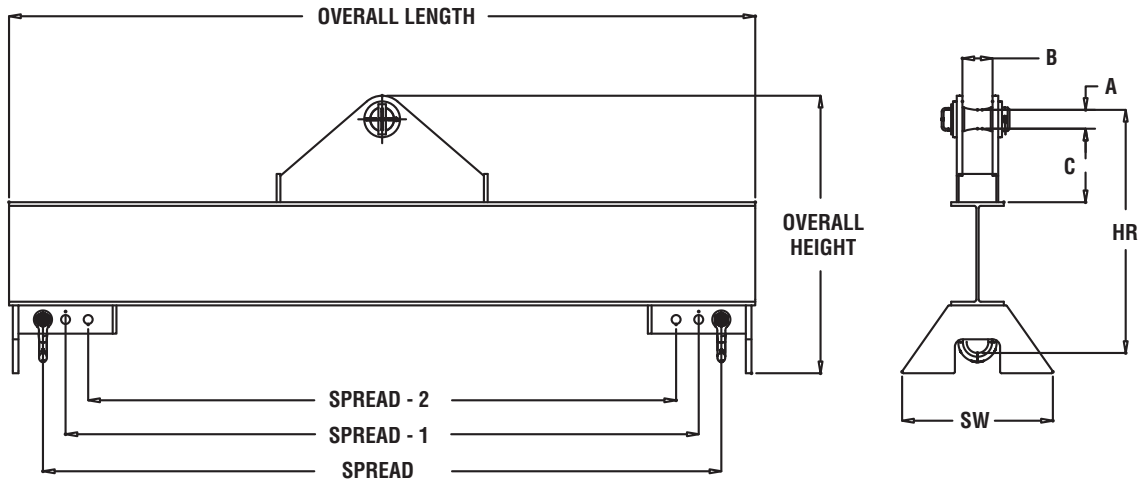
Lifting Beams

Model 20HC - High-Capacity Lifting Beams



PRODUCT FEATURES:

- Heavy duty 'I' beam construction.
- Built in beam stands for easy storage.
- Pin bail to allow for quick attachment of large crane hook.
- Beams have three spreads for flexibility.
- Lifting shackles are standard.
- Complies with ASME standards.



SPECIFICATIONS

Capacity (tons)	Model Number	Spread (ft.)	Dimensions (inches)							Weight (lbs.)
			Overall Length	HR Headroom	Overall Height	A	B	C	SW	
50	20HC-50-10	10	138	60.31	70.31					2881
	20HC-50-15	15	198	60.73	70.73	5	8	19.5	40	3841
	20HC-50-20	20	258	61.25	71.25					5161
65	20HC-65-10	10	138	61.38	70.51					3059
	20HC-65-15	15	198	64.5	73.63	5	8	19.5	40	4117
	20HC-65-20	20	258	67.8	76.93					5801
80	20HC-80-10	10	138	67.1	76.98					3663
	20HC-80-15	15	198	70.21	80.09	5.5	8	21.25	44	4808
	20HC-80-20	20	258	73.56	83.44					6674

Other sizes available, consult factory.

Lifting Beams

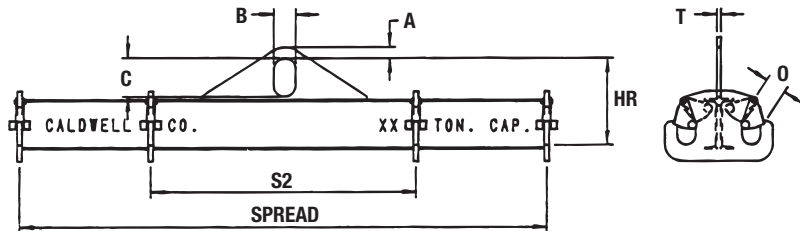
Model 22 - Heavy Duty Twin Basket Sling Lifting Beam



QUICKSHIP PROGRAM

PRODUCT FEATURES:

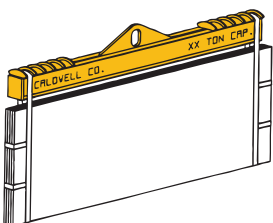
- Designed to be used with slings in a basket hitch.
- Specially designed hooks with hook latches minimize potential sling damage.
- Two sets of fixed hooks are standard in all lengths over 4'.
- The inner set of hooks (S2) are 1/2 the overall spread.
- Extra spreads available upon request.
- Complies with ASME standards.



SPECIFICATIONS

Capacity (tons)	Model Number	HR Headroom (in.)	Weight (lbs.)	Spread (feet)										Other Dimensions (in.)	
				3	4	6	8	10	12	14	16	18	20		
1/2	Model Number	22-1/2-3	22-1/2-4	22-1/2-6	22-1/2-8	22-1/2-10	22-1/2-12	22-1/2-14	22-1/2-16	22-1/2-18	22-1/2-20	22-1/2-24	22-1/2-30	A=7/8	T=3/4
	HR Headroom	8-1/2	8-1/2	8-1/2	8-1/2	9-1/2	9-1/2	10-1/2	10-1/2	11-1/2	11-1/2	12-1/2	13-1/2	B=3	O=1-1/16
	Weight	50	65	110	150	200	220	298	331	424	463	627	855	C=5	
1	Model Number	22-1-3	22-1-4	22-1-6	22-1-8	22-1-10	22-1-12	22-1-14	22-1-16	22-1-18	22-1-20	22-1-24	22-1-30	A=7/8	T=3/4
	HR Headroom	8-1/2	8-1/2	9-1/2	10-1/2	10-1/2	11-1/2	11-1/2	12-1/2	13-1/2	13-1/2	15-1/2	15-1/2	B=3	O=1-1/8
	Weight	50	65	145	210	230	290	338	390	539	588	907	1150	C=5	
2	Model Number	22-2-3	22-2-4	22-2-6	22-2-8	22-2-10	22-2-12	22-2-14	22-2-16	22-2-18	22-2-20	22-2-24	22-2-30	A=7/8	T=3/4
	HR Headroom	9-1/2	10-1/2	10-1/2	11-1/2	12-1/2	13-1/2	13-1/2	14-1/2	15-1/2	15-1/2	17-1/2	20-1/2	B=3	O=1-1/8
	Weight	70	90	160	225	300	375	447	515	725	815	1221	2272	C=5	
5	Model Number	22-5-3	22-5-4	22-5-6	22-5-8	22-5-10	22-5-12	22-5-14*	22-5-16*	22-5-18*	22-5-20*	22-5-24*	22-5-30*	A=2	T=1
	HR Headroom	13-1/2	14-1/2	15-1/2	16-1/2	16-1/2	16-1/2	19	19-1/2	22-1/2	22-1/2	25-1/2	25-1/2	B=4	T=1-1/4*
	Weight	90	160	275	350	450	500	854	940	1398	1650	2144	2330	C=7	O=1-1/8
7-1/2	Model Number	22-7 1/2-3	22-7 1/2-4	22-7 1/2-6	22-7 1/2-8	22-7 1/2-10	22-7 1/2-12	22-7 1/2-14	22-7 1/2-16	22-7 1/2-18	22-7 1/2-20	22-7 1/2-24	22-7 1/2-30	A=2	T=1-1/4
	HR Headroom	14-1/2	15-1/2	16-1/2	17-1/2	17-1/2	19-1/2	22-1/2	22-1/2	22-1/2	22-1/2	25-1/2	25-1/2	B=4	O=1-3/4
	Weight	155	180	330	410	500	700	1162	1300	1468	1606	2354	2877	C=7	
10	Model Number	22-10-3	22-10-4	22-10-6	22-10-8	22-10-10	22-10-12	22-10-14	22-10-16	22-10-18	22-10-20	22-10-24	22-10-30	A=2	T=1-1/4
	HR Headroom	15-1/2	16-1/2	17-1/2	19-1/2	22-1/2	19-1/2	22-1/2	22-1/2	25-1/2	25-1/2	25-1/2	25-1/2	B=4	O=1-3/4
	Weight	150	200	360	500	850	1000	1147	1299	1741	1943	2335	2962	C=7	
15	Model Number	22-15-3	22-15-4	22-15-6	22-15-8	22-15-10	22-15-12	22-15-14	22-15-16	22-15-18	22-15-20	22-15-24	22-15-30	A=2-1/2	T=1-1/2
	HR Headroom	18-1/2	19-1/2	21-1/2	21-1/2	24-1/2	24-1/2	27-1/2	27-1/2	27-1/2	27-1/2	27-1/2	30	B=5	O=4
	Weight	397	471	970	1240	1256	1980	2065	2100	2391	2584	4045	4100	C=9	
20	Model Number	22-20-3	22-20-4	22-20-6	22-20-8	22-20-10	22-20-12	22-20-14	22-20-16	22-20-18	22-20-20	22-20-24	22-20-30	A=2-1/2	T=1-1/2
	HR Headroom	19-1/2	21-1/2	21-1/2	24-1/2	24-1/2	24-1/2	27-1/2	27-1/2	27-1/2	27-1/2	31	31	B=5	O=4
	Weight	253	328	910	1000	1150	1740	1935	2210	2480	2755	3500	4500	C=9	

Model 22G - custom designed lifter with segmented sling saddle on the top of the beam can further reduce beam headroom and increased sling spread adjustment.



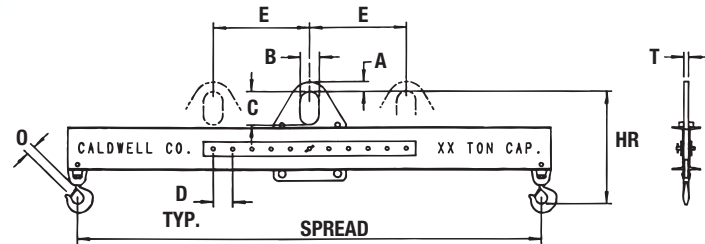
Lifting Beams

Model 24 - Adjustable Bail Lifting Beam



PRODUCT FEATURES:

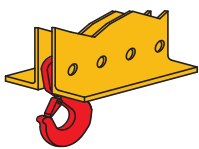
- Handles off center loads by adjusting the bail before a lift.
- Adjustable spread options available.
- Swivel hooks with hook latches standard.
- Wide range of sizes and capacities available.
- Complies with ASME standards.



SPECIFICATIONS

Rated Capacity (tons)	Model Number HR Headroom (in.) Weight (lbs.)	Spread (feet)										Other Dimensions (in.)	
		3	4	6	8	10	12	14	16	18	20		
1/2	Model Number	24-1/2-3	24-1/2-4	24-1/2-6	24-1/2-8	24-1/2-10	24-1/2-12	24-1/2-14	24-1/2-16	24-1/2-18	24-1/2-20	A=1-1/2	T=5/8
	HR Headroom	13-1/2	13-1/2	13-1/2	12-5/8	13-1/2	13-1/2	13-1/2	14-1/2	14-1/2	14-1/2	B=3	O=1
	Weight	47	56	75	82	95	147	168	255	278	304	C=5	
1	Model Number	24-1-3	24-1-4	24-1-6	24-1-8	24-1-10	24-1-12	24-1-14	24-1-16	24-1-18	24-1-20	A=1-1/2	T=5/8
	HR Headroom	13-1/2	13-5/8	13-5/8	14-5/8	14-5/8	14-5/8	15-5/8	15-5/8	16-1/2	16-1/2	B=3	O=1
	Weight	47	56	83	126	170	198	268	298	409	449	C=5	
2	Model Number	24-2-3	24-2-4	24-2-6	24-2-8	24-2-10	24-2-12	24-2-14	24-2-16	24-2-18	24-2-20	A=1-1/2	T=3/4
	HR Headroom	14	15-1/8	15-1/8	16-1/8	18-1/2	17-1/8	18-1/4	18-1/4	19-1/2	19-1/2	B=3	O=1
	Weight	48	89	117	170	240	278	369	416	547	605	C=5	
5	Model Number	24-5-3	24-5-4	24-5-6	24-5-8	24-5-10	24-5-12	24-5-14*	24-5-16*	24-5-18*	24-5-20*	A=2	T=1
	HR Headroom	21-1/2	21-1/2	21-1/2	22-1/2	23-1/2	27	27	28	29	30-3/8	B=4	O=1
	Weight	140	160	215	304	430	633	664	746	1321	1525	C=7	O=1-1/2*
10	Model Number	24-10-3	24-10-4	24-10-6	24-10-8	24-10-10	24-10-12	24-10-14	24-10-16	24-10-18	24-10-20	A=2	T=1-1/4
	HR Headroom	25-3/4	25-3/4	28-3/4	28-3/4	31-3/4	31-3/4	31-3/4	31-3/4	34-3/4	34-3/4	B=4	O=1-3/4
	Weight	210	211	432	522	759	993	1128	1257	1738	1908	C=7	
15	Model Number	24-15-3	24-15-4	24-15-6	24-15-8	24-15-10	24-15-12	24-15-14	24-15-16			A=2-1/2	T=1-1/2
	HR Headroom	28-1/4	30-1/2	33-1/2	33-1/2	33-1/2	37	37	37			B=5	O=2
	Weight	252	330	502	542	882	1455	1630	1800			C=9	
20	Model Number	24-20-3	24-20-4	24-20-6	24-20-8	24-20-10	24-20-12					A=2-1/2	T=1-1/2
	HR Headroom	31	34	37	34	37	37					B=5	O=2
	Weight	315	399	735	720	1276	1251					C=9	

Other Dimensions (in.)	D=3	D=3	D=3	D=4	D=4	D=4	D=4	D=6	D=6	D=6	D=6
	E=6	E=9	E=12	E=16	E=20	E=24	E=24	E=30	E=36	E=42	E=48

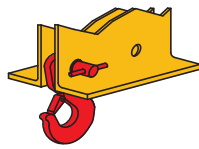


OPTION A*

EXTRA HOLES

Allows for multiple hook positioning. Specify number and spread(s) required.

*Could increase headroom.

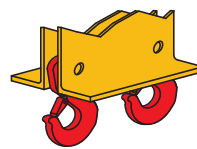


OPTION B

FASPINS

For ease of positioning hooks with quick release.

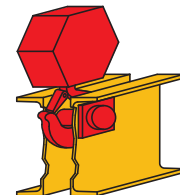
Specify number of faspins required.



OPTION C

EXTRA HOOKS

Allows for multiple pick points. Specify number of hooks required.



OPTION D

PIN TYPE BAIL

Lifting pin located between structural channel. (Hoist hook information must be supplied.)

Lifting Beams

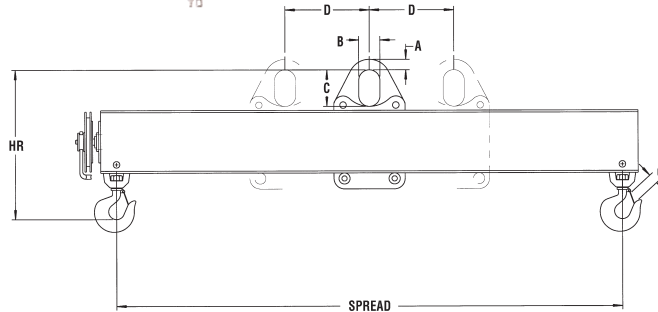
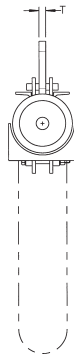
Model 26 - Load Leveler Lifting Beam



* 4' minimum length

PRODUCT FEATURES:

- Handles off center loads by adjusting the bail before a lift.
- Infinite adjustment of bail within range.
- Swivel hooks with hook latches standard.
- Wide range of sizes and capacities available.
- Complies with ASME standards.

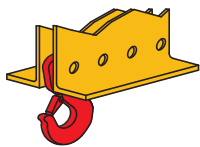


Adjust manual chain wheel before lift.

SPECIFICATIONS (chain wheel model only)

Rated Capacity (tons)	Model Number HR Headroom (in.) Weight (lbs.)	Spread (feet)										Other Dimensions (in.)	
		4	6	8	10	12	14	16	18	20	24		
2	Model Number	26-2-4	26-2-6	26-2-8	26-2-10	26-2-12	26-2-14	26-2-16	26-2-18	26-2-20	26-2-24	A=1-1/2	T=5/8
	HR Headroom	15-1/8	15-1/8	16-1/8	17-1/8	17-1/8	18-1/8	18-1/8	19-1/8	19-1/8	20-1/8	B=3	O=1
	Weight	135	185	260	329	377	481	538	680	750	1265	C=5	
5	Model Number	26-5-4	26-5-6	26-5-8	26-5-10	26-5-12	26-5-14	26-5-16	26-5-18	26-5-20	26-5-24	A=2	T=1
	HR Headroom	21-1/2	21-1/2	23-1/2	23-1/2	25-1/2	25-1/2	25-1/2	28-1/2	28-1/2	28-1/2	B=4	O=1
	Weight	170	270	382	475	681	777	950	1455	1603	2345	C=7	
10	Model Number	26-10-4	26-10-6	26-10-8	26-10-10	26-10-12	26-10-14	26-10-16	26-10-18	26-10-20	26-10-24	A=2	T=1-1/4
	HR Headroom	25-3/4	28-3/4	28-3/4	31-3/4	31-3/4	31-3/4	31-3/4	34-3/4	34-3/4	34-3/4	B=4	O=1-3/4
	Weight	257	440	522	940	1094	1243	1388	1875	2056	2560	C=7	
15	Model Number	26-15-4	26-15-6	26-15-8	26-15-10	26-15-12	26-15-14	26-15-16				A=2-1/2	T=1-1/2
	HR Headroom	30-1/2	33-1/2	33-1/2	33-1/2	36-1/2	36-1/2	36-1/2				B=5	O=1-3/4
	Weight	376	565	622	972	1319	1418	1513				C=9	
20	Model Number	26-20-4	26-20-6	26-20-8	26-20-10	26-20-12						A=2-1/2	T=1-1/2
	HR Headroom	34	37	37	37	37						B=5	O=2
	Weight	445	798	900	1050	2250						C=9	

Bail Adjustment (in.)	D=8	D=12	D=16	D=20	D=24	D=28	D=32	D=36	D=40	D=48
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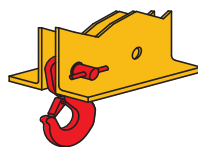


OPTION A

EXTRA HOLES

Allows for multiple hook positioning. Specify number and spread(s) required.

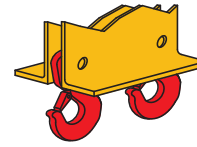
*Could increase headroom.



OPTION B

FASPINS

For ease of positioning hooks with quick release. Specify number of faspins required.



OPTION C

EXTRA HOOKS

Allows for multiple pick points. Specify number of hooks required.

MOTORIZED ADJUSTMENT Please see our Posi-Leveler™.

Lifting Beams

Model 26P - Posi-Leveler™ Motorized Load Leveling Beam



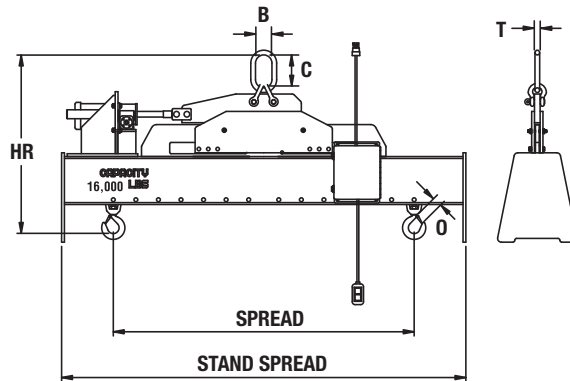
Show with special swivel bearing load hooks.

PRODUCT FEATURES:

- Motorized Posi-Leveler™ adjusts to the center of gravity during lift.
- Swivel hooks with hook latches are standard.
- Custom sizes are available.
- Push button pendent control with radio control option.
- Standard bail adjustment 6" each side of center, with optional 12" adjustment each side of center available.
- Complies with ASME standards.

OPTIONS:

- Power Cord Reel
- Pendent Cord Reel
- Auto-Leveler™ see pages C.10 - C.11 for details.
- Remote Control Push-Button



SPECIFICATIONS

Rated Capacity (tons)	Model Number HR Headroom (in.) Weight (lbs.)	Spread (feet)								Other Dimensions (in.)	
		8	10	12	14	16	18	20	24		
2	Model Number	26P-2-8	26P-2-10	26P-2-12	26P-2-14	26P-2-16	26P-2-18	26P-2-20	26P-2-24	B=2.8 C=4.8	T=3/4 O=1
	HR Headroom	28.7	29.7	29.7	33	33	35	35	37.4		
	Weight	370	435	465	575	620	805	880	1300		
3	Model Number	26P-3-8	26P-3-10	26P-3-12	26P-3-14	26P-3-16	26P-3-18	26P-3-20	26P-3-24	B=2.8 C=4.8	T=3/4 O=1
	HR Headroom	30.3	31.3	33.3	33.3	33.3	33.3	35.3	38.3		
	Weight	405	480	610	695	760	820	1015	1300		
5	Model Number	26P-5-8	26P-5-10	26P-5-12	26P-5-14	26P-5-16	26P-5-18	26P-5-20	26P-5-24	B=3.5 C=6.0	T=1 O=1
	HR Headroom	36.8	36.8	38.8	38.8	38.8	43.8	43.8	44.8		
	Weight	620	680	875	990	1070	1640	1800	2380		
7-1/2	Model Number		26P-7 1/2-10	26P-7 1/2-12	26P-7 1/2-14	26P-7 1/2-16	26P-7 1/2-18			B=4.4 C=7.5	T=1-1/4 O=1-3/4
	HR Headroom		46.8	46.8	49.5	49.5	49.5				
	Weight		1105	1185	1680	1815	1950				
10	Model Number		26P-10-10	26P-10-12	26P-10-14	26P-10-16	26P-10-18			B=4.4 C=7.5	T=1-1/4 O=1-3/4
	HR Headroom		49.5	49.5	49.5	49.5	52.5				
	Weight		1475	1610	1780	1915	2375				
15	Model Number		26P-15-10	26P-15-12	26P-15-14					B=5.3 C=9.6	T=1-1/2 O=1-3/4
	HR Headroom		52.7	55.7	55.7						
	Weight		1625	1980	2190						
20	Model Number		26P-20-10	26P-20-12						B=6.0 C=10.0	T=1-3/4 O=2
	HR Headroom		64	64							
	Weight		1965	2130							

Lifting Beams

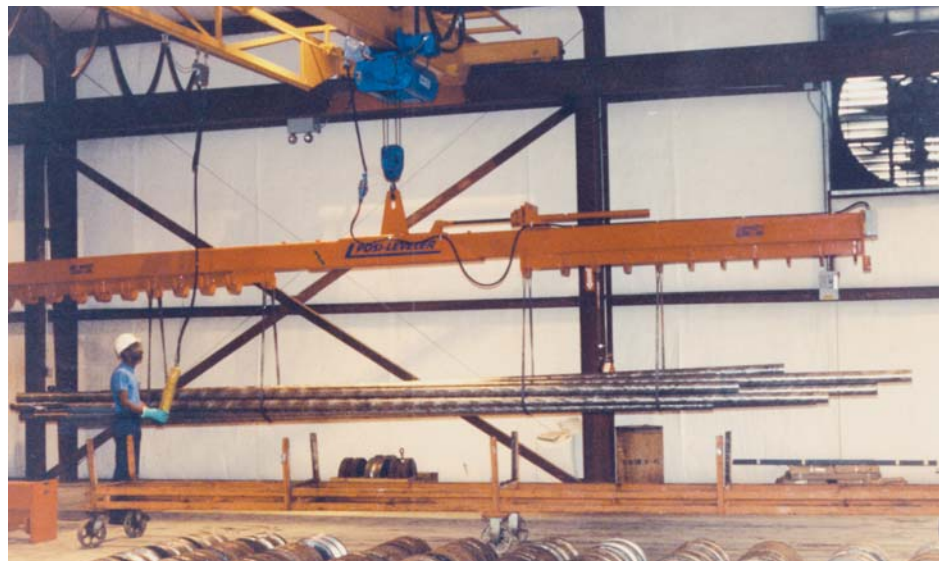
The Posi-Leveler™ allows for motorized adjustment of the beams central lifting point during the lift to always maintain a balanced load. This feature can be used for fine adjustment of the center of gravity during the lift. Leveling uneven loads during the lift saves rigging time and promotes a safer work environment.

IDEAL FOR:

- Bundles
- Odd or irregular shaped loads
- Weldments
- Paper roll handling
- Sheet handling



Special 4-point Posi-Leveler™ with load guides.



Lifting Beams

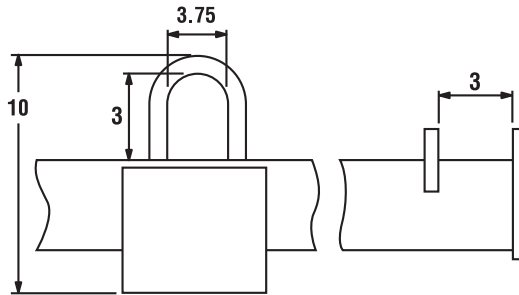
Model 27SL - Bulk Container Lifting Beams



QUICKSHIP PROGRAM

PRODUCT FEATURES:

- Constructed of tubing for smooth surface with no sharp edges.
- Low headroom design.
- Easily attach to load with open lifting lugs.
- Lug spacing will hold up to a 3" wide loop.
- Oversized lifting eye to accept a wide range of hooks.
- Complies with ASME standards.



NOTE: All dimensions shown in inches.



SPECIFICATIONS

Model Number	Capacity (lbs.)	Span (in.)	Weight (lbs.)
27SL-1MT-36	2200	36	150
27SL-1MT-48	2200	48	185
27SL-2MT-36	4400	36	155
27SL-2MT-48	4400	48	190

Other sizes available, please consult factory.

Model 27SD - Standard Adjustable Four Point Lifting Beam



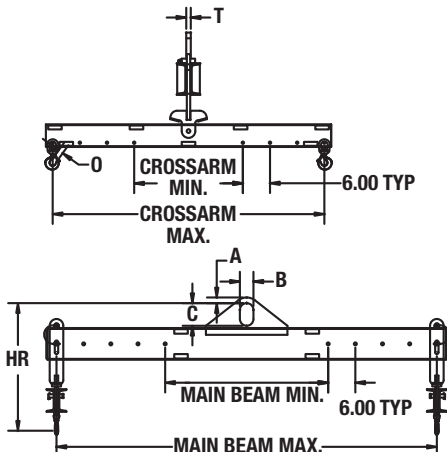
PRODUCT FEATURES:

- Low headroom design.
- Swivel hooks with latches standard.
- Adjustable spreads on 1' increments.
- Faspins for easy crossarm adjustment.
- Complies with ASME standards.

SPECIFICATIONS

Model Number	Capacity (tons)	Dimensions (inches)								Weight (lbs.)
		Main Beam Min./Max.	Crossarms Min./Max.	HR	Bail				O	
					A	B	C	T		
27SD-3-84/60	3	36/84	24/60	28.2	1.25	3	5	1	0.97	375
27SD-5-120/96	5	48/120	36/96	32.7	2	4	7	1.25	1.06	760
27SD-10-144/96	10	72/144	36/96	42.0	2	4	7	1.25	1.41	1530

Custom sizes and capacities available. Please fill out the Lifting Beam Application Evaluation on page A.22.

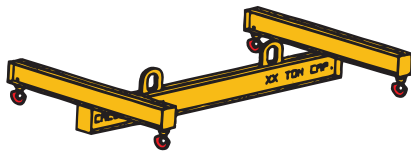


Lifting Beams

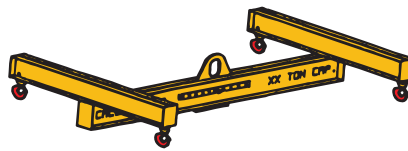
Model 27F - Four Point Lifting Beams



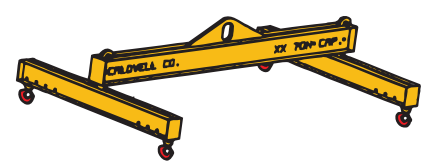
This low headroom lifting beam handles large loads using multiple pick points. Each unit is custom designed for your specific application. Complies with ASME standards.



OPTION A
MULTIPLE BAILES
Use 2 or 4 hoists to increase lifting stability.



OPTION B
ADJUSTABLE BAIL
Is used when load-leveling capability is required along length of load.



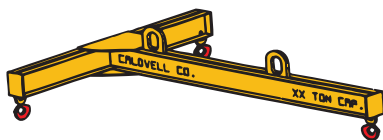
OPTION C
ADJUSTABLE SPREAD
Use when adjustability in length and width is required.

Model 27T - Three Point Lifting Beams

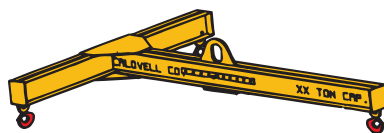


Shown with Option B

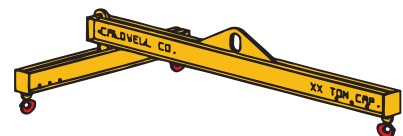
This low headroom lifting beam handles large loads using multiple pick points. Each unit is custom designed for your specific application. Complies with ASME standards.



OPTION A
MULTIPLE BAILES
Use 2 hoists to increase lifting stability.



OPTION B
ADJUSTABLE BAIL
Is used when load-leveling capability is required along length of load.



OPTION C
ADJUSTABLE SPREAD
Use when adjustability in length and width is required.

Lifting Beams



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Strong-Bac® Section
2014-2016 Master Catalog

Model 25 - Twin Hoist Lifting Beam



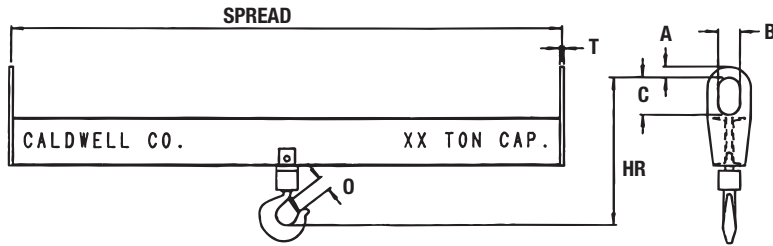
PRODUCT FEATURES:

- Use two or more hoists to increase lifting stability.
- Swivel hook with hook latch.
- Several options are available for added versatility.
- Complies with ASME standards.

OPTION D

Roller bearing hook shown (standard on 30 and 40 ton models).

QUICKSHIP PROGRAM



SPECIFICATIONS

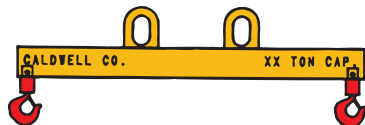
Capacity (tons)	Model Number HR Headroom (in.) Weight (lbs.)	Spread (feet)									Other Dimensions (in.)
		6	8	10	12	14	16	18	20	24	
2	Model Number	25-2-6	25-2-8	25-2-10	25-2-12	25-2-14	25-2-16	25-2-18	25-2-20	25-2-24	A=1-1/2 T=5/8
	HR Headroom	16-3/4	16-3/4	17-3/4	17-3/4	18-3/4	18-3/4	18-3/4	18-3/4	19-3/4	B=3 O=1-1/8
	Weight	125	160	240	280	360	400	530	660	790	C=5
4	Model Number	25-4-6	25-4-8	25-4-10	25-4-12	25-4-14	25-4-16	25-4-18	25-4-20	25-4-24	A=1-1/2 T=5/8
	HR Headroom	20	21	22	23	23	25	25	25	26	B=3 O=1-1/2
	Weight	160	240	310	410	500	725	805	890	1695	C=5
6	Model Number	25-6-6	25-6-8	25-6-10	25-6-12	25-6-14	25-6-16	25-6-18	25-6-20	25-6-24	A=1-1/2 T=3/4
	HR Headroom	27-1/2	28-1/2	28-1/2	30-1/2	30-1/2	30-1/2	30-1/2	30-1/2	31-1/2	B=3 O=2-1/16
	Weight	220	300	380	550	640	780	1310	1450	1735	C=5
10	Model Number	25-10-6	25-10-8	25-10-10	25-10-12	25-10-14	25-10-16	25-10-18	25-10-20	25-10-24	A=2 T=1
	HR Headroom	29	29	32	32	32	32	32	32	33	B=4 O=2-1/4
	Weight	340	420	800	920	1100	1220	1705	1840	2230	C=7
15	Model Number		25-15-8	25-15-10	25-15-12	25-15-14	25-15-16	25-15-18	25-15-20		A=2 T=1-1/4
	HR Headroom		38-1/4	38-1/4	38-1/4	41-1/4	41-1/2	41-1/2	41-1/2		B=4 O=2-1/4
	Weight		740	865	1050	1930	2158	2290	2500		C=7
20	Model Number		25-20-8	25-20-10	25-20-12	25-20-14	25-20-16	25-20-18			A=2 T=1-1/4
	HR Headroom		35-1/2	38-1/2	38-1/2	38-1/2	38-1/2	38-1/2			B=4 O=3
	Weight		830	1130	1266	1926	2196	2430			C=7
30	Model Number		25-30-8	25-30-10	25-30-12						A=2-1/2 T=1-1/2
	HR Headroom		54	54	54						B=5 O=3-3/4
	Weight		1120	1325	1610						C=9
40	Model Number		25-40-8	25-40-10	25-40-12						A=2-1/2 T=1-1/2
	HR Headroom		58-1/2	58-1/2	58-1/2						B=5 O=4-1/4
	Weight		1165	1470	1700						C=9

See Model 21 (p. A.21) for Twin Hoist Rotating Beam



OPTION A

Off-set hook for hoists of different capacities.



OPTION B

Multiple load hooks, some outside the bail span.



OPTION C

Center bail and extra pair of hooks for maximum versatility.

Lifting Beams

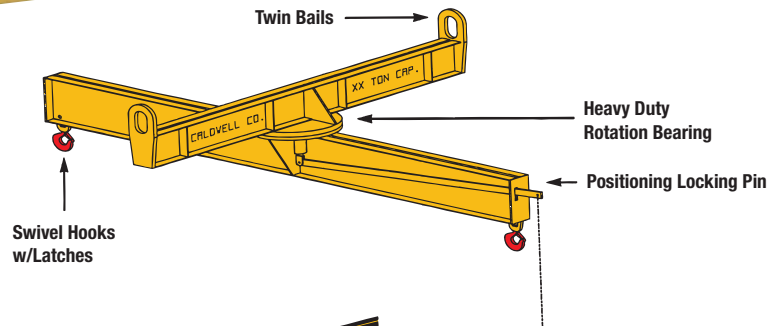
Model 21 - Twin Hoist Rotating Lifting Beams

A specially designed lifting and rotating beam using two cranes or two hoists to horizontally rotate a load. A position locking pin holds the load rotation at a designated position. Available with motorized rotation.



PRODUCT FEATURES:

- Wide range of sizes and capacities available.
- Complies with ASME standards.



OPTION A

TWIN HOOKS

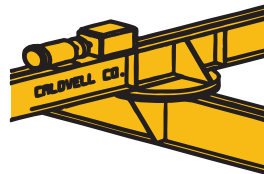
Used in conjunction with basket hitch slings.



OPTION B

J HOOKS

Generally required to lift paper rolls or similar application. (Use Paper Roll Lifters - Application Evaluation, page A.36.)



OPTION C

MOTORIZED ROTATION

Allows remote positioning of a load.



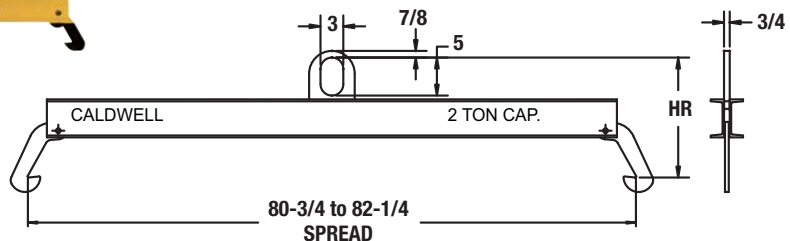
OPTION D

LOWER HEADROOM BAILS

Utilized when headroom must be held to a minimum. Crane hook data must be supplied, see page A.22.

Model 28 - Chlorine Cylinder Lifting Beam

Designed to efficiently handle standard chlorine gas cylinders. Standard size determined by the Chlorine Institute is 80-3/4" to 82-1/4" in length. Special low headroom modification is available.



NOTE: All dimensions shown in inches.

QUICKSHIP PROGRAM

SPECIFICATIONS

Model Number	Capacity (tons)	HR Headroom (in.)	Weight (lbs.)
28-2-80/82	2	16-1/2 - 15-1/2	105

Lifting Beams - Application Evaluation

LOAD INFORMATION:

Describe load: _____

Maximum weight: _____

Number of pickup points: _____

Distance between (spacing) pickup points: _____

Is load center of gravity centered between outer pick points? Yes No

If no, specify location in reference to pick points (attach a diagram if necessary): _____

What type of attachment to the load?

Shackles Swivel Hooks Lifting Slings Other (specify) _____

Describe specific requirements: _____

CRANE INFORMATION:

Approximate distance between load and crane: _____

Dual crane hoist information

Distance between: _____

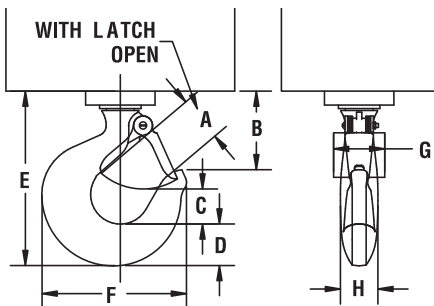
Single crane hoist information

Same capacity? Yes No

Capacity: _____

If no, specify capacities: _____

CRANE HOOK DATA:



INCHES	
A	+0
B	+0
C	+0
D	-0
E	-0
F	+/-
G	-0
H	-0

Contact: _____

Company: _____

Address: _____

City, State, Zip: _____

Phone: _____

Fax: _____

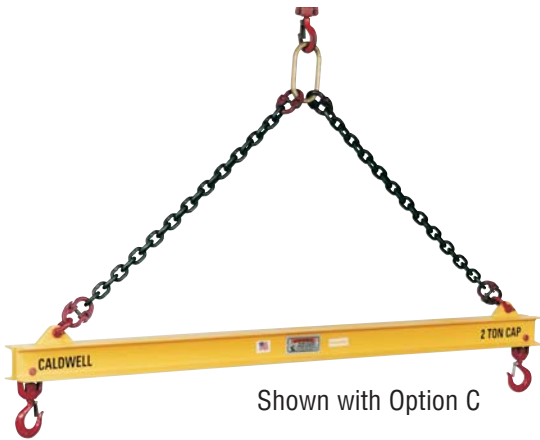
Email: _____

- Measurement Tolerances
- +0 = Measurement should be no larger but can be smaller than actual.
 - 0 = Measurement should be no smaller but can be larger than actual.
 - +/- = Measurement can be larger or smaller than actual.

For a price quote on your specific application, please complete the above form and fax to The Caldwell Group at **815-229-5686** or you can complete this form online at www.caldwellinc.com/applications.

Spreader Beams

Model 30 - Fixed Spreader Beams

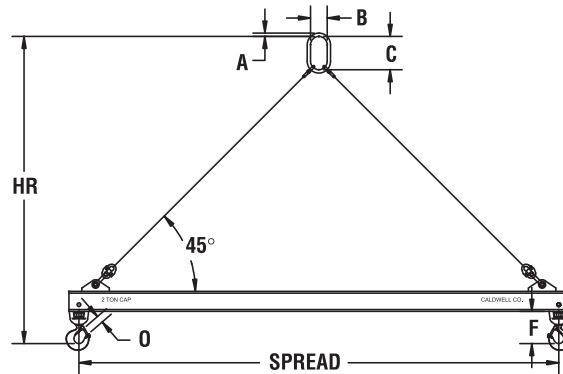


Shown with Option C
Specify Top Rigging

**QUICKSHIP
PROGRAM**

PRODUCT FEATURES:

- Ideal where headroom is not limited.
- Adds stability to lift.
- Available with standard chain or wire rope rigging.
- Available with Adjust-A-Leg® rigging for off center load adjustment (minimum lifting capacity will be approximately 10-15% of beam rating).
- Wide range of additional sizes and capacities available.
- Complies with ASME standards.



SPECIFICATIONS

Capacity (tons)	Model Number HR Headroom (in.) Weight (lbs.)	Spread (feet)								Other Dimensions (in.)	
		4	6	8	10	12	16	20	24		
2	Model Number	30-2-4	30-2-6	30-2-8	30-2-10	30-2-12	30-2-16	30-2-20	30-2-24	A=1/2	F=4-1/4
	HR Headroom	34	46	58	70	82	106	132	156	B=2-1/2	O=31/32
	Weight	45	60	82	95	115	225	408	445	C=5	
5	Model Number	30-5-4	30-5-6	30-5-8	30-5-10	30-5-12	30-5-16	30-5-20	30-5-24	A=1	F=6
	HR Headroom	37	49	61	73	83	110	134	158	B=3-1/2	O=1-1/16
	Weight	62	78	100	117	168	305	435	661	C=7	
10	Model Number	30-10-4	30-10-6	30-10-8	30-10-10	30-10-12	30-10-16	30-10-20	30-10-24	A=1-1/4	F=8-1/8
	HR Headroom	41	53	64	77	86	113	138	163	B=4-3/8	O=1-1/2
	Weight	100	122	156	180	240	380	532	915	C=8-3/4	
15	Model Number	30-15-4	30-15-6	30-15-8	30-15-10	30-15-12	30-15-16	30-15-20	30-15-24	A=1-1/2	F=9-1/4
	HR Headroom	43	55	65	80	92	116	140	167	B=5-1/4	O=1-3/4
	Weight	126	155	185	242	270	420	665	953	C=10-1/2	
20	Model Number	30-20-4	30-20-6	30-20-8	30-20-10	30-20-12	30-20-16	30-20-20	30-20-24	A=1-3/4	F=9-3/4
	HR Headroom	46	58	69	82	94	118	140	170	B=6	O=2
	Weight	170	200	233	315	350	540	775	1341	C=12	
30	Model Number		30-30-6	30-30-8	30-30-10	30-30-12	30-30-16	30-30-20		A=1-3/4	F=9-3/4
	HR Headroom		60	70	83	95	120	145		B=6	O=2
	Weight		285	402	440	530	888	1390		C=12	
40	Model Number		30-40-6	30-40-8	30-40-10	30-40-12	30-40-16			A=2	F=13
	HR Headroom		65	77	89	102	127			B=7	O=2-3/4
	Weight		563	695	781	1058	1364			C=14	

NOTE: Weight = Beam and hooks only - (no top rigging).

TOP RIGGING OPTIONS

OPTION C

Chain top rigging from beam to crane hook.

OPTION W

Wire rope top rigging from beam to crane hook.

OPTION A

Adjust-A-Leg® sling top rigging for off-center load adjustment (not included in QUICKSHIP Program).

Spreader Beams

Model 32 - Adjustable Spreader Beams

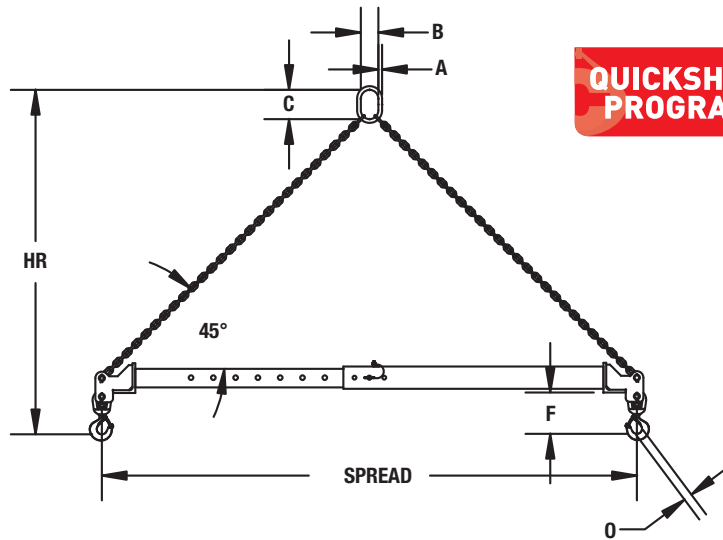


Shown with Option C

Specify Top Rigging

PRODUCT FEATURES:

- Ideal where headroom is not limited.
- Adds stability to lift.
- Telescopic spread standard.
- Spread adjusts in 1" increments.
- Available with standard chain or wire rope rigging.
- Available with Adjust-A-Leg® rigging for off center load adjustment (minimum lifting capacity will be approximately 10-15% of beam rating).
- Wide range of additional sizes and capacities available.
- Complies with ASME standards.



SPECIFICATIONS

Capacity (tons)	Model Number	Spread (ft.) Min./Max.	HR Headroom Min./Max. w/chain (in.)	Weight Beam & Hooks (lbs.)	A Oblong Dia. (in.)	B Oblong Width (in.)	C Oblong Height (in.)	F - Hook To Beam Bottom (in.)	O - Hook Opening w/latch (in.)	Chain Rigging Weight (lbs.)
2	32-2-4/6	4 / 6	48/57	70	1/2	2.36	3.94	5.5	0.97	9
	32-2-6/10	6 / 10	72/88	85						13
	32-2-8/14	8 / 14	96/113	175						17
	32-2-12/20	12 / 20	132/166	245						23
5	32-5-4/6	4 / 6	55/64	105	1	5.38	7.09	8.4	1.41	34
	32-5-6/10	6 / 10	79/95	160						47
	32-5-8/14	8 / 14	102/126	205						61
	32-5-12/20	12 / 20	138/172	670						82
10	32-10-4/6	4 / 6	60/69	130	1-1/4	5.71	10.83	10.6	1.78	49
	32-10-6/10	6 / 10	74/111	175						69
	32-10-8/14	8 / 14	108/132	460						88
	32-10-12/20	12 / 20	144/163	680						118
15	32-15-4/6	4 / 6	64/72	165	1-1/2	5.90	10.5	13.6	2.22	78
	32-15-6/10	6 / 10	87/104	365						111
	32-15-8/14	8 / 14	111/135	478						145
	32-15-12/20	12 / 20	147/180	700						194

TOP RIGGING OPTIONS

OPTION C

Chain top rigging from beam to crane hook with coupler attachment.

OPTION W

Wire rope top rigging from beam to crane hook. WR Lug required for 25-40 TON capacity beams.

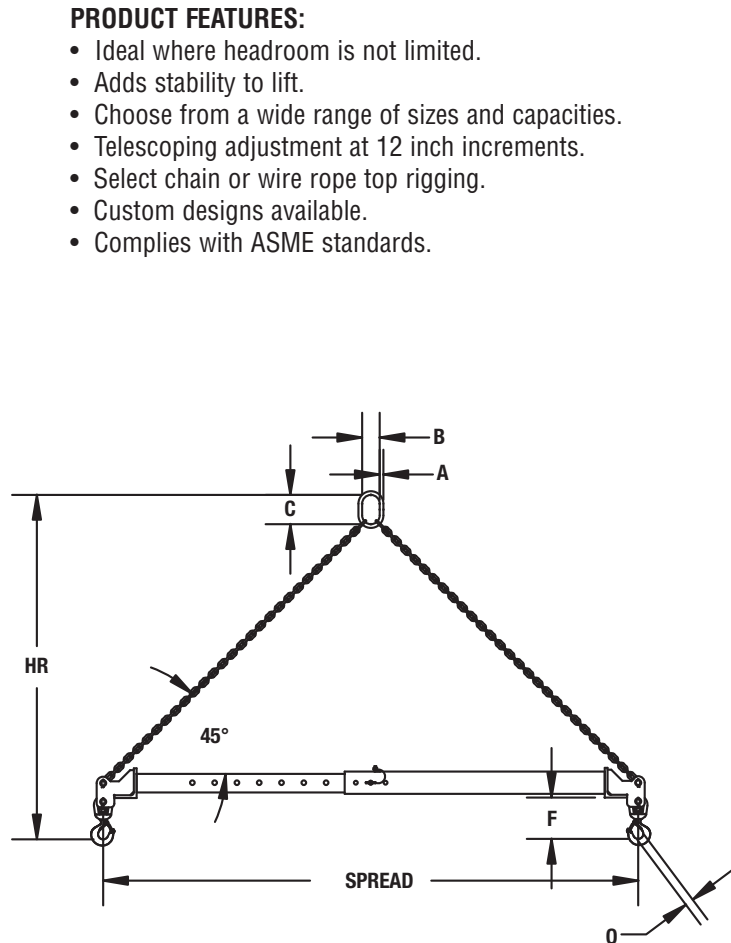
Spreader Beams

Model 32 - Adjustable Spreader Beams



Shown with Option C

Specify Top Rigging*



SPECIFICATIONS

Capacity (tons)	Model Number	Spread (ft) Min / Max	Headroom Min/Max (in.)	Beam & Hook Weight (lbs.)	A Oblong Dia (in.)	B Oblong Width (in.)	C Oblong Height (in.)	F - Hook to beam Bottom (in.)	O - Hook Opening w/ latch (in.)	Chain Rigging Weight (lbs)
20	32-20-7/11	7 / 11	93/107	430	1.75	6.0	12.0	14.2	2.27	175
	32-20-9/15	9 / 15	123/144	540						225
	32-20-12/20	12 / 20	151/180	822						275
25	32-25-7/11	7 / 11	98/107	430	2	7.0	14.0	14.2	2.27	240
	32-25-9/15	9 / 15	119/141	540						295
	32-25-12/20	12 / 20	149/179	825						365
30	32-30-7/11	7 / 11	102/115	615	2	7.0	14.0	18.3	3.02	240
	32-30-9/15	9 / 15	124/145	750						295
	32-30-12/20	12 / 20	154/183	1065						365
40	32-40-7/11	7 / 11	105/118	620	2.25	8.0	16.0	18.3	3.02	375
	32-40-9/15	9 / 15	127/148	840						470
	32-40-12/20	12 / 20	154/184	1500						565

TOP RIGGING OPTIONS

OPTION C

Chain top rigging from beam to crane hook with coupler attachment.

OPTION W*

Wire rope top rigging from beam to crane hook.
*Wire Rope Top Rigging requires a lug, please specify if you will be attaching to wire rope top rigging, even when not ordering the top rigging with your beam.

Spreader Beams



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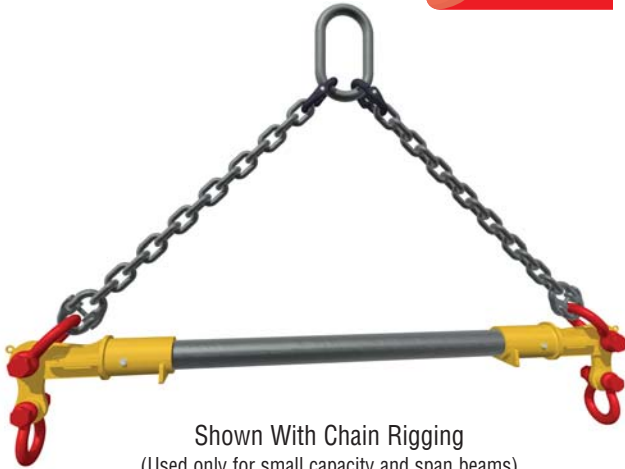
Model 30HC - High Capacity Spreader Beam

Caldwell's new High Capacity Spreader Beam is the solution you need to fill those orders where a quick delivery is required on beams with capacities ranging from 5 to 130 tons!

PRODUCT FEATURES:

- Unique pivoting lower lugs allow for 75° to 90° lower rigging angle.
- Capacities from 5 to 130 tons.
- Beam only available in 7 - 10 days.
- Optional wire rope top rigging available.
- Complies with ASME standards.

QUICKSHIP PROGRAM



Shown With Chain Rigging
(Used only for small capacity and span beams)



Shown With Wire Rope Rigging
(Not available in our QuickShip Program)

SPECIFICATIONS

	6	8	10
50 ton	30HC - 50 - 6	30HC - 50 - 8	30HC - 50 - 10
Weight (lbs.)*	420	460	760
HR at 45° (in.)	N/A	N/A	92
HR at 60° (in.)	94	114	136
Bottom Shackle	25 Ton BTAS	25 Ton BTAS	25 Ton BTAS
Top Shackle	35 Ton BTAS	35 Ton BTAS	35 Ton BTAS
60 ton		30HC - 60 - 8	30HC - 60 - 10
Weight (lbs.)*		840	920
HR at 45° (in.)		84	96
HR at 60° (in.)		120	140
Bottom Shackle		55 Ton BTAS	55 Ton BTAS
Top Shackle		55 Ton BTAS	55 Ton BTAS
70 ton		30HC - 70 - 8	30HC - 70 - 10
Weight (lbs.)*		840	920
HR at 45° (in.)		84	96
HR at 60° (in.)		120	140
Bottom Shackle		55 Ton BTAS	55 Ton BTAS
Top Shackle		55 Ton BTAS	55 Ton BTAS
80 ton		30HC - 80 - 8	30HC - 80 - 10
Weight (lbs.)*		840	920
HR at 45° (in.)		84	N/A
HR at 60° (in.)		120	140
Bottom Shackle		55 Ton BTAS	55 Ton BTAS
Top Shackle		55 Ton BTAS	55 Ton BTAS
90 ton		30HC - 90 - 8	30HC - 90 - 10
Weight (lbs.)*		1420	1600
HR at 45° (in.)		84	96
HR at 60° (in.)		120	140
Bottom Shackle		55 Ton BTAS	55 Ton BTAS
Top Shackle		85 Ton BTAS	85 Ton BTAS
100 ton		30HC - 100 - 8	30HC - 100 - 10
Weight (lbs.)*		1420	1600
HR at 45° (in.)		84	96
HR at 60° (in.)		120	140
Bottom Shackle		55 Ton BTAS	55 Ton BTAS
Top Shackle		85 Ton BTAS	85 Ton BTAS
110 ton		30HC - 110 - 8	30HC - 110 - 10
Weight (lbs.)*		1420	1600
HR at 45° (in.)		84	96
HR at 60° (in.)		120	140
Bottom Shackle		55 Ton BTAS	55 Ton BTAS
Top Shackle		85 Ton BTAS	85 Ton BTAS
120 ton		30HC - 120 - 8	30HC - 120 - 10
Weight (lbs.)*		1450	1620
HR at 45° (in.)		96	108
HR at 60° (in.)		130	152
Bottom Shackle		85 Ton BTAS	85 Ton BTAS
Top Shackle		85 Ton BTAS	85 Ton BTAS
130 ton		30HC - 130 - 8	30HC - 130 - 10
Weight (lbs.)*		1450	1620
HR at 45° (in.)		96	108
HR at 60° (in.)		130	152
Bottom Shackle		85 Ton BTAS	85 Ton BTAS
Top Shackle		85 Ton BTAS	85 Ton BTAS

*Weight is beam only, does not include shackles or top rigging.

Spreader Beams

Capacity and spread configurations are virtually limitless.

The chart below highlights sizes available from 50 to 130 tons. You can review our complete high capacity spreader beam chart, starting at 5 tons, online at www.caldwellinc.com. For beam customizations, please fill out an application evaluation form online or contact us with complete details and we will configure the high capacity spreader beam you need!

Spread in Feet								
	12	16	20	24	28	32	36	40
30HC - 50 - 12	30HC - 50 - 16	30HC - 50 - 20	30HC - 50 - 24	30HC - 50 - 28	30HC - 50 - 32	30HC - 50 - 36	30HC - 50 - 40	
850	1020	1190	1370	1540	1710	3750	4010	
104	128	152	N/A	N/A	N/A	254	278	
156	198	240	282	324	364	412	454	
25 Ton BTAS	25 Ton BTAS	25 Ton BTAS	25 Ton BTAS	25 Ton BTAS	25 Ton BTAS	55 Ton BTAS	55 Ton BTAS	
35 Ton BTAS	35 Ton BTAS	35 Ton BTAS	35 Ton BTAS	35 Ton BTAS	35 Ton BTAS	55 Ton BTAS	55 Ton BTAS	
30HC - 60 - 12	30HC - 60 - 16	30HC - 60 - 20	30HC - 60 - 24	30HC - 60 - 28	30HC - 60 - 32	30HC - 60 - 36	30HC - 60 - 40	
1010	1190	1360	1530	1710	1880	3750	4100	
108	132	N/A	N/A	N/A	N/A	254	278	
162	204	246	286	328	370	412	454	
55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	
55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	
30HC - 70 - 12	30HC - 70 - 16	30HC - 70 - 20	30HC - 70 - 24	30HC - 70 - 28	30HC - 70 - 32	30HC - 70 - 36	30HC - 70 - 40	
1010	1190	2330	2690	3040	3400	3750	4100	
N/A	N/A	156	180	204	230	254	278	
162	204	246	286	328	370	412	454	
55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	
55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	
30HC - 80 - 12	30HC - 80 - 16	30HC - 80 - 20	30HC - 80 - 24	30HC - 80 - 28	30HC - 80 - 32	30HC - 80 - 36	30HC - 80 - 40	
1010	1190	2330	2690	3040	3400	3750	4100	
N/A	N/A	156	180	204	230	254	278	
162	204	246	286	328	370	412	452	
55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	
55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	
30HC - 90 - 12	30HC - 90 - 16	30HC - 90 - 20	30HC - 90 - 24	30HC - 90 - 28	30HC - 90 - 32	30HC - 90 - 36	30HC - 90 - 40	
1780	2130	2490	2840	3200	3550	3900	4260	
108	132	156	180	204	230	254	N/A	
162	204	246	286	328	370	412	452	
55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	
85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	
30HC - 100 - 12	30HC - 100 - 16	30HC - 100 - 20	30HC - 100 - 24	30HC - 100 - 28	30HC - 100 - 32	30HC - 100 - 36	30HC - 100 - 40	
1780	2130	2490	2840	3200	3550	3900	4260	
108	132	156	180	204	230	N/A	N/A	
162	204	246	286	328	370	412	452	
55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	
85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	
30HC - 110 - 12	30HC - 110 - 16	30HC - 110 - 20	30HC - 110 - 24	30HC - 110 - 28	30HC - 110 - 32	30HC - 110 - 36	30HC - 110 - 40	
1780	2130	2490	2840	3200	3550	3900	4260	
108	132	156	180	204	N/A	N/A	N/A	
162	204	246	286	338	370	412	452	
55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	55 Ton BTAS	
85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	
30HC - 120 - 12	30HC - 120 - 16	30HC - 120 - 20	30HC - 120 - 24	30HC - 120 - 28	30HC - 120 - 32	30HC - 120 - 36	30HC - 120 - 40	
1800	2150	2500	2860	3220	3570	3820	4280	
120	144	168	192	N/A	N/A	N/A	N/A	
172	216	256	298	340	380	422	462	
85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	
85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	
30HC - 130 - 12	30HC - 130 - 16	30HC - 130 - 20	30HC - 130 - 24	30HC - 130 - 28	30HC - 130 - 32	30HC - 130 - 36		
1800	2150	2500	2860	3220	3570	3920		
120	144	168	N/A	N/A	N/A	N/A		
172	216	256	298	340	380	422		
85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	85 Ton BTAS		
85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	85 Ton BTAS	85 Ton BTAS		



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Spreader Beams

Model BEF - Spreader Beam End Fittings



INSTOCK PROGRAM

PRODUCT FEATURES:

- Build your own spreader beam.
- Designed to work with a range of shackle sizes, both top and bottom.
- Complies with ASME standards when assembled to specifications using designated pipe and rigging.

SPECIFICATIONS

Model Number	Max. Capacity (tons)*	Schedule 80 Pipe Size	Weight (lbs.) Per Pair
BEF-2-1/2	7.5	2-1/2"	16
BEF-5	17	5"	46
BEF-8	39	8"	266

* System capacity is determined by span, rigging, and hardware, consult factory for complete details.

Model HC-BEF - High Capacity Beam End Fitting



INSTOCK PROGRAM

PRODUCT FEATURES:

- Build your own spreader beam.
- Pivoting lower lugs allow for 75° to 90° lower rigging angle.
- Complies with ASME standards when assembled to specifications using designated pipe and rigging.

SPECIFICATIONS

Model Number	Max. Capacity (tons)*	Schedule 80 Pipe Size	Weight (lbs.) Per Pair
BEF-5HC-25	25	5"	284
BEF-5HC-50	50	5"	333
BEF-8HC-50	50	8"	440
BEF-8HC-80	80	8"	60
BEF-12HC-80	80	12"	840
BEF-12HC-110	110	12"	992
BEF-12HC-130	130	12"	1010

* System capacity is determined by span, rigging, and hardware, consult factory for complete details.

Model BEF-PC - Beam End Fitting - Pipe Coupler



INSTOCK PROGRAM

PRODUCT FEATURES:

- Add flexibility to your spreader beam end fitting system.
- Securely joins two pipe lengths to create a longer spreader beam.
- Innovative design reduces sag in the spread system once assembled.
- Includes all connecting pin or bolts.
- Complies with ASME standards when assembled to specifications using designated pipe and rigging.

SPECIFICATIONS

Model Number	Use With Model	Used With Pipe (in.)*	Weight (lbs.)
BEF-PC-2.5	BEF-2 1/2	2-1/2 SCH. 40	14
BEF-PC-5	BEF-5	5 SCH. 40	60
BEF-PC-5HC	BEF-5HC	5 SCH. 80	114
BEF-PC-8	BEF-8	8 SCH. 40	125
BEF-PC-8HC	BEF-8HC	8 SCH. 80	175
BEF-PC-12HC	BEF-12HC	12 SCH. 80	335

* See end fitting assembly instruction for complete pipe specifications.

See Rig-Master section pages F.51 - F.53 for complete details.

Spreader Beams

Model 34 - Four Point Spreader Beam



**QUICKSHIP
PROGRAM**



PRODUCT FEATURES:

- New knock-down design is easily transported.
- 6 or 9 ton capacity.
- Spreads up to 10' x 10'.
- Four point spreader beam provides added stability.
- Chain top rigging and hoist rings.
- Lower lifting shackles standard - see other options below.
- Complies with ASME standards.

TOP RIGGING OPTIONS:

(all include swivel hoist ring)

- C - Chain Top Rigging
- W - Wire Rope Top Rigging
- A - Adjust-A-Leg Top Rigging

BOTTOM RIGGING OPTIONS:

- F - Fixed Lower lifting hooks
 - SH - Swivel Lower lifting hooks
- We can also provide synthetic, chain or wire load slings.

Model BEF-FSB - Beam End Fittings - Four-Point Spreader Beam



Pipe, pins, hoist ring, chains, and shackle not included.

PRODUCT FEATURES:

- Build your own spreader beam.
- Designed to work with hoist rings for flexibility.
- Complies with ASME standards when assembled to specification using designated pipe and rigging.

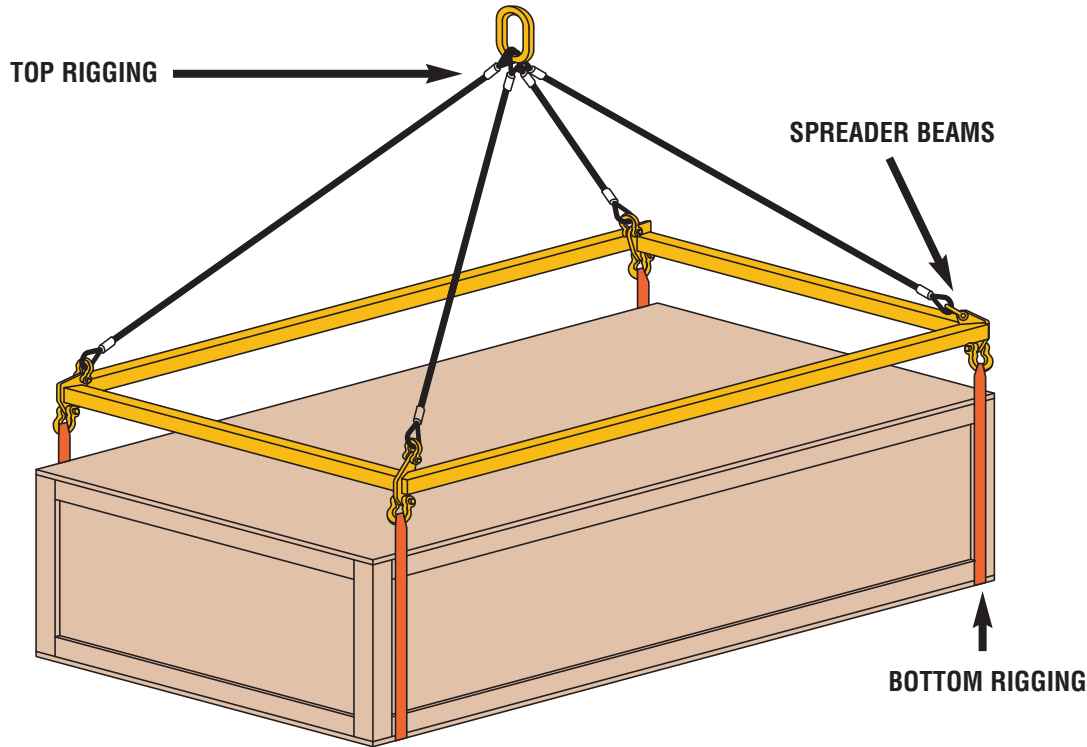
SPECIFICATIONS

Model Number	Max. Capacity (tons)	Weight (lbs.)
BEF-2.1/2-FSB-6	6	78
BEF-2.1/2-FSB-9	9	86

Spreader Beams

Model 38 - Special Spreader Systems

This series of special spreader systems can be designed to lift loads of almost any size, or weight. Certain adjustability characteristics allow for a wide range of usage as well as handling unbalanced loads where the center of gravity is substantially off center.



TOP RIGGING OPTIONS:

- A. Fixed length 4-leg wire rope or chain sling.
- B. 4 point Adjust-A-Leg® load leveling sling for unbalanced loads.

SPREADER BEAM OPTIONS:

- C. Fixed length/width spreader design in rigid or bolt together style. Specify style required.
- D. Telescopic length/width spreader design to handle loads of varying sizes. Specify min./max. lengths required for spreader length and/or width.

BOTTOM RIGGING OPTIONS:

The type of bottom rigging required is dependent on the location of the load pick points in relation to its center of gravity. Some common applications require:

- E. Top or bottom container lifting lugs with wire rope slings.
- F. Chain slings with hook attachments.
- G. Nylon/polyester web slings.
- H. Boat lifting belly slings for marine applications.
- I. Vehicle lifting wheel nets.

Spreader Beams - Application Evaluation

LOAD INFORMATION:

Describe load: _____

Maximum weight: _____

Number of pickup points: _____

Distance between (spacing) pickup points: _____

Is load center of gravity centered between outer pick points? Yes No

If no, specify location in reference to pick points (attach a diagram if necessary): _____

What type of attachment to the load?

Shackles Swivel Hooks Lifting Slings Other (specify) _____

Describe specific requirements: _____

CRANE INFORMATION:

Approximate distance between load and crane: _____

Single crane hoist information

Capacity: _____

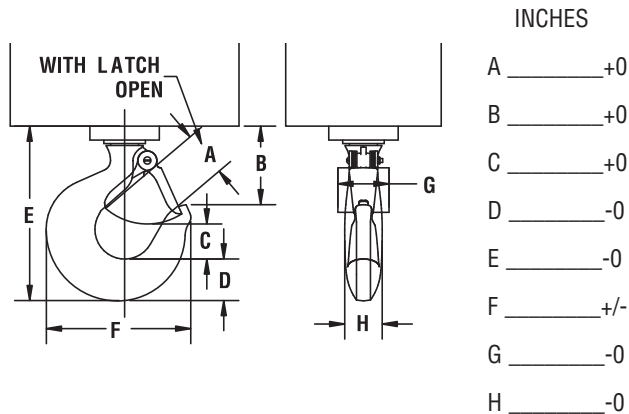
Dual crane hoist information

Distance between: _____

Same capacity? Yes No

If no, specify capacities: _____

CRANE HOOK DATA:



Measurement Tolerances

- +0 = Measurement should be no larger but can be smaller than actual.
- 0 = Measurement should be no smaller but can be larger than actual.
- +/- = Measurement can be larger or smaller than actual.

Contact: _____

Company: _____

Address: _____

City, State, Zip: _____

Phone: _____

Fax: _____

Email: _____

For a price quote on your specific application, please complete the above form and fax to The Caldwell Group at **815-229-5686** or you can complete this form online at www.caldwellinc.com/applications.

Paper Roll Lifters/Positioners

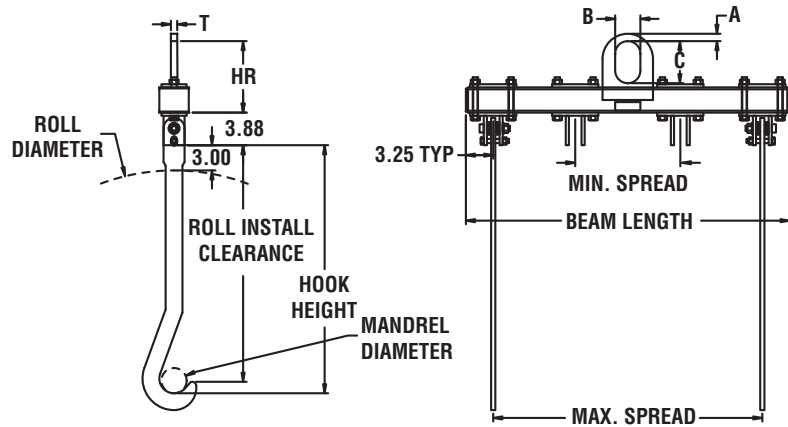
Model 23QS - QUICKSHIP Roll Lifting Beams



QUICKSHIP PROGRAM

PRODUCT FEATURES:

- Standard beam sizes.
- J-Hooks are custom cut per order to fit your specific application.
- Hooks can be fixed or pivot style.
- J-Hooks are quickly and infinitely adjustable between minimum and maximum spread.
- Complies with ASME standards.



NOTE: Dimensions shown in inches.

SPECIFICATIONS

Capacity (tons)	Model Number HR Headroom (in.) Min. Spread (in.)	Max. Spread (ft.)						Hook Thickness (in.)	Bail (in.)			
		3	4	6	8	10	12		A	B	C	T
1/2	Model Number	23QS-1/2-3	23QS-1/2-4	23QS-1/2-6	23QS-1/2-8	23QS-1/2-10	23QS-1/2-12	1/2	7/8	3	5	3/4
	HR Headroom	8 1/2	8 1/2	8 1/2	8 1/2	9 1/2	9 1/2					
	Min. Spread	12	12	12	24	24	24					
1	Model Number	23QS-1-3	23QS-1-4	23QS-1-6	23QS-1-8	23QS-1-10	23QS-1-12	1/2	7/8	3	5	3/4
	HR Headroom	8 1/2	8 1/2	9 1/2	9 1/2	10 1/2	10 1/2					
	Min. Spread	12	12	12	24	24	24					
2	Model Number	23QS-2-3	23QS-2-4	23QS-2-6	23QS-2-8	23QS-2-10	23QS-2-12	1/2	7/8	3	5	3/4
	HR Headroom	9 1/2	9 1/2	10 1/2	11 1/2	12 1/2	12 1/2					
	Min. Spread	12	12	12	24	24	24					
3	Model Number	23QS-3-3	23QS-3-4	23QS-3-6	23QS-3-8	23QS-3-10	23QS-3-12	3/4	1 1/2	3	5	1
	HR Headroom	10 1/2	10 1/2	11 1/2	12 1/2	13 1/2	13 1/2					
	Min. Spread	12	12	24	24	24	24					
5	Model Number	23QS-5-3	23QS-5-4	23QS-5-6	23QS-5-8	23QS-5-10	23QS-5-12	1	2	4	7	1 1/4
	HR Headroom	13 1/2	14 1/2	15 1/2	17 1/2	17 1/2	19 1/2					
	Min. Spread	24	24	24	24	24	24					

Operation



Photo courtesy of J.B Kenehan Printing Services, Waukesha, WI

Paper Roll Lifters/Positioners

Model 23 - Roll Lifting Beams

Used to lift rolls with plate style or bent bar J-Hooks. Hooks are designed to support the core mandrel which is through the I.D. of the roll. Fixed beam lengths can be used for single roll widths. Maximum roll diameters will determine length of J-Hooks.



PRODUCT FEATURES:

- Ideal where headroom is limited.
- Easy lifting and positioning of rolls.
- Adjustable spread options.
- Twin hoist capability.
- Motorized rotation available.
- Complies with ASME standards.



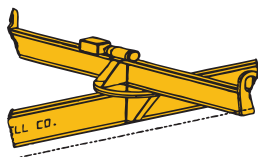
Options Available



OPTION A

ADJUSTABLE SPREADS

Used when handling rolls of varying widths.



OPTION D

MOTORIZED ROTATION

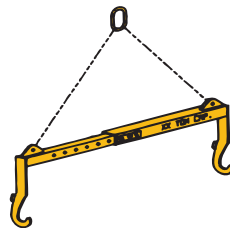
Allows remote positioning of a load. For additional information, see Model 21 on page A.20.



OPTION B

HOOK LININGS

- Bronze/Brass
- Urethane
- Brake Lining (Min. Shaft Dia.= 6")



OPTION E

SPREADER BEAM

Offers greater stability when required headroom is not a consideration.



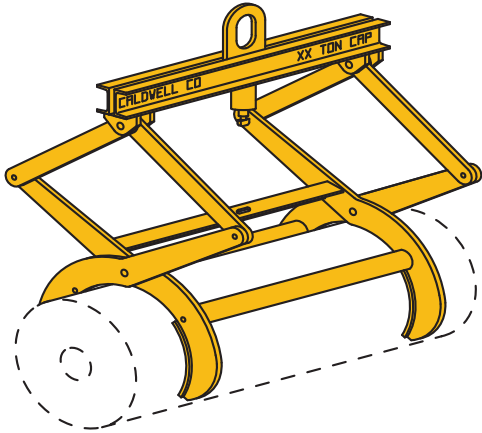
OPTION C

TWIN BAILS

Used when two hoists are required to stabilize a lift, when load rotation is not desirable.

Paper Roll Lifters/Positioners

Model 74P - Roll Gripping Tong

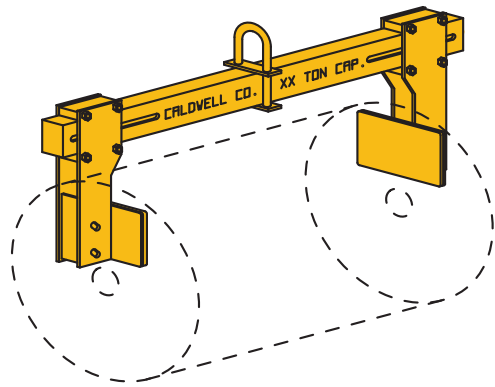


Used to grip the O.D. of a roll. The diameter range can vary up to 25%. A double leg design will provide additional roll stability; however, single leg models are available for narrower rolls. Recommend double leg for rolls wider than 48".

Features: Automatic latching mechanism for single-person operation. Tong saddles with protective covering to prevent roll damage are available.

Capacities: Double leg to 4 ton.
Single leg to 2 1/2 ton.

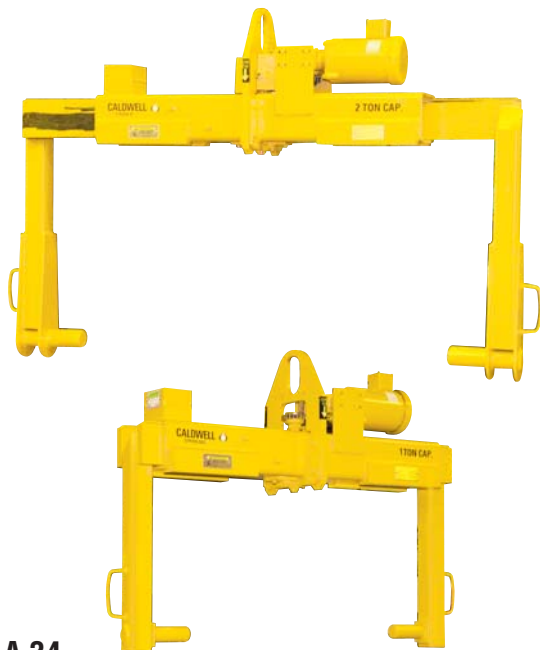
Model 75P - Roll Grabs



Used for side lifting of rolls by gripping on the ends. A wide range of roll lengths or widths can be accommodated. Standard motorization allows for fast and easy adjustment to handle various load sizes. Manual units are available as an option.

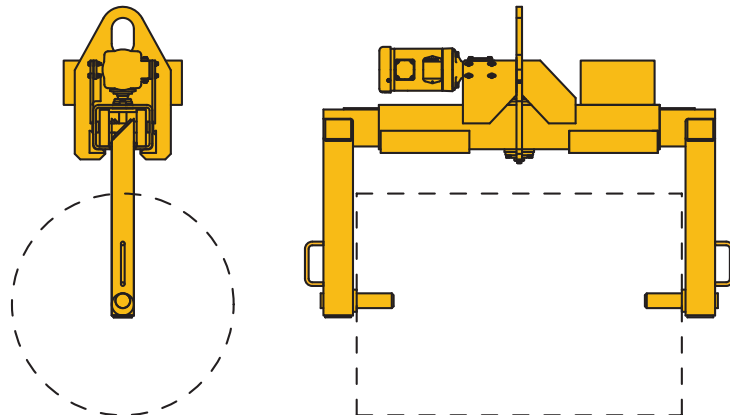
Capacities: To 5 ton.

Model 85P - Motorized Roll Lifters



Used to lift rolls by positioning lifting pins in the I.D. of the roll. Arms move in and out to clear and lift roll. This model will handle a variety of widths with minimal aisle clearance requirements. Motorization is recommended; however, chainwheel operation is available.

Capacities: To 10 ton.



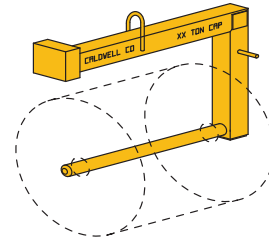
Paper Roll Lifters/Positioners

Model 81P - Roll Lifting C-Hooks

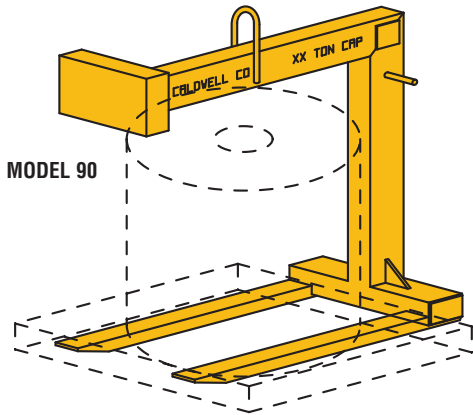


This Caldwell Model 81P Roll Lifter is designed to handle rolls by inserting a round arm into the roll I.D. This unit is counter balanced to hang level when empty for ease of insertion into the roll core. Guide handle is standard. Lifter parking stand can be furnished if required.

Capacities: To 5 ton.



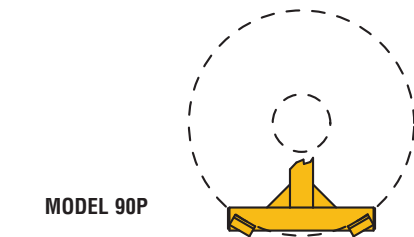
Model 90P or 90 - Pallet or O.D. Lifters



Model 90 - Pallet Lifters

The Caldwell Model 90 Pallet Lifter allows your overhead crane to be converted into an overhead lift truck. Available with fixed or adjustable forks.

Capacities: To 10 ton.

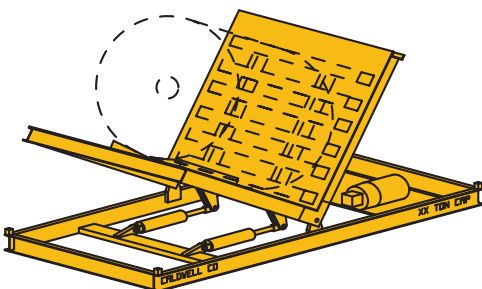


Model 90P - Roll Lifters

The Caldwell Model 90P Pallet Type Roll Lifter lifts and transports a roll by supporting it underneath its diameter, leaving the core open.

Capacities: To 10 ton.

Model 88 - Roll Positioners



This Caldwell Low Platform Roll Upender/Downender allows rolls to be repositioned by 90° rotation. The low platform is desirable in those applications where headroom is restricted. Hydraulic controls are standard.

Capacities: To 7½ ton.

The heavy duty Model 88 Roll Positioner is available with a mechanical drive. This model requires additional platform height.

Capacities: To 30 ton.

Paper Roll Lifters - Application Evaluation

Please specify the desired model number: _____

ROLL INFORMATION:

Minimum: Length _____ Diameter _____ Weight _____

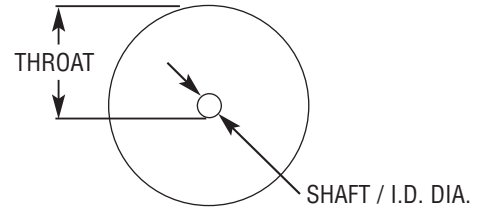
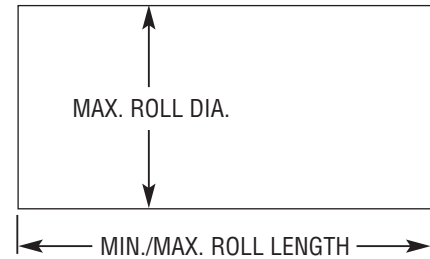
Maximum: Length _____ Diameter _____ Weight _____

SHAFT / I.D. INFORMATION:

Minimum: Length _____ Diameter _____

Maximum: Length _____ Diameter _____

Any clearance requirements: i.e., headroom, machinery obstructions, etc.



J-HOOK INFORMATION (FOR MODEL 23'S)

Is shaft turning when roll is lifted: Yes No

Hook style: Pivoting Fixed

POWER REQUIREMENTS (FOR MOTORIZED UNITS)

DC AC Voltage _____ Phase _____ Cycle _____

Additional application information or option requirements:

Contact: _____

Company: _____

Address: _____

City, State, Zip: _____

Phone: _____

Fax: _____

Email: _____

For a price quote on your specific application, please complete the above form and fax to The Caldwell Group at **815-229-5686** or you can complete this form online at www.caldwellinc.com/applications.

Coil Lifters & Upenders

Model 82NC - Narrow Coil C-Hook



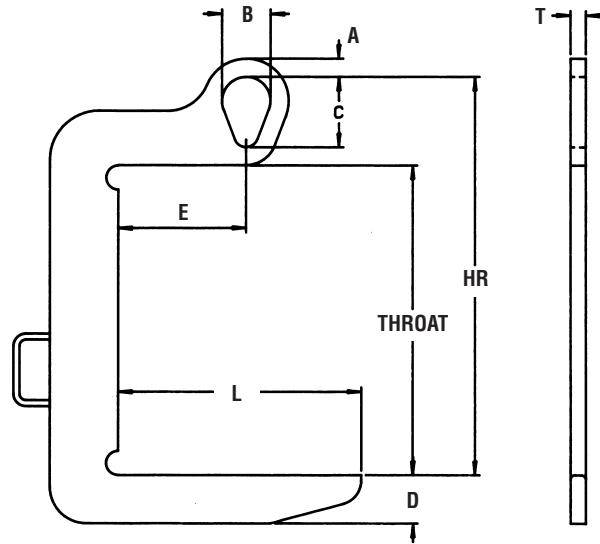
*Will not hang level when empty.



PRODUCT FEATURES:

- Handles narrow coils with less coil edge damage.
- More durable than web slings.
- Lightweight for easier handling.
- Built in guide handle for ease of coil positioning.
- Available with optional curved coil saddle.
- Inside radius on hooks avoid coil edge contact.
- Complies with ASME standards.

QUICKSHIP PROGRAM



NOTE: $E = (L \div 2) + 1/2$ " inch.

SPECIFICATIONS

Model Number	Capacity (tons)	Dimensions (inches)									Weight (lbs.)
		Coil Width Max.	Throat	Lifting Arm Plate		HR Headroom	Bail Dimensions				
				Length L	Depth D		A	B	C	T	
82NC-1/2-8	1/2	8	14-1/2	8	2-1/4	18-1/2	13/16	2	3-1/4	1/2	14
82NC-1/2-12		12	14-1/2	12	2-5/8	18-1/2	13/16	2	3-1/4	1/2	17
82NC-1-8	1	8	17-1/2	8	2	21-1/2	13/16	2	3-1/4	1/2	15
82NC-1-16		16	17-1/2	16	2-1/2	21-1/2	13/16	2	3-1/4	1/2	20
82NC-2-8	2	8	19-1/2	8	2-1/8	24-9/16	1	2-9/16	4-1/16	3/4	22
82NC-2-16		16	19-1/2	16	3	24-9/16	1	2-9/16	4-1/16	3/4	40
82NC-3 1/2-12	3-1/2	12	21-1/2	12	2-7/8	28-1/8	1-3/16	3-5/8	5-5/16	1	50
82NC-3 1/2-16		16	21-1/2	16	3-3/8	28-1/8	1-3/16	3-5/8	5-5/16	1	63
82NC-5-16	5	16	25-1/2	16	3-1/2	32-13/16	1-1/2	4	5-13/16	1-1/4	94
82NC-5-20		20	25-1/2	20	4	32-13/16	1-1/2	4	5-13/16	1-1/4	110

Coil Lifters & Upenders

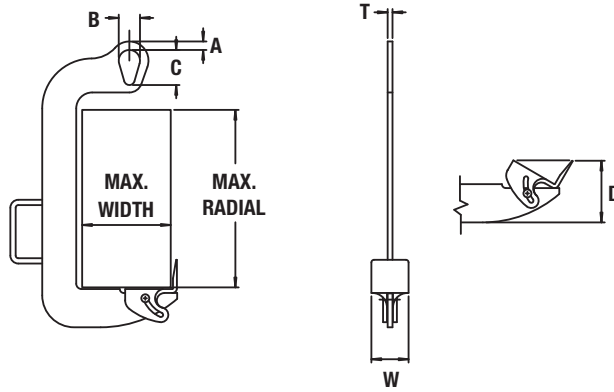
Model 80H - Dixon Coil Hook with Pivoting Wedge



INSTOCK PROGRAM

PRODUCT FEATURES:

- Easy horizontal to vertical upending of coils.
- Pivoting wedge for easy tilting of stacked coils.
- Wedge acts as retainer.
- Efficient and easy to use.
- Popular for use with small, lightweight coils.
- For use where overhead clearance is limited.
- Specially designed heat treated pivoting wedge.
- Complies with ASME standards.



SPECIFICATIONS

Model Number	Capacity (tons)	Dimensions (inches)										Weight (lbs.)
		Max. Width	Max. Radial	Min. I.D.	A	B	C	D	T	W		
80H-1/2-6/13	1/2	6	13	9	13/16	2	3-5/16	6	1/2	3-1/2	20	
80H-1/2-12/13	1/2	12	13	13	13/16	2	3-5/16	6	1/2	3-1/2	28	
80H-1-8/16	1	8	16	10	13/16	2	3-5/16	6	1/2	3-1/2	23	
80H-2-10/18	2	10	18	12-1/2	1	2-5/8	4	6-3/4	3/4	2	42	
80H-3-5-12/20	3-1/2	12	20	14-1/2	1-3/16	3-5/8	5-5/16	7-3/4	1	2-1/2	80	

Other sizes available, consult factory.

EASY HORIZONTAL TO VERTICAL MOVEMENT. DO NOT USE FOR VERTICAL TO HORIZONTAL MOVEMENT.



Placing spacer blocks between stacked coils permits easy insertion of the wedge. Lightweight and pivoting wedge makes it easy to position the hook.



With the hook in place, the wedge pivots as the lift is started, and the coil begins to turn to a vertical position for transporting.



Coil is in vertical position after being lifted from its pallet. The weight of the coil holds the pivoting wedge in the vertical position during transportation.



Coil being loaded on a stock reel. Hook is easily removed from the coil after releasing the hoist.

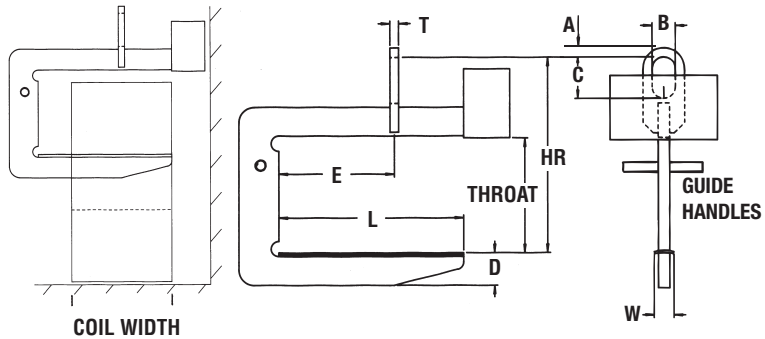
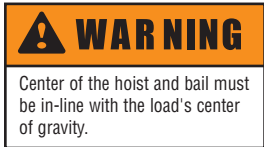
Coil Lifters & Upenders

Model 82 - Heavy Duty C-Hook



PRODUCT FEATURES:

- Designed for heavy duty applications.
- High tensile alloy steel plate reduces physical size and weight.
- Counter balanced to hang level when empty.
- Inside radius on hooks avoid coil edge contact.
- Curved coil saddle is standard.
- Guide handles for ease of hook positioning.
- Handles a wide range of coil widths.
- Available with optional padding for additional coil protection.
- Complies with ASME standards.



NOTE: E = Maximum coil width ÷ 2

SPECIFICATIONS

Model Number	Capacity (tons)	Dimensions (inches)											Weight (lbs.)
		Coil Width		Throat	Lifting Arm			HR Headroom	Bail Dimensions			Thk. T	
		Max.	Min.		Length L	Depth D	Width W		Opening				
								A	B	C			
82-5-36	5	36	24	24	30	5-5/16	4	37-3/8	1-1/2	4	7	1-1/4	420
82-5-48		48	30	24	39	6-1/8	4	38	1-1/2	4	7	1-1/4	584
82-5-60		60	36	24	48	6-9/16	4	38-1/2	1-1/2	4	7	1-1/4	680
82-7 1/2-36	7-1/2	36	24	24	30	5-5/8	4	37-1/2	1-1/2	4	7	1-1/2	615
82-7 1/2-48		48	30	24	39	6-5/16	4	38-1/4	1-1/2	4	7	1-1/2	774
82-7 1/2-60		60	36	24	48	6-15/16	4	39	1-1/2	4	7	1-1/2	942
82-10-48	10	48	30	24	39	7-1/4	4	41-1/4	2	5	9	1-3/4	928
82-10-60		60	36	24	48	7-1/2	4	41-3/8	2	5	9	1-3/4	1295
82-10-72		72	42	24	57	7-1/4	4	42-1/2	2	5	9	1-3/4	1616
82-15-48	15	48	30	30	39	7-1/4	4	47-7/8	2	5	9	1-3/4	1450
82-15-60		60	36	30	48	8	4	48	2	5	9	1-3/4	1824
82-15-72		72	42	30	57	8-3/4	4	48-3/4	2	5	9	1-3/4	2227
82-20-60	20	60	36	30	48	9-1/8	4	52-1/8	2-1/4	6	12	2	2175
82-20-72		72	42	30	57	10	4	52-5/16	2-1/4	6	12	2	2625
82-25-60	25	60	36	34	48	9	4	57-3/4	2-1/2	6	14	2-1/4	2820
82-25-72		72	42	34	57	9-3/4	4	58-1/2	2-1/2	6	14	2-1/4	3570
82-30-60	30	60	36	34	48	9-7/8	4	58-3/4	2-3/4	6	14	2-1/2	3180
82-30-72		72	42	34	57	10-5/8	4	59-3/8	2-3/4	6	14	2-1/2	3800
82-40-72	40	72	42	38	57	11	11-3/4	68	3-1/4	7	18	3	5350
82-50-84	50	84	48	45	64-1/2	13	6	71-7/8	3-3/4	7	18	3	7470

Other sizes available, consult factory.

Coil Lifters & Upenders

Model 82RC - Close Stacking C-Hook

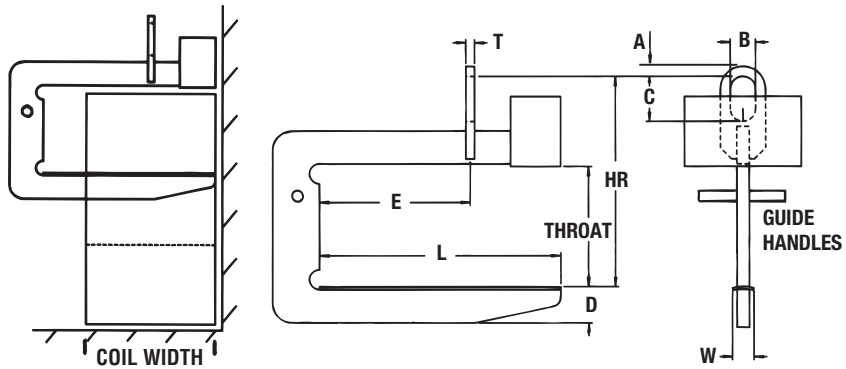


PRODUCT FEATURES:

- Recessed counterweight allows for close stacking of coils which maximizes floor space.
- Handles a wide range of coil widths.
- Designed for heavy duty application.
- High tensile alloy steel plate reduces physical size and weight.
- Counter balanced to hang level when empty.
- Inside radius on hooks avoid coil edge contact.
- Curved coil saddle is standard.
- Guide handle for ease of hook positioning.
- Available with optional padding for additional coil protection.
- Complies with ASME standards.

WARNING
Center of the hoist and bail must be in-line with the load's center of gravity.

QUICKSHIP PROGRAM



NOTE: E = Maximum coil width ÷ 2

SPECIFICATIONS

Model Number	Capacity (tons)	Dimensions (inches)										Weight (lbs.)	
		Coil Width		Throat	Lifting Arm			HR Headroom	Bail Dimensions				
		Max.	Min.		Length L	Depth D	Width W		Opening				Thk. T
82RC-5-36	5	36	24	24	30	5-5/16	4	37-1/4	1-1/2	4	7	1-1/4	550
82RC-5-48		48	30	24	39	6-1/8	4	38-1/16	1-1/2	4	7	1-1/4	707
82RC-5-60		60	36	24	48	6-15/16	4	39	1-1/2	4	7	1-1/4	853
82RC-7 1/2-36	7-1/2	36	24	24	30	5-5/8	4	37-1/2	1-1/2	4	7	1-1/2	750
82RC-7 1/2-48		48	30	24	39	6-3/8	4	38-1/4	1-1/2	4	7	1-1/2	996
82RC-7 1/2-60		60	36	24	48	6-15/16	4	39	1-1/2	4	7	1-1/2	1161
82RC-10-48	10	48	30	24	39	7-3/16	4	41-1/4	2	5	9	1-3/4	1200
82RC-10-60		60	36	24	48	7-5/8	4	41-1/2	2	5	9	1-3/4	1645
82RC-10-72		72	42	24	57	7-1/4	4	41-1/8	2	5	9	1-3/4	2100
82RC-15-48	15	48	30	30	39	7-1/4	4	47-7/8	2	5	9	1-3/4	2054
82RC-15-60		60	36	30	48	8	4	48	2-1/4	5	9	1-3/4	2410
82RC-15-72		72	42	30	57	8-3/4	4	48-3/4	2	5	9	1-3/4	2814
82RC-20-60	20	60	36	30	48	9-1/8	4	52-1/8	2-1/4	6	12	2	2864
82RC-20-72		72	42	30	57	9-3/4	4	52-1/2	2-1/4	6	12	2	2951
82RC-25-60	25	60	36	34	48	9	4	57-3/4	2-1/2	6	14	2-1/4	3077
82RC-25-72		72	42	34	57	9-3/4	4	58-3/4	2-1/2	6	14	2-1/4	3570
82RC-30-60	30	60	36	34	48	9-7/8	4	58-3/4	2-3/4	6	14	2-1/2	3480
82RC-30-72		72	42	34	57	10-5/8	4	59-3/8	2-3/4	6	14	2-1/2	4260
82RC-40-72	40	72	42	38	57	11	5	68	3-1/4	7	18	3	6100

Counterweight extends beyond arm one-half of the counterweight width, in capacities 25 ton and greater.

Other sizes available, consult factory.

Coil Lifters & Upenders

Model 82LA - Slit Coil C-Hook

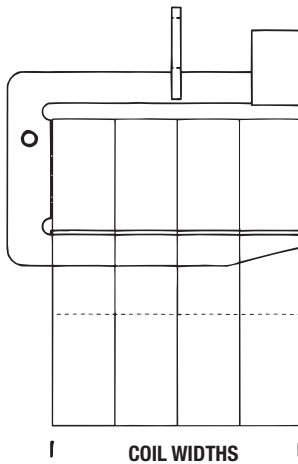


PRODUCT FEATURES:

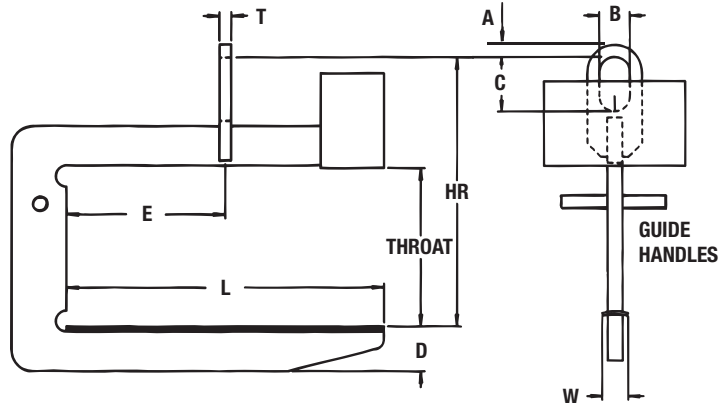
- Designed for heavy duty applications.
- Handles multiple slit coils which maximizes handling efficiency.
- Recessed counterweight minimizes interference with equipment or other obstacles.
- High tensile alloy steel plate reduces physical size and weight.
- Counter balanced to hang level when empty.
- Inside radius on hooks avoid coil edge contact.
- Curved coil saddle is standard.
- Guide handles for ease of hook positioning.
- Available with optional padding for additional coil protection.
- Complies with ASME standards.

QUICKSHIP PROGRAM

WARNING
Center of the hoist and bail must be in-line with the load's center of gravity.



COIL WIDTHS



NOTE: $E = L \div 2$

SPECIFICATIONS

Model Number	Capacity (tons)	Dimensions (inches)										Weight (lbs.)
		Coil Width Max.	Throat	Lifting Arm				Bail Dimensions			Thk. T	
				Length L	Depth D	Width W	HR Headroom	Opening				
A	B	C										
82LA-5-36	5	36	24	36	5-5/16	4	37-1/4	1-1/2	4	7	1-1/4	450
82LA-5-48		48	24	48	6-1/8	4	38	1-1/2	4	7	1-1/4	555
82LA-5-60		60	24	60	6-9/16	4	38-9/16	1-1/2	4	7	1-1/4	649
82LA-7 1/2-36	7-1/2	36	24	36	5-5/8	4	37-5/8	1-1/2	4	7	1-1/2	496
82LA-7 1/2-48		48	24	48	6-5/16	4	38-5/16	1-1/2	4	7	1-1/2	731
82LA-7 1/2-60		60	24	60	7-1/8	4	38-7/8	1-1/2	4	7	1-1/2	898
82LA-10-48	10	48	24	48	7-3/16	4	41-1/8	2	5	9	1-3/4	932
82LA-10-60		60	24	60	7-5/16	4	41-1/8	2	5	9	1-3/4	1281
82LA-10-72		72	24	72	7-1/4	4	41-1/8	2	5	9	1-3/4	1570
82LA-15-48	15	48	30	48	7-1/4	4	47-7/8	2	5	9	1-3/4	1510
82LA-15-60		60	30	60	8	4	48	2	5	9	1-3/4	1789
82LA-15-72		72	30	72	8-7/8	4	48-3/4	2	5	9	1-3/4	2120
82LA-20-60	20	60	30	60	9-1/8	4	52-1/8	2-3/4	6	12	2	2125
82LA-20-72		72	30	72	9-15/16	4	52-15/16	2-3/4	6	12	2	2485
82LA-25-60	25	60	34	60	9-1/8	4	57-3/4	3-1/4	6	14	2-1/2	2840
82LA-25-72		72	34	72	9-3/4	4	58-1/2	3-3/4	6	14	2-1/2	3350

Other sizes available, consult factory.

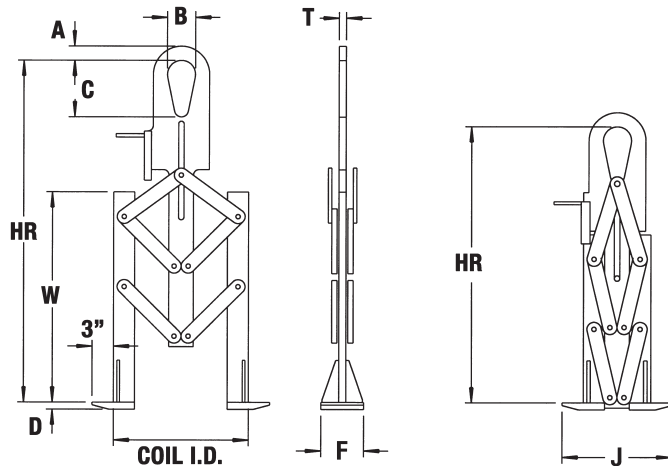
Coil Lifters and Upenders

Model 83EW - Extended Width Vertical "Eye" Coil Lifter

PRODUCT FEATURES:

- Handles any size coil I.D. from 16" to 24".
- Lifter legs automatically adjust to coil I.D. being lifted.
- Has higher capacity range than standard lifter.
- Unique design minimizes dunnage required between coils.
- Complies with ASME standards.

QUICKSHIP PROGRAM



SPECIFICATIONS

Model Number	Capacity (tons)	Dimensions (inches)											Weight (lbs.)	
		Coil I.D.		Coil Width	HR Headroom		Bail Dimensions			Foot Dimensions				
		Min.	Max.	W	Open	Closed	A	B	C	T	F	D		J
83EW-1/2-24	1/2	16	24	20	36	30-7/8	1-1/4	3	5	5/8	5	1/2	14-1/2	90
83EW-2 1/2-24	2-1/2	16	24	24	44	37-1/2	1-1/2	3	5	3/4	5	3/4	15-1/2	125
83EW-5-24	5	16	24	30	47	40-3/8	2	4	7	1	6	1	15-1/2	170
83EW-7 1/2-24	7-1/2	16	24	30	47	40-3/8	2	4	8	1	6	1	15-1/2	170

Other sizes available, consult factory.

Coil Lifters and Upenders

Model 83E - Ergonomic Vertical "Eye" Coil Lifter

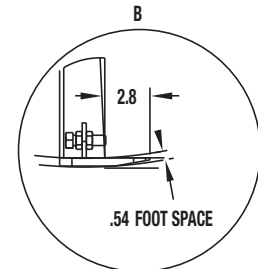
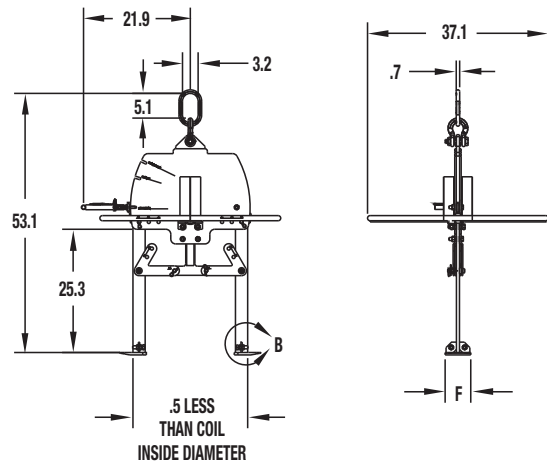
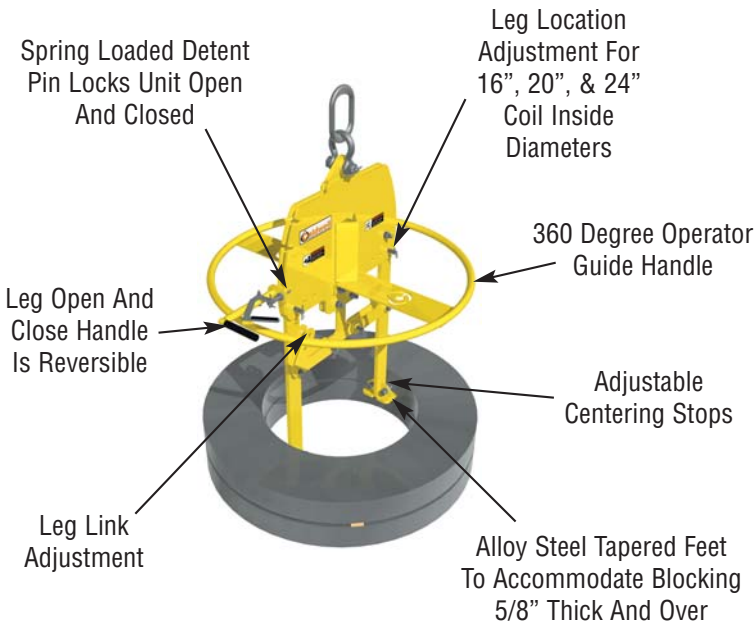
NEW



PRODUCT FEATURES:

- Efficient handling of vertically stacked coils.
- Handles coils with ID's of 16", 20", and 24".
- Ergonomic handles and guide.
- Horizontal handle with pin lever is easy to actuate.
- Spring loaded lever can be set for right- or left-handed operation.
- Unique 360° guide handle is easily accessed from any location.
- Optimized foot accommodates 5/8" blocking
- Complies with ASME standards.

QUICKSHIP PROGRAM



SPECIFICATIONS

Model Number	Rated Capacity (tons)	F (in.)	Weight (lbs.)
83E-3-16/20/24	3	5.3	160
83E-5-16/20/24	5	8	165

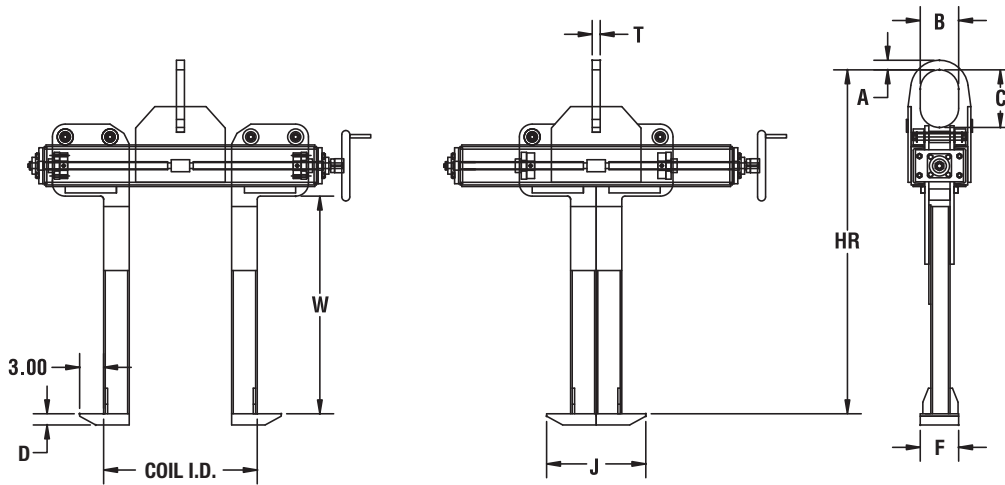
Coil Lifters and Upenders

Model 83HW - Vertical "Eye" Coil Grab



PRODUCT FEATURES:

- Handles any size coil I.D. from 16" to 24".
- Efficient handling of vertically stacked coils.
- Available with chain wheel drive.
- Complies with ASME standards.



SPECIFICATIONS

Model Number	Capacity (tons)	Dimensions (inches)											Weight (lbs.)
		Coil I.D.		Coil Width	HR	A	B	C	T	F	D	J	
		Min.	Max.	W	Headroom								
83HW-2-1/2-24	2-1/2	16	24	20	36	1-1/2	3	5	3/4	5	3/4	15-1/2	250
83HW-5-24	5	16	24	24	41	2	4	7	1	6	1	15-1/2	350
83HW-7-1/2-24	7-1/2	16	24	24	42	2	4	7	1	6	1	15-1/2	425
83HW-10-24	10	16	24	30	50	2-1/2	5	9	1-1/4	6	1-1/2	15-1/2	500

Other sizes available, consult factory.

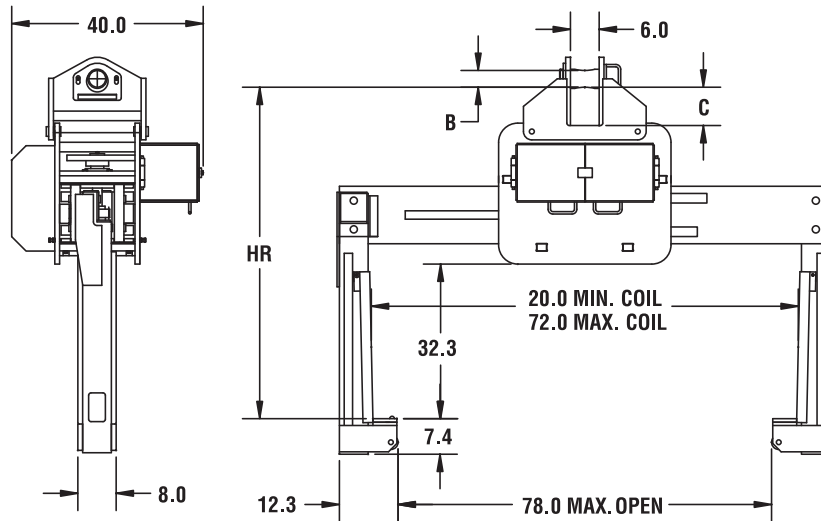
Coil Lifters and Upenders

Model 85 - Fixed Bail Telescoping Coil Grab



PRODUCT FEATURES:

- Motorized leg drive maximizes the efficient handling of coils.
- Leg drive speed - 2.8" per second.
- Narrow aisle stacking maximizes coil storage floor space.
- Curved lifting pads for coil protection.
- High impact plastic toe rollers prevent lifter foot contact.
- Anti-clamp limit switch protects coil during closing of lifter.
- Heavy duty torque limiting drive protection during maximum open/closed conditions.
- Lockout limit switch prevents inadvertent leg opening during lift.
- Alloy steel pin bail.
- Easily replaceable slide wear guides.
- Design allows for easy maintenance access to drive components.
- Designed to operate on AC power supply.
- Field upgradeable to rotating style.
- Complies with ASME standards.



Outside width at 20" minimum coil dimension is 79-1/2".

NOTE: Dimensions shown in inches.

SPECIFICATIONS

Model Number	Capacity (tons)	Dimensions (inches)						Weight (lbs.)
		Coil Width		HR Headroom	Throat	Pin/Bail		
		Min.	Max.			B	C	
85-15-72	15	20	72	67-1/2	32.3	3	8-1/4	3440
85-20-72	20	20	72	67-1/2	32.3	3	8-1/4	3540
85-25-72	25	20	72	69-1/4	32.3	3-1/2	8	3780
85-33-72	33	20	72	69-1/4	32.3	3-1/2	8	3880

Other sizes available, consult factory.

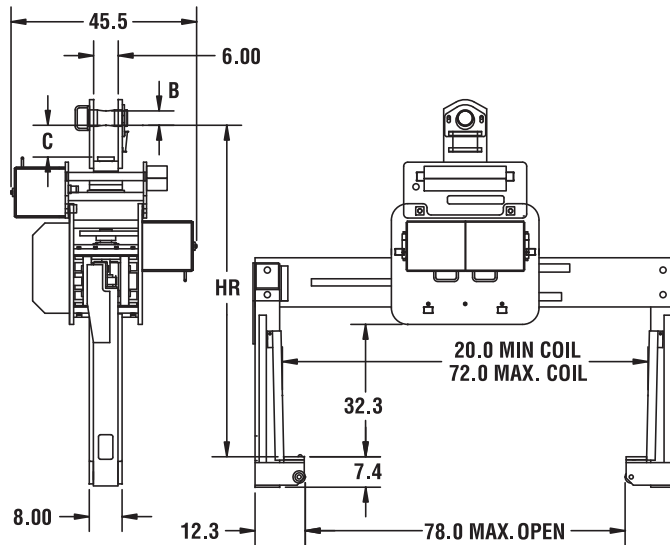
Coil Lifters and Upenders

Model 85R - Rotating Bail Telescoping Coil Grab



PRODUCT FEATURES:

- Motorized leg drive maximizes the efficient handling of coils.
- Leg drive speed - 2.8" per second.
- Narrow aisle stacking maximizes coil storage floor space.
- Curved lifting pads for coil protection.
- High impact plastic toe rollers prevent lifter foot contact.
- Anti-clamp limit switch protects coil during closing of lifter.
- Heavy duty torque limiting drive protection during maximum open/closed conditions.
- Lockout limit switch prevents inadvertent leg opening during lift.
- Alloy steel pin bail.
- Easily replaceable slide wear guides.
- Design allows for easy maintenance access to drive components.
- Designed to operate on AC power supply.
- Motorized 350° rotation at approximately 2 RPM.
- Complies with ASME standards.



Outside width at 20" minimum coil dimension is 79-1/2".

NOTE: Dimensions shown in inches.

SPECIFICATIONS

Model Number	Capacity (tons)	Dimensions (inches)						Weight (lbs.)
		Coil Width		HR Headroom	Throat	Pin/Bail		
		Min.	Max.			B	C	
85R-15-72	15	20	72	79-1/8	32	3	8	4200
85R-20-72	20	20	72	79-1/8	32	3	8	4300
85R-25-72	25	20	72	80-7/8	32	3-1/2	7-3/4	4600
85R-33-72	33	20	72	80-7/8	32	3-1/2	7-3/4	4700

Other sizes available, consult factory.

Coil Lifters and Upenders

Coil Lifters Features And Options

Standard Enclosed Drive

Protects drive from impact yet still provides easy access for maintenance.



Standard Alloy Steel Lifting Pin

Keeps headroom to a minimum.

Optional Motorized Bail Rotation

Allows for independent and precise positioning of the load or the lifter.

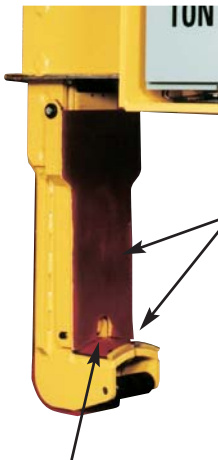


Standard Lockout Limit Switch

Prevents inadvertent leg opening during lift.

Standard Anti Clamp & Toe Rollers

Protects sides of coil from lifter damage.



Optional Urethane Padding

Urethane coil edge protection attached to legs, feet, or both.

Optional Lift Beam

Perform other lifts without the need to remove the grab from the crane hook.



Optional Built In Load Scale

With digital readouts for precise coil weight.



Optional Indicator Lights

Visual indicator for various functions.

Optional I.D. Photo-Electric Sensor

Photo-electric sensor indicates lifter foot alignment with coil I.D.

Optional Parking & Maintenance Stands

Provides storage for lifter when not in use and easy access for normal inspection & maintenance. See page A.49.

Optional Severe Duty Drive Package

For high cycle operations.

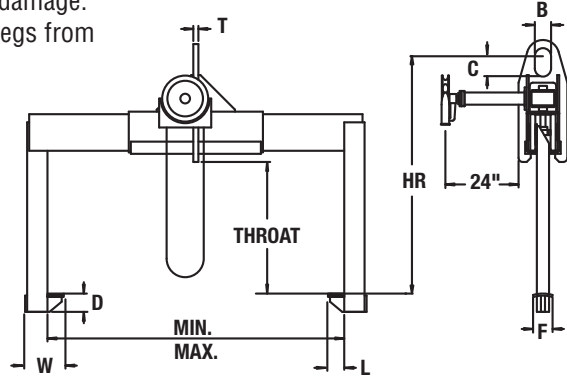
Coil Lifters and Upenders

Model 84 - Telescoping Coil Lifter



PRODUCT FEATURES:

- Chain wheel provides easy manual operation.
- Two-sided coil lifter requires less aisle space.
- Curved lifting pad minimizes coil damage.
- Self locking worm gear prevents legs from inadvertent opening.
- Available with hand wheel leg drive option.
- Available with motorized leg drive option.
- Complies with ASME standards.



SPECIFICATIONS

Model Number	Capacity (tons)	Dimensions (inches)												Weight (lbs.)
		Coil Width		Throat	HR Headroom	Bail				Foot				
		Min.	Max.			A	B	C	T	D	F	L	W	
84-5-48	5	16	48	28	52	2	4	7	1	4-1/2	4	3-1/2	7-1/2	485
84-5-60		20	60	26	50									590
84-10-48	10	16	48	32	63	2	4	7	1-1/4	5-1/2	4	4	9-1/2	725
84-10-60		20	60	30	61									810
84-15-60	15	20	60	34	69	2-1/2	5	9	1-1/2	6-1/2	4	4	9	930
84-15-72		24	72	32	67									1075

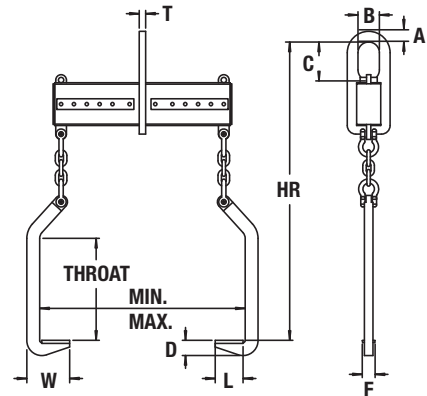
Other sizes available, consult factory.

Model 86 - Double Leg Coil Lifter



PRODUCT FEATURES:

- Most economical of the two-sided coil lifters.
- Two-sided coil lifter requires less aisle space.
- Lifting hook width adjustment pin is easy to use.
- Hooks manufactured from high tensile alloy steel.
- Coil width adjustment indicators for easy hook placement.
- Optional coil protection available.
- Complies with ASME standards.



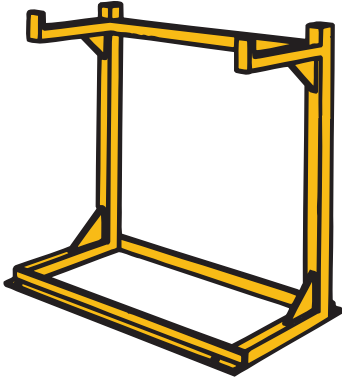
SPECIFICATIONS

Model Number	Capacity (tons)	Dimensions (inches)												Weight (lbs.)
		Coil Width		Throat	HR Headroom	Bail				Foot				
		Min.	Max.			A	B	C	T	D	F	L	W	
86-10-48	10	20	48	24	58	2	4	7	1-1/4	3-1/4	4	7	9-1/2	210
86-15-48	15	20	48	28	66	2-1/2	5	9	1-1/2	3-1/2	4	7	10-7/8	352
86-20-60	20	24	60	30	82	2-1/2	5	9	1-1/2	3-5/16	4	6	9-5/8	760
86-25-60	25	24	60	32	94	2-3/4	6	12	2-1/4	4-3/4	4	8	13-5/8	1235
86-30-72	30	24	72	26	83	3-1/2	7	16	2-1/4	4-3/4	4	8	14-3/4	1170

Other sizes available, consult factory.

Coil Lifters and Upenders

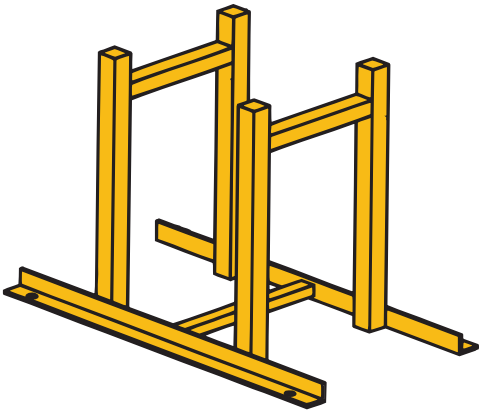
Parking Stands for Coil Hooks



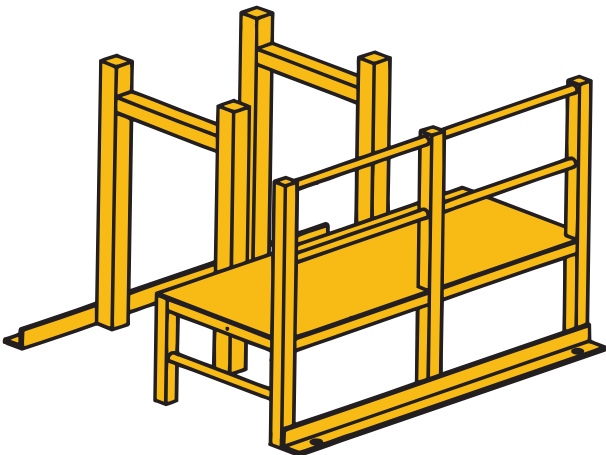
PRODUCT FEATURES:

- Individually designed for your lifter's size and capacity.
- Heavy duty tubular construction.
- Minimizes lifter storage space requirements.
- Stabilizes lifter for personnel safety.
- Allows for easy access to lifter.
- Allows for easy inspection of lifter.
- Minimizes time required to engage lifter with crane hook.

Model PS-CH - Used to store all C-Hook type lifters (Models: 82, 82LA, 82RC).



Model PS-TS - For storage of two sided coil lifters (Models: 84, 86, 85).



Model PS-M-TS - For storage and maintenance of two sided lifters. Personnel platforms provide ease of access to drive system for maintenance and inspection of motorized units.

Coil Lifters and Upenders

Model 88 - Heavy Duty Coil Upender



Shown with V-Block Option

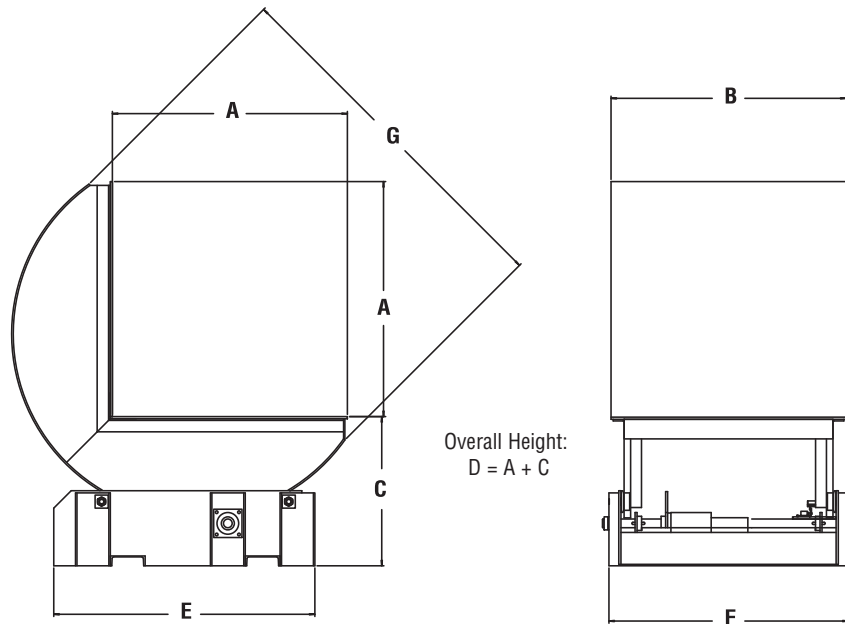
PRODUCT FEATURES:

- Fast and convenient way to upend coils to 90°.
- 240 or 480 operating voltage (specify).
- Heavy duty disc brake will stop load in any position.
- Reversing magnetic starter with pendant control and 10' cord.
- Stop travel/over travel limit switches.

PRODUCT OPTIONS:

- Larger platforms available.
- V-Block, either standard or urethane faced.
(Provide coil information. Height set to accommodate a 4" pallet unless otherwise specified.)
- 180° horizontal rotation which permits loading and unloading from same side.
- Lift truck fork pockets.

NOTE: Additional data may be required to properly size the drive system. Load information including dimensions and center of gravity should be provided.



SPECIFICATIONS

Model Number	Capacity (tons)	Dimensions (inches)							Weight (lbs.)
		A*	B	C	Overall Height D	E	F	G	
88-1-36	1	36	36	24	60	48	36	51	1500
88-2-36	2	36	36	24	60	48	36	51	1600
88-3-42	3	42	42	24	66	56	42	60	2000
88-4-42	4	42	42	24	66	56	42	60	2200
88-5-48	5	48	48	30	78	61	48	66	2750
88-7 1/2-48	7-1/2	48	48	30	78	61	48	66	2900
88-10-54	10	54	54	30	84	60	55	74	3700
88-12 1/2-54	12-1/2	54	54	36	90	69	55	74	4000
88-15-60	15	60	60	36	96	73	60	80	4500
88-20-60	20	60	60	36	96	73	60	80	6200
88-25-72	25	72	72	43	115	88	72	96	10000
88-30-72	30	72	72	48	120	88	72	96	12000

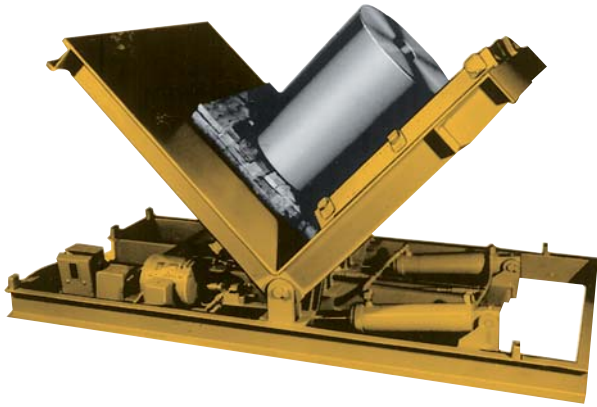
*Coil center of gravity must be 1/2 of 'A'. If different please specify coil or load information.

Pallets must not extend over platform sides.

Other sizes available, consult factory.

Coil Lifters and Upenders

Model 88L - Low Platform Coil Upender



Shown with V-Block Option

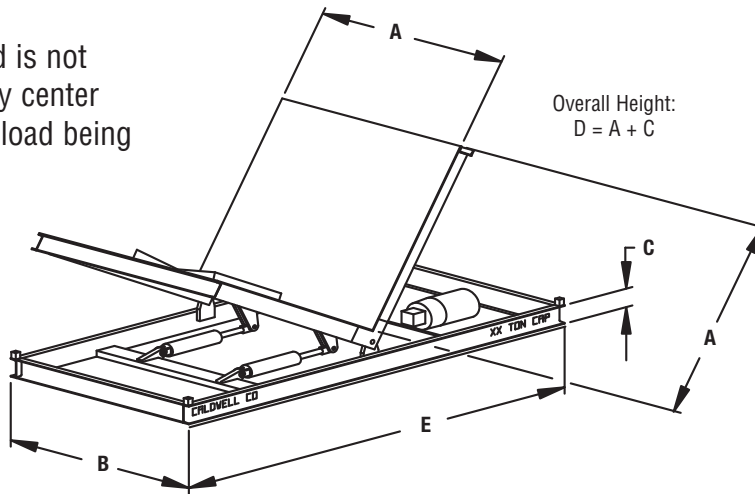
PRODUCT FEATURES:

- Lower platform design offers easier access by operator.
- Fast and convenient way to upend coils to 90°.
- Requires less platform height.
- Magnetic starter with 115 volt pendant control.
- Double acting hydraulic cylinders.
- Relief valve prevents over-capacity rotation.
- Stop limit switches at each end of rotation.

PRODUCT OPTIONS:

- Larger platforms available.
- Unequal platform sizes available.
- V-Block, either standard or urethane faced.
- 90° horizontal rotation, which permits loading and unloading from same side.

NOTE: If load is not a coil, specify center of gravity of load being rotated.



SPECIFICATIONS

Model Number	Capacity (tons)	Dimensions (inches)					Weight (lbs.)
		A	B	C	Overall Height D	E	
88L-1/2-36	1/2	36	36	8-1/4	44-1/4	78	1500
88L-1-36	1	36	36	9-1/4	45-1/4	78	1600
88L-1 1/2-36	1-1/2	36	36	10-1/4	46-1/4	78	1800
88L-2-36	2	36	36	12-1/4	48-1/4	78	2000
88L-2 1/2-42	2-1/2	42	42	13-1/4	55-1/4	90	2200
88L-3-42	3	42	42	14-1/4	56-1/4	90	2300
88L-3 1/2-42	3-1/2	42	42	15-1/4	57-1/4	90	2400
88L-4-42	4	42	42	17-3/8	59-3/8	90	2600
88L-4 1/2-48	4-1/2	48	48	18-3/8	66-3/8	102	2800
88L-5-48	5	48	48	19-3/8	67-3/8	102	3000
88L-6-48	6	48	48	20-3/8	68-3/8	102	3600
88L-7 1/2-48	7-1/2	48	48	20-3/8	68-3/8	102	5000

Pallets must not extend over platform sides. Other sizes available, consult factory.

Coil Handling - Application Evaluation

Specify type of lifter desired: _____

COIL INFORMATION:

Minimum: O.D. _____ I.D. _____ Width/Height _____ Weight _____

Maximum: O.D. _____ I.D. _____ Width/Height _____ Weight _____

In which position will coil be handled? Eye Vertical Eye Horizontal

Describe coil material: Steel Aluminum Brass/Copper

Other, describe: _____

Describe characteristics of coil (ex. tightly wound, banded, telescoped, oily, hot, etc.): _____

Describe where coil is resting and where it will be placed (ex. on a flat surface, pallet, turnstile arm, etc.): _____

Do the coils need to be protected from damage? Yes, describe: _____ No

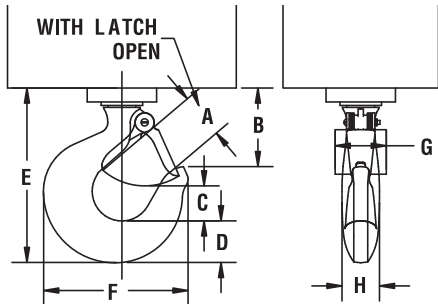
ADDITIONAL INFORMATION:

Are reversing motor controls required? No Yes If yes, Furnished Loose Mounted On Lifter

CMAA Crane Duty Class (A, B, C, D, E, F): _____

Please use the space provided below for additional application information or lifter options required (ex: headroom limitations, clearances where load is picked up and placed, etc.): _____

CRANE HOOK DATA:



- INCHES
- A _____ +0
 - B _____ +0
 - C _____ +0
 - D _____ -0
 - E _____ -0
 - F _____ +/-
 - G _____ -0
 - H _____ -0

Contact: _____

Company: _____

Address: _____

City, State, Zip: _____

Phone: _____

Fax: _____

Email: _____

Measurement Tolerances

- +0 = Measurement should be no larger but can be smaller than actual.
- 0 = Measurement should be no smaller but can be larger than actual.
- +/- = Measurement can be larger or smaller than actual.

For a price quote on your specific application, please complete the above form and fax to The Caldwell Group at **815-229-5686** or you can complete this form online at www.caldwellinc.com/applications.

Sheet Lifters

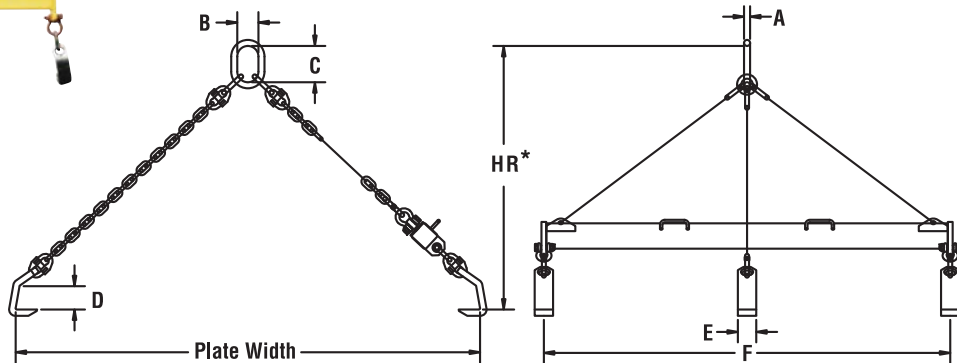
Model PL - Plate Lifters

The Strong-Bac® Plate Lifter provides a quick and easy solution for handling thick plates, one at a time. Simply position the Plate Lifter over your load, check to see that the hooks are engaged and lift.

QUICKSHIP PROGRAM

PRODUCT FEATURES:

- Rugged-chain rigging.
- Heavy duty plate hooks.
- Design allows for easier crane alignment.
- Steel spreader stabilizes two hooks.
- Complies with ASME standards.



SPECIFICATIONS

Model Number	Rated Capacity (tons)	Dimensions (inches)							Plate Width (in.)		Weight (lbs.)
		A	B	C	D	E	F	HR	Min.	Max.	
PL-5	5	1	3.5	6	3	2.3	84	58	36	96	185
PL-10	10	1.25	4.38	7.5	5	3.8	84	58	36	96	320

* Headroom at maximum plate width.

Operation



Sheet Lifters

Model 60 - Heavy Duty Sheet Lifters



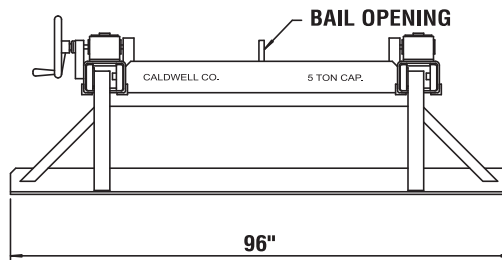
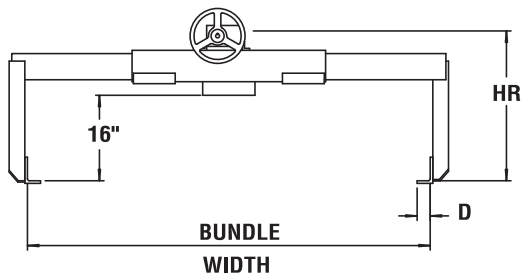
PRODUCT FEATURES:

- Versatile handling of bundles, sheets, plates and other materials stacked horizontally.
- Low headroom design for optimum lifting capabilities.
- One person operation minimizes handling cost.
- Self-locking worm gear drive for leg adjustment is standard.
- Easy adjustment for different sheet widths.
- Rack and pinion leg drive.
- Designed for ease of maintenance.
- Designed for greater sheet width range.
- Complies with ASME standards.

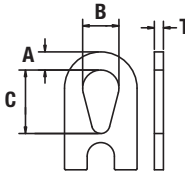
QUICKSHIP PROGRAM

PRODUCT OPTIONS:

- Hand wheel lockout.
- Motorized leg adjustment, includes pendant controls.
- Battery powered motorization.
- Chain-wheel leg adjustment.
- Extended length hand wheel leg adjustment.
- End chains with plate hooks (recommended for all widths 72" and greater).
- Extended grab shoe lengths available.
- Additional bundle clearance available (longer legs).



Bail Opening



WARNING
Do not lift loosely bundled, thin or oily sheets.

SPECIFICATIONS

Model Number	Capacity (tons)	Dimensions (inches)									Weight (lbs.)
		Bundle Width		HR Headroom	Shoe D	Min. Aisle	Bail Opening				
		Min.	Max.				A	B	C	T	
60-3-48	3	16	48	28	2.63	9	1.5	3	5	.75	920
60-3-60		16	60								
60-3-72		16	72								
60-5-48	5	16	48	29	2.63	9	2	4	6	1	1125
60-5-60		16	60								
60-5-72		16	72								
60-5-84		16	84								
60-5-96		16	96								
60-10-48	10	16	48	30	3.5	11	2	4	7	1.5	1510
60-10-60		16	60								
60-10-72		16	72								
60-10-84		16	84								
60-10-96		16	96								
60-15-48	15	16	48	32	3.5	12	2.5	5	9	1.5	1570
60-15-60		16	60								
60-15-72		16	72								
60-15-84		38	84								
60-15-96		38	96								

Other sizes available, consult factory.

Sheet Lifters

Model 60M - Motorized Heavy Duty Sheet Lifters



Special 10 ton unit with extended bundle height.

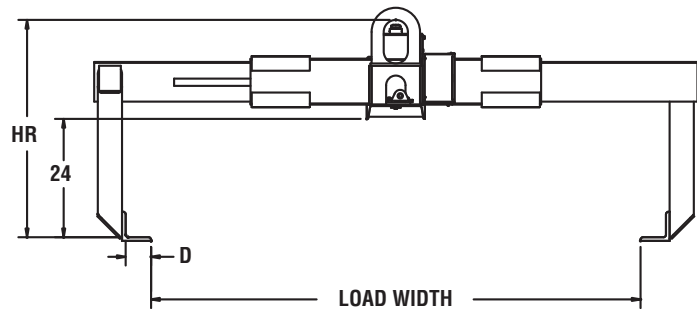
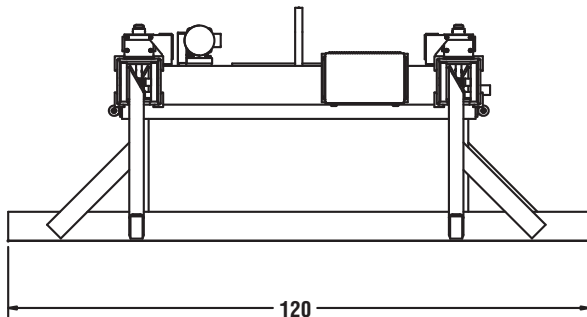
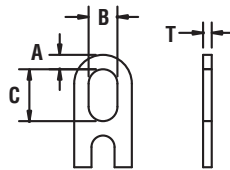
PRODUCT FEATURES:

- Versatile handling of bundles, sheets, plates and other materials stacked horizontally.
- Low headroom design for optimum lifting capabilities.
- One person operation minimizes handling cost.
- Self-locking worm gear drive for leg adjustment is standard.
- Easy adjustment for different sheet widths.
- Motorized leg adjustment, 460 volt.
- Rack and pinion leg drive.
- Designed for ease of maintenance.
- Broad adjustment range handles various load widths.
- Complies with ASME standards.

PRODUCT OPTIONS:

- Battery powered motorization.
- End chains with plate hooks (recommended for all widths 72" and greater).
- Extended grab shoe lengths.
- Longer legs increase load clearance.
- Controls shipped mounted or loose.
- Other voltages available.

Bail Opening



SPECIFICATIONS

Model Number	Capacity (tons)	Dimensions (inches)								Weight (lbs.)	
		Load Width		HR Headroom	Shoe D	Min. Aisle	Bail Opening				
		Min.	Max.				A	B	C		T
60M-20-96	20	38	96	45	5.25	15	2.5	5	9	1.5	3150

Other sizes available, consult factory.

⚠ WARNING

Do not lift loosely bundled, thin or oily sheets.

Sheet Lifters

Model 60H - Hydraulic Sheet Lifter

PRODUCT FEATURES:

- Versatile handling of bundles, sheets, plates and other materials stacked horizontally.
- Low headroom design for optimum lifting capabilities.
- One person operation minimizes handling cost.
- Hydraulic drive for smooth and fast leg adjustment allows more lateral forces applied to load sides.
- Easy adjustment for different sheet widths.
- Less maintenance than mechanical drives.
- Broad adjustment range handles various load widths.
- Complies with ASME standards.

PRODUCT OPTIONS:

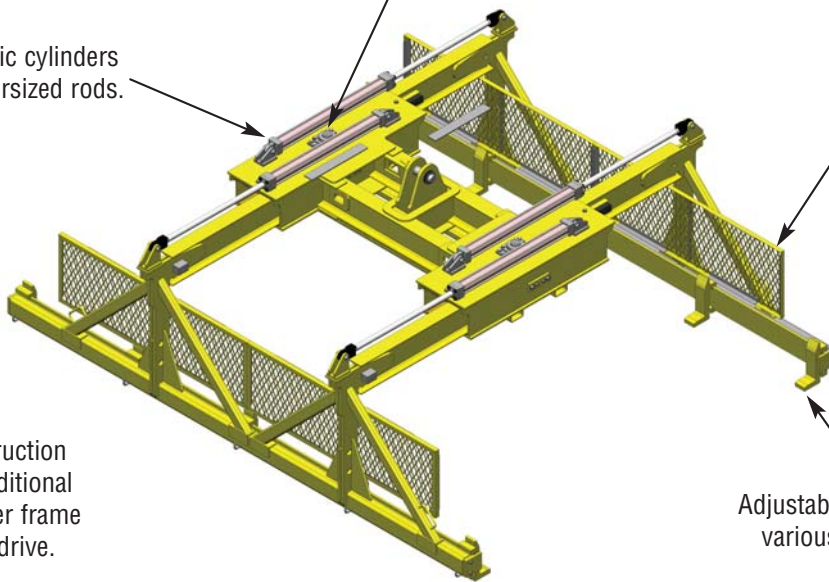
- End chains with plate hooks (recommended for all widths 72" and greater).
- Extended grab shoe lengths or adjustable finger design.
- Longer legs increase load clearance.
- Controls shipped mounted or loose.
- Other voltages available.



Hydraulic cylinders with oversized rods.

Rack and pinion gears keep timing between slide arms.

Guard to keep hands out of pinch point area.



Heavy-duty construction accommodates additional force applied to lifter frame by the hydraulic drive.

Adjustable toes accommodate various dunnage spacing.

NOTE: To request a price quotation on your specific application, please fill in the Sheet Lifter Application Evaluation on page A.59 or online at www.caldwellinc.com/applications.

Sheet Lifters

Model 62 - Small Bundle Sheet Lifter

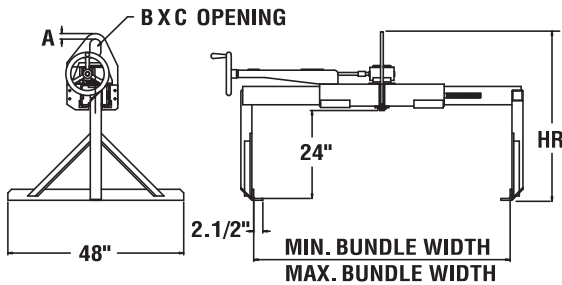


PRODUCT FEATURES:

- Standard light duty unit for handling smaller size sheets and bundles.
- Size and versatility allows for handling of crates, bins and other smaller size containers.
- Side oriented extended length hand wheel adjustment standard.
- Self locking worm gear leg drive system.
- Complies with ASME standards.

SPECIFICATIONS

Model Number	Capacity (tons)	Dimensions (inches)							Weight (lbs.)
		Bundle Width		Min. Aisle	A	B	C	HR Headroom	
		Min.	Max.						
62-1 1/2-36	1-1/2	12	36	8	1-1/2	3	8	42	512
62-1 1/2-48	1-1/2	16	48	8	1-1/2	3	8	42	525
62-3-48	3	16	48	8	1-1/2	5	8	44	670
62-3-60	3	20	60	8	1-1/2	5	8	44	736
62-5-48	5	16	48	8	2	7	8	52	750
62-5-60	5	20	60	8	2	7	8	52	763



WARNING

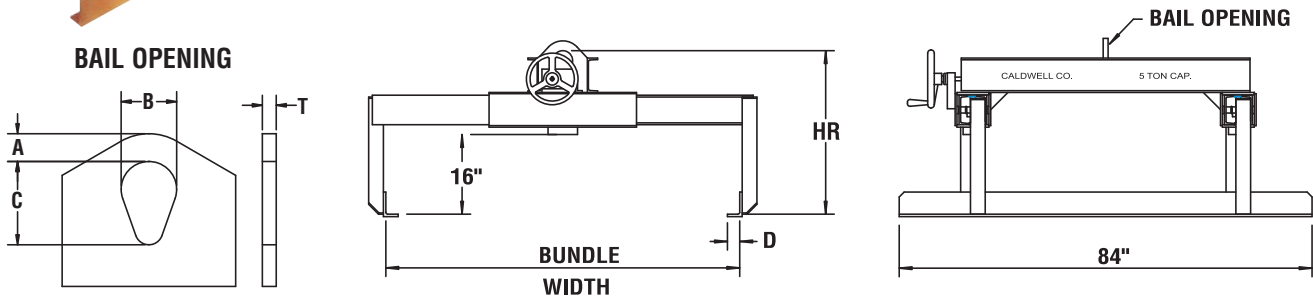
Do not lift loosely bundled, thin or oily sheets.

Model 64 - Standard Duty Sheet Lifter



PRODUCT FEATURES:

- Lightweight.
- Channel steel construction.
- 84" grab shoe length.
- Complies with ASME standards.



SPECIFICATIONS

Model Number	Capacity (tons)	Dimensions (inches)									Weight (lbs.)
		Bundle Width		HR Headroom	Shoe D	Min. Aisle	Bail Opening				
		Min.	Max.				A	B	C	T	
64-2-36	2	15	36	29	2-1/2	8	1-1/2	3	5	3/4	510
64-2-48		20	48								
64-2-60		24	60								
64-5-48	5	20	48	32	2-5/8	8	2	4	6	1	670
64-5-60		24	60								
64-5-72		30	72								
64-7 1/2-48	7-1/2	20	48	34	2-1/2	10	2	4	6	1	840
64-7 1/2-60		24	60								
64-7 1/2-72		30	72								

WARNING

Do not lift loosely bundled, thin or oily sheets.

Other sizes available, consult factory.

Sheet Lifters

Battery Powered Sheet Lifter

Optional power source for all motorized sheet lifters. Just attached to your crane, no power cord needed!
Provides full time or auxiliary power in case of power failure.

NEW



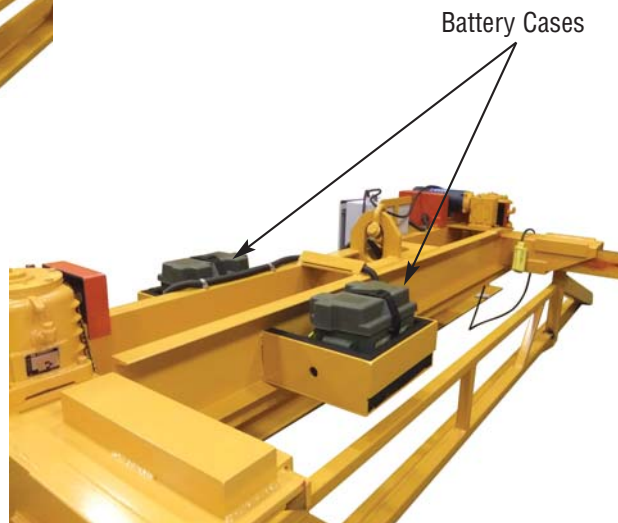
This Model 60BMS-5-96 will lift sheets up to 96" wide and uses full-time battery power to operate.

OPTION FEATURES:

- Long Lasting Rechargeable Batteries
- No power source needed
- Easily moved to different cranes
- Charging system included



Charger mounted to unit.



Battery Cases

Battery Power can be applied to other motorized products as well, ask our customer service if your new motorized lifter can be battery powered.

Sheet Lifter - Application Evaluation

BUNDLE INFORMATION:

Bundle Dimensions:

Minimum: Length _____ Width _____ Height _____ Weight _____

Maximum: Length _____ Width _____ Height _____ Weight _____

Specify material being lifted: _____

Individual Sheet Thickness: Minimum _____ Maximum _____

Is the bundle palletized? Yes No If yes, specify pallet size: _____

Sheet Condition: Dry Oily Banded Loose

ADDITIONAL INFORMATION:

Please provide the model and/or serial number if this is to replace an existing Caldwell lifter: _____

Operation Required Motorized Manual Hydraulic

If motorized, please specify DC (Battery Powered) AC Voltage _____ Phase _____ Cycle _____

Pendant Required Yes No

Should the controls be shipped loose for field mounting? Yes No

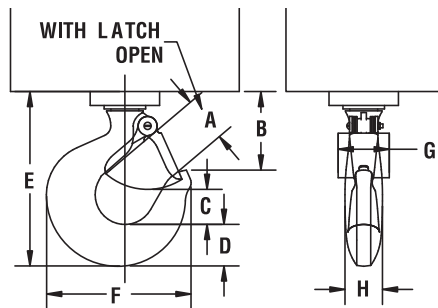
Please provide duty cycle of lifter (lifts per hour and hours per day used): _____

Please provide Crane Classification (A, B, C, D, E, F): _____

Please use the space below to provide additional application information or options required.

For example: headroom issues, space restrictions, lifter restrictions or options such as a chainwheel or end chains.

CRANE HOOK DATA:



- INCHES
- A _____ +0
 - B _____ +0
 - C _____ +0
 - D _____ -0
 - E _____ -0
 - F _____ +/-
 - G _____ -0
 - H _____ -0

Contact: _____

Company: _____

Address: _____

City, State, Zip: _____

Phone: _____

Fax: _____

Email: _____

Measurement Tolerances

- +0 = Measurement should be no larger but can be smaller than actual.
- 0 = Measurement should be no smaller but can be larger than actual.
- +/- = Measurement can be larger or smaller than actual.

For a price quote on your specific application, please complete the above form and fax to The Caldwell Group at **815-229-5686** or you can complete this form online at www.caldwellinc.com/applications.

Lifter LockOut™

Lifter LockOut™

Keep your employees safe with our patent pending Lifter LockOut™. The innovative device senses when a load is in the lifter and locks out the lifter functions to prevent inadvertent opening of the lifter. This can be installed on most motorized lifters that do not have a means of locking out the drive. Caldwell Model 84 Coil Grab, Model 85P Paper Roll Grab, and Model 60 Sheet lifters are just a few examples. It can even be installed on other manufacturers' lifting equipment.

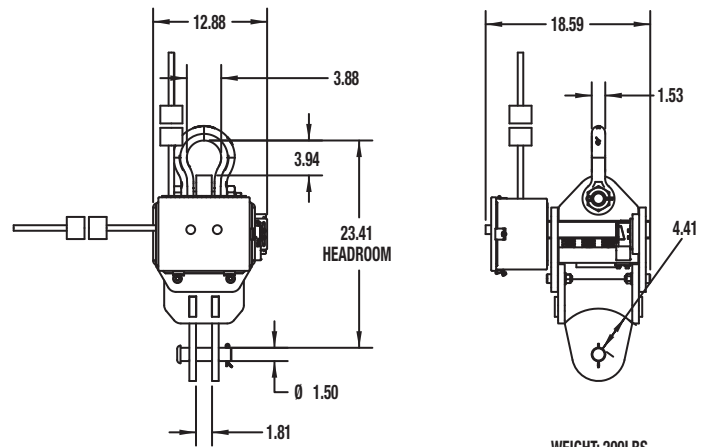
NEW



Patent Pending

- Senses when a load is on the lifter and locks out its functions by turning off the electrical power.
- Eliminates the possibility of the operator accidentally opening the lifter and dropping the load.
- Can be added to any motorized lifter.
- Easy to install. Simply hang from you crane hook, pin to the lifter, plug in and adjust as needed.

Model LLO-15 Dimensions



WEIGHT: 200LBS.

Works on other manufacturers' lifting equipment too!



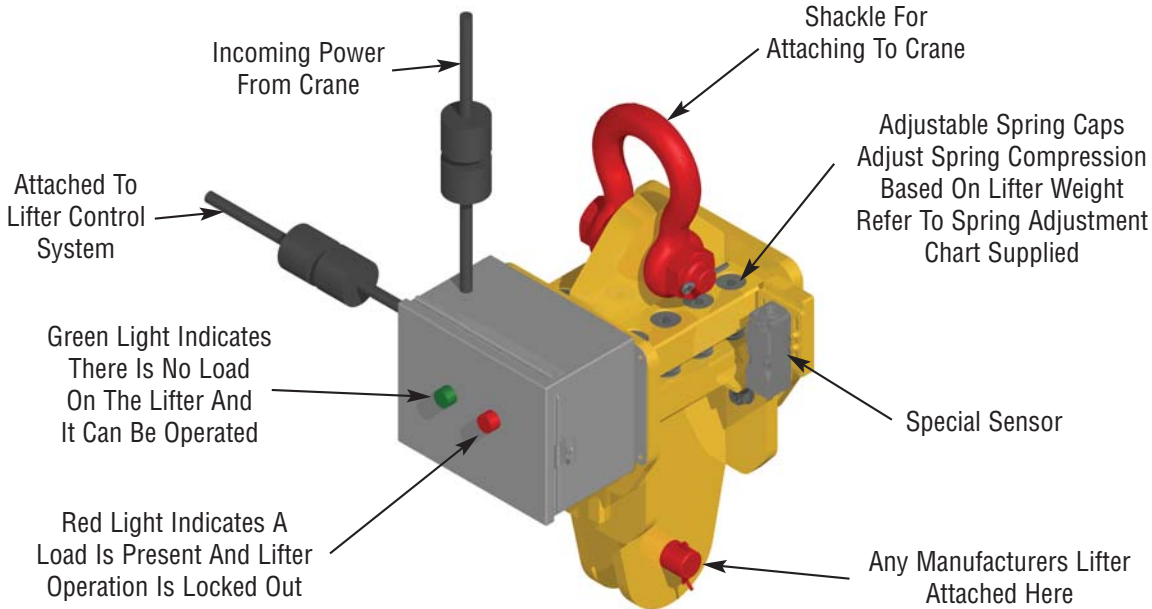
Lifter LockOut™

Lifter LockOut™ Set Up

- Compression springs are configured to accommodate the pre-load weight of the lifter.
- Four, six or eight springs can be used in addition to screw cap adjustment for precision configuration of the lockout settings.
- Shackle lifting eye easily attached to many size crane hooks.
- Pin bail allows for easy attachment to most lifters.
- Maximum 30,000 pound capacity.
- Maximum lifter weight of 7,000 pounds.
- Designed for 480v/3ph/60hz power supply.

Custom Lifter LockOut™ Configurations:

- Special Voltages.
- Custom attachment point for lifter.
- Custom attachment to crane hook.
- Larger capacities.
- Heavier lifter weights.



REQUIRED INFORMATION:

Lifter Weight: _____

Bail Opening Dimensions: _____

Load Weight: _____

Special Designs Available
On Request

Contact: _____

Company: _____

Address: _____

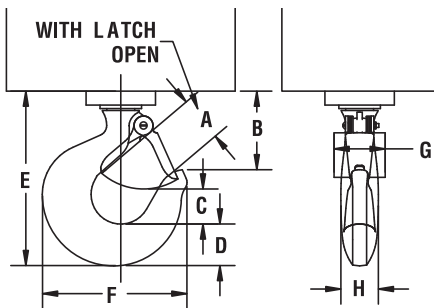
City, State, Zip: _____

Phone: _____

Fax: _____

Email: _____

CRANE HOOK DATA:



INCHES

A _____ +0

B _____ +0

C _____ +0

D _____ -0

E _____ -0

F _____ +/-

G _____ -0

H _____ -0

Measurement Tolerances

- +0 = Measurement should be no larger but can be smaller than actual.
- 0 = Measurement should be no smaller but can be larger than actual.
- +/- = Measurement can be larger or smaller than actual.

For a price quote on your specific application, please complete the above form and fax to The Caldwell Group at **815-229-5686** or you can complete this form online at www.caldwellinc.com/applications.

Pallet Lifters

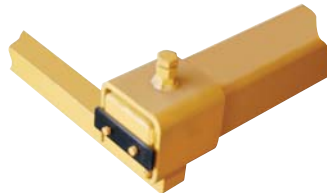
Model 90ACL - Adjustable Load Lifter

Use your crane to handle a wide range of loads.

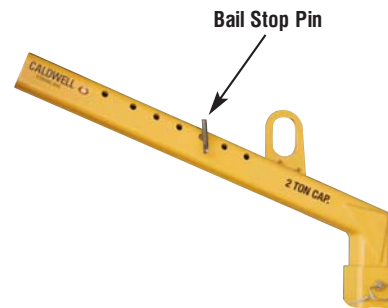


PRODUCT FEATURES:

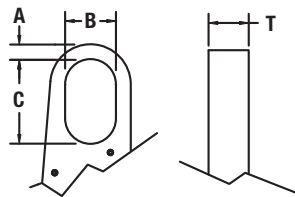
- Once the bail pin is set the pallet lifter remains balanced whether full or empty to make the job faster and safer.
- Adjustable bail provides for balanced handling of items with different load centers.
- Adjustable throat allows for the correct handling of higher stacked loads.
- Adjustable forks allow for proper placement of the forks spread.
- The auto return bail automatically levels empty pallet lifter saving time and effort.
- Heavy duty construction for years of trouble free service.
- Complies with ASME standards.



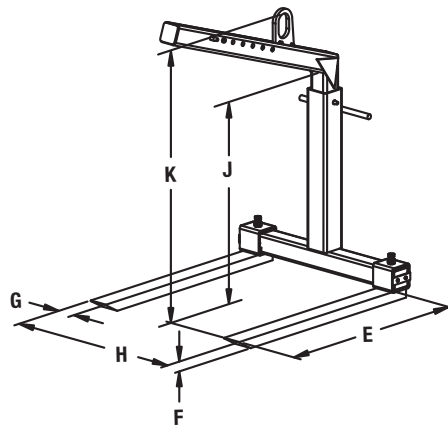
Close-up of adjustable fork



INSTOCK PROGRAM



Bail



SPECIFICATIONS

Model Number	Rated Capacity (tons)	Dimensions (in.)																		Weight (lbs.)	
		Fork					Bail					Throat			HR Headroom (at min. throat)		HR Headroom (at mid throat)		HR Headroom (at max. throat)		
		E	F	G	H		A	B	C	T	J			K		K		K			
					Min.	Max.					Min.	Mid	Max.	Min.	Max.	Min.	Max.	Min.	Max.		
90ACL-2	2	43.00	2.00	4.00	17.50	36.00	.88	3.00	5.00	0.75	40.68	52.68	64.18	54.88	60.68	66.63	72.44	78.38	84.18	515	

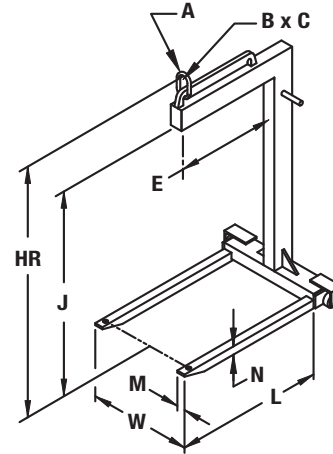
Pallet Lifters

Model 93W - Wheeled Pallet Lifter



PRODUCT FEATURES:

- Wheels allow for movement of unit without crane.
- Dual lift points eliminates need for counterweight.
- Extremely lightweight for ease of handling.
- Complies with ASME standards.



QUICKSHIP PROGRAM

SPECIFICATIONS

Model Number	Capacity (tons)	Dimensions (inches)										Weight (lbs.)
		Forks					Bail					
		L	M	N	W	E	A	B	C	J	HR	
93W-1-48	1	36	2	2	25	24	1/2	2-1/2	3-3/4	48	60	245
93W-2-48	2	36	4	2	25	24	3/4	2-3/4	4-1/2	48	62	405

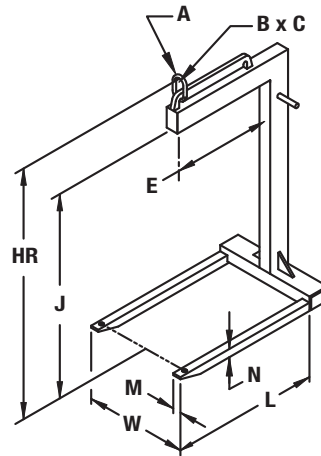
Model 94 - Lightweight Pallet Lifter



QUICKSHIP PROGRAM

PRODUCT FEATURES:

- Dual lift points eliminates need for counterweight.
- Extremely lightweight for ease of handling.
- Maintenance free - no moving parts.
- Complies with ASME standards.



SPECIFICATIONS

Model Number	Capacity (tons)	Dimensions (inches)										Weight (lbs.)
		Forks					Bail					
		L	M	N	W	E	A	B	C	J	HR	
94-1-48	1	36	2	2	25	24	1/2	2-1/2	3-3/4	48	58	245
94-2-48	2	36	4	2	25	24	3/4	2-3/4	4-1/2	48	62	425
94-3-48	3	36	4-1/2	2-1/2	27	24	1	3-1/2	5	48	65	610

Pallet Lifters

Model 90 - Standard Fixed Forks Pallet Lifter



QUICKSHIP PROGRAM

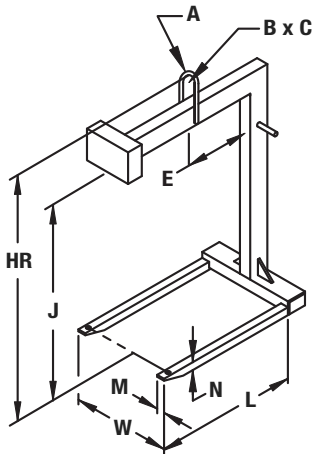
PRODUCT FEATURES:

- Converts overhead crane to lift truck.
- Counter balanced to hang level when empty.
- Maintenance free.
- Allows for ease of loading/unloading in not easily accessible areas.
- Complies with ASME standards.

SPECIFICATIONS

Model Number	Capacity (tons)	Dimensions (inches)										Weight (lbs.)
		Forks			W	E	Bail			J*	HR	
		L	M	N			A	B	C			
90-1-36	1	36	2	2	25	18	1	6	5	48	57-1/2	292
90-1-42	1	42	2	2	25	21	1	6	5	48	57-1/2	310
90-1-48	1	48	2	2	25	24	1	6	5	48	58-1/2	371
90-1 1/2-36	1-1/2	36	3	2	25	18	1	6	5	48	58-1/2	388
90-1 1/2-42	1-1/2	42	3	2	25	21	1	6	5	48	58-1/2	432
90-1 1/2-48	1-1/2	48	3	2	25	24	1	6	5	48	58-1/2	459
90-2-36	2	36	3	2	25	18	1	6	5	48	59-1/2	448
90-2-42	2	42	4	2	25	21	1	6	5	48	59-1/2	536
90-2-48	2	48	4	2	25	24	1	6	5	48	59-1/2	627
90-3-42	3	42	4-1/2	2-1/2	25	21	1-1/2	6-1/8	7	48	61-1/2	766
90-3-48	3	48	4-1/2	2-1/2	27	24	1-1/2	6-1/8	7	48	61-1/2	823
90-3-54	3	54	4-1/2	2-1/2	30	27	1-1/2	6-1/8	7	48	61-1/2	969
90-4-48	4	48	5	3	27	24	1-1/2	6-1/8	7	48	63-1/2	1176
90-4-60	4	60	5	3	30	30	1-1/2	6-1/8	7	60	75-1/2	1393
90-5-48	5	48	5	3	30	24	1-1/2	6-1/8	7	48	63-1/2	1193
90-5-60	5	60	4-1/2	2-1/2	38	30	1-1/2	8-1/8	7	60	75-1/2	1403

* Additional 3" - 4" clearance recommended above load for ease of loading and unloading the lifter.



Model 95 - Heavy Duty Fixed Forks Pallet Lifter



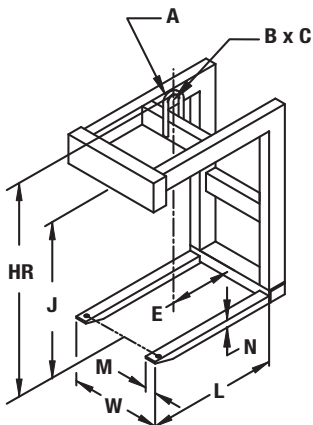
PRODUCT FEATURES:

- Double frame design for heavy capacities.
- Counter balanced to hang level when empty.
- Maintenance free.
- Complies with ASME standards.

SPECIFICATIONS

Model Number	Capacity (tons)	Dimensions (inches)										Weight (lbs.)
		Forks			W	E	Bail			J*	HR	
		L	M	N			A	B	C			
95-7 1/2-48	7-1/2	48	6	2-1/2	30	24	2	5	9	48	65	1910
95-7 1/2-60	7-1/2	60	10	3	38	30	2	5	9	60	79	2400
95-10-48	10	48	10	3	30	24	2	5	9	48	69	1950
95-10-60	10	60	10	3	38	30	2	5	9	60	81	3100
95-15-48	15	48	10	3	38	24	2	6	12	60	84	2250
95-15-60	15	60	10	3	38	30	2	6	12	60	75	3800
95-20-60	20	60	7	4	38	30	2-1/4	6	12	60	88	4300
95-20-72	20	72	8-1/4	4	44	36	2-1/4	6	12	60	88	4850

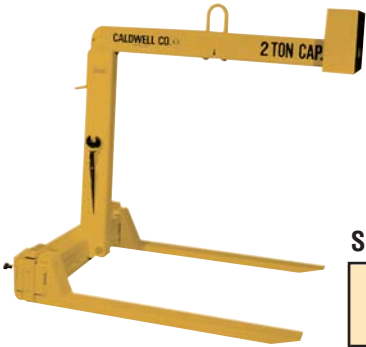
* Additional 3" - 4" clearance recommended above load for ease of loading and unloading the lifter.



WARNING
 Center of hoist and bail must be in-line with the load's center of gravity.

Pallet Lifters

Model 91 - Standard Adjustable Forks Pallet Lifter



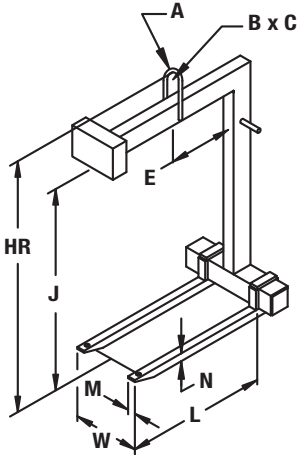
PRODUCT FEATURES:

- Converts overhead crane into lift truck.
- Pry bar adjustable forks to handle multiple pallet sizes.
- Counter balanced to hang level when empty.
- Complies with ASME standards.

SPECIFICATIONS

Model Number	Capacity (tons)	Dimensions (inches)											Weight (lbs.)
		Forks			W		E	Bail			J*	HR	
		L	M	N	Min.	Max.		A	B	C			
91-1-36	1	36	2	2	16	38	18	1	3	5	48	58	670
91-1-42	1	42	2	2	16	38	21	1	3	5	48	58	760
91-1-48	1	48	2	2	16	38	24	1	3	5	48	59	780
91-1 1/2-36	1-1/2	36	3	2	16	38	18	1	3	5	48	59	845
91-1 1/2-42	1-1/2	42	3	2	16	38	21	1	3	5	48	59	900
91-1 1/2-48	1-1/2	48	3	2	16	38	24	1	3	5	48	60	950
91-2-36	2	36	3	2	16	38	18	1	3	5	48	60	980
91-2-42	2	42	4	2	16	38	21	1	3	5	48	60	1060
91-2-48	2	48	4	2	16	38	24	1	3	5	48	59-1/2	1080
91-3-42	3	42	4-1/2	2-1/2	16	38	21	1-1/2	4	7	48	61-1/2	1250
91-3-48	3	48	4-1/2	2-1/2	16	38	24	1-1/2	4	7	48	61-1/2	1368
91-3-54	3	54	4-1/2	2-1/2	16	38	27	1-1/2	4	7	48	63	2005
91-4-48	4	48	5	3	19	38	24	1-1/2	4	7	48	64	1600
91-4-60	4	60	5	3	19	38	30	1-1/2	4	7	60	76	2240
91-5-48	5	48	5	3	19	38	24	1-1/2	4	7	48	65	1865
91-5-60	5	60	4-1/2	2-1/2	19	38	30	1-1/2	4	7	60	77	2190

* Additional 3" - 4" clearance recommended above load for ease of loading and unloading the lifter.



Model 96 - Heavy Duty Adjustable Forks Pallet Lifter



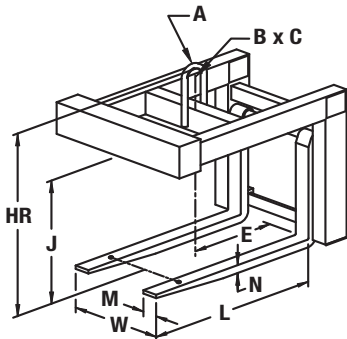
PRODUCT FEATURES:

- Forged forks gives ease of adjustment.
- Smaller fork sizes gained using forged forks.
- Double frame design for heavy capacities.
- Complies with ASME standards.

SPECIFICATIONS

Model Number	Capacity (tons)	Dimensions (inches)											Weight (lbs.)
		Forks			W		E	Bail			J*	HR	
		L	M	N	Min.	Max.		A	B	C			
96-7 1/2-48	7-1/2	48	6	2-1/2	20	48	24	2	5	9	48	64-1/2	2400
96-7 1/2-60	7-1/2	60	6	3	20	48	30	2	5	9	60	77-1/2	3300
96-7 1/2-72	7-1/2	72	6	3	20	48	36	2	5	9	60	80	3750
96-10-48	10	48	6	3	20	48	24	2	5	9	48	68	2900
96-10-60	10	60	6	3	20	48	30	2	5	9	60	79-1/2	4300
96-10-72	10	72	7	3	20	48	36	2	5	9	60	79-1/2	4900
96-12 1/2-48	12-1/2	48	6	3	20	48	24	2	6	12	48	82	3900
96-12 1/2-60	12-1/2	60	6	3	20	42	30	2	6	12	60	82	4700
96-12 1/2-72	12-1/2	72	7	3-1/2	20	38	36	2	6	12	60	82	5500

* Additional 3" - 4" clearance recommended above load for ease of loading and unloading the lifter.



⚠ WARNING

Center of hoist and bail must be in-line with the load's center of gravity.

Pallet Lifters

Model 92 - Hand Wheel Adjustable Forks Pallet Lifter



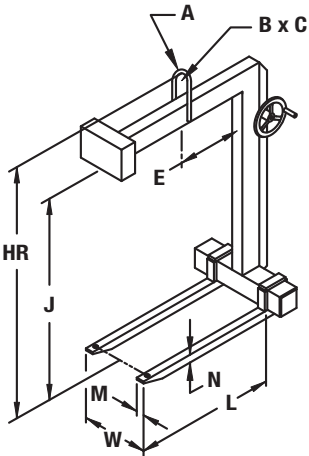
PRODUCT FEATURES:

- Hand wheel adjustable forks for ease of adjustment.
- Converts overhead crane to lift truck.
- Handles multiple pallet sizes.
- Complies with ASME standards.

SPECIFICATIONS

Model Number	Capacity (tons)	Dimensions (inches)											Weight (lbs.)
		Forks			W		E	Bail			J*	HR	
		L	M	N	Min.	Max.		A	B	C			
92-1-36	1	36	2	2	16	38	18	1	3	5	48	58	890
92-1-42	1	42	2	2	16	38	21	1	3	5	48	58-1/2	800
92-1-48	1	48	2	2	16	38	24	1	3	5	48	58-1/2	1051
92-1 1/2-36	1-1/2	36	3	2	22-1/2	38	18	1	3	5	48	58	1000
92-1 1/2-42	1-1/2	42	3	2	22-1/2	38	21	1	3	5	48	60	1055
92-1 1/2-48	1-1/2	48	3	2	22-1/2	38	24	1	3	5	48	60	1130
92-2-36	2	36	3	2	22-1/2	38	18	1	3	5	48	60	1105
92-2-42	2	42	4	2	23	38	21	1	3	5	48	60	1351
92-2-48	2	48	4	2	24	38	24	1	3	5	48	59-1/2	1360
92-3-42	3	42	5	2	23	38	21	1-1/2	4	7	48	61-1/2	1465
92-3-48	3	48	4-1/2	2-1/2	24	38	24	1-1/2	4	7	48	63-1/2	1600
92-3-54	3	54	4-1/2	2-1/2	24	38	27	1-1/2	4	7	48	63	2130
92-4-48	4	48	5	3	28-1/2	38	24	1-1/2	4	7	48	62-1/2	2035
92-4-60	4	60	5	3	28-1/2	38	30	1-1/2	4	7	60	76	2385
92-5-48	5	48	5	3	25-1/2	38	24	1-1/2	4	7	48	65	2550
92-5-60	5	60	4-1/2	2-1/2	25-1/2	38	30	1-1/2	4	7	60	79	2740

* Additional 3" - 4" clearance recommended above load for ease of loading and unloading the lifter.



Model 97 - Heavy Duty Hand Wheel Adjustable Forks Pallet Lifter



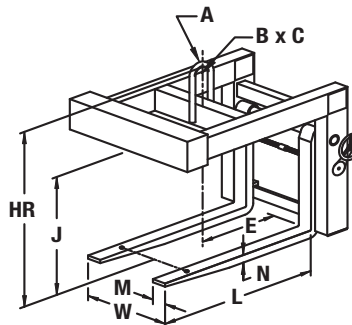
PRODUCT FEATURES:

- Hand wheel adjustable forks for ease of adjustment.
- Forged forks allow for smaller fork sizes.
- Double frame design for heavy capacities.
- Complies with ASME standards.

SPECIFICATIONS

Model Number	Capacity (tons)	Dimensions (inches)											Weight (lbs.)
		Forks			W		E	Bail			J*	HR	
		L	M	N	Min.	Max.		A	B	C			
97-7 1-2-48	7-1/2	48	6	2-1/2	20	48	24	2	5	9	48	66	2600
97-7 1/2-60	7-1/2	60	6	3	20	48	30	2	5	9	60	77-1/2	3500
97-7 1/2-72	7-1/2	72	6	3	20	48	36	2	5	9	60	80	3950
97-10-48	10	48	6	3	20	48	24	2	5	9	48	65-1/2	3150
97-10-60	10	60	6	3	20	48	30	2	5	9	60	77-1/2	3850
97-10-72	10	72	7	3	20	48	36	2	5	9	60	82	4250
97-12 1/2-48	12-1/2	48	6	3	20	48	24	2	6	12	48	82	4200
97-12 1/2-60	12-1/2	60	6	3	20	48	30	2	6	12	60	82	4950
97-12 1/2-72	12-1/2	72	7	3-1/2	20	48	36	2	6	12	60	82	5750
97-15-60	15	60	7	3-1/2	20	48	30	2	6	12	60	82	5300
97-15-72	15	72	8	3-1/2	20	48	36	2	6	12	60	82-1/2	6400

* Additional 3" - 4" clearance recommended above load for ease of loading and unloading the lifter.



WARNING

Center of hoist and bail must be in-line with the load's center of gravity.

Pallet Lifter - Application Evaluation

LOAD INFORMATION:

Describe load: _____

Maximum weight: _____

Fork pocket spacing: Minimum _____ Maximum _____

Fork pocket dimensions: Length _____ Width _____ Height _____

Is load center of gravity off-centered? Yes No

If no, provide detailed drawing.

Can the load center of gravity shift during movement? Yes No

If yes, please explain. _____

CRANE INFORMATION:

Approximate distance between load and crane: _____

Dual crane hoist information

Distance between: _____

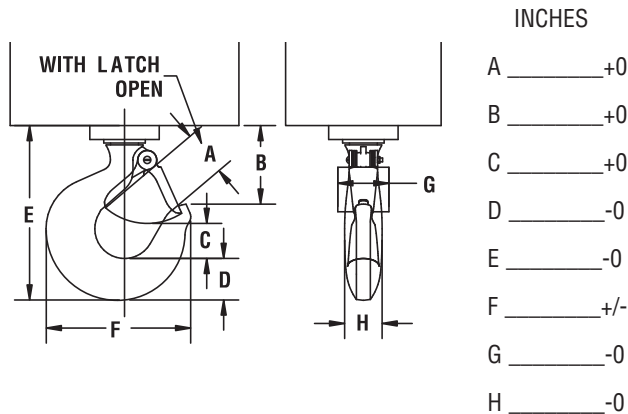
Single crane hoist information

Same capacity? Yes No

Capacity: _____

If no, specify capacities: _____

CRANE HOOK DATA:



Measurement Tolerances

- +0 = Measurement should be no larger but can be smaller than actual.
- 0 = Measurement should be no smaller but can be larger than actual.
- +/- = Measurement can be larger or smaller than actual.

Contact: _____

Company: _____

Address: _____

City, State, Zip: _____

Phone: _____

Fax: _____

Email: _____

For a price quote on your specific application, please complete the above form and fax to The Caldwell Group at **815-229-5686** or you can complete this form online at www.caldwellinc.com/applications.

Rotating Crane Hooks

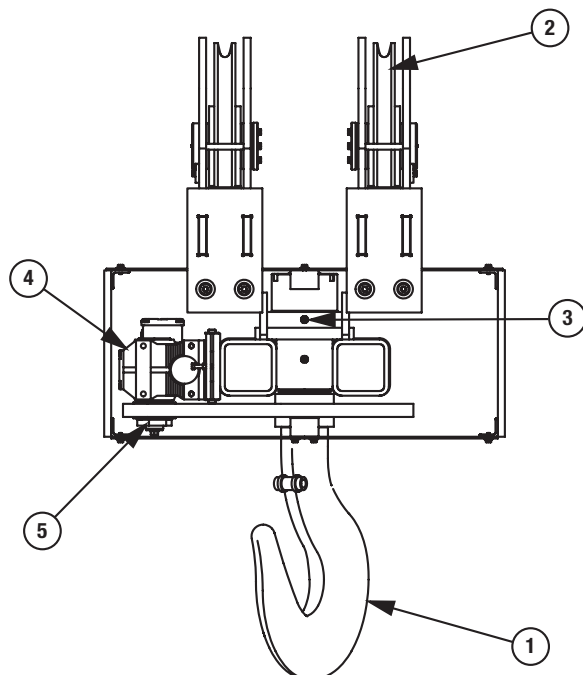
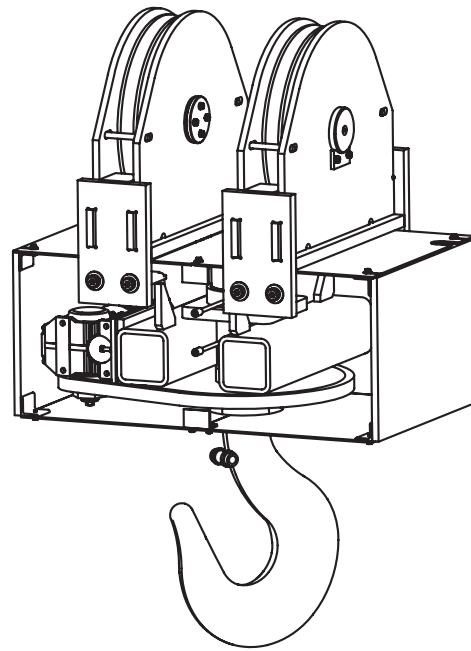
Model 50 - Motorized Rotating Crane Hook



Shown with optional load scale.

PRODUCT FEATURES:

- Custom designed to fit your applications.
- Allows for independent and precise position of load.
- Full 360° rotation @ 1-1/2 RPM.
- Controls feature soft-starting capability.
- Designed to operate on either direct or alternating power supply.

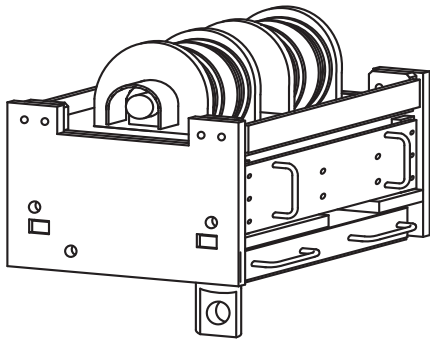


STANDARD DESIGN FEATURES:

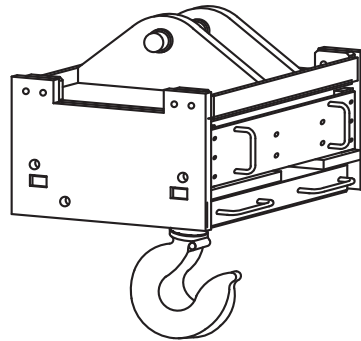
1. Heat treated forged steel hook with latch.
2. Steel sheaves with hardened rope grooves and tapered roller bearings.
3. High capacity thrust bearing.
4. Heavy duty helical-worm gear motor.
5. Chain and sprocket final drive.
6. Easy access for maintenance.
7. Controls include starter with overload, VFD (variable frequency drive) NEMA - 12 enclosure and pigtail.

Rotating Crane Hooks

Clevis Style



Pin Bail



Application Evaluation

1. CMAA Crane Duty Class: _____
2. Capacity of crane: _____
3. Number of sheaves: _____
4. Sheave diameter: _____
5. Sheave spacing (A): _____ (X): _____
6. Type of sheave bearings: _____
7. Wire rope diameter: _____
8. Maximum degree of rotation required: _____
9. Will a motorized grab be suspended from the hook?
 Yes No

10. Operating voltage: _____
11. Describe load to be rotated:
 - a. Weight _____
 - b. Length _____
 - c. Width _____
 - d. Height _____
 - e. Shape _____

12. Will hook be outdoors?

- Yes No

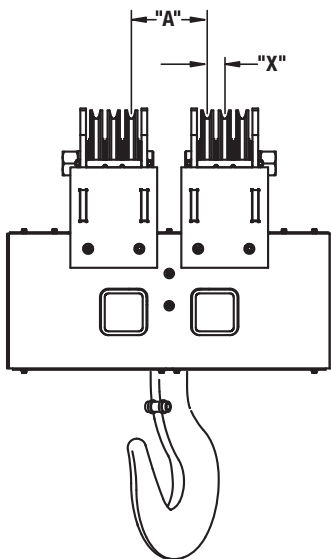
13. Operation controlled from:

- Cab Pendant Remote

14. Load scale required? Yes No

Describe requirements: _____

15. Options required: _____



For a price quote on your specific application, please complete the above form and fax to The Caldwell Group at **815-229-5686** or you can complete this form online at www.caldwellinc.com/applications.

Contact: _____

Company: _____

Address: _____

City, State, Zip: _____

Phone: _____

Fax: _____

Email: _____

Material Handling

Model HDMS - Heavy Duty Material Stands

When you need to raise your product up to the right height to aid in the manufacturing, maintenance or repair process; our Strong-Bac® Heavy Duty Material Stands are the solution you need. Each pair is custom designed to fit your specific application.

PRODUCT FEATURES:

- Designed to meet rated capacity.
- Available with fork pockets, caster, or both for easy transportation.
- Casters are collapsible under load.
- Stands are clearly marked with rated capacity.



The Caldwell Group • 800-628-4263 • www.caldwellinc.com

Strong-Bac® Section
2014-2016 Master Catalog

Material Handling

Model HDMS - Heavy Duty Material Stands



Application Evaluation

1. Rated Capacity (lbs.): _____
2. Height Required (at top of stand): _____
3. Describe product being set on stands: _____

4. Dimensions:
Length _____ Width _____ Height _____

5. Casters or fork pockets (check) boxes:
 If Casters, specify floor surface material.

 If Fork Pockets, Specify pocket dimensions
required:
Length _____ Width _____ Height _____
Note: CG must be centered between horses.

Contact: _____
Company: _____
Address: _____
City, State, Zip: _____
Phone: _____
Fax: _____
Email: _____

For a price quote on your specific application,
please complete the above form and fax to
The Caldwell Group at **815-229-5686**
or you can complete this form online at
www.caldwellinc.com/applications.

Model MB - Material Baskets

Caldwell custom designed material baskets provide the ideal solution when lifting and transporting components on the job site or manufacturing facility.



PRODUCT FEATURES:

- Organize material for a specific job.
- Quickly transport tools or components from one area to another.
- Easily keep inventory contained and under control.
- Designed to fit your specific application requirements.
- Complies with ASME standards.



Short, solid sided basket with no door.



Heavy duty steel with solid steel door and fork pockets.



Lightweight aluminum with mesh door and fork pockets.

Caldwell material baskets are not rated for handling personnel.

Material Handling

Model MB - Material Baskets



Shown with optional fork pockets and casters.



Steel with mesh walls and solid steel door.

Application Evaluation

- Capacity (lbs.): _____
- Inside Dimensions:
Length _____ Width _____ Height _____
- Door: Yes No
If yes, specify location and type of swing required.
 Left Right Length Width
 Other _____
- Wall material:
 Open Frame Expanded metal
 Solid steel Other: (please specify) _____
- Crane Attachment Method: Chain Top Rigging
 Lifting Beam Lifting Bracket
 Other (please describe): _____
- Fork pockets required:
 Yes, specify maximum fork dimensions: _____
 No
- Castors required: Yes No
- Is the load centered in the basket?
 Yes No
If no, please provide sketch or drawing indicating load center.
- Other information: _____

Contact: _____

Company: _____

Address: _____

City, State, Zip: _____

Phone: _____

Fax: _____

Email: _____

For a price quote on your specific application, please complete the above form and fax to The Caldwell Group at **815-229-5686** or you can complete this form online at www.caldwellinc.com/applications.

Lifting Tongs

General Information:

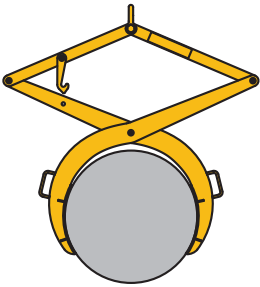
Caldwell Lifting Tongs are available in standard configurations to fit many common applications. However, not all lifting challenges will be solved with a standard tong. Caldwell has the experienced team that can create a custom designed lifting tong to fit the specifications provided. All custom Caldwell Lifting tongs are designed to comply with ASME standards.



Lifting tongs are available in three configurations.

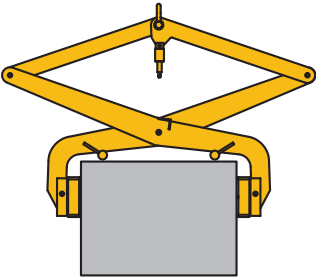
1. **FRICTION** – Grab arms conform to load surface with outside diameter supported below center of load for additional holding advantage.

Designed to lift such products as rolls, tubes, and other cylindrical materials. Standard models are shown on page F.25 of our Rig-Master® section.



2. **INDENTATION** – Grab arms grip vertical sides of straight sided materials. Custom grip pads are required to have sufficient coefficient of friction between material lifted and grip pads. Grip pads may be rubber, steel, belting, points and other.

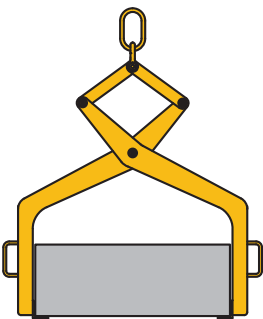
Designed to lift such products as bales, boxes, ingots, and other straight sided materials.



Standard models for bales are shown on page A.77, slab tongs are shown on pages F.14 - F.15 of our Rig-Master® section.

3. **SUPPORTING** – Grab arms have feet to support underneath load. Designed to handle constant sizes of material to maintain a horizontal plane on the lifting feet. Dunnage under material required to insert/remove feet of tong.

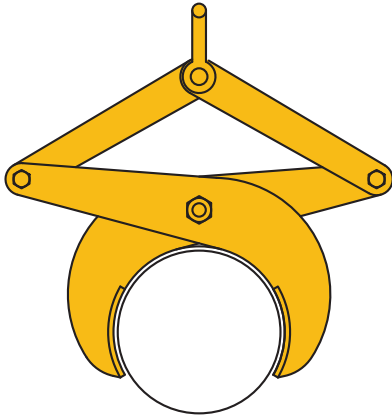
Designed to lift constant sized boxes, containers, crates, and other constant sized square shaped material.



Standard models for dies are shown on page A.79.

Lifting Tongs

Application Ideas for Custom Friction Tongs... to lift rolls, tubes and cylindrical materials



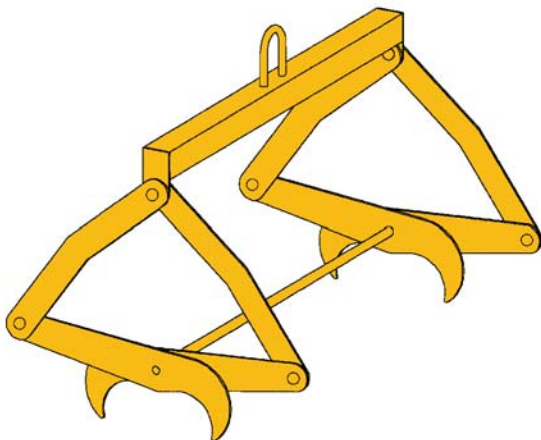
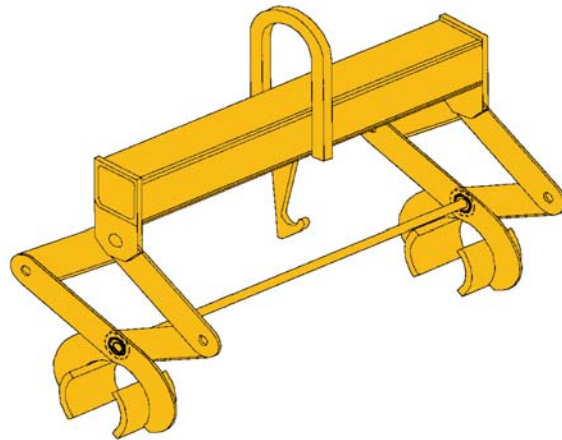
Pipe Tongs

For our standard 108 Pipe Tongs, please see our Rig-Master® section, page F.25.

The Single Gripping Tong is used to lift cylindrical objects that are short in length such as large diameter round bar, tube or rolls of material.

We have integrated both a manual latch or the Auto-Latch mechanism into this family of tongs. The selection of the latch is dependant on the application.

The Dual Gripping Tong system supports and stabilizes longer, larger loads. The large contoured pads distribute the force applied to the load over a larger surface area. Optional pad linings, nylon or rubber pads protect the load from damage. This is ideal when handling rolls of fabric or polyethylene film.

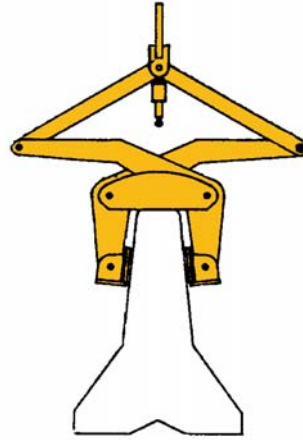
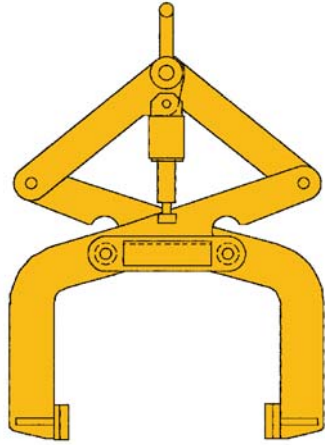


This Dual Gripping Tong system will support and stabilize longer, larger loads that can sustain the force of the entire load on a smaller surface area. When the narrow gripping arms engage the item, significant pressure will be applied. Ideal for handling bundles of steel that are round in shape.

Lifting Tongs

Application Ideas for Indentation Tongs...

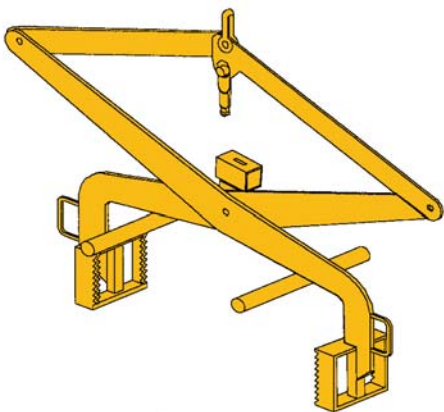
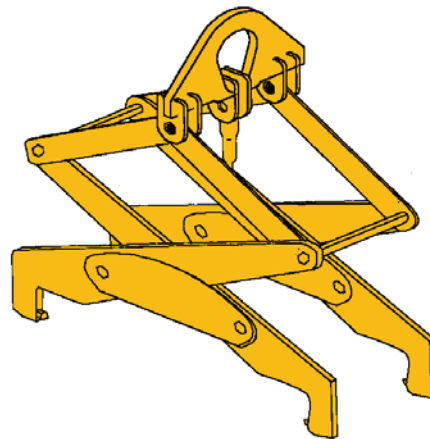
to lift bales, boxes, ingots, and other straight sided materials



Barrier Tongs

For our standard BLG Barrier Grab, please see our Rig-Master® section, pages F.4 - F.5.

PRESSURE TONGS can be used to lift objects that have sufficient structure and density that they will not be damaged by the application of significant lateral force. An example of this is concrete highway barriers and steel ingots.



They can also be used in situations where the lifted item can accommodate a gripping action that may indent the sides of the load. Cotton and cardboard bales are a good example of loads that can be lifted with a PRESSURE TONG even though they are not rigid.

Lifting Tongs

Standard Indentation Type

Model 77 - Bale Lifting Tongs



PRODUCT FEATURES:

- Lifts bales of paper, cotton, and other materials.
- Wide gripping surface for load stability.
- Includes Auto-Latch mechanism for one person operation.
- Complies with ASME standards.

**QUICKSHIP
PROGRAM**

SPECIFICATIONS

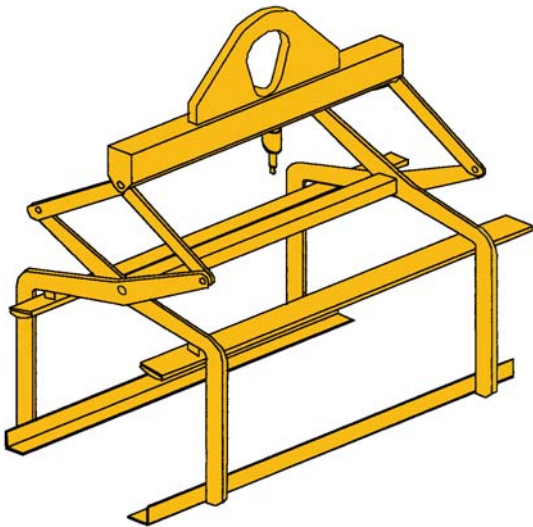
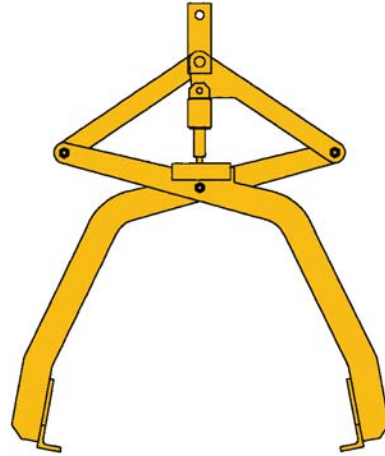
Model Number	Rated Capacity (tons)	Bale Width (in.)	Unit Height Loaded (in.)	Pad Dimensions (in.)		Weight (lbs.)
				Width	Height	
77-1/2-36	1/2	36	52	18	9	280
77-1/2-48	1/2	48	56	18	9	300
77-1-36	1	36	52	18	9	280
77-1-48	1	48	56	18	9	300

Lifting Tongs

Application Ideas for Supporting Tongs...

to lift constant sized boxes, containers and crates

This SUPPORT TONG is used for constant sized containers. It has an arm design that allows significant height on the lifted item and includes an Auto-Latch mechanism for single person control. This Auto-Latch allows the operator to position, engage, lift, move, place and disengage the lifted item without assistance from another individual or without moving from the crane/hoist control station.



This SUPPORT TONG is also used for constant sized containers. It has the Auto-Latch and added length to handle longer loads. The top guide stops simplify the auto-engagement and single operator use.

Lifting Tongs

Standard Support Type

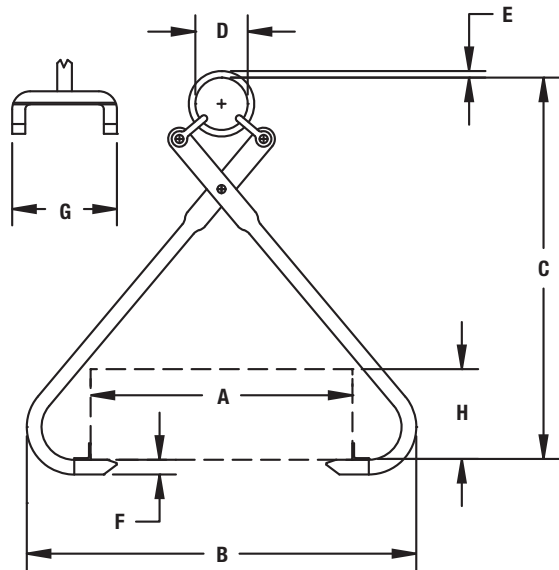
Model DLT - Die Lifting Tongs



PRODUCT FEATURES:

- Broad capacity range.
- Low headroom design.
- Complies with ASME standards.

QUICKSHIP PROGRAM



SPECIFICATIONS

Model Number	Capacity (lbs.)	Dimensions (inches)								Weight (lbs.)
		Max. A	B	C	D	E	F	G	H	
DLT-1-20	2000	20	29 3/4	29	4	5/8	1	8	7	29
DLT-1 1/4-28	2500	28	40 1/4	39	5	3/4	1 1/4	8	9 1/2	52
DLT-1 1/2-38	3000	38	51 3/4	47 1/2	6	7/8	1 1/2	10	10 3/4	86

Tongs - Application Evaluation

LOAD INFORMATION - FRICTION TONGS

Minimum: O.D. _____ I.D. _____ Height _____ Weight _____

Maximum: O.D. _____ I.D. _____ Height _____ Weight _____

Describe product/material being lifted: _____

Please describe how product is resting (Ex. On a flat surface, in a rack, etc.): _____

LOAD INFORMATION - INDENTATION/SUPPORTING TONGS

Minimum: Width _____ Length _____ Height _____ Weight _____

Maximum: Width _____ Length _____ Height _____ Weight _____

Describe product/material being lifted: _____

Will the tongs lift making contact to the width or length side? _____

ADDITIONAL INFORMATION - ALL TYPES

Does the load need to be protected from lifter damage? Yes No

Is an Auto-Latch desired? _____

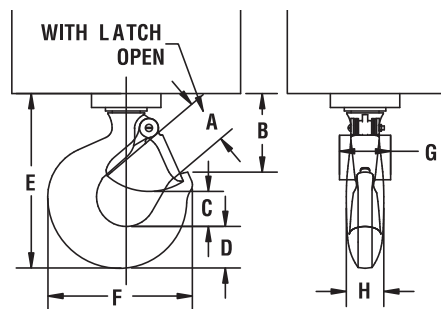
Please provide duty cycle of lifter (lifts per hour and hours per day used): _____

Please provide Crane Classification (A, B, C, D, E, F): _____

Please use the space below to provide additional application information or options required.

For example: headroom issues and space or lifter restrictions. _____

CRANE HOOK DATA:



INCHES	
A	+0
B	+0
C	+0
D	-0
E	-0
F	+/-
G	-0
H	-0

Measurement Tolerances

- +0 = Measurement should be no larger but can be smaller than actual.
- 0 = Measurement should be no smaller but can be larger than actual.
- +/- = Measurement can be larger or smaller than actual.

Contact: _____

Company: _____

Address: _____

City, State, Zip: _____

Phone: _____

Fax: _____

Email: _____

For a price quote on your specific application, please complete the above form and fax to The Caldwell Group at **815-229-5686** or you can complete this form online at www.caldwellinc.com/applications.

Care & Use

Strong-Bac® Below-The-Hook Lifters have been designed for specific tasks to withstand the particular forces imposed. Guidelines for installation, inspection, maintenance and repair, safe operation and operator training of these lifters follow:

INSTALLATION

Below Hook Lifters shall be assembled and installed in accordance with the manufacturer's instructions, unless other specific arrangements have been approved in writing by manufacturer. When lifter/auxiliary power supply is required, user inspection shall ensure that the power source complies with ANSI/NFPA 70, National Electrical Code and shall include a power disconnect switch as required in accordance with ANSI/NFPA 70 based on the lifters requirements. If electrical connections are made, the power supply and corresponding power disconnects shall be connected to the line side (power supply side) of the crane disconnect or to an independent circuit as specified in the manufacturer's instruction manual.

Check for correct rotation of all pumps and power units, lubrication of moving parts, and filling of reservoirs, all in accordance with manufacturer's instructions.

OPERATOR TRAINING

Lifters shall be operated in accordance with manufacturer's instruction manual, and by personnel who have received instructions described in the "Operating Practices" section of these guidelines. Training shall also include instruction regarding:

1. Details of the lifting cycle.
2. Application of the lifter to the load including (according to the manufacturer's instructions) adjustments to the lifter, if any, to adapt it to various sizes and kinds of loads.
3. Instruction in any special operations or precautions that may be required.
4. Recognition of proper load configuration. For example, preferred operation requires an orderly pattern of stacking.
5. Before assuming responsibility for using the lifter, an operator shall demonstrate his understanding of the lifting procedure to the instructor. The instructor should record notes of operator's demonstrated ability.

INSPECTION

The lifter shall be visually inspected by or under the direction of an appointed person on a daily or weekly schedule depending on the nature of the lifter and the severity of the service.

Details to look for include but are not limited to:

1. Structural deformation.
2. Cracks in the structural frame, welds, hoist hook attachment points, mechanically operating parts, any attached slings, clevises and hooks.
3. Malfunctions during operation of a mechanically operating lifter.
4. Loose covers, fasteners and stops.
5. Faulty operation of automatic hold and release mechanisms.
6. Wear of hoist hooking points, load supporting clevises, pins, slings, linkages and mechanical parts.
7. Missing nameplates and markings. Contact Caldwell for replacements.

MAINTENANCE AND REPAIRS

1. A preventive maintenance program should be established for each lifter by a qualified person based on recommendations made by its manufacturer.
2. A qualified person should have responsibility for repairs. Dated records and details of repairs and parts replacement should be carefully maintained by a qualified person, and copies kept in your possession.
3. Replacement parts shall be at least equivalent to the original manufacturer's specifications.

OPERATING PRACTICES

DO'S

1. The operator shall receive, read and understand the manufacturer's instruction manual.
2. The operator shall watch carefully that the lifter is performing properly during the lifting procedure.
3. The operator shall know the standard crane hand signals.
4. The operator shall only respond to signals from an appointed person. However, stop signals from anyone shall be obeyed.
5. The operator shall notify a designated person when he considers a load to be unsafe.
6. The operator shall inspect the lifter before using. Any defect observed shall be examined by a qualified person to determine if it is a hazard.

DON'TS

1. The operator shall not operate a malfunctioning lifter or one with an "out of service" tag attached.
2. The operator shall not use the lifter for any purpose(s) other than those designated by the manufacturer's instruction manual.
3. The operator shall not use a lifter when the capacity, weight or product safety labels are missing or are no longer legible.
4. No one shall make alterations or modifications to lifters without consulting the manufacturer.
5. No one shall obscure or paint over the manufacturer's capacity, weight, or safety markings.
6. Loads shall not be lifted higher than necessary or be left suspended unattended.
7. The lifter shall not lift a load that is not properly balanced for safe lifting.

HANDLING THE LOAD

1. The lifter shall not be loaded in excess of its rated load.
2. Ensure the load can withstand forces applied by the lifter.
3. The combined weight of the lifter and load shall not exceed the rated load of the crane or hoist.
4. The lifter shall be applied to the load in accordance with the manufacturer's recommended operating procedure.
5. Lifter ropes and chains shall not be kinked, and multiple part lines shall not be twisted about each other.
6. The lifter shall not touch obstructions during load movement.
7. The lifter shall not be loaded with loose material that might fall during movement.
8. The operator or other personnel shall not place themselves or any part of their bodies beneath suspended loads.
9. The load or lifter shall not be slid on the floor or other surface.
10. The lifter shall not be used for loads for which it is not designed.
11. If suspended loads are moved manually, they shall be pushed, not pulled.
12. A preliminary lift of a few inches shall be made to establish that the load is stable.
13. All loads shall be accelerated and decelerated smoothly and slowly.

Modifications or repairs performed on your lifting equipment without prior written approval from The Caldwell Group, Inc. voids your warranty. Refer to ASME standards for information regarding the liability of repaired or modified lifters.



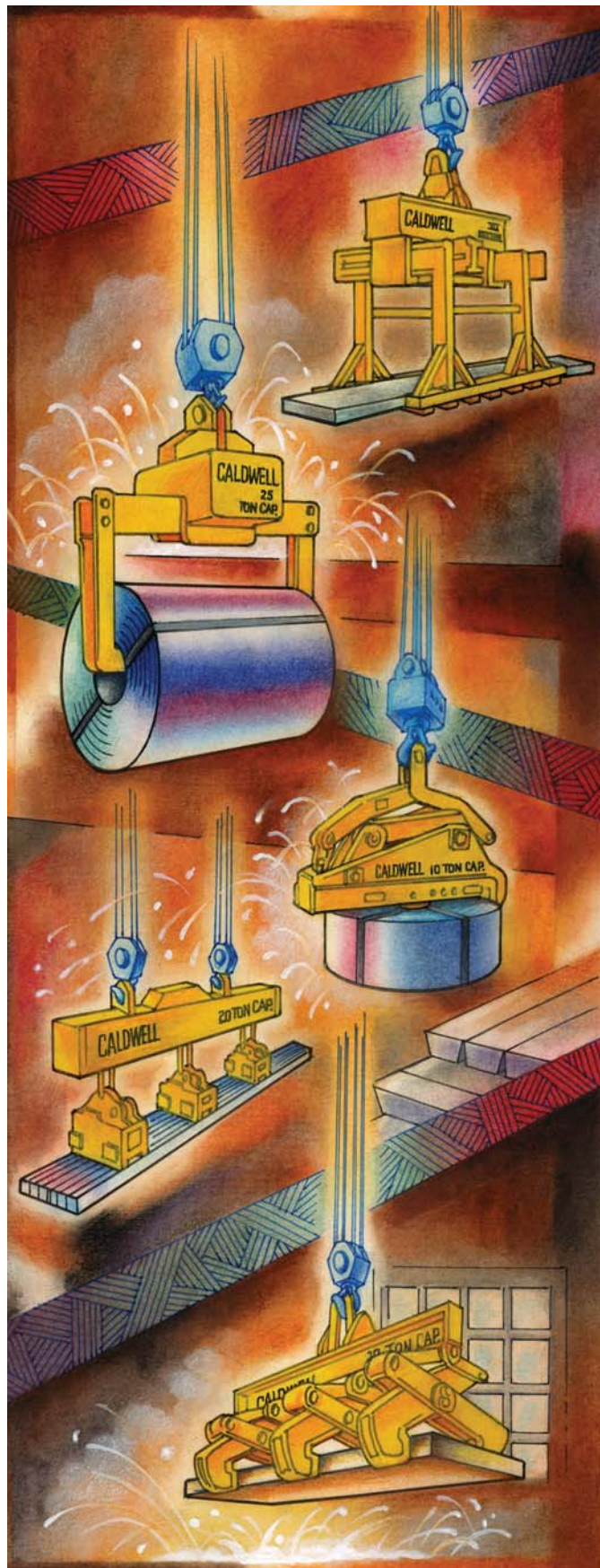
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**Strong-Bac® Section
2014-2016 Master Catalog**

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MILL DUTY LIFTERS

For BTH-1 Service Classes 3 or 4 - Heavy or Severe Service



Coil Grabs

Pages B.4 - B.9



Ingot/Slab Handling

Pages B.10 - B.13



Lifting Beams

Pages B.14 - B.15



Motorized Rotating Crane Hooks

Pages B.16 - B.17



Sheet/Plate Handling

Pages B.18 - B.22



Index to Mill Duty Lifters

Coil Handling



B.4 - B.9

Ingot/Slab Handling



B.10 - B.13

Lifting Beams



B.14 - B.15

Motorized Rotating Crane Hooks



B.16 - B.17

Sheet/Plate Handling



B.18 - B.22

Quality & EngineeringB.3

Coil Handling - Multiple design options for manipulating coils with the eye in either the horizontal or vertical position.

Telescoping	B.4
Parallelogram	B.5
Single Rim	B.6
Double Rim	B.7
C-Hook	B.8
Application Evaluation	B.9

Ingot/Slab Handling - Lifters are designed to handle raw or finished slabs of steel during the manufacturing process.

Motorized Swivel Grab	B.10
Ingot/Slab Handling Grab	B.11
Ingot/Slab Tong	B.12
Application Evaluation	B.13

Lifting Beams - Large custom designed beams for metal, shipyard or any application that requires a lifting beam.

Custom Lifting Beams	B.14
Application Evaluation	B.15

Motorized Rotating Crane Hooks - Allow independent and precise positioning of a load with full 360° rotation. Available with integral weighing system and read-out option.

Motorized Rotating Crane Hooks	B.16
Application Evaluation	B.17

Sheet/Plate Handling - Grabs or beams ideal for handling bundles of sheet or plates of steel.

Telescopic Sheet Lifter	B.18
Parallelogram Sheet Lifter	B.19
Vacuum Lifting Beam	B.20
Magnet Lifting Beam	B.21
Application Evaluation	B.22

Care & UseB.23

The Caldwell Group Inc. has been manufacturing lifting equipment since 1954. It is our goal to manufacture high quality, long lasting lifting products that will safely increase productivity and reduce operating costs. To accomplish this goal, The Caldwell Group designs and manufactures all crane suspended products to meet or exceed ASME standards.

The lifters shown in this catalog are custom designed and manufactured to be utilized in heavy duty and severe duty environments. We utilized design features in these lifters that incorporate mechanical components to insure long life with minimum maintenance. Techniques such as interlocked, parent metal structural connections to reduce weld stress due to high stress factors and duty cycles; insuring years of safe, reliable operation with minimal maintenance. The product images and applications shown are a small representation of Caldwell Mill Duty lifting products designs. Please contact our specialists to discuss a custom designed lifting solution for your specific application.

Caldwell Mill Duty Design and Manufacturing Standards

- These lifters are custom designed for heavy and severe duty service per ASME B30.20, BTH-1 Design Category “B”, Service Class “3” or “4”.
 - Design Category “B” – when loads and conditions are not accurately defined (ASME BTH-1).
 - Service Class “3” – 500,001 to 2,000,000 load cycles.
 - Service Class “4” – over 2,000,000 load cycles.
- Interlocked, parent metal structural connections.
- Designs include replaceable wear plates/hardened steel bushings in high friction areas.
- Suspensions are designed for long term life.
- Slip clutches located on gear box output shaft for drive train protection.
- Lifters are registered with metal identification tags attached.
- Rated capacities and safety warnings clearly visible.

Service Class Illustration

Cycles/Day	Desired Life (years)			
	5	10	20	30
50				3
100			3	3
200		3	3	4
300	3	3	4	4
750	3	4	4	4
1000	3	4	4	4

Refer to ASME BTH-1 for detailed design considerations of lifting devices.

ASME B30.20 & BTH-1 Standards

The American Society of Mechanical Engineers (ASME) developed and released ASME BTH-1 to designate design criteria for below-the-hook lifting devices (ASME B30.20) and to serve as a guide to designers, manufacturers, purchasers, and users of these types of lifters.

- ASME B30.20 addresses safety requirements.
- ASME BTH-1 does not replace ASME B30.20.
- ASME BTH-1 addresses design requirements.
- Design criteria set forth are minimum requirements that may be increased at the discretion of the lifting device manufacturer or a qualified person.

For additional information on ASME B30.20 and BTH-1 standards, please visit our web site at www.caldwellinc.com/standards.

Coil Handling

Model 285 - Telescoping Coil Grab

This rack and pinion style grab allows for handling of a wide range of coil sizes with minimum manpower. Optional motorized rotation allows the crane operator to spot the coil with precise positioning. Coil grabs are custom designed per application.



PRODUCT FEATURES:

- Low headroom design.
- Lockout switch in carrying foot to prevent inadvertent opening.
- Replaceable wear plates.
- Hinged covers.
- Heavy duty worm gear reducer.
- Drive protection includes slip clutch.
- Machined slide arms.
- Curved supports on lifting feet for coil protection.
- Designed for easy maintenance.
- AC power.

PRODUCT OPTIONS:

- Powered rotation with or without stops.
- Photo eye to sense coil I.D.
- Coil protection.
 - Trip plates with sensors.
 - Toe rollers on carrying feet.
 - Coil I.D. sensor.
 - Polyurethane coverings.
- Heavy duty function indicator lights.
- Integral weighing system.
- Maximum open/minimum close limit switches.
- DC power.
- Parking or maintenance stand.
- Electrical reversing motor controls.

NOTE: To request a price quotation on your specific application, please fill in the Coil Handling Application Evaluation on page B.9 or online at www.caldwellinc.com/applications.

Coil Handling

Model 286 - Parallelogram Coil Lifter

The motorized Parallelogram Leg Drive Coil Lifter is ideal where aisle space between coils is limited. This lifter is designed so that the weight of the coil keeps the lifter closed. Optional motorized rotation allows the crane operator to spot the coil with precise positioning. Coil grabs are custom designed per application.



PRODUCT FEATURES:

- Narrow aisle design.
- All pivot points supplied with hardened steel bushings/pins equipped for lubrication.
- Heavy duty worm gear reducer.
- Drive protection includes slip clutch.
- Electrical controls include stall relay.
- Curved lifting pads for coil protection.
- Designed for easy maintenance.
- AC power.

PRODUCT OPTIONS:

- Powered rotation with or without stops.
- Coil protection.
 - Trip plates with sensors.
 - Grip shoe toe rollers.
 - Coil I.D. sensor.
 - Polyurethane coverings.
- Heavy duty function indicator lights.
- Built in load scales.
- Maximum open/minimum close limit switches.
- DC power.
- Parking or maintenance stand.



NOTE: To request a price quotation on your specific application, please fill in the Coil Handling Application Evaluation on page B.9 or online at www.caldwellinc.com/applications.

Coil Handling

Model 280 - Single Rim Coil Tong/Grab

Automatic Single Rim Coil Grabs are designed for use in the primary metals industry. The grab has two opposing jaws to grip one wall of the coil (single rim) when in the eye vertical position. Grabs are custom designed per application.



PRODUCT FEATURES:

- Auto-Latch mechanism for attach and release operation of grab. (Hoist line must be slack to engage and disengage Auto-Latch mechanism).
- All pivot points furnished with hardened steel bushings/pins and lubrication fittings.
- Handles a wide range of coil sizes and capacities.
- Grip jaws conform to coil sizes.

PRODUCT OPTIONS:

- Motorized grab.
- Replaceable facing on grip jaws for coil protection.
- Parking or maintenance stands.

NOTE: To request a price quotation on your specific application, please fill in the Coil Handling Application Evaluation on page B.9 or online at www.caldwellinc.com/applications.

Coil Handling

Model 281 - Double Rim Coil Tong/Grab

Automatic Double Rim Coil Grabs are designed to handle light gauge or highly finished coils when in the eye vertical position. The grab grips both walls of the coil when in the eye vertical position to minimize gripping pressure. Coil grabs are custom designed per application.



PRODUCT FEATURES:

- Auto-Latch mechanism for attach and release operation of tong. (Hoist line must be slack to engage and disengage Auto-Latch mechanism).
- All pivot points furnished with hardened steel bushings/pins and lubrication fittings.
- Handles a wide range of coil sizes and capacities.
- Grip jaws conform to coil sizes.

PRODUCT OPTIONS:

- Motorized grab.
- Replaceable facing on pads for coil protection.

NOTE: To request a price quotation on your specific application, please fill in the Coil Handling Application Evaluation on page B.9 or online at www.caldwellinc.com/applications.

Coil Handling

Model 282 - C-Hook

C-Hooks are designed to handle coils in the eye horizontal position and are available in a wide range of capacities and coil sizes and design styles. C-Hooks are custom designed per application.



PRODUCT FEATURES:

- High tensile strength alloy steel plate minimizes physical size.
- Counter balanced to hang level when empty.
- Inside radius on hooks avoid coil edge contact.
- Curved coil support on lower arm is standard.
- Guide handles for ease of coil positioning.
- Handles a wide range of coil widths.

PRODUCT OPTIONS:

- Replaceable urethane facing available for additional coil protection.
- Recessed counterweight for close stacking.
- Long carrying arm style for multiple slit coils.
- High temperature environment capability.
- Storage stand.

NOTE: To request a price quotation on your specific application, please fill in the Coil Handling Application Evaluation on page B.9 or online at www.caldwellinc.com/applications.

Coil Handling - Application Evaluation

Specify type of lifter desired: _____

COIL INFORMATION:

Minimum: O.D. _____ I.D. _____ Width/Height _____ Weight _____

Maximum: O.D. _____ I.D. _____ Width/Height _____ Weight _____

Is coil telescoped? No Yes, distance _____ O.D. or I.D.

In which position will coil be handled? Eye Vertical Eye Horizontal

Describe coil material: Steel Aluminum Brass/Copper

Other, describe: _____

Is coil hot? No Yes If yes, please answer questions below (1, 2, 3):

1. Maximum load temperature: _____ 2. Maximum time Lifter is in contact with load: _____

3. Minimum cool down time between lifts: _____

Describe characteristics of coil (ex. tightly wound, banded, telescoped, oily, hot, etc.). _____

Describe where coil is resting and where it will be placed (ex. on a flat surface, pallet, turnstile arm, etc.). _____

Do the coils need to be protected from damage? Yes, describe: _____ No

ADDITIONAL INFORMATION:

Are reversing motor controls required?

No Yes

If yes, Furnished Loose Mounted On Lifter

Storage / maintenance stand required?

CMAA Crane Duty Class (A, B, C, D, E, F): _____

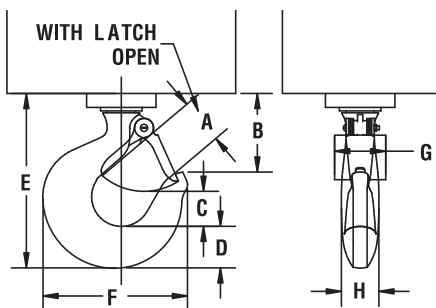
Select lifter service class required based on desired fatigue life: Please reference the chart on page 3 for estimated years of service.

Service Class	Load Cycles
<input type="checkbox"/> 3	500,001 – 2,000,000
<input type="checkbox"/> 4	over 2,000,000

Please use the space provided below for additional application information or lifter options required

(ex: headroom limitations, clearances where load is picked up and placed, etc.). _____

CRANE HOOK DATA:



INCHES

- A _____ +0
- B _____ +0
- C _____ +0
- D _____ -0
- E _____ -0
- F _____ +/-
- G _____ -0
- H _____ -0

Measurement Tolerances

- +0 = Measurement should be no larger but can be smaller than actual.
- 0 = Measurement should be no smaller but can be larger than actual.
- +/- = Measurement can be larger or smaller than actual.

Contact: _____

Company: _____

Address: _____

City, State, Zip: _____

Phone: _____

Fax: _____

Email: _____

For a price quote on your specific application, please complete the above form and fax to The Caldwell Group at **815-229-5686** or you can complete this form online at www.caldwellinc.com/applications.

Ingot/Slab Handling

Model 272 - Motorized Ingot/Slab Swivel Grab

This screw type grab allows for handling of a wide range of ingots. Additional grip force is applied by the wedge action of the points when the load is lifted. This unit is designed to grip an ingot in the vertical position and lay it down to the horizontal position. Grabs are custom designed per application.



PRODUCT FEATURES:

- Screw drive for a wide range of ingot widths.
- Bronze drive nuts for long life and smooth operation.
- Wedge action applies grip force.
- Low headroom design.
- Close tolerance machined slide beam and grip arms.
- Heavy duty worm gear reducer.
- Designed for ease of maintenance.
- Heavy duty drive guards.
- AC power.

PRODUCT OPTIONS:

- Powered rotation with or without stops.
- Integral weighing system.
- Maximum open/minimum closed limit switches.
- Swivel rest arms for proper rollover clearance.
- Heavy duty function indicator lights.
- Wedge locks.
- DC power.
- Electrical reversing motor controls.

NOTE: To request a price quotation on your specific application, please fill in the Ingot/Slab Handling Application Evaluation on page B.13 or online at www.caldwellinc.com/applications.

Ingot/Slab Handling

Model 274 - Ingot/Slab Handling Grab

This rack and pinion grab is designed to handle a wide range of ingots when in the horizontal position. Gripping force is applied through the legs by the tong action when an ingot is lifted. This unit is suitable for low headroom operations. Grabs are custom designed per application.



PRODUCT FEATURES:

- Low headroom design.
- Replaceable wear plates.
- Dual rack and pinion drive.
- Grip force developed through tong geometry.
- Includes slip clutch for drive protection.
- Close tolerance machining for sliding arms.
- Designed for ease of maintenance.
- AC power.

PRODUCT OPTIONS:

- Powered rotation with or without stops.
- Maximum open/minimum closed limit switches.
- Integral weighing system.
- Heavy duty function indicator lights.
- DC power.
- Electrical reversing motor controls.

NOTE: To request a price quotation on your specific application, please fill in the Ingot/Slab Handling Application Evaluation on page B.13 or online at www.caldwellinc.com/applications.

Ingot/Slab Handling



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Mill Duty Section
2014-2016 Master Catalog

Model 270 - Ingot/Slab Tong

This automatic Ingot/Slab Tong is for use in the primary metals industry. Tongs are designed to your specific requirements to suit the width, length, thickness and maximum weight to be lifted.



PRODUCT FEATURES:

- Full range automatic adjustment.
- Auto-Latch mechanism for holding tong open, relax on top of the load grip.
- All pivot points furnished with hardened steel bushing/pins and lubrication fittings.
- Handles a wide range of product lengths, widths, thicknesses and weights.
- High temperature product capability.

PRODUCT OPTIONS:

- Landing pads for straight horizontal motion of grip points to handle thinner loads.
- Replaceable urethane facing on rest portion of lower legs to protect load.

NOTE: To request a price quotation on your specific application, please fill in the Ingot/Slab Handling Application Evaluation on page B.13 or online at www.caldwellinc.com/applications.

Ingots/Slab Handling - Application Evaluation

Specify type of lifter desired: _____

INGOT/SLAB INFORMATION:

Minimum: Width _____ Thickness _____ Length _____ Weight _____

Maximum: Width _____ Thickness _____ Length _____ Weight _____

In which position will ingot/slab be handled? Vertical Horizontal

Describe ingot/slab being lifted: Steel Aluminum Brass/Copper
 Other, describe: _____

Does ingot/slab need to be protected against damage? Yes, describe: _____ No

In which position will the ingot/slab be handled? Vertical Horizontal

Is ingot / slab hot? No Yes, if yes please answer questions below:

Maximum load temperature: _____

Maximum time lifter is in contact with load: _____

Minimum cool down time between lifts: _____

ADDITIONAL INFORMATION:

Select lifter service class required based on desired fatigue life:

Please reference the chart on page 3.

CMAA Crane Duty Class (A, B, C, D, E, F): _____

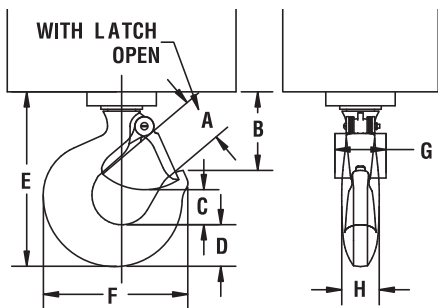
Service Class

Load Cycles

- | | |
|----------------------------|---------------------|
| <input type="checkbox"/> 3 | 500,001 – 2,000,000 |
| <input type="checkbox"/> 4 | over 2,000,000 |

Please use the space provided below for additional application information or lifter options required (ex: headroom limitations, clearances where load is picked up and placed, etc.). _____

CRANE HOOK DATA:



- INCHES
- A _____ +0
 - B _____ +0
 - C _____ +0
 - D _____ -0
 - E _____ -0
 - F _____ +/-
 - G _____ -0
 - H _____ -0

Contact: _____

Company: _____

Address: _____

City, State, Zip: _____

Phone: _____

Fax: _____

Email: _____

Measurement Tolerances

- +0 = Measurement should be no larger but can be smaller than actual.
- 0 = Measurement should be no smaller but can be larger than actual.
- +/- = Measurement can be larger or smaller than actual.

For a price quote on your specific application, please complete the above form and fax to The Caldwell Group at **815-229-5686** or you can complete this form online at www.caldwellinc.com/applications.

Lifting Beams

Model 220 - Custom Lifting Beams

Lifting beams are available in a wide range of capacities and are custom designed to accommodate your application requirements. Lifting beams are designed per application.



PRODUCT FEATURES:

- Low headroom design.
- Wide range of sizes and capacities.

PRODUCT OPTIONS:

- Multiple spreads for hook placement.
- Multiple hoist lifting capability.
- High temperature environment capability.

NOTE: To request a price quotation on your specific application, please fill in the Lifting Beam Application Evaluation on page B.15 or online at www.caldwellinc.com/applications.

Lifting Beam - Application Evaluation

LOAD INFORMATION:

Describe load: _____

Maximum weight: _____ Number of support points: _____

Distance between (spacing) support points: _____

Is load center of gravity centered between outer pick points? Yes No

If no, specify location in reference to pick points (attach a diagram if necessary). _____

Is load hot? No Yes, if yes please answer questions below (1, 2, 3):

1. Maximum load temperature: _____

2. Maximum time beam is in contact with load: _____

3. Minimum cool down time between lifts: _____

What type of attachment to the load?

Shackles Swivel Hooks Lifting Slings Other (specify) _____

Describe specific requirements: _____

CRANE INFORMATION:

Approximate distance between load and crane: _____

Single crane hoist information

Capacity: _____

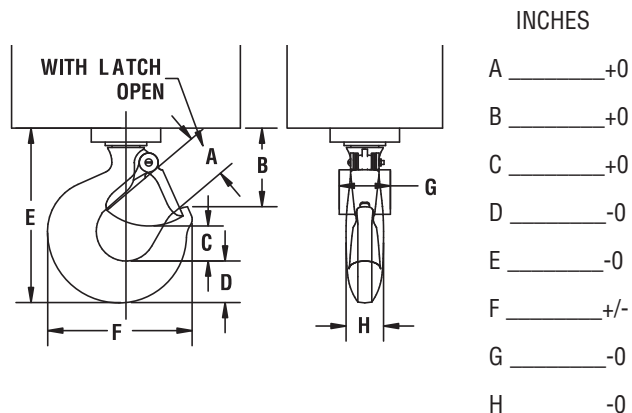
Dual crane hoist information

Distance between: _____

Same capacity? Yes No

If no, specify capacities: _____

CRANE HOOK DATA:



Measurement Tolerances

- +0 = Measurement should be no larger but can be smaller than actual.
- 0 = Measurement should be no smaller but can be larger than actual.
- +/- = Measurement can be larger or smaller than actual.

Contact: _____

Company: _____

Address: _____

City, State, Zip: _____

Phone: _____

Fax: _____

Email: _____

For a price quote on your specific application, please complete the above form and fax to The Caldwell Group at **815-229-5686** or you can complete this form online at www.caldwellinc.com/applications.

Motorized Rotating Crane Hooks

Model 250 - Motorized Rotating Crane Hook

Motorized Rotating Crane Hooks make rotating loads on the crane hook easy for the operator. Each unit is custom designed per your requirements.



PRODUCT FEATURES:

- Sheave pin includes lubrication fittings.
- External lubrication on heavy duty thrust bearing.
- Heavy duty worm gear reducer.
- Chain and sprocket final drive.
- Drive protection includes slip clutch.
- Designed for ease of maintenance.
- 360 degree continuous rotation.
- AC power.

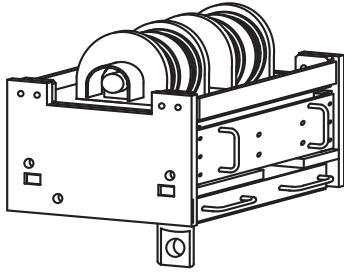
PRODUCT OPTIONS:

- Pin bail type attachment.
- Clevis or lug instead of crane hook.
- Hook/drive disengagement.
- Bull gear and pinion final drive.
- Continuous rotation with electrical collector ring to operate motorized below-the-hook lifters.
- DC power.
- Mechanical stops.
- Electrical reversing motor controls.
- Integral weighing system.

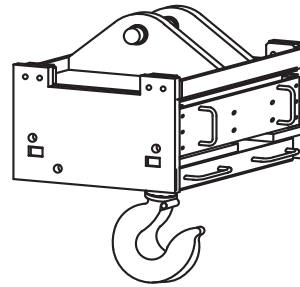
NOTE: To request a price quotation on your specific application, please fill in the Motorized Rotating Crane Hook Application Evaluation on page B.17 or online at www.caldwellinc.com/applications.

Motorized Rotating Crane Hooks

Clevis Style



Pin Bail



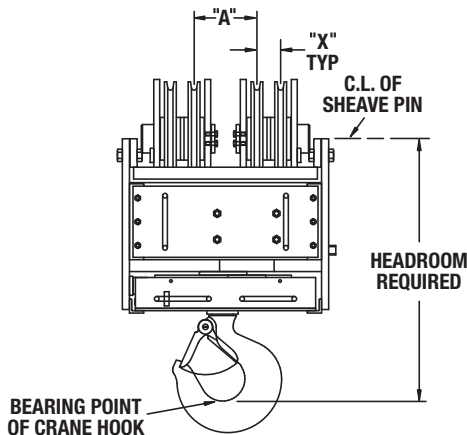
Motorized Rotating Crane Hook Application Evaluation

1. CMAA Crane Duty Class (A, B, C, D, E, F): _____
2. Capacity of crane: _____
3. Number of sheaves: _____
4. Sheave diameter: _____
5. Sheave spacing (A): _____ (X): _____
6. Type of sheave bearings: _____
7. Wire rope diameter: _____
8. Maximum degree of rotation required: _____
9. Will a motorized grab be suspended from the hook?
 Yes No
10. Operating voltage: _____
11. Headroom Dimension: _____

12. Describe load to be rotated:
 - a. Weight _____
 - b. Length _____
 - c. Width _____
 - d. Height _____
 - e. Shape _____
13. Will hook be exposed to a high temperature environment? Yes No
14. Will hook be outdoors? Yes No
15. Operation controlled from:
 Cab Pendant Remote
16. Load scale required? Yes No

Describe requirements: _____

17. Options required: _____



For a price quote on your specific application, please complete the above form and fax to The Caldwell Group at **815-229-5686** or you can complete this form online at www.caldwellinc.com/applications.

Contact: _____
 Company: _____
 Address: _____
 City, State, Zip: _____
 Phone: _____
 Fax: _____
 Email: _____

Sheet/Plate Handling

Model 260 - Telescopic Sheet Lifter

This rack and pinion style lifter allows for handling of a wide range of sheets and plates with minimum manpower. Lifters are custom designed per application.



Shown with dunnage cutouts on carrying angle.



PRODUCT FEATURES:

- Low headroom design.
- Replaceable wear plates.
- Heavy duty worm gear reducers.
- Drive protection includes slip clutch.
- Machined slide arms.
- Designed for ease of maintenance.
- AC power.

PRODUCT OPTIONS:

- Powered rotation with or without stops.
- Heavy duty function indicator lights.
- Integral weighing system.
- Maximum open/minimum closed limit switches.
- Carrying angles with dunnage cutouts (pictured above).
- Detachable, auxiliary carrying angles for handling longer loads.
- Chain or cable reel mounted end hooks for thin gauge or extra wide material.
- DC power.
- Electrical reversing motor controls.

NOTE: To request a price quotation on your specific application, please fill in the Sheet/Plate Handling Application Evaluation on page B.22 or online at www.caldwellinc.com/applications.

Sheet/Plate Handling

Model 266 - Parallelogram Sheet Lifter

The motorized Parallelogram Leg Drive Sheet Lifter is ideal where space between sheet stacks in storage is limited. This style lifter is designed so that the weight of the stacks of sheets or plates keeps the lifter closed. Optional motorized rotation allows the crane operator to spot the stack with precise positioning. Lifters are custom designed per application.



PRODUCT FEATURES:

- Narrow aisle space design.
- All pivot points equipped with hardened steel bushings and pins equipped for lubrication.
- Heavy duty worm gear reducer.
- Drive protect includes slip clutch.
- Electrical controls include stall relay.
- Designed for ease of maintenance.
- AC power.

PRODUCT OPTIONS:

- Powered rotation with or without stops.
- Heavy duty function indicator lights.
- Integral weighing system.
- Maximum open/minimum closed limit switches.
- Carrying angles with dunnage cutouts.
- Chain or cable reel mounted end hooks for extra wide or thin gauge material.
- DC power.

NOTE: To request a price quotation on your specific application, please fill in the Sheet/Plate Handling Application Evaluation on page B.22 or online at www.caldwellinc.com/applications.

Sheet/Plate Handling

Model 222 - Vacuum Lifting Beam

These Vacuum Lifting Beams are designed to handle large sheets or plates of metal in the primary metal industry as well as various other industries. Designed to your material weight and size requirements. Units can be operated with a pendant, crane mounted controls, or radio controls. Lifting beams are custom designed per application.



PRODUCT FEATURES:

- Trolley mounted crossarms for ease of adjustment.
- Vacuum pads and crossarms adjustable to handle a wide range of material sizes.
- Handles ferrous and non-ferrous material.
- Assures single sheet/plate handling.
- Minimizes product damage.
- Handles material up to 600 degrees Fahrenheit.
- Safety indicator lights.
- Vacuum reserve system to hold load during temporary power failure.
- Design assures quick attachment and release.
- AC power.

PRODUCT OPTIONS:

- Powered rotation for horizontal location.
- Durable LED lights and gauges.
- Built in support stands.
- Low vacuum indicator warning system.
- DC power.

NOTE: To request a price quotation on your specific application, please fill in the Sheet/Plate Handling Application Evaluation on page B.22 or online at www.caldwellinc.com/applications.

Sheet/Plate Handling

Model 224 - Magnet Lifting Beam

This telescoping, rack and pinion style beam allows for handling of a wide variation of product lengths. The magnetic lifting beam is available in fixed or adjustable styles and is custom designed per application.



PRODUCT FEATURES:

- Heavy duty rack and pinion telescoping drive.
- Telescopes to handle varying lengths.
- Heavy duty gear reducer.
- Drive protection includes slip clutch.
- Designed for easy maintenance.
- Designed to accommodate your lifting magnets.
- AC power.

PRODUCT OPTIONS:

- Individual 90 degree rotation of magnets for wide loads.
- Parking stand.
- Non-telescopic units are also available.
- Supplied with lifting magnets.
- DC power.
- Electrical reversing motor controls.

NOTE: To request a price quotation on your specific application, please fill in the Sheet/Plate Handling Application Evaluation on page B.22 or online at www.caldwellinc.com/applications.

Sheet/Plate Handling - Application Evaluation

Specify type of lifter desired: _____

LOAD INFORMATION:

Sheet and/or Plate Dimensions:

Minimum: Length _____ Width _____ Stack Height _____ Weight _____

Maximum: Length _____ Width _____ Stack Height _____ Weight _____

Will single sheet or plates be handled? Yes No If yes, minimum thickness: _____

Specify material being lifted: _____

Are loads palletized? Yes No Sometimes Specify pallet size _____

Sheet Condition: Dry Oily Banded Loose

Is load hot? No Yes, if yes please answer questions below:

Maximum load temperature: _____ Maximum time lifter is in contact with load: _____

Minimum cool down time between lifts: _____

ADDITIONAL INFORMATION:

Operation required: Motorized Manual

If motorized, specify: DC AC Voltage _____ Phase _____ Cycle _____

Pendant required? Yes No

Are reversing motor controls required? No Yes If yes, Furnished Loose Mounted On Lifter

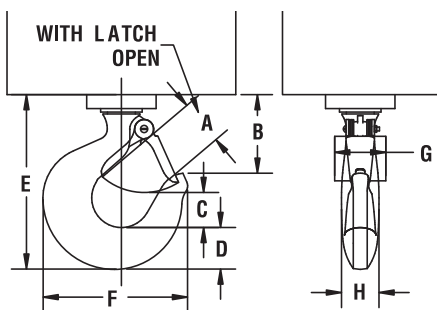
Select lifter service class required based on desired fatigue life: Service Class Load Cycles

Please reference the chart on page 3.	<input type="checkbox"/> 3	500,001 – 2,000,000
	<input type="checkbox"/> 4	over 2,000,000

CMAA Crane Duty Class (A, B, C, D, E, F): _____

Please use the space below to provide additional application information or options required (ex: headroom issues, space restrictions, lifter restrictions or options such as a chain wheel or end hooks). _____

CRANE HOOK DATA:



INCHES

- A _____ +0
- B _____ +0
- C _____ +0
- D _____ -0
- E _____ -0
- F _____ +/-
- G _____ -0
- H _____ -0

Measurement Tolerances

- +0 = Measurement should be no larger but can be smaller than actual.
- 0 = Measurement should be no smaller but can be larger than actual.
- +/- = Measurement can be larger or smaller than actual.

Contact: _____

Company: _____

Address: _____

City, State, Zip: _____

Phone: _____

Fax: _____

Email: _____

For a price quote on your specific application, please complete the above form and fax to The Caldwell Group at **815-229-5686** or you can complete this form online at www.caldwellinc.com/applications.

Care & Use

Caldwell's Mill Duty Lifters have been designed for specific tasks to withstand the particular forces imposed. Guidelines for installation, inspection, maintenance and repair, safe operation and operator training of these lifters follow (product specific information will be sent with each product):

INSTALLATION

Below Hook Lifters shall be assembled and installed in accordance with the manufacturer's instructions, unless other specific arrangements have been approved in writing by manufacturer. When lifter/auxiliary power supply is required, user inspection shall ensure that the power source complies with ANSI/NFPA 70, National Electrical Code and shall include a power disconnect switch as required in accordance with ANSI/NFPA 70 based on the lifters requirements. If electrical connections are made, the power supply and corresponding power disconnects shall be connected to the line side (power supply side) of the crane disconnect or to an independent circuit as specified in the manufacturer's operating instructions.

Check for correct rotation of all pumps and power units, lubrication of moving parts, and filling of reservoirs, all in accordance with manufacturer's instructions.

OPERATOR TRAINING

Lifters shall be operated in accordance with manufacturer's operating instructions, and by personnel who have received instructions described in the "Operating Practices" section of these guidelines. Training shall also include instruction regarding:

1. Details of the lifting cycle.
2. Application of the lifter to the load including (according to the manufacturer's instructions) adjustments to the lifter, if any, to adapt it to various sizes and kinds of loads.
3. Instruction in any special operations or precautions that may be required.
4. Recognition of proper load configuration. For example, preferred operation requires an orderly pattern of stacking.
5. Before assuming responsibility for using the lifter, an operator shall demonstrate his understanding of the lifting procedure to the instructor. The instructor should record notes of operator's demonstrated ability.

INSPECTION

The lifter shall be visually inspected by or under the direction of an appointed person on a daily or weekly schedule depending on the nature of the lifter and the severity of the service.

Details to look for include but are not limited to:

1. Structural deformation.
2. Cracks in the structural frame, welds, hoist hook attachment points, mechanically operating parts, any attached slings, clevises and hooks.
3. Malfunctions during operation of a mechanically operating lifter.
4. Loose covers, fasteners and stops.
5. Faulty operation of automatic hold and release mechanisms.
6. Wear of hoist hooking points, load supporting clevises, pins, slings, linkages and mechanical parts.
7. Missing nameplates and markings. Contact Caldwell for replacements.

MAINTENANCE AND REPAIRS

1. A preventive maintenance program should be established for each lifter by a qualified person based on recommendations made by its manufacturer.
2. A qualified person should have responsibility for repairs. Dated records and details of repairs and parts replacement should be carefully maintained by a qualified person, and copies kept in your possession.
3. Replacement parts shall be at least equivalent to the original manufacturer's specifications.

OPERATING PRACTICES

DO'S

1. The operator shall receive, read and understand the manufacturer's instruction manual.
2. The operator shall watch carefully that the lifter is performing properly during the lifting procedure.
3. The operator shall know the standard crane directing hand signals.
4. The operator shall only respond to signals from an appointed person. However, stop signals from anyone shall be obeyed.
5. The operator shall notify a designated person when he considers a load to be unsafe.
6. The operator shall inspect the lifter before using. Any defect observed shall be examined by a qualified person to determine if it is a hazard.

DON'TS

1. The operator shall not operate a malfunctioning lifter or one with an "out of service" tag attached.
2. The operator shall not use the lifter for any purpose(s) other than those designated by the manufacturer's instruction manual.
3. The operator shall not use a lifter when the capacity, weight or safety markings are missing or are no longer legible.
4. No one shall make alterations or modifications to lifters without consulting the manufacturer.
5. No one shall obscure or paint over the manufacturer's capacity, weight, or safety markings.
6. Loads shall not be lifted higher than necessary or be left suspended unattended.
7. The lifter shall not lift a load that is not properly balanced for safe lifting.

HANDLING THE LOAD

1. The lifter shall not be loaded in excess of its rated load.
2. Ensure the load can withstand forces applied by the lifter.
3. The combined weight of the lifter and load shall not exceed the rated load of the crane or hoist.
4. The lifter shall be applied to the load in accordance with the manufacturer's recommended operating procedure.
5. Lifter ropes and chains shall not be kinked, and multiple part lines shall not be twisted about each other.
6. The lifter shall not touch obstructions during load movement.
7. The lifter shall not be loaded with loose material that might fall during movement.
8. The operator or other personnel shall not place themselves or any part of their bodies beneath suspended loads.
9. The load or lifter shall not be slid on the floor or other surface.
10. The lifter shall not be used for loads for which it is not designed.
11. If suspended loads are moved manually, they shall be pushed, not pulled.
12. A preliminary lift of a few inches shall be made to establish that the load is stable.
13. All loads shall be accelerated and decelerated smoothly.

Modifications or repairs performed on your lifting equipment without prior written approval from The Caldwell Group, Inc. voids your warranty. Refer to ASME standards for information regarding the liability of repaired or modified lifters.



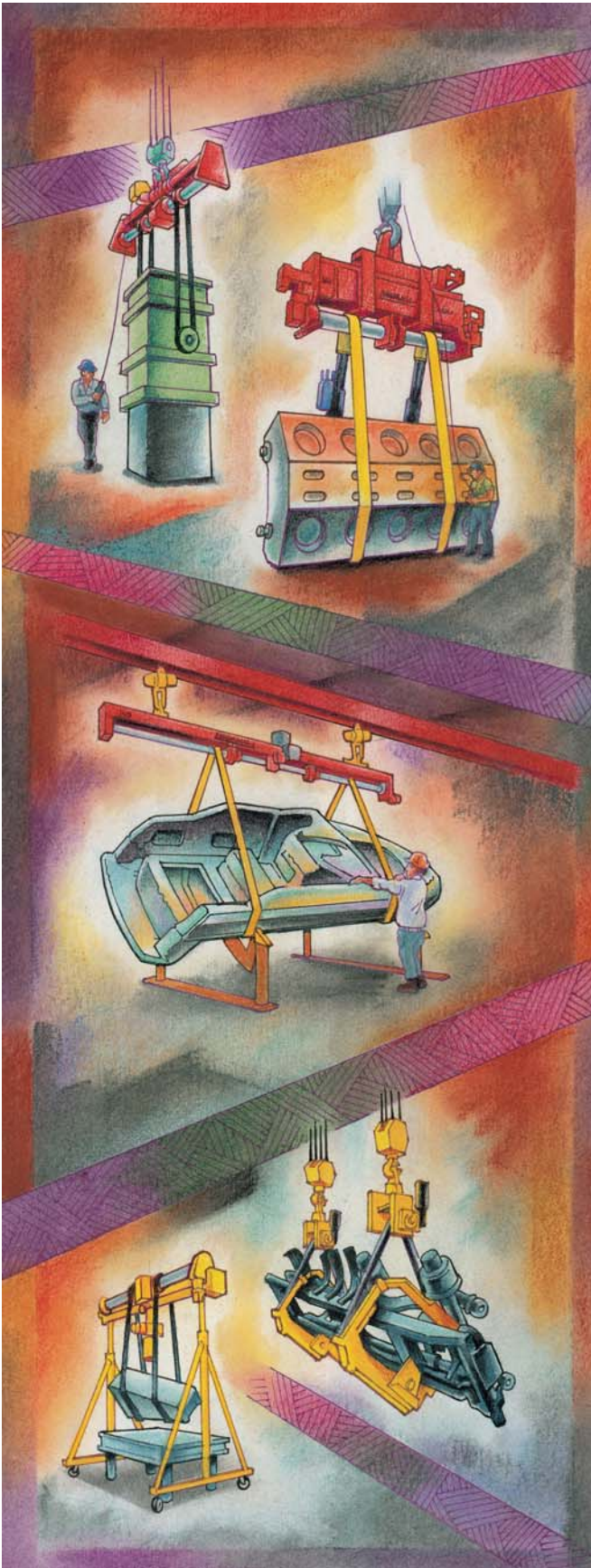
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Mill Duty Section
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POSI-TURNER®

Load Rotation Equipment



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Independent Drive

Pages C.12 - C.13

Chassis Master™

Pages C.14 - C.15

Posi-Gantri™

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 CHASSIS
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Care & Use

The Caldwell Group has been manufacturing lifting equipment since 1954. It is our goal to manufacture high quality, long lasting lifting products that will safely increase productivity and reduce operating costs.

The Posi-Turner® is designed for...

Safety & Ergonomics

- Provides safer working conditions by positioning the work piece at a distance.
- Eliminates tipping or dropping work pieces and the shock load to the crane associated with using two cranes to roll over a heavy object.
- Allows you to stop or start rotations at any point.
- Makes it easier to position a work piece.
- Provides ergonomic benefits to employees performing production and assembly work.
- Meets or exceeds industry standards, including ASME B30.20, ASME BTH-1, AWS D1.1 and ANSI/NFPA 70.

Efficiency

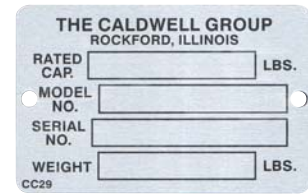
- Lifts, levels and rotates objects without re-rigging.
- Improves production process efficiency, by keeping an assembly line moving.
- Makes rotation, positioning and precision work easier.
- Requires only one operator for system rotation.
- Saves production time and labor time.

Damage-Free Product Quality

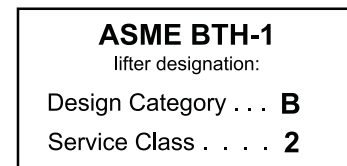
- Eliminates product slipping and dropping.
- Reduces product damage.

Caldwell Service

We provide everything from inspections and training to repairs and rebuilds. We offer solutions that will increase the productivity and effectiveness of your lifter, while ensuring the safety, reliability, and compliance of your equipment. We offer training and maintenance consultation for your new or existing lifter; on-site and factory inspection of your current lifter; repairs and modernizations of your lifting equipment. See pages 6-7 in the front of this catalog for more details.



I.D. Nameplate



BTH-1 Tag



Product Safety Labels

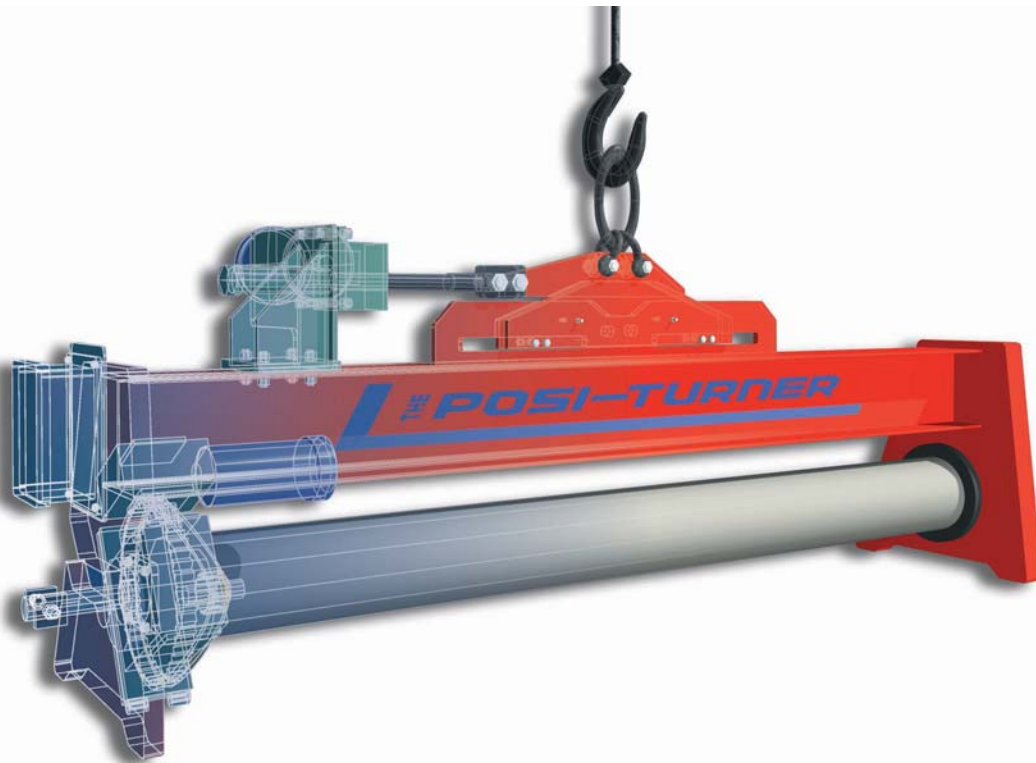


Test Certificate

DISCLAIMER:

All product designs are subject to change without notice. Products pictures here are a representation of a specific design. The product you purchase will be designed for your specific application and may not look exactly as pictured.

Introduction to The Posi-Turner®



SOLUTIONS ARE DESIGNED TO MEET YOUR SPECIFIC REQUIREMENTS.

If you're looking to make your material handling processes more ergonomically efficient, safe, and with less product damage, you're in the right place. The Posi-Turner® is used by companies around the world to lift, suspend, rotate, and position hard-to-handle objects.

First developed in 1972, the Posi-Turner® was the world's first powered sling material handling system. Today, the industrial applications for the Posi-Turner® are practically unlimited.

The Posi-Turner® is a patented, ergonomically designed material handling system for the lifting, suspension, rotation and positioning of objects in light to heavy duty applications. With only one operator using a hand-held pendant or wireless remote control, the Posi-Turner® can lift in excess of 150 tons and handle virtually anything, including odd-shaped objects. Heavy duty slings, powered by a powerful

roller drum or independent drive system, make it easier to work with hard-to-handle materials - safely, efficiently, and with no damage to the work piece.

When you request a Posi-Turner®, we will select a drive and leveler system to create the best solution for you material handling requirements. We have standard Posi-Turner® models that will accommodate a wide range of applications. We can also design a Posi-Turner® system for your specific application, giving you the best solution available.

In this section...

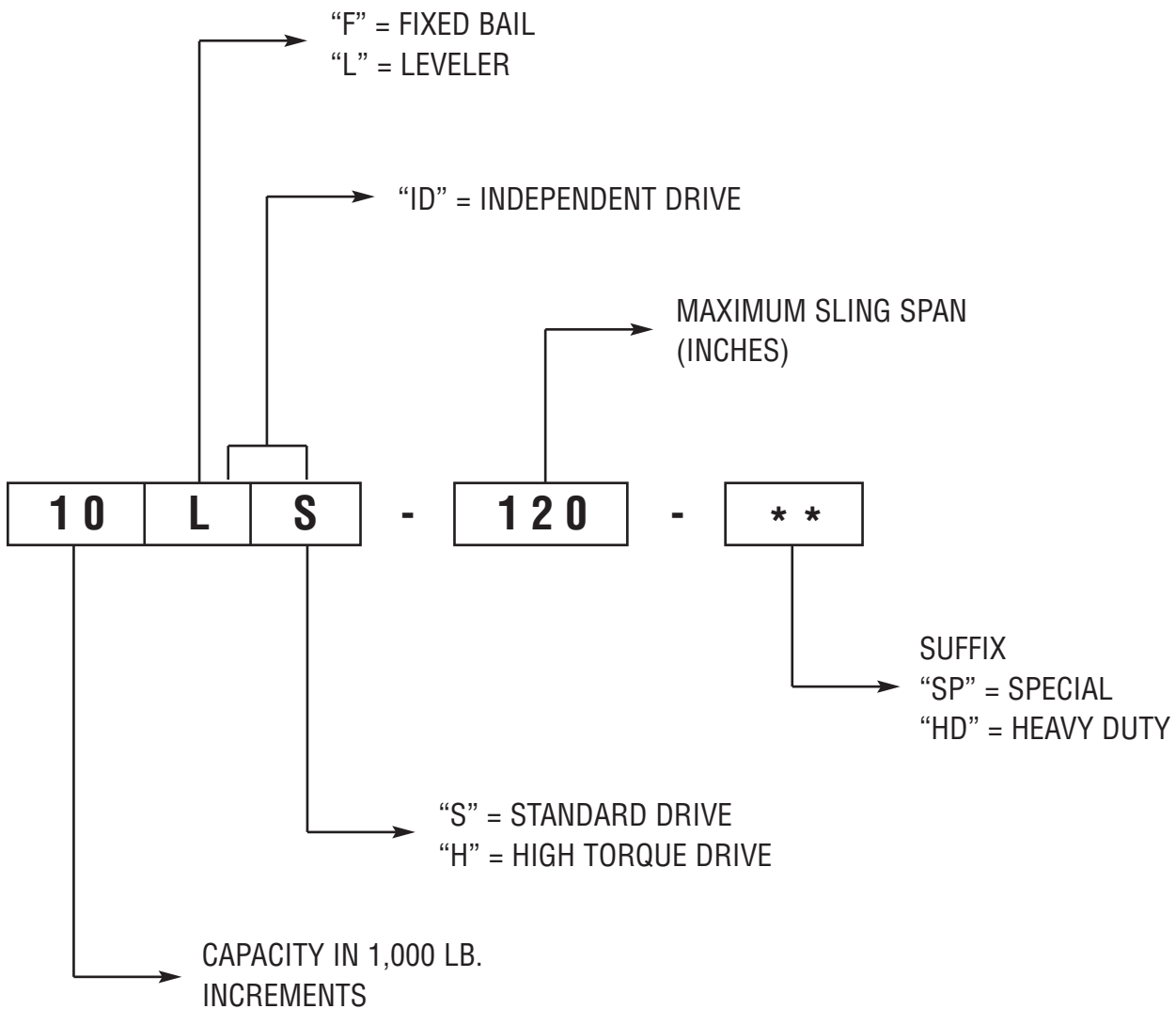
- You'll find information about Posi-Turner® features, applications, and options.
- You can read about how other companies are using the Posi-Turner®.
- View and fill out the application evaluation form that will get us started on the Posi-Turner® solution you need.

Model Information

Breakdown of Model Number

Capacity In 1,000 lb. Increments	●	Bail Style F = Fixed L = Leveler	●	Drive S = Standard H = High Torque	●	Max. Sling Span In Inches	●	Suffix SP = Special HD = Heavy Duty
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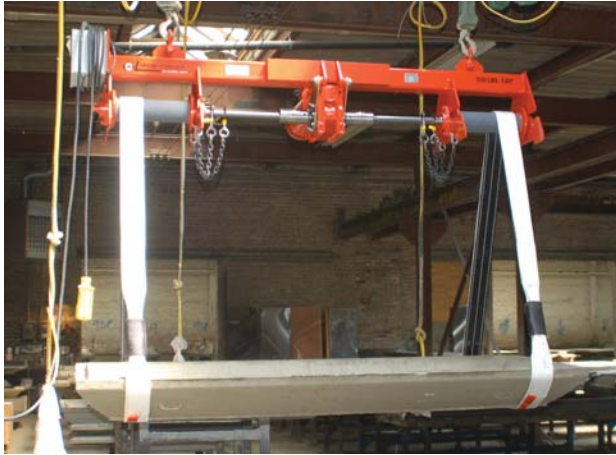
Sample Model Number



Standard Posi-Turner®

Standard - Fixed Bail

The core feature of the Posi-Turner® is the smooth and controlled rotation. The Posi-Turner® suspends and rotates objects 360 degrees or more with controlled rotation. This series of photos, featuring a twin bail unit, shows how rotation with the Posi-Turner® is efficient and damage free.



- Fixed Posi-Turner® will rotate load during lift.
- Custom sizes are available.
- Push button pendant control standard
- Complies with ASME standards.

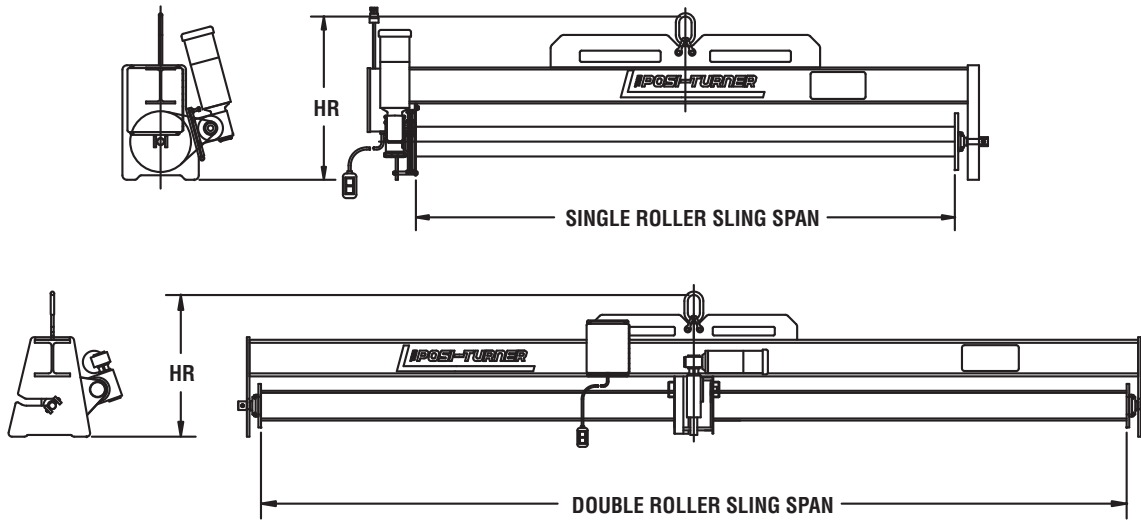
See page C.18 for complete list of product options.



To determine the proper Posi-Turner® required for your specific application, please fill in the Posi-Turner® application evaluation on page C.20 or line at www.caldwellinc.com/applications.

Standard Posi-Turner®

Standard - Fixed Bail



SPECIFICATIONS Application evaluation required; consult factory for additional information.

Model Number	Rated Capacity (lbs.)	Maximum Sling Span (in.)	Roller		HR Headroom (in.)	Unit Weight (lbs.)
			Single / Double	Dia. (in.)		
5FS-72	500	72	S	2.0	14.5	245
1FS-48	1000	48	S	2.0	14.5	225
1.5FS-72	1500	72	S	4.0	28	365
1.5FS-84		84	S	4.0	28	400
1.5FS-96		96	S	4.0	28	430
1.5FS-108		108	S	4.0	28	455
1.5FS-120		120	S	4.0	28	480
2FS-80	2000	80	S	5.6	32.5	750
2FS-120		120	S	5.6	32.5	1050
2FS-250		250	D	5.6	35	2250
3FS-80	3000	80	S	5.6	32.5	750
3FS-120		120	S	5.6	32.5	1200
3FS-250		250	D	5.6	35	2550
4FS-80	4000	80	S	6.6	36.4	900
4FS-120		120	S	6.6	36.4	1300
4FS-250		250	D	6.6	39	2900
6FS-80	6000	80	S	8.6	36.4	1000
6FS-120		120	S	8.6	36.3	1500
6FS-250		250	D	8.6	39	3200
10FS-80	10000	80	S	8.6	38.8	2200
10FS-120		120	S	8.6	38.8	2300
10FS-250		250	D	8.6	41	4200
16FS-80	16000	80	S	10.8	45	3000
16FS-120		120	S	10.8	45	3600
16FS-250		250	D	6.6	47	4600
22FS-150	22000	150	D	6.6	45	3300
22FS-270		270	D	6.6	51	4900
33FS-150	33000	150	D	8.6	53	3900
33FS-270		270	D	8.6	54	7900
44FS-150	44000	150	D	10.8	60	5700
44FS-270		270	D	10.8	61	9700
55FS-150	55000	150	D	10.8	63	5700
55FS-270		270	D	10.8	70	13200
66FS-150	66000	150	D	10.8	69	8000
66FS-270		270	D	10.8	75	17800
88FS-150	88000	150	D	10.8	75	10800
88FS-270		270	D	10.8	83	23700
110FS-150	110000	150	D	12.8	75	12900
110FS-270		270	D	12.8	86	27900

Standard Posi-Turner®



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Posi-Turner® Section
2014-2016 Master Catalog

Standard - Leveler Bail

An optional feature to the Posi-Turner®, the “Leveler” adjusts the center-of-gravity under the hook to balance the load with a push of a button. These photos display the benefit of leveling uneven loads in mid-air to save time and promote a safer work environment.



- Leveler Posi-Turner® will rotate load and adjusts to the center of gravity during lift.
- Custom sizes are available.
- Push button pendent control standard
- Standard bail adjustment 6" each side of center, with optional 12" adjustment each side of center available.
- Complies with ASME standards.

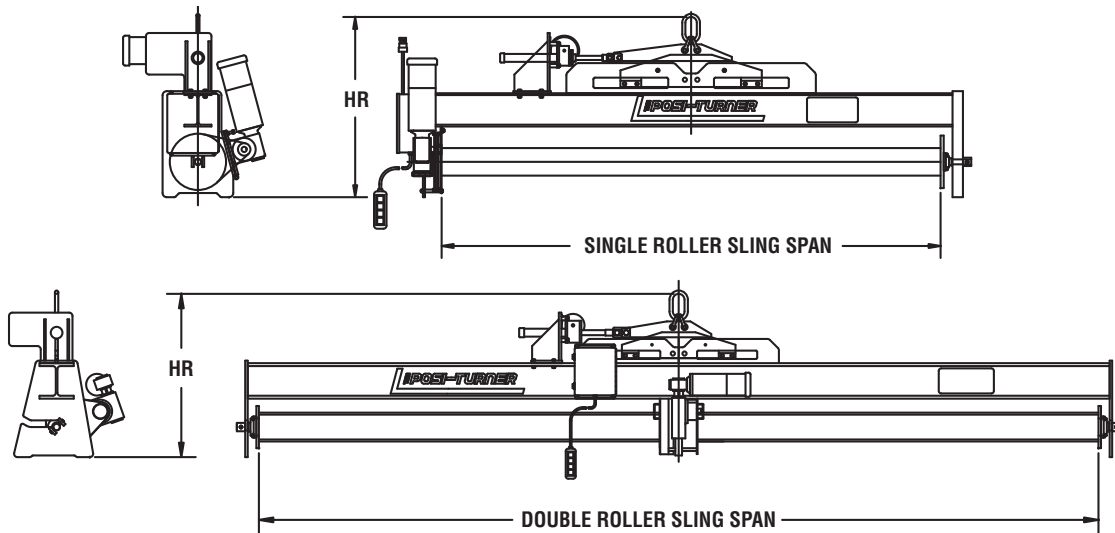
See page C.18 for complete list of product options.



To determine the proper Posi-Turner® required for your specific application, please fill in the Posi-Turner® application evaluation on page C.20 or line at www.caldwellinc.com/applications.

Standard Posi-Turner®

Standard - Leveler Bail



SPECIFICATIONS Application evaluation required; consult factory for additional information.

Model Number	Rated Capacity (lbs.)	Maximum Sling Span (in.)	Roller		HR Headroom (in.)	Unit Weight (lbs.)
			Single / Double	Dia. (in.)		
.5LS-72	500	72	S	2.0	19.1	295
1LS-48	1000	48	S	2.0	19.1	275
1.5LS-72	1500	72	S	4.0	32.5	420
1.5LS-84		84	S	4.0	32.5	455
1.5LS-96		96	S	4.0	32.5	480
1.5LS-108		108	S	4.0	32.5	510
1.5LS-120		120	S	4.0	32.5	535
2LS-80	2000	80	S	5.6	36.8	800
2LS-120		120	S	5.6	36.8	1200
2LS-250		250	D	5.6	38.8	2400
3LS-80	3000	80	S	5.6	36.8	900
3LS-120		120	S	5.6	36.8	1350
3LS-250		250	D	5.6	38.8	2700
4LS-80	4000	80	S	6.6	43.4	1200
4LS-120		120	S	6.6	43.4	1500
4LS-250		250	D	6.6	46	3100
6LS-80	6000	80	S	8.6	43.4	1300
6LS-120		120	S	8.6	43.4	1700
6LS-250		250	D	8.6	46	3400
10LS-80	10000	80	S	8.6	46.5	2400
10LS-120		120	S	8.6	46.5	2500
10LS-250		250	D	8.6	49	4600
16LS-80	16000	80	S	10.8	60	3600
16LS-120		120	S	10.8	60	4000
16LS-250		250	D	6.6	62	5000
22LS-150	22000	150	D	6.6	59	4000
22LS-270		270	D	6.6	62	5600
33LS-150	33000	150	D	8.6	64	4900
33LS-270		270	D	8.6	65	8900
44LS-150	44000	150	D	10.8	71	6500
44LS-270		270	D	10.8	72	10500
55LS-150	55000	150	D	10.8	73	7500
55LS-270		270	D	10.8	80	15000
66LS-150	66000	150	D	10.8	78	9800
66LS-270		270	D	10.8	85	19600
88LS-150	88000	150	D	10.8	86	12900
88LS-270		270	D	10.8	94	25800
110LS-150	110000	150	D	12.8	90	15000
110LS-270		270	D	12.8	101	30000

Standard Posi-Turner®

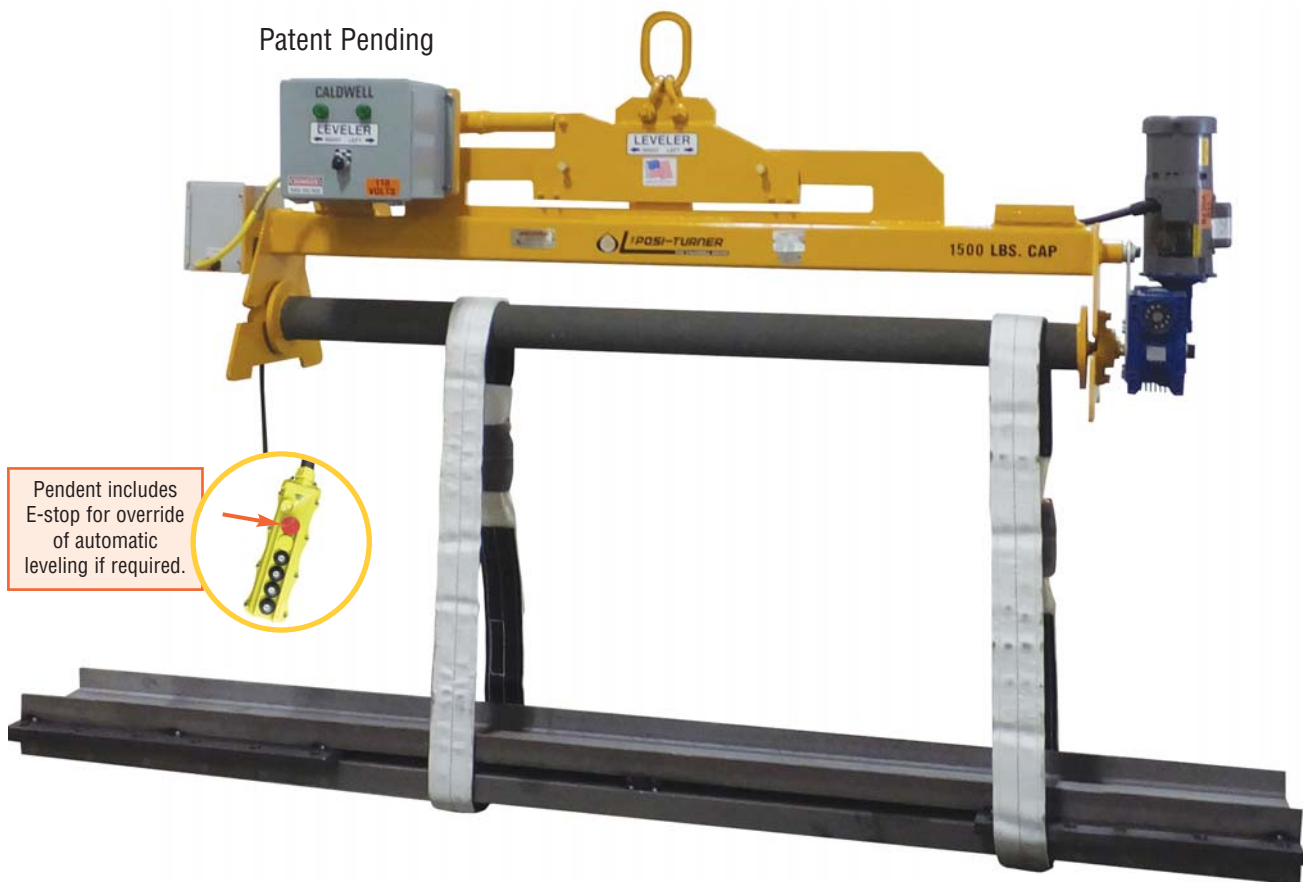
Auto-Leveler™

This innovative, patent pending solution is an easy way to keep your load level during rotation.

NEW

PRODUCT FEATURES:

- Control system senses when a load is out of level.
- Automatically activates leveling adjustment on lifter to level the load.
- Efficient leveling during load rotation.
- Reduces sling walk.
- Operator can focus on rotation and operating the crane.
- Auto-leveling can be turned off for manual use if desired.
- Can be easily added to existing units.
- Special applications can be provided.



Optional Auto-Leveler™ can be added to new Posi-Turner® Leveler Bail units, Posi-Leveler™ models at the time of the order or be field mounted to existing units. Ask your customer service representative how today!

Standard Posi-Turner®

Auto-Leveler™ How it works

Load slings are slack. Leveler bail is centered.
Auto-Leveler™ switch is engaged.



Manual / Automatic switch and direction indicator lights on outside of Auto-Leveler™ control box.

As the crane hook is raised up, it is clear the load is off-center. The Auto-Leveler™ activates and begins to move the bail as needed, allowing the operator to focus on running the crane.



The indicator light notifies the operator the Posi-Turner® Auto-Leveler™ has engaged and which direction the bail is adjusting to accommodate for the load center of gravity location.



The Auto-Leveler™ continues to adjust the lifter bail as needed to find the center of gravity. Notice the flag on the bail and its position in relation to the Posi-Turner® decal.



Once the Auto-Leveler™ sensor indicates a level lift, the Auto-Leveler™ de-activates and the operator can continue to move, rotate and position the load as needed.

When the load is set down after rotation, the Auto-Leveler™ will move the bail back to center.

Independent Drive

Independent Drive System

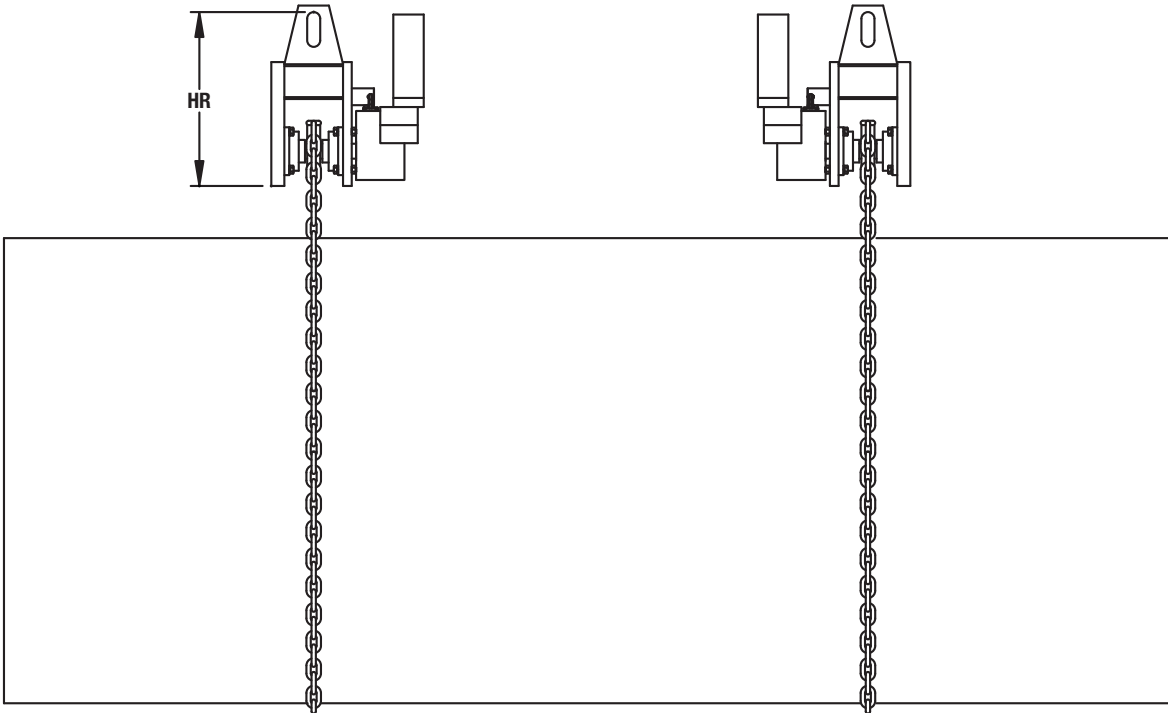


Consists of two powered drive units suspended from two cranes/hoists, with pocketed sheave driving special coil link chain slings that rotate large heavy, bulky items for assembly, welding positioning, and inspection. Drive units can either be operated independently or together, through an operator pendant(s), or remote control.



Independent Drive

To learn how an Independent Drive System can save you time and money, contact us with your application requirements.



PRODUCT FEATURES:

- Two powered drive units for precise control.
- Chain slings have disconnect hardware allowing them to be positioned underneath the load.
- Over travel limit switches prevent chain disconnect hardware from running over chain sprocket.
- Standard models include operator pendant on each unit for independent operation, optional remote control allows for simultaneous operation.

SPECIFICATIONS - Independent Drive

Model Number	Capacity (lbs.)	HR Headroom (in.)	Chain (in.)	Weight Each (lbs.)
2-10ID-0	10000	30	3/8	800
2-20ID-0	20000	40	5/8	1250
2-30ID-0	30000	40	7/8	1600
2-40ID-0	40000	40	7/8	1700
2-60ID-0	60000	40	7/8	1700
2-80ID-0	80000	42	7/8	2000
2-120ID-0	120000	42	1	4000
2-160ID-0	160000	60	1 1/4	5000

Chassis Master™

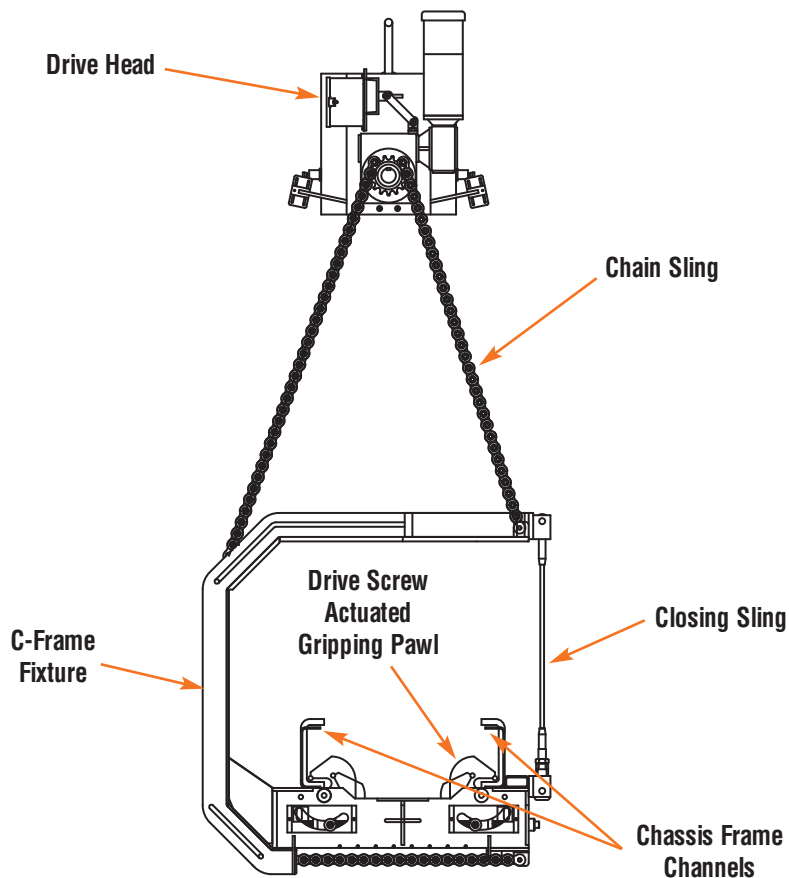
Chassis Master™

The ideal system for inverting truck/bus chassis after suspension installation. Custom designed fixtures clamp to chassis "C-Rails" and contain center of gravity within the turning radius, thus creating a smooth transition. Independent drives allow fixtures to be positioned to the desired location on the chassis.



Chassis Master™

To learn how a Chassis Master™ can save you time and money, contact us with your application requirement and chassis information.



Products pictures here are a representation of a specific design. The Chassis Master™ we design for you will be specific to your application and may not look exactly as pictured.

Posi-Gantri™

Material handling system suspends and rotates objects 360 degrees or more with controlled rotation.

The Posi-Gantri™ is a versatile tool used to turn loads in areas where using an overhead crane is not feasible. The Posi-Gantri™ can span a workbench or area where loads need to be turned during fabrication, assembly, or maintenance. The optional chain hoist can be used to place the load into the rotation slings, or a fork lift can

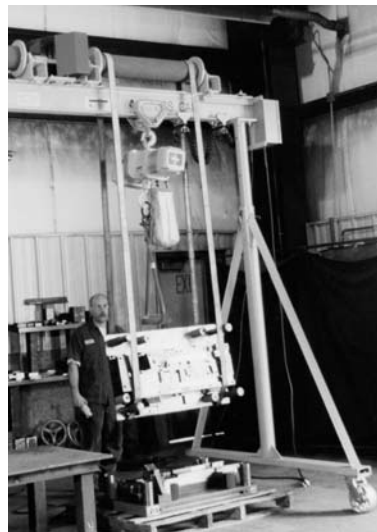
perform this function when bringing the load to the area. Posi-Gantri™ heights can be fixed or adjustable and equipped with or without casters. Rotation slings can be polyester or wire mesh. Specials can be designed to fit your specific requirements.



Shown with optional hoist package

PRODUCT FEATURES:

- Complete material handling system.
- Heavy duty non-slip drum surface.
- Heavy duty worm gear reducer with chain and sprocket final drive.
- Electric brake motor.
- Bolted assembly to head beam.
- Push button pendant control.
- Posi-Gantri™ can be ordered either with fixed or adjustable heights. Please refer to our Krane-King® section for additional gantry crane information.
- Can also be added to existing gantry cranes, please contact factory for details.



Posi-Gantri™ - Application Evaluation

PRODUCT:

Product to be handled: _____

Maximum: Weight _____ Length _____ Width _____ Height _____

Minimum: Weight _____ Length _____ Width _____ Height _____

Does product have: Sharp Edges/Corners Protrusions Welding Application

Is temperature of product at time of handling over 150° F? No Yes Temperature: _____

Type of slings preferred: Polyester Steel Mesh Chain

Decision time frame and expected delivery: _____

WORK AREA:

Floor space available: Length _____ Width _____

Ceiling height: _____

Is product lifted from: Floor Worktable Fork Lift

Size of worktable: Length _____ Width _____ Height _____

Will product be rotated over worktable: Yes No

Amount of rotation: 90° 180° 360°

Describe any hazardous conditions: _____

POWER REQUIREMENTS:

Electrical: DC AC Voltage _____ Phase _____ Cycle _____

Pneumatic: Pressure _____ Flow _____ Line Size _____

OTHER OPTIONS:

Chain Hoist: Manual Electric

Power Cord Tag Line

Wheel Locks

Swivel Locks

Combined Pendant With Hoist

Contact: _____

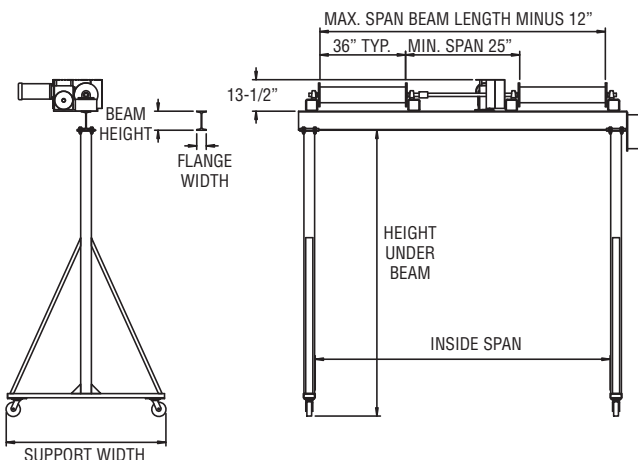
Company: _____

Address: _____

City, State Zip: _____

Phone: _____ Fax: _____

Email: _____



For a price quote on your specific application, please complete the above application form and fax this along with a photo, sketch, or drawing of the product being rotated to The Caldwell Group at **815-229-5686** or you can complete this form online at www.caldwellinc.com/applications.

Posi-Turner® Sling Styles



Sling Styles

The Posi-Turner® can utilize several types and configurations of slings to suit every application. Certain parameters should be considered in the sling type selection such as: heat, sharp edges, welding applications, environment, etc. In most cases, a disconnect link is used so that one end of the sling can be inserted under a load.

Style	Use/Application
Polyester Slings	Soft, pliable slings are ideal for most applications, especially when the object being turned must be handled gently.
Polyester Slings with PVC Protective Surface	MOST POPULAR SLING: Tough PVC surface is stitched onto inner surface of the polyester sling. Gentle to the product, but minimizes damage to the sling from sharp edges and abrasion.
Metal Mesh Slings	Requires rubber belt lagged drum on Posi-Turner®. Heavy duty (10 GA) fabricated wire mesh sling. Not damaged by sparks if product is welded while in slings. Used when polyester slings are not suitable.
Ladder Sling	Two eye-to-eye slings are connected at intervals with sling “rungs” to form a ladder shape. Used to cradle and turn cylindrical objects end-over-end.
Sling Links	Heavy duty fabricated steel links. Used to connect the ends of eye-to-eye polyester slings. Eye-to-eye slings are often easier and faster to position than endless slings.
Sling Link Covers	Cordura fabric covers with velcro fasteners. Wrapped around sling links to prevent direct contact between links and object being turned.
Sling Protective Devices PVC Pads Metal Pads	Prevents damage to slings from sharp edges and corners. Used in addition to PVC pad usually sewn on slings. PVC pads are stripped onto the slings and slid into position over the sharp edges. Metal pads are placed between the sling and the sharp edge as the object is turned. These pads may be attached to the object being turned with magnets.
Additional Sling Eyes (single ply slings only)	Extra sling eyes are sewn on sling at specific location. The operator adjusts the length of the sling to the product. Used when headroom is limited and product size varies.



Polyester Slings with PVC Protective Surface



Rubber Belt Lagged Drum for use with Metal Mesh Slings



Sling Links & Cover

Posi-Turner® Options

Options

Many different options allow your Posi-Turner® to be configured to your specific environment and application. If you don't see a desired option listed, please contact our application specialist to discuss your needs.

Option*	Features
Power Cord Reel	The Optional Power Cord Reel allows the Posi-Turner® to be connected to the power supply to keep cords controlled while moving the lifter up and down.
Pendant Cord Reel	Keeps the Push-Button Pendant cable contained.
Remote Control Push-Button	A cable-free, hand held option for controlling your Posi-Turner®.
Auto-Leveler™	Automatic leveling of Posi-Turner®, see pages C.10 - C.11 for complete details.
Alternative Voltage	Alternative voltage designed into your Posi-Turner®, just let us know your requirements.
Alternative Power	No Electricity? We can design your Posi-Turner® to run on pneumatic or hydraulic power.
Rubber Belt Lagged Drum	Required for all Posi-Turner® units with that utilize metal mesh lifting slings.
Sling Guide	Controls the location of the sling on the drum to help prevent sling from moving up and down the load or drum during the rotation process.
Additional Lifting Eyes	For multiple lifting points.
Caster Wheels	This option allows the unloaded Posi-Turner® to be rolled from one location to another.

* Most options are factory installed, please request desired options at time of quote or order.



Cord Reel



Remote Control Push-Button



Custom Sling Guide



Posi-Turner® Application Evaluation

PRODUCT:

Product to be handled: _____

Maximum: Weight _____ Length _____ Width _____ Height _____

Minimum: Weight _____ Length _____ Width _____ Height _____

Off-centered weight (detailed drawing mandatory) _____

Does product have: Sharp Edges/Corners Protrusions Welding Application

Is temperature of product at time of handling over 150° F? No Yes Temperature: _____

Type of slings preferred: Polyester Steel Mesh Chain

Decision time frame and expected delivery: _____

WORK AREA:

Lifting device available: Crane Gantry Fork Lift Lifting Capacity: _____

If two cranes/hooks are available, can they be used for this application? Yes No

If yes, what is the crane hook spacing: Minimum _____ Maximum _____

Do you prefer to supply power for Posi-Turner® from: Crane Floor Level

Headroom clearance (hook to floor): _____

Is product lifted from: Floor Conveyor Worktable Other

Height of conveyor/worktable (Inches): _____

Will product be rotated over conveyor/worktable: Yes No

Amount of rotation: 90° _____ 180° _____ 360° _____

Work Area Conditions: Outside Inside Welding Area Corrosive

Describe any hazardous conditions: _____

POWER REQUIREMENTS:

Electrical: DC AC Voltage _____ Phase _____ Cycle _____

Pneumatic: Pressure _____ Flow _____ Line Size _____

Hydraulic: Pressure _____ Flow _____ Line Size _____

Other: _____

Posi-Turner® control system preferred: Pendant Radio Infrared Remote P.B.

OTHER OPTIONS:

Auto-Leveler™ Castor Wheels

See pages C.10 & C.11 for details. Power Cord Reel

Pendant Cord Reel Sling Link Covers

Sling Guides Other _____

Contact: _____

Company: _____

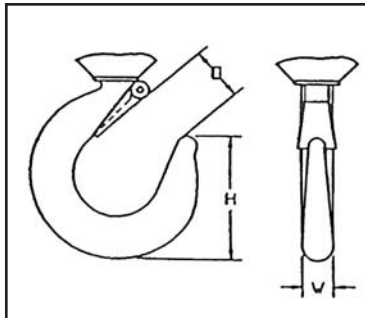
Address: _____

City, State, Zip: _____

Phone: _____ Fax: _____

Email _____

CRANE HOOK DIMENSIONS:



_____ (O) Opening
(including safety latch)

_____ (H) Height

_____ (W) Width

For a price quote on your specific application, please complete the above application form and fax this along with a photo, sketch, or drawing of the product being rotated, to **815-229-5686** or you can complete this form online at www.caldwellinc.com/applications.

Posi-Turner® Applications

Industry/Usage Cross Reference

The industrial applications for the Posi-Turner® are nearly unlimited. With a powerful roller drum system and the optional “Leveler”, combined with heavy duty slings, the Posi-Turner® gently rotates virtually any object - even those weighing more than 100 tons. Designed to improve production capabilities for a variety of industries, a rotated object can be stopped or started in any desired position.



Typical Products Rotated (by Industry)	Assembly Line	Fabrication and Assembly	Machining/Metal Forming	Die and Mold Maintenance	Molded Product Removal	Materials Handling/Storage	Inspection, Cleaning, Painting and Repair
TRANSPORTATION							
Auto: frames, engines, dies, molds, etc.	X	X	X	X	X	X	X
Truck: chassis, trailers, tanks, etc.	X	X	X	X		X	X
Rail: undercarriages, bogeys, cars, wheels, etc.			X	X	X		X
Aircraft-Aerospace: panels, tooling, etc.			X	X	X	X	X
Shipping: container, trailer, etc.	X	X	X				X
INDUSTRIAL EQUIPMENT							
machine bases, panels, enclosures, frames, engine blocks, weldments, etc.	X	X	X	X	X		X
HEAVY EQUIPMENT							
Agricultural, Construction, Mining, Military: chassis, axles, assemblies, buckets, transmissions, frames, booms, etc.	X	X	X	X	X		X
CONCRETE							
Precast Molds and Products: vaults, pipes, basins, barriers, construction girders, panels, decks, etc.	X				X	X	X
MARINE							
decks, hulls, panels, molds, etc.	X	X			X	X	X
PLASTICS AND COMPOSITES							
injection molds, fiberglass products, etc.			X		X	X	X
METAL FORMING							
tooling, dies, coils, castings, sheets, etc.	X	X	X	X	X	X	X
MATERIAL PRODUCTION							
blocks, slabs, ingots, plates, bundles, stone, steel, aluminum, stainless, ceramic, copper, graphite, refractory, paper, wood, etc.	X	X	X			X	X
SPECIALTY PRODUCTS	X	X	X	X	X	X	X

Posi-Turner® Applications

Assembly Line

Use to rotate product during line processes to allow components to be added at various stages along the line.



PRODUCT HANDLED:

Drive components are rotated during assembly to aid in component installation.



PRODUCT HANDLED:

Truck chassis are rotated after the drive components have been installed on the bottom.



Posi-Turner® Applications

Fabrication & Assembly

Rotates bulky and hard to handle objects during welding and other assembly processes.



PRODUCT HANDLED:

Nose and ski landing assemblies for polar expedition airplanes up to 21' long and 2,200 pounds.



PRODUCT HANDLED:

- Hydraulic crane components.
- Boom sections 34' long.
- Weight - 5,000 pounds.

Posi-Turner® Applications

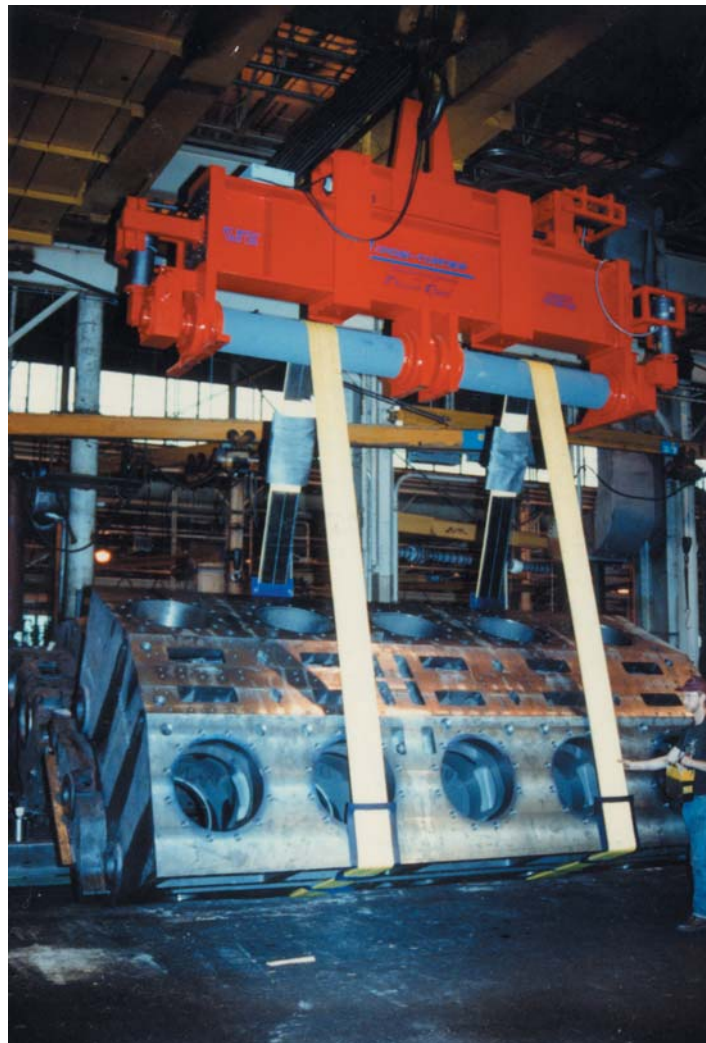
Machining & Metal Forming

Safely and efficiently rotates large or unbalanced loads for placement during forming and machining.



PRODUCT HANDLED:

Landing gear beams and flap tracks 17' long, 2'-4' wide machined steel, titanium or aluminum weighing up to 5,300 pounds.



PRODUCT HANDLED:

Large engine blocks requiring rotation during the machining process.



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Posi-Turner® Section
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Posi-Turner® Applications

Die & Mold Maintenance

Easily rotates dies and molds to allow for product removal, maintenance, or tooling changes.



PRODUCT HANDLED:

Rotating large concrete castings to an upright position after removal from the mold.

PRODUCT HANDLED:

Dies and molds are easily separated and then reassembled after maintenance.



Posi-Turner® Applications

Molded Product Removal

Rotates and/or separates molds for safe and damage free product removal.



PRODUCT HANDLED:

- Precast drycast concrete molds for manholes and catch basins.
- Jacket with and without product.
- Rectangular or cylindrical forms.
- Full weight up to 15,000 lbs.
- Up to 6' long and 4' O.D.

PRODUCT HANDLED:

Vacuum mold with special turning fixtures to compensate for close clearance that prevents slings from being placed between the mold halves.



PRODUCT HANDLED:

- Molded fiberglass boat decks.
- Up to 27' long and 10' wide.
- Weight - 800 lbs.

Posi-Turner® Applications



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Posi-Turner® Section
2014-2016 Master Catalog

Material Handling, Storage, and Shipping

Safely picks and tilts loads to the exact angle required for shipping and storage applications.



PRODUCT HANDLED:

Cylindrical segments that need to be rotated for the fabrication and shipping process.



PRODUCT HANDLED:

Banded stacks of corrugated cardboard boxes up to 2,000 pounds that need to be rotated 180° for shipment.



PRODUCT HANDLED:

- Jet skis weighing 800 lbs.
- Position to a precise angle for packaging and shipment.

Posi-Turner® Applications

Inspection, Cleaning, Painting & Repair

Precise controlled rotation will allow load rotation to be stopped at any angle for load inspection, cleaning, plating, painting, and repair.



PRODUCT HANDLED:

- Condenser coils.
- Typical piece: 5' long x 4' wide x 1' high.
- Weight - 1,000 pounds.
- Coils are rotated to allow fluid from testing tank to easily drain out.



PRODUCT HANDLED:

- Absorption chillers for large air conditioning systems.
- Fabricated steel shells with copper tubing.
- Weight up to 4,000 lbs.
- Up to 25' long.



Care & Use

Posi-Turner® Load Rotation Equipment is designed for specific tasks to withstand the particular forces imposed. Guidelines for installation, inspection, maintenance and repair, safe operation and operator training of these lifters follow:

INSTALLATION

Below Hook Lifters shall be assembled and installed in accordance with the manufacturer's instructions, unless other specific arrangements have been approved in writing by manufacturer. When lifter/auxiliary power supply is required, user inspection shall ensure that the power source complies with ANSI/NFPA 70, National Electrical Code and shall include a power disconnect switch as required in accordance with ANSI/NFPA 70 based on the lifters requirements. If electrical connections are made, the power supply and corresponding power disconnects shall be connected to the line side (power supply side) of the crane disconnect or to an independent circuit as specified in the manufacturer's operating instructions.

Check for correct rotation of all pumps and power units, lubrication of moving parts, and filling of reservoirs, all in accordance with manufacturer's instructions.

OPERATOR TRAINING

Lifters shall be operated in accordance with manufacturer's operating instructions, and by personnel who have received instructions described in the "Operating Practices" section of these guidelines.

Training should also include instruction regarding:

1. Details of the lifting cycle.
2. Application of the lifter to the load including (according to the manufacturer's instructions) adjustments to the lifter, if any, to adapt it to various sizes and kinds of loads.
3. Instruction in any special operations or precautions that may be required.
4. Recognition of proper load configuration. For example, preferred operation requires an orderly pattern of stacking.
5. Before assuming responsibility for using the lifter, an operator shall demonstrate his understanding of the lifting procedure to the instructor. The instructor should record notes of operator's demonstrated ability.

INSPECTION

The lifter shall be visually inspected by or under the direction of an appointed person on a daily or weekly schedule depending on the nature of the lifter and the severity of the service.

Details to look for include but are not limited to:

1. Structural deformation.
2. Cracks in the structural frame, welds, hoist hook attachment points, mechanically operating parts, any attached slings, clevises and hooks.
3. Malfunctions during operation of a mechanically operating lifter.
4. Loose covers, fasteners and stops.
5. Faulty operation of automatic hold and release mechanisms.
6. Wear of hoist hooking points, load supporting clevises, pins, slings, linkages and mechanical parts.
7. Missing nameplates and markings. Contact Caldwell for replacements.

MAINTENANCE AND REPAIRS

1. A preventive maintenance program should be established for each lifter by a qualified person based on recommendations made by its manufacturer.
2. A qualified person should have responsibility for repairs. Dated records and details of repairs and parts replacement should be carefully maintained by a qualified person, and copies kept in your possession.
3. Replacement parts shall be at least equivalent to the original manufacturer's specifications.

OPERATING PRACTICES

DO'S

1. The operator shall receive, read and understand the manufacturer's instruction manual.
2. The operator shall watch carefully that the lifter is performing properly during the lifting procedure.
3. The operator shall know the standard crane directing hand signals.
4. The operator shall only respond to signals from an appointed person. However, stop signals from anyone shall be obeyed.
5. The operator shall notify a designated person when he considers a load to be unsafe.
6. The operator shall inspect the lifter before using. Any defect shall be examined by a qualified person to determine if it is a hazard.

DONT'S

1. The operator shall not operate a malfunctioning lifter or one with an "out of service" tag attached.
2. The operator shall not use the lifter for any purpose(s) other than those designated by the manufacturer's instruction manual.
3. The operator shall not use a lifter when the capacity, weight or product safety labels are missing or are no longer legible.
4. No one shall make alterations or modifications to lifters without consulting the manufacturer.
5. No one shall obscure or paint over the manufacturer's capacity, weight, or safety markings.
6. Loads shall not be lifted higher than necessary or be left suspended unattended.
7. The lifter shall not lift a load that is not properly balanced for safe lifting.

HANDLING THE LOAD

1. The lifter shall not be loaded in excess of its rated load.
2. Ensure the load can withstand forces applied by the lifter.
3. The combined weight of the lifter and load shall not exceed the rated load of the crane or hoist.
4. The lifter shall be applied to the load in accordance with the manufacturer's recommended operating procedure.
5. Lifter ropes and chains shall not be kinked, and multiple part lines shall not be twisted about each other.
6. The lifter shall not touch obstructions during load movement.
7. The lifter shall not be loaded with loose material that might fall during movement.
8. The operator or other personnel shall not place themselves or any part of their bodies beneath suspended loads.
9. The load or lifter shall not be slid on the floor or other surface.
10. The lifter shall not be used for loads for which it is not designed.
11. If suspended loads are moved manually, they shall be pushed, not pulled.
12. A preliminary lift of a few inches shall be made to establish that the load is stable.
13. All loads shall be accelerated and decelerated smoothly and slowly.

Modifications or repairs performed on your lifting equipment without prior written approval from The Caldwell Group, Inc. voids your warranty. Refer to ASME standards for information regarding the liability of repaired or modified lifters.

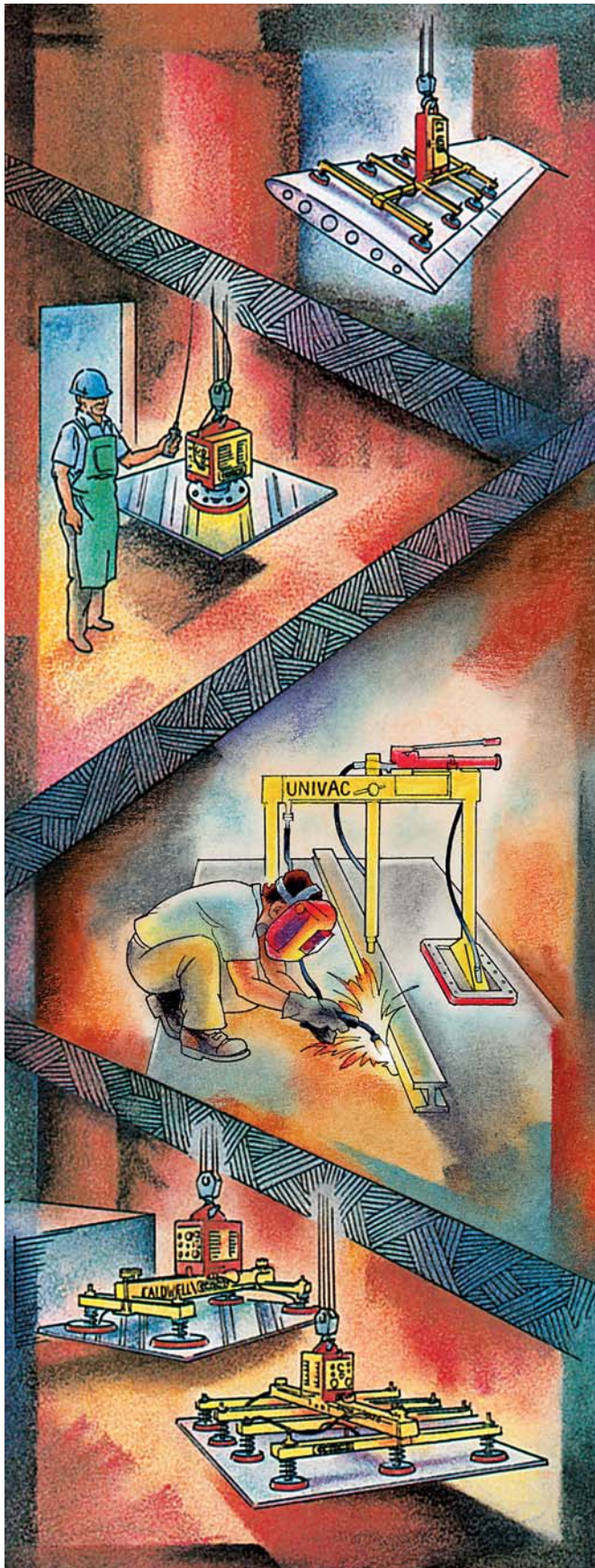


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Posi-Turner® Section
2014-2016 Master Catalog

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UNIVAC® Vacuum Lifters



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Mechanical Vacuum Lifter

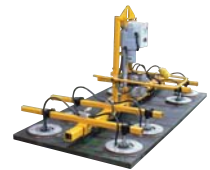
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Parts, Care & Use



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Univac® Section
2014-2016 Master Catalog

Quality & Engineering

The Caldwell Group has been manufacturing lifting equipment since 1954. It is our goal to manufacture high quality, long lasting lifting products that will safely increase productivity and reduce operating costs.

UNIVAC® Vacuum Lifters are designed for efficient, one-person operation in lifts of semi-porous and non-porous material. Unlike magnets or edge grabs, vacuum units will not mark or scratch material surfaces or edges. Additionally, vacuum lifters can easily lift nonferrous metals and thin sheets (under ¼”).

Benefits your company will receive with UNIVAC® Vacuum Lifters:

- Increase productivity, reducing cost.
- One person operation.
- Eliminate material damage.
- Precision handling made easier.
- Versatile handling of most materials.
- Improve storage space.
- Provide a low maintenance lifter.
- Durable for long lasting service.

All UNIVAC® Lifters Have:

- Identification nameplate as required by ASME.
- Rated capacities and product safety labels.

Industry Standards

The American Society of Mechanical Engineers (ASME) has developed standards that apply specifically to these types of devices. ASME B30.20 provides detailed information on the classifications, marking, construction, installation, inspection, testing, maintenance and operation of below the hook lifting devices. ASME BTH-1 provides detailed information on the design criteria of below the hook lifting devices. These standards serve as a guide to government authorities, manufacturers, purchasers and users of lifting devices. For a summary of these standards, please see pages 8-10 in the front of this catalog or visit our web site at www.caldwellinc.com/standards.

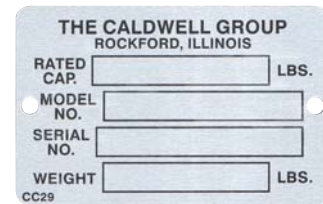
UNIVAC® Vacuum Lifters adhere to the highest quality standards in the industry and all units conform to **ASME standards**. All UNIVAC® Vacuum Lifters are designed to a structural safety factor of 3:1 and a vacuum pad safety factor of 2:1.

Caldwell Delivery Program

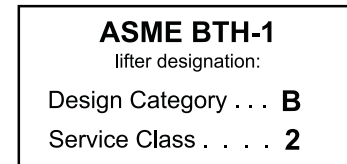
QUICKSHIP PROGRAM Look for the red QUICKSHIP logo on our standard products. The specific QUICKSHIP model number is shown in red. QUICKSHIP products ship in 7 to 10 days (excluding weekends and holidays).

Caldwell Service

We offer solutions that will increase the productivity and effectiveness of your lifter, while ensuring the safety, reliability, and compliance of your equipment. Our services include: training & maintenance, inspection, repairs and modernizations. See pages 6-7 in the front of this catalog for more details.



I.D. Nameplate



BTH Tag



Product Safety Label

DISCLAIMER:

All product designs are subject to change without notice. Products pictured in this catalog are a representation of a specific design. The product you purchase will be designed for your specific application and may not look exactly like the picture in this catalog.

Model Information

Model Number Breakdown & Options

BREAKDOWN OF MODEL NUMBER

7 PART CODE

MODEL TYPE	VACUUM POWER	CAPACITY (LBS.)	PAD CODE	LOAD BEAM LENGTH (FT.)	# OF CROSSARMS	CROSSARM LENGTH (FT.)
A-F, T (see pgs. D.6 - D.17, D.20 - D.21)	A (Shop air) E (Electric) (see pg. D.5)	Omit "00"	All standard pads are neoprene except Model T for glass is mold-on	4-20	D (two) T (three) Q (four) Note: two pads per crossarm (standard)	3,4 or 5

EXAMPLE MODEL NUMBER: D • E • 12 • V8 • 5 • D • 3

- D = Twin crossarms with 4 pads
- E = Electric power
- 12 = 1200 lbs. capacity
- V8 = Neoprene pad, 10-5/8" in diameter
- 5 = Load beam length, 5 feet
- D = Two crossarms
- 3 = Crossarm length, 3 feet

OPTIONS FOR STANDARD MODELS:

Description	Code
• Parking Stand - built-in storage stands.	P
• Side Handle (one side) - electric units except Model A.	HS
• Fork Pockets.	FP
• Low Vacuum Warning System - electric only.	W
• Silicone pads for temperatures - over 200°F to 600°F (Replaces neoprene pads).	S
• Transformers for AC voltage - other than 115 volt.	T
• Custom Pendant - controls all crane and vacuum lifter functions.	Z
• Special vacuum power units.	CONSULT
- Battery (Univac® 330 only)	FACTORY
- Gas	
- Propane	

ADD CODE AS SUFFIX TO MODEL NUMBER
EXAMPLE: DE12V85D3-P to add parking stand

Power-Pac - The Heart of The System

VACUUM POWER-PAC, is in a self contained cabinet that mounts to the top of the load beam and is powered by either electric motor or shop air (venturi unit).

ELECTRIC UNITS FEATURE:

- Vacuum reserve tank - maintains holding power temporarily in the event of a power failure.
- Two button pendant control with 10' cord and plug to user power supply (except Univac® 250).
- Power cabinet has removable covers for easy access.
- Red/green indicator lights (except Univac® 250).
- Circuit breakers for electrical overload protection.



Univac® 250



Univac® 330 - showing indicator lights, gauge, circuit breakers, and power connections.

Electric Motor Driven Pumps Available

UNIVAC® - 250 vacuum generator - 4 C.F.M., dry piston pump, power supply - 115V-1PH-60HZ.

UNIVAC® - 330 vacuum generator - 1/4 H.P., non-lubricated, 4 C.F.M., rotary vane pump, power supply - 115V-1PH-60HZ and optional battery.

UNIVAC® - 1500 vacuum generator - 1-1/2 H.P., non-lubricated, 21 C.F.M., rotary vane pump, power supply - 230/460V-3PH-60HZ.

UNIVAC® - 3000 vacuum generator - 5 H.P., non-lubricated, 55 C.F.M., rotary vane pump, power supply - 230/460V-3PH-60HZ, 230VDC.



Univac® 3000

SHOP AIR (VENTURI) UNITS FEATURE:

- Visual indicator gauges.
- Check valve for positive holding in case of air hose or compressor failure.
- No electric service required.

Shop Air (venturi unit)

V-40 vacuum generator - operates on approximately 50 PSI shop air.



Model "F" with venturi power pac (air powered).

Nominal Surface Area Applications

Model A - Single Pad - Standard Duty

For lightweight material with small square shaped surface. Neither the width or the length should exceed 5 times the pad diameter (see specifications below for pad diameter).

**QUICKSHIP
PROGRAM**



PRODUCT FEATURES:

- Ball mounted vacuum pads.
- Brass fittings.
- Push lock hose (designed for 250 psi).
- Muffler/filter is spin on type for easy change out.

SPECIFICATIONS

Rated Capacity (lbs.)	Wt. (lbs.)	Model Number	Power-Pac	Flared Diameter (in.)
Electric				
170	78	AE1S6	UNIVAC-250	7-1/4
310	80	AE3S8	UNIVAC-250	9-5/8
400	84	AE4V8	UNIVAC-250	10-5/8
600	87	AE6V10	UNIVAC-250	12-1/4
800	95	AE8V12	UNIVAC-250	14-1/4
1000	108	AE10V14	UNIVAC-250	16
1500	202	AE15V16	UNIVAC-250	19
2000	213	AE20V20	UNIVAC-250	23
Shop Air - Venturi				
170	20	AA1S6	V-40	7-1/4
310	22	AA3S8	V-40	9-5/8
400	28	AA4V8	V-40	10-5/8
600	30	AA6V10	V-40	12-1/4
800	33	AA8V12	V-40	14-1/4
1000	51	AA10V14	V-40	16
1500	53	AA15V16	V-40	19
2000	55	AA20V20	V-40	23

Other sizes available, consult factory.

Nominal Surface Area Applications

Model A - Single Pad - Heavy Duty

Single pad units with large or small capacities are used when surface area is at a minimum.



Univac® 330 unit - side view showing vacuum indicator lights and power/control connections.

**QUICKSHIP
PROGRAM**



Single pad unit shown with a 10" diameter sponge pad for lifting semi-porous material.

SPECIFICATIONS

Rated Capacity (lbs.)	Wt. (lbs.)	Model Number	Power-Pac	Flared Diameter (in.)
Electric				
3000	384	AE30V24	UNIVAC-330	27-5/8
Shop Air - Venturi				
3000	71	AA30V24	V-40	27-5/8

Other sizes available, consult factory.

Narrow Applications

Model B - Twin Pad Load Beam - Standard Duty

For lifting smaller rectangular shaped material. Width should not exceed 5 times the pad diameter (see specifications below for pad diameter).

QUICKSHIP PROGRAM

PRODUCT FEATURES:

- Ball mounted vacuum pads.
- Brass fittings.
- Push lock hose (designed for 250 psi).
- Slide valves allow for manual isolation of vacuum pads.
- Muffler/filter is spin on type for easy change out.



SPECIFICATIONS

Add FEET to blank Model Number box to complete code.
Example: 4' load beam BE1S4-

Rated Capacity (lbs.)	Base Wt. @ 4' (lbs.)	Model Number	Power-Pac	Flared Diameter (in.)	Load Beam Length (ft.)			
					4	5	6	8
Electric								
160	130	BE1S4 <input type="text"/>	UNIVAC-250	5	4	5	6	8
340	135	BE3S6 <input type="text"/>	UNIVAC-250	7-1/4	4	5	6	8
620	140	BE6S8 <input type="text"/>	UNIVAC-250	9-5/8	4	5	6	8
800	150	BE8V8 <input type="text"/>	UNIVAC-250	10-5/8	4	5	6	8
1200	230	BE12V10 <input type="text"/>	UNIVAC-250	12-1/4	4	5	6	8
1600	240	BE16V12 <input type="text"/>	UNIVAC-250	14-1/4	4	5	6	8
2000	260	BE20V14 <input type="text"/>	UNIVAC-250	16	4	5	6	8
Shop Air - Venturi								
160	140	BA1S4 <input type="text"/>	V-40	5	4	5	6	8
340	170	BA3S6 <input type="text"/>	V-40	7-1/4	4	5	6	8
620	175	BA6S8 <input type="text"/>	V-40	9-5/8	4	5	6	8
800	180	BA8V8 <input type="text"/>	V-40	10-5/8	4	5	6	8
1200	190	BA12V10 <input type="text"/>	V-40	12-1/4	4	5	6	8
1600	200	BA16V12 <input type="text"/>	V-40	14-1/4	4	5	6	8
2000	210	BA20V14 <input type="text"/>	V-40	16	4	5	6	8

Other sizes available, consult factory.

Narrow Applications

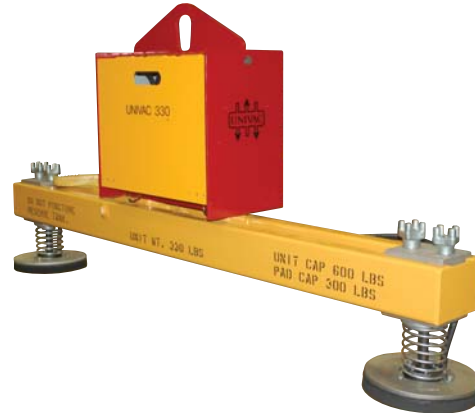
Model B - Twin Pad Load Beam - Heavy Duty

For lifting smaller rectangular shaped material. Width should not exceed 5 times the pad diameter (see specifications below for pad diameter).



Custom designed bail for large crane hook.

QUICKSHIP PROGRAM



Shown with sponge pads for handling rough or semi-porous material.



Twin pad unit with sling for long heavy rigid material and silicone vacuum pads for handling hot plate.

SPECIFICATIONS

Add FEET to blank Model Number box to complete code.
Example: 4' load beam BE30V16

Rated Capacity (lbs.)	Base Wt. @ 4' (lbs.)	Model Number	Power-Pac	Flared Diameter (in.)	Load Beam Length (ft.)			
					4	5	6	8
Electric								
3000	355	BE30V16 <input type="text"/>	UNIVAC-330	19	4	5	6	8
4000	375	BE40V20 <input type="text"/>	UNIVAC-330	23	4	5	6	8
Shop Air - Venturi								
3000	225	BA30V16 <input type="text"/>	V-40	19	4	5	6	8
4000	250	BA40V20 <input type="text"/>	V-40	23	4	5	6	8

Other sizes available, consult factory.

Narrow Applications

Model C - Load Beam with 4 Inline Pads - Standard Duty

For lifting long, narrow sized material. Width should not exceed 5 times the pad diameter (see specifications below for pad diameter).

QUICKSHIP PROGRAM

PRODUCT FEATURES:

- Ball mounted vacuum pads.
- Brass fittings.
- Push lock hose (designed for 250 psi).
- Slide valves allow for manual isolation of vacuum pads.
- Muffler/filter is spin on type for easy change out.



Add FEET to blank Model Number box to complete code.
 Example: 5' load beam - CE12S8 LENGTH

SPECIFICATIONS

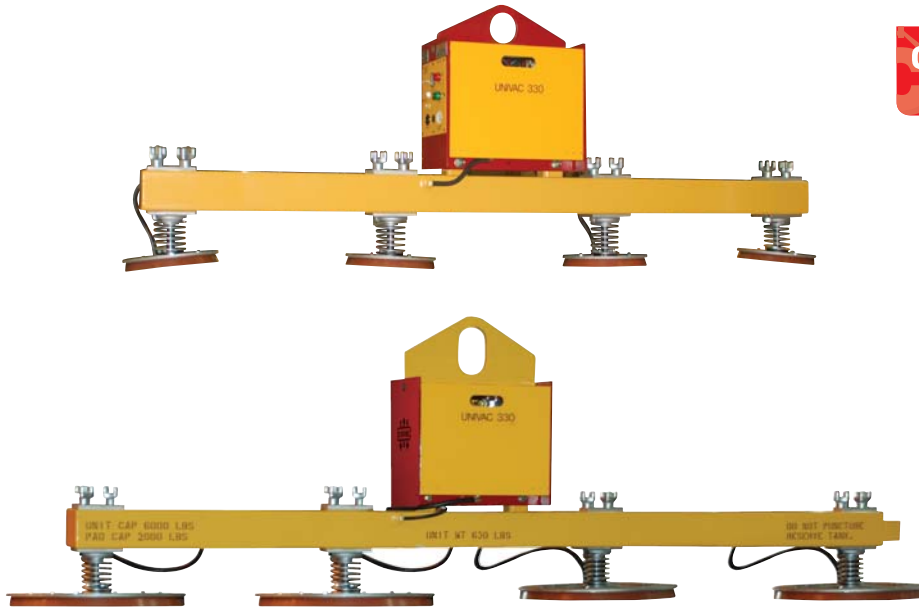
Rated Capacity (lbs.)	Base Wt. @ 5' (lbs.)	Model Number	Power-Pac	Flared Diameter (in.)	Load Beam Length (ft.)						
					5	6	8	10	12	15	20
Electric											
680	203	CE6S6 <input type="checkbox"/>	UNIVAC-250	7-1/4	5	6	8	10	12	15	20
1240	223	CE12S8 <input type="checkbox"/>	UNIVAC-250	9-5/8	5	6	8	10	12	15	20
1600	280	CE16V8 <input type="checkbox"/>	UNIVAC-250	10-5/8	5	6	8	10	12	15	20
2400	295	CE24V10 <input type="checkbox"/>	UNIVAC-250	12-1/4	5	6	8	10	12	15	20
Shop Air - Venturi											
680	225	CA6S6 <input type="checkbox"/>	V-40	7-1/4	5	6	8	10	12	15	20
1240	230	CA12S8 <input type="checkbox"/>	V-40	9-5/8	5	6	8	10	12	15	20
1600	250	CA16V8 <input type="checkbox"/>	V-40	10-5/8	5	6	8	10	12	15	20
2400	265	CA24V10 <input type="checkbox"/>	V-40	12-1/4	5	6	8	10	12	15	20

Other sizes available, consult factory.

Narrow Applications

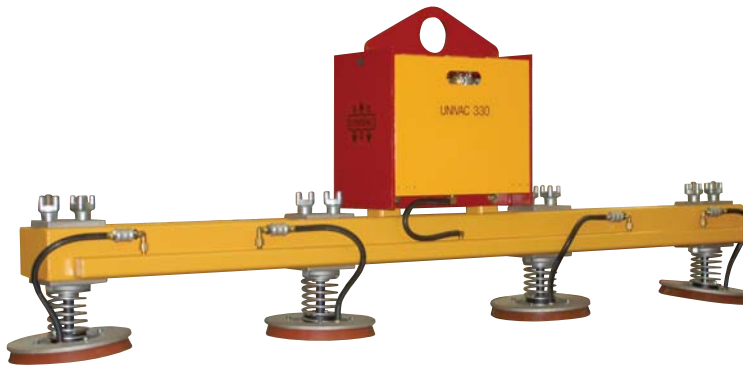
Model C - Load Beam with 4 Inline Pads - Heavy Duty

For lifting long, narrow sized material. Width should not exceed 5 times the pad diameter (see specifications below for pad diameter).



QUICKSHIP PROGRAM

In line units to handle long narrow material.



Individual pads can be isolated from the system with the standard manual slide valves.

SPECIFICATIONS

Add FEET to blank Model Number box to complete code.
Example: 5' load beam - CE32V12 **LENGTH**

Rated Capacity (lbs.)	Base Wt. @ 5' (lbs.)	Model Number	Power-Pac	Flared Diameter (in.)	Load Beam Length (ft.)						
					5	6	8	10	12	15	20
Electric											
3200	410	CE32V12 <input type="checkbox"/>	UNIVAC-330	14-1/4	5	6	8	10	12	15	20
4000	430	CE40V14 <input type="checkbox"/>	UNIVAC-330	16	5	6	8	10	12	15	20
6000	465	CE60V16 <input type="checkbox"/>	UNIVAC-330	19	—	6	8	10	12	15	20
Shop Air - Venturi											
3200	280	CA32V12 <input type="checkbox"/>	V-40	14-1/4	5	6	8	10	12	15	20
4000	315	CA40V14 <input type="checkbox"/>	V-40	16	5	6	8	10	12	15	20

Other sizes available, consult factory.

Wide Applications

Model D - Twin Crossarms with 4 Pads - Standard Duty

For lifting wide or thin material. The crossarms make the load easier to balance.

QUICKSHIP PROGRAM

PRODUCT FEATURES:

- Ball mounted vacuum pads.
- Brass fittings.
- Push lock hose (designed for 250 psi).
- Slide valves allow for manual isolation of vacuum pads.
- Muffler/filter is spin on type for easy change out.



Model DE6S6-6-D3 shown.

Univac® 250 for capacities less than 1,240 pounds.



Model DE16V8-6-D3 shown

Univac® 250 for capacities of 1,240 to 2400 pounds.

SPECIFICATIONS

Add FEET to blank Model Number box to complete code.
Example: 5' load beam - DA16V8-**LENGTH**-D3

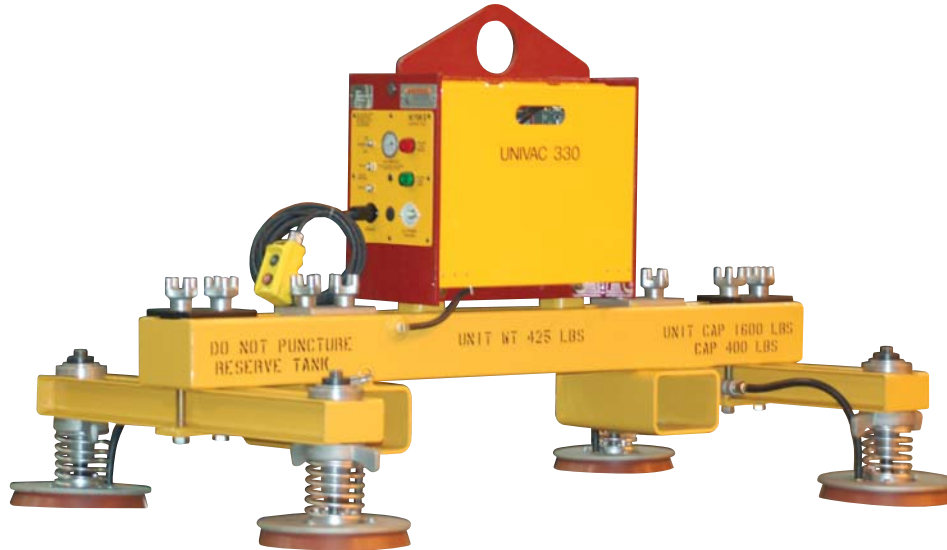
Rated Capacity (lbs.)	Base Wt. @ 5' (lbs.)	Model Number	Power-Pac	Flared Diameter (in.)	Load Beam Length (ft.)		
					5	6	8
Electric							
With 3' Crossarm Beams							
680	290	DE6S6 <input type="checkbox"/> D3	UNIVAC-250	7-1/4	5	6	8
1240	310	DE12S8 <input type="checkbox"/> D3	UNIVAC-250	9-5/8	5	6	8
1600	350	DE16V8 <input type="checkbox"/> D3	UNIVAC-250	10-5/8	5	6	8
2400	365	DE24V10 <input type="checkbox"/> D3	UNIVAC-250	12-1/4	5	6	8
With 4' Crossarm Beams							
680	300	DE6S6 <input type="checkbox"/> D4	UNIVAC-250	7-1/4	5	6	8
1240	315	DE12S8 <input type="checkbox"/> D4	UNIVAC-250	9-5/8	5	6	8
1600	360	DE16V8 <input type="checkbox"/> D4	UNIVAC-250	10-5/8	5	6	8
2400	375	DE24V10 <input type="checkbox"/> D4	UNIVAC-250	12-1/4	5	6	8
Shop Air - Venturi							
With 3' Crossarm Beams							
680	315	DA6S6 <input type="checkbox"/> D3	V-40	7-1/4	5	6	8
1240	315	DA12S8 <input type="checkbox"/> D3	V-40	9-5/8	5	6	8
1600	320	DA16V8 <input type="checkbox"/> D3	V-40	10-5/8	5	6	8
2400	335	DA24V10 <input type="checkbox"/> D3	V-40	12-1/4	5	6	8
With 4' Crossarm Beams							
680	325	DA6S6 <input type="checkbox"/> D4	V-40	7-1/4	5	6	8
1240	325	DA12S8 <input type="checkbox"/> D4	V-40	9-5/8	5	6	8
1600	330	DA16V8 <input type="checkbox"/> D4	V-40	10-5/8	5	6	8
2400	345	DA24V10 <input type="checkbox"/> D4	V-40	12-1/4	5	6	8

Other sizes available, consult factory.

Wide Applications

Model D - Twin Crossarms with 4 Pads - Heavy Duty

For lifting wide or thin material. Crossarms allow for extra stability for wider material and reduce amount of deflection for thinner material.



Unit shown with optional fork pockets.

SPECIFICATIONS

Add FEET to blank Model Number box to complete code.
Example: 5' load beam - DE32V12 LENGTH | D3

Rated Capacity (lbs.)	Base Wt. @ 5' (lbs.)	Model Number	Power-Pac	Flared Diameter (in.)	Load Beam Length (ft.)		
					5	6	8
Electric							
With 3' Crossarm Beams							
3200	485	DE32V12 <input type="text"/> D3	UNIVAC-330	14-1/4	5	6	8
4000	520	DE40V14 <input type="text"/> D3	UNIVAC-330	16	5	6	8
6000	535	DE60V16 <input type="text"/> D3	UNIVAC-330	19	—	6	8
8000	970	DE80V20 <input type="text"/> D3	*UNIVAC-1500	23	—	—	8
With 4' Crossarm Beams							
3200	495	DE32V12 <input type="text"/> D4	UNIVAC-330	14-1/4	5	6	8
4000	520	DE40V14 <input type="text"/> D4	UNIVAC-330	16	5	6	8
6000	545	DE60V16 <input type="text"/> D4	UNIVAC-330	19	—	6	8
8000	980	DE80V20 <input type="text"/> D4	*UNIVAC-1500	23	—	—	8
Shop Air - Venturi							
With 3' Crossarm Beams							
3200	355	DA32V12 <input type="text"/> D3	V-40	14-1/4	5	6	8
4000	380	DA40V14 <input type="text"/> D3	V-40	16	5	6	8
With 4' Crossarm Beams							
3200	365	DA32V12 <input type="text"/> D4	V-40	14-1/4	5	6	8
4000	390	DA40V14 <input type="text"/> D4	V-40	16	5	6	8

Other sizes available, consult factory.

* NOTE: 230/460V Power Pac.

Wide Applications

Model E - Triple Crossarms with 6 Pads - Standard Duty

For lifting long, wide, and moderate weight material or to provide increased support of thin material.

PRODUCT FEATURES:

- Ball mounted vacuum pads.
- Brass fittings.
- Push lock hose (designed for 250 psi).
- Slide valves allow for manual isolation of vacuum pads.
- Muffler/filter is spin on type for easy change out.



Add FEET to blank Model Number box to complete code.
Example: 5' load beam - EE24V8 T4

SPECIFICATIONS

Rated Capacity (lbs.)	Base Wt. @ 5' (lbs.)	Model Number	Power-Pac	Flared Diameter (in.)	Load Beam Length (ft.)					
					5	6	8	10	12	15
Electric										
With 3' Crossarm Beams										
480	405	EE4S4 <input type="checkbox"/> T3	UNIVAC-250	5	5	6	8	10	12	15
1020	410	EE10S6 <input type="checkbox"/> T3	UNIVAC-250	7-1/4	5	6	8	10	12	15
1860	420	EE18S8 <input type="checkbox"/> T3	UNIVAC-250	9-5/8	5	6	8	10	12	15
2400	435	EE24V8 <input type="checkbox"/> T3	UNIVAC-250	10-5/8	5	6	8	10	12	15
With 4' Crossarm Beams										
480	415	EE4S4 <input type="checkbox"/> T4	UNIVAC-250	5	5	6	8	10	12	15
1020	420	EE10S6 <input type="checkbox"/> T4	UNIVAC-250	7-1/4	5	6	8	10	12	15
1860	430	EE18S8 <input type="checkbox"/> T4	UNIVAC-250	9-5/8	5	6	8	10	12	15
2400	445	EE24V8 <input type="checkbox"/> T4	UNIVAC-250	10-5/8	5	6	8	10	12	15
Shop Air - Venturi										
With 3' Crossarm Beams										
480	380	EA4S4 <input type="checkbox"/> T3	V-40	5	5	6	8	10	12	15
1020	385	EA10S6 <input type="checkbox"/> T3	V-40	7-1/4	5	6	8	10	12	15
1860	400	EA18S8 <input type="checkbox"/> T3	V-40	9-5/8	5	6	8	10	12	15
2400	420	EA24V8 <input type="checkbox"/> T3	V-40	10-5/8	5	6	8	10	12	15
With 4' Crossarm Beams										
480	390	EA4S4 <input type="checkbox"/> T4	V-40	5	5	6	8	10	12	15
1020	395	EA10S6 <input type="checkbox"/> T4	V-40	7-1/4	5	6	8	10	12	15
1860	420	EA18S8 <input type="checkbox"/> T4	V-40	9-5/8	5	6	8	10	12	15
2400	430	EA24V8 <input type="checkbox"/> T4	V-40	10-5/8	5	6	8	10	12	15

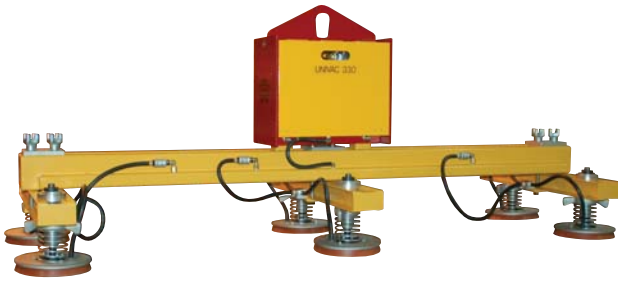
Other sizes available, consult factory.

NOTE: All venturi units include a side handle.

Wide Applications

Model E - Triple Crossarms with 6 Pads - Heavy Duty

For lifting long, wide, and moderate weight material or to provide increased support of thin material.



Manual slide valves shut off individual crossarms allowing the operator to easily customize the lifter to match the load.



Above lifter utilizing a parking stand (Option P), side handle (Option HS), and transformer (Option T).



Model EE80V16-16-T4 shown with optional twin bails

SPECIFICATIONS

Add FEET to blank Model Number box to complete code.
Example: 5' load beam - EE36V10 [LENGTH] T4

Rated Capacity (lbs.)	Base Wt. @ 5' (lbs.)	Model Number	Power-Pac	Flared Diameter (in.)	Load Beam Length (ft.)					
					5	6	8	10	12	15
Electric										
With 3' Crossarm Beams										
3600	560	EE36V10 <input type="checkbox"/> T3	UNIVAC-330	12-1/4	5	6	8	10	12	15
4800	580	EE48V12 <input type="checkbox"/> T3	UNIVAC-330	14-1/4	5	6	8	10	12	15
6000	910	EE60V14 <input type="checkbox"/> T3	UNIVAC-330	16	5	6	8	10	12	15
9000	930	EE90V16 <input type="checkbox"/> T3	*UNIVAC-1500	19	5	6	8	10	12	15
12000	1216	EE120V20 <input type="checkbox"/> T3	*UNIVAC-1500	23	5	6	8	10	12	15
With 4' Crossarm Beams										
3600	570	EE36V10 <input type="checkbox"/> T4	UNIVAC-330	12-1/4	5	6	8	10	12	15
4800	590	EE48V12 <input type="checkbox"/> T4	UNIVAC-330	14-1/4	5	6	8	10	12	15
6000	920	EE60V14 <input type="checkbox"/> T4	UNIVAC-330	16	5	6	8	10	12	15
9000	940	EE90V16 <input type="checkbox"/> T4	*UNIVAC-1500	19	5	6	8	10	12	15
12000	1226	EE120V20 <input type="checkbox"/> T4	*UNIVAC-1500	23	5	6	8	10	12	15
Shop Air - Venturi										
With 3' Crossarm Beams										
3600	430	EA36V10 <input type="checkbox"/> T3	V-40	12-1/4	5	6	8	10	12	15
With 4' Crossarm Beams										
3600	440	EA36V10 <input type="checkbox"/> T4	V-40	12-1/4	5	6	8	10	12	15

Other sizes available, consult factory.

*NOTE: 230/460V

Wide Applications

Model F - Quad Crossarms with 8 Pads - Standard Duty

For lifting longer, wider and heavier weight material or to provide increased support of thin material.

PRODUCT FEATURES - ECONOMY & INDUSTRIAL:

- Ball mounted vacuum pads.
- Brass fittings.
- Push lock hose (designed for 250 psi).
- Slide valves allow for manual isolation of vacuum pads.
- Muffler/filter is spin on type for easy change out.



SPECIFICATIONS

Add FEET to blank Model Number box to complete code.
Example: 6' load beam - FA6S4 Q3

Rated Capacity (lbs.)	Base Wt. @ 6' (lbs.)	Model Number	Power-Pac	Flared Diameter (in.)	Load Beam Length (ft.)					
					6	8	10	12	15	20
Electric										
With 3' Crossarm Beams										
640	525	FE6S4 <input type="checkbox"/> Q3	UNIVAC-250	5	6	8	10	12	15	20
1360	530	FE13S6 <input type="checkbox"/> Q3	UNIVAC-250	7-1/4	6	8	10	12	15	20
2400	540	FE24S8 <input type="checkbox"/> Q3	UNIVAC-250	9-5/8	6	8	10	12	15	20
With 4' Crossarm Beams										
640	535	FE6S4 <input type="checkbox"/> Q4	UNIVAC-250	5	6	8	10	12	15	20
1360	540	FE13S6 <input type="checkbox"/> Q4	UNIVAC-250	7-1/4	6	8	10	12	15	20
2400	550	FE24S8 <input type="checkbox"/> Q4	UNIVAC-250	9-5/8	6	8	10	12	15	20
With 5' Crossarm Beams										
640	545	FE6S4 <input type="checkbox"/> Q5	UNIVAC-250	5	6	8	10	12	15	20
1360	550	FE13S6 <input type="checkbox"/> Q5	UNIVAC-250	7-1/4	6	8	10	12	15	20
2400	570	FE24S8 <input type="checkbox"/> Q5	UNIVAC-250	9-5/8	6	8	10	12	15	20
Shop Air - Venturi										
With 3' Crossarm Beams										
640	475	FA6S4 <input type="checkbox"/> Q3	V-40	5	6	8	10	12	15	20
1360	490	FA13S6 <input type="checkbox"/> Q3	V-40	7-1/4	6	8	10	12	15	20
2400	520	FA24S8 <input type="checkbox"/> Q3	V-40	9-5/8	6	8	10	12	15	20
With 4' Crossarm Beams										
640	485	FA6S4 <input type="checkbox"/> Q4	V-40	5	6	8	10	12	15	20
1360	500	FA13S6 <input type="checkbox"/> Q4	V-40	7-1/4	6	8	10	12	15	20
2400	530	FA24S8 <input type="checkbox"/> Q4	V-40	9-5/8	6	8	10	12	15	20
With 5' Crossarm Beams										
640	495	FA6S4 <input type="checkbox"/> Q5	V-40	5	6	8	10	12	15	20
1360	510	FA13S6 <input type="checkbox"/> Q5	V-40	7-1/4	6	8	10	12	15	20
2400	540	FA24S8 <input type="checkbox"/> Q5	V-40	9-5/8	6	8	10	12	15	20

Other sizes available, consult factory.

NOTE: All venturi units include a side handle.

Wide Applications

Model F - Quad Crossarms with 8 Pads - Heavy Duty

For lifting longer, wider and heavier weight material or to provide increased support of thin material.



Sponge vacuum pads used to handle rough material such as tread plate.



Crossarms are adjustable along load beam; and pads can be adjusted along the crossarms, providing maximum flexibility.

SPECIFICATIONS

Add FEET to blank Model Number box to complete code.
Example: 6' load beam - FE32V8 [LENGTH] Q3

Rated Capacity (lbs.)	Base Wt. @ 6' (lbs.)	Model Number	Power-Pac	Flared Diameter (in.)	Load Beam Length (ft.)					
					6	8	10	12	15	20
Electric										
With 3' Crossarm Beams										
3200	670	FE32V8 <input type="checkbox"/> Q3	UNIVAC-330	10-5/8	6	8	10	12	15	20
4800	700	FE48V10 <input type="checkbox"/> Q3	UNIVAC-330	12-1/4	6	8	10	12	15	20
6400	735	FE64V12 <input type="checkbox"/> Q3	UNIVAC-330	14-1/4	6	8	10	12	15	20
8000	795	FE80V14 <input type="checkbox"/> Q3	UNIVAC-330	16	6	8	10	12	15	20
12000	1260	FE120V16 <input type="checkbox"/> Q3	*UNIVAC-1500	19	—	—	10	12	15	20
15200	1490	FE152V20 <input type="checkbox"/> Q3	*UNIVAC-1500	23	—	—	10	12	15	20
With 4' Crossarm Beams										
3200	680	FE32V8 <input type="checkbox"/> Q4	UNIVAC-330	10-5/8	6	8	10	12	15	20
4800	710	FE48V10 <input type="checkbox"/> Q4	UNIVAC-330	12-1/4	6	8	10	12	15	20
6400	745	FE64V12 <input type="checkbox"/> Q4	UNIVAC-330	14-1/4	6	8	10	12	15	20
8000	810	FE80V14 <input type="checkbox"/> Q4	UNIVAC-330	16	6	8	10	12	15	20
12000	1270	FE120V16 <input type="checkbox"/> Q4	*UNIVAC-1500	19	—	—	10	12	15	20
15200	1500	FE152V20 <input type="checkbox"/> Q4	*UNIVAC-1500	23	—	—	10	12	15	20
With 5' Crossarm Beams										
3200	690	FE32V8 <input type="checkbox"/> Q5	UNIVAC-330	10-5/8	6	8	10	12	15	20
4800	720	FE48V10 <input type="checkbox"/> Q5	UNIVAC-330	12-1/4	6	8	10	12	15	20
6400	755	FE64V12 <input type="checkbox"/> Q5	UNIVAC-330	14-1/4	6	8	10	12	15	20
8000	820	FE80V14 <input type="checkbox"/> Q5	UNIVAC-330	16	6	8	10	12	15	20
12000	1280	FE120V16 <input type="checkbox"/> Q5	*UNIVAC-1500	19	—	—	10	12	15	20
15200	1510	FE152V20 <input type="checkbox"/> Q5	*UNIVAC-1500	23	—	—	10	12	15	20
Shop Air - Venturi										
With 3' Crossarm Beams										
3200	540	FA32V8 <input type="checkbox"/> Q3	V-40	10-5/8	6	8	10	12	15	20
With 4' Crossarm Beams										
3200	550	FA32V8 <input type="checkbox"/> Q4	V-40	10-5/8	6	8	10	12	15	20
With 5' Crossarm Beams										
3200	560	FA32V8 <input type="checkbox"/> Q5	V-40	10-5/8	6	8	10	12	15	20

Other sizes available, consult factory.

*NOTE: 230/460V

Vacuum Upenders

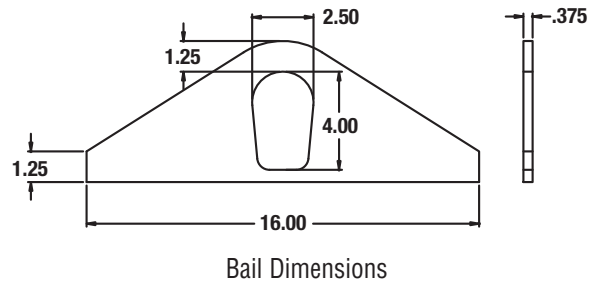
Model U - 90° Tilt Upender/Downender - Standard Duty

Caldwell's new Vacuum Upender can be used to handle numerous non-porous materials. Eliminate the additional work pieces and manpower required to properly position your product.



PRODUCT FEATURES:

- Standard 110V plug-in style power supply for easy installation.
- Vacuum reservoir maintains load in the event of power loss.
- Fully adjustable to handle varying lengths/widths of material.
- Linear actuator provides smooth, continuous tilting.
- Color-coded vacuum level indicator gauge is easy to read.
- Adjustable guide handle for ergonomic operation.
- Non-marking neoprene vacuum pads protect the load from damage.



Twin Crossarm

Twin Crossarm Models have four pads and are available with main beam lengths of 4', 6', or 8' and crossarm lengths of 3', 4' or 5'.

SPECIFICATIONS

Rated Capacity (lbs.)	Number of Pads	Pad Diameter (in.)	Model Number
Non-Glass Material			
100	4	4	UE1S3-__-D__
340	4	7-1/4	UE3S6-__-D__
620	4	9-5/8	UE6S8-__-D__
800	4	10-5/8	UE8V8-__-D__
1200	4	12-1/4	UE12V10-__-D__
1600	4	14-1/4	UE16V12-__-D__
2000	4	16	UE20V14-__-D__
Glass Only			
180	4	6-7/8	UE1M5-__-D__
500	4	9-1/4	UE5M8-__-D__

Other sizes available, consult factory.

Please specify desired length where __ is in the Model Number i.e. UE6S8-8-D4 has an 8' main beam and two 4' crossarms.

Quad Crossarm

Quad Crossarm Models have eight pads and are available with main beam lengths of 6', 8', or 10' and crossarm lengths of 3', 4' or 5'.

SPECIFICATIONS

Rated Capacity (lbs.)	Number of Pads	Pad Diameter (in.)	Model Number
Non-Glass Material			
200	8	4	UE2S3-__-Q__
320	8	5	UE3S4-__-Q__
680	8	7-1/4	UE6S6-__-Q__
1240	8	9-5/8	UE12S8-__-Q__
*1600	8	10-5/8	UE16V8-__-Q__
*2000	8	12-1/4	UE24V10-__-Q__
Glass Only			
180	8	4-7/8	UE1M4-__-Q__
360	8	6-7/8	UE3M5-__-Q__
1000	8	9-1/4	UE10M8-__-Q__

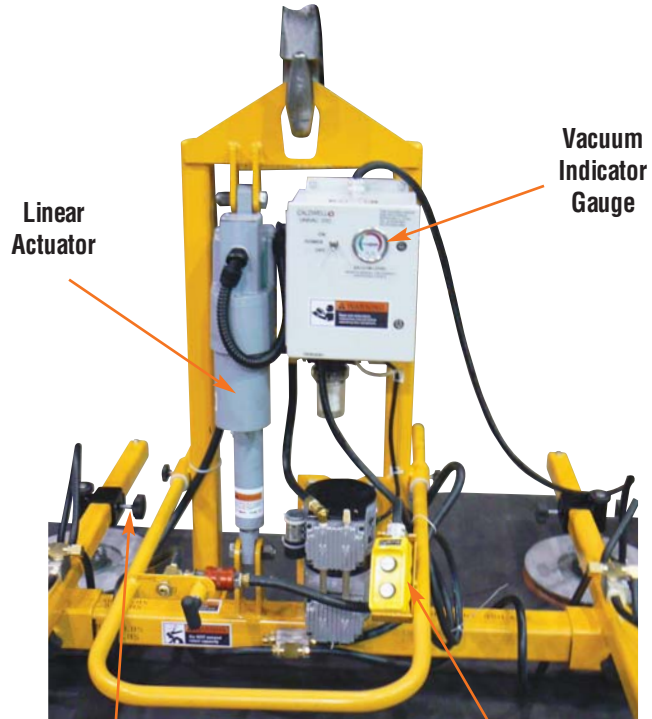
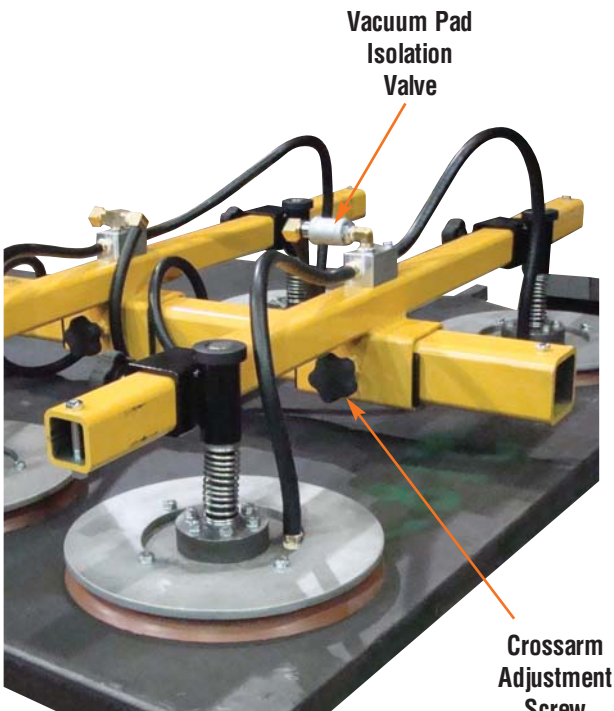
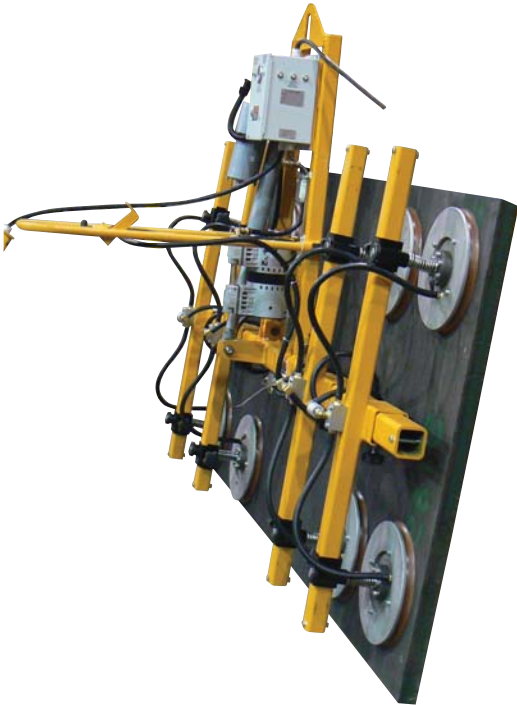
Other sizes available, consult factory.

Please specify desired length where __ is in the Model Number i.e. UE12S8-10-Q3 has a 10' main beam and two 3' crossarms.

*10' main beam will be our heavy duty design.

Vacuum Upenders

Model U - 90° Tilt Upender/Downender - Standard Duty



OPTION: Audible Low Vacuum Warning Device.

Vacuum Upenders

Model T - 90° Tilt Upender/Downender - Heavy Duty

Lifting and rotation to 90° for assembly area, vertical storage, inspection, and glass handling applications.



PRODUCT FEATURES:

- Linear actuator provides smooth continuous tilting.
- Electric powered only.
- Mold on pads are used for glass applications.

SPECIFICATIONS

Rated Capacity (lbs.)†	Model Number	Power-Pac	Neoprene Pad Diameter (in.)	To Complete Model Number Code								
				Add FEET to 1st Blank Model Number Box					Add FEET to 2nd blank Model Number Box			
				Load Beam Length (ft.)					Crossarm Beams Length (ft.)			
6	8	10	12	15	3	4	5					
Non-glass material												
Twin crossarms with 4 pads												
340	TE3S6 <input type="checkbox"/> D <input type="checkbox"/>	UNIVAC-330	7-1/4	6	8	10	12	15	3	4	5	
800	TE8V8 <input type="checkbox"/> D <input type="checkbox"/>	UNIVAC-330	10-5/8	6	8	10	12	15	3	4	5	
1200	TE12V10 <input type="checkbox"/> D <input type="checkbox"/>	UNIVAC-330	12-1/4	6	8	10	12	15	3	4	5	
1600	TE16V12 <input type="checkbox"/> D <input type="checkbox"/>	UNIVAC-330	14-1/4	6	8	10	12	15	3	4	5	
2800	TE28V16 <input type="checkbox"/> D <input type="checkbox"/>	UNIVAC-330	19	6	8	10	12	15	3	4	5	
4000	TE40V20 <input type="checkbox"/> D <input type="checkbox"/>	UNIVAC-330	23	—	8	10	12	15	3	4	5	
Quad crossarms with 8 pads												
340	TE3S4 <input type="checkbox"/> Q <input type="checkbox"/>	UNIVAC-330	5	6	8	10	12	15	3	4	5	
680	TE6S6 <input type="checkbox"/> Q <input type="checkbox"/>	UNIVAC-330	7-1/4	6	8	10	12	15	3	4	5	
1600	TE32V8 <input type="checkbox"/> Q <input type="checkbox"/>	UNIVAC-330	10-5/8	6	8	10	12	15	3	4	5	
2400	TE24V10 <input type="checkbox"/> Q <input type="checkbox"/>	UNIVAC-330	12-1/4	6	8	10	12	15	3	4	5	
3200	TE64V12 <input type="checkbox"/> Q <input type="checkbox"/>	UNIVAC-330	14-1/4	6	8	10	12	15	3	4	5	
5600	TE56V16 <input type="checkbox"/> Q <input type="checkbox"/>	*UNIVAC-1500	19	6	8	10	12	15	3	4	5	
8000	TE80V20 <input type="checkbox"/> Q <input type="checkbox"/>	*UNIVAC-1500	23	—	8	10	12	15	3	4	5	
Glass only												
Twin crossarms with 6 pads												
			Mold on Pad									
270	TE2M5 <input type="checkbox"/> D <input type="checkbox"/>	UNIVAC-330	6-7/8	6	8	10	12	15	3	4	5	
750	TE7M8 <input type="checkbox"/> D <input type="checkbox"/>	UNIVAC-330	9-1/4	6	8	10	12	15	3	4	5	
Quad crossarms with 12 pads												
540	TE5M5 <input type="checkbox"/> Q <input type="checkbox"/>	UNIVAC-330	6-7/8	6	8	10	12	15	3	4	5	
1500	TE15M8 <input type="checkbox"/> Q <input type="checkbox"/>	UNIVAC-330	9-1/4	6	8	10	12	15	3	4	5	

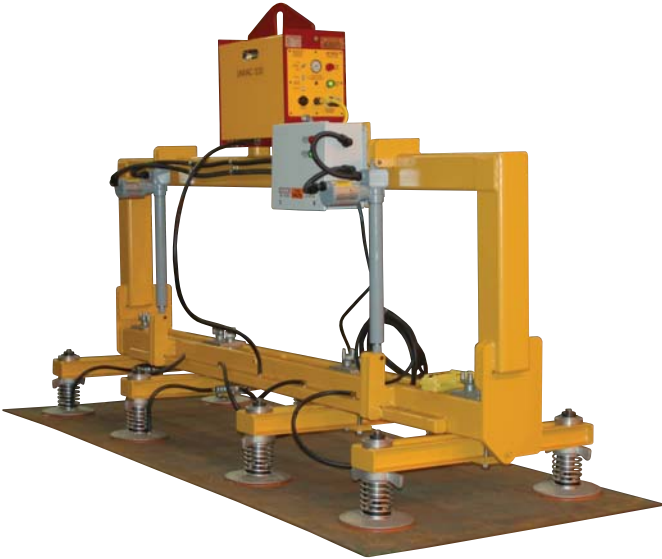
Other sizes available, consult factory.

*NOTE: 230/460V

Vacuum Upenders

Model T - 90° Tilt Upender/Downender - Heavy Duty

Ideal for material that needs to be tilted up or down for inspection or placement into shipping containers.



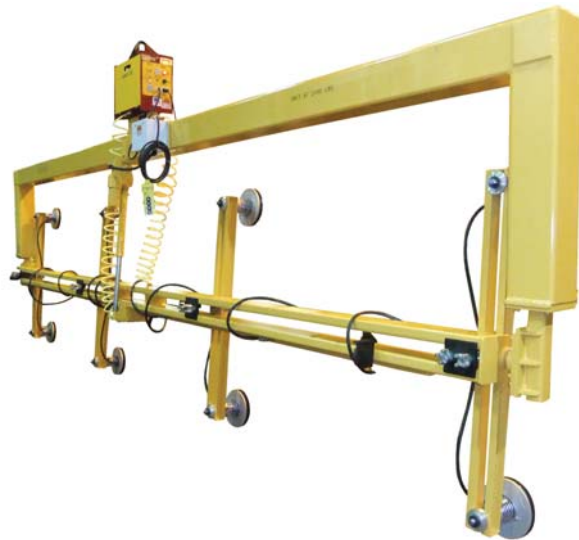
Steel plate shown horizontal.



Electric upenders allow the operator to position the plate anywhere from 0 to 90 degrees.



Electric upender shown horizontal.



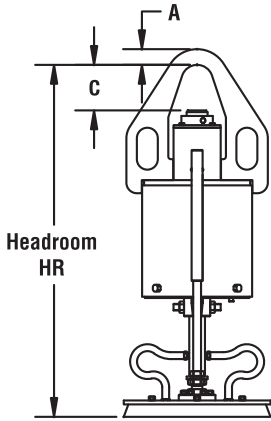
Electric upender shown at 90° position.

Mechanical Vacuum Lifters

Mechanical Vacuum Lifter

The patented, revolutionary design of our vacuum generator requires no electrical or air line connections, just hang it on your hook and go! This is an economical solution for a wide range of applications where bringing power to the lifter is not practical or feasible—even the warning system requires no power. This virtually maintenance free design conforms to ASME standards.

QUICKSHIP PROGRAM



Patent No. 7,543,868

PRODUCT FEATURES:

- No outside power source is required.
- Color-coded vacuum indicator rods alert the operator of vacuum level.
GREEN = Safe to lift with additional vacuum available.
YELLOW = Minimum vacuum remaining, begin to set load down.
RED = Hazardous condition.
- Auto cycling valve provides a hands-free attach and release function.
- Large lifting bail accommodates a wide range of hook sizes.
- The Caldwell Mechanical Vacuum Lifter has very few moving parts that will need attention from the maintenance department.
- Standard sizes shown, please contact factory for additional capacities and configurations.

SPECIFICATIONS - Single Pad Models

Rated Capacity (lbs.)	Number of Pads	Pad Diameter (in.)	Dimensions (in.)			Weight (lbs.)	Model Number
			A	C	HR		
300	1	9-5/8	0.75	3.34	35	75	AM3S8
800	1	14-1/4	1.5	4.3	37.75	115	AM8V12
2000	1	23	1.5	4.3	39.39	290	AM20V20



SPECIFICATIONS - Twin Pad Inline Models

Rated Capacity (lbs.)	Number of Pads	Pad Diameter (in.)	Main Beam Length (ft.)	Dimensions (in.)			Weight (lbs.)	Model Number
				A	C	HR		
300	2	7-1/4	4	0.75	3.34	44-1/4	100	BM3S6-4
			6				105	BM3S6-6
			4				215	BM8V8-4
800	2	10-5/8	5	1.5	4.3	52-1/4	226	BM8V8-5
			6				237	BM8V8-5
			4				424	BM16V14-4
1600	2	16	6	1.5	4.3	63	466	BM16V14-6
			8				508	BM16V14-8

Mechanical Vacuum Lifters

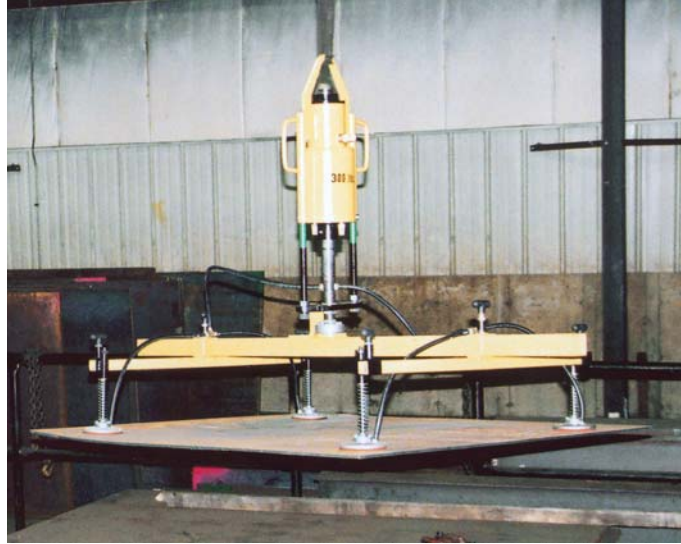


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2014-2016 Master Catalog

SPECIFICATIONS - Four Pad Inline Models

Rated Capacity (lbs.)	Number of Pads	Pad Diameter (in.)	Main Beam Length (ft.)	Dimensions (in.)			Weight (lbs.)	Model Number
				A	C	HR		
600	4	7-1/4	5	1.5	4.3	52-1/4	230	CM6S6-5
			6				241	CM6S6-6
			8				262	CM6S6-8
800	4	9-5/8	5	1.5	4.3	52-1/4	235	CM8S8-5
			6				246	CM8S8-6
			8				267	CM8S8-8
1500	4	12-1/4	6	1.5	4.3	63	482	CM15V10-6
			8				524	CM15V10-8
			10				566	CM15V10-10



SPECIFICATIONS - Twin Crossarm Models

Rated Capacity (lbs.)	Number of Pads	Pad Diameter (in.)	Main Beam Length (ft.)	Dimensions (in.)			Weight (lbs.)	Model Number*
				A	C	HR		
300	4	5	4	0.75	3.34	44-1/4	110	DM3S4-4-D_
			6				115	DM3S4-6-D_
600	4	7-1/4	4	1.5	4.3	54-1/2	240	DM6S6-4-D_
			6				256	DM6S6-6-D_
			8				272	DM6S6-8-D_
800	4	9-5/8	4	1.5	4.3	54-1/2	245	DM8S8-4-D_
			6				261	DM8S8-6-D_
			8				277	DM8S8-8-D_
1500	4	12-1/2	4	1.5	4.3	66	532	DM15V10-4-D_
			6				558	DM15V10-6-D_
			8				600	DM15V10-8-D_
			10				642	DM15V10-10-D_

SPECIFICATIONS - Triple Crossarm Models

Rated Capacity (lbs.)	Number of Pads	Pad Diameter (in.)	Main Beam Length (ft.)	Dimensions (in.)			Weight (lbs.)	Model Number*
				A	C	HR		
1500	6	10-5/8	4	1.5	4.3	66	550	EM15V8-4-T_
			6				568	EM15V8-6-T_
			8				610	EM15V8-8-T_
			10				652	EM15V8-10-T_

* Specify crossarm length where _ is in Model Number.
i.e. DM6S6-6-D3 would have a 6' main beam and 3' crossarms.
Other sizes available, please consult factory.

Specialty Applications

Specialty Vacuum Applications



Heavy duty vacuum lifter with vacuum pads mounted on wheeled trolleys for ease of pad adjustment.



Vacuum unit with rectangular vacuum pads for long narrow steel plate applications.



Hi-temperature vacuum lifter for moving hot aluminum from the rolling line to the cooling stack.



This six-pad vacuum lifter, dedicated to a finish shear, has high twin bails for added stability.

Specialty Applications

Specialty Vacuum Applications



Submersible vacuum lifter can pick and place aircraft aluminum plate from under water in an ultrasonic testing tank.



Custom 33" square pad vacuum lifter used on a shear line.



Auto-attach/release bail on this vacuum lifter allows for hands-free operation. Available as 6,000 pounds single pad or 12,000 pound dual pad units, these 33" square pads are designed for handling material in steel and aluminum mills.



Radio controlled, 20,000 pound capacity unit for loading a burn table for a major steel producer.



Bridge truss type unit used by a major aluminum producer to load finished aircraft wing skins into shipping container.

Specialty Applications

Side Grab Manipulator Vacuum Lifter

Designed to manipulate 180° for production, inspection and assembly applications.



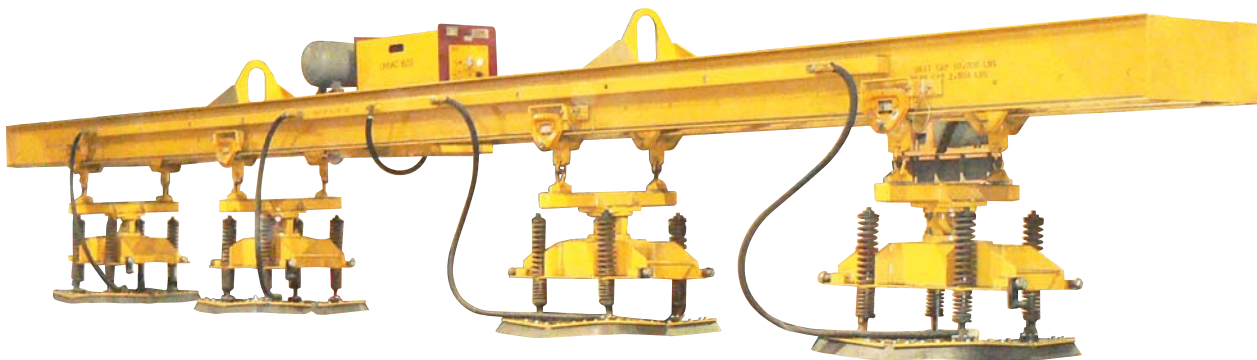
PRODUCT FEATURES:

- Electric or venturi power available.
- Manual or motorized product rotation.
- Adjustable for various load widths.
- Simple push button controls.

Custom designed per application

Variable Size Sheet Vacuum Lifter

Designed to handle the wide range of steel plates typical in a shearing operation.



Custom designed per application

PRODUCT FEATURES:

- Standard UNIVAC® electric vacuum Power-Pac.
- Standard options see page D.4.
(consult factory for availability)

Application Evaluation

Univac® Application Evaluation

Material To Be Handled:

- Steel Aluminum Glass Stone Slabs Plastic/Fiberglass
 Other: _____ (Provide detailed sketch)

Material Temperature Is:

- Under 200° F
 200° to 600° F
 Over 600° F (Specify temperature)

Material Dimensions:

Minimum: Length _____ Width _____ Thickness _____ (required)
Maximum: Length _____ Width _____ Thickness _____
Maximum Capacity Required _____

Material Orientation During Lift:

- Horizontal Only Vertical Only
 Horizontal to Vertical

Power Available:

- Electric Specify: 115v/1ph/60hz
 230-460v/3ph/60hz
 230v dc
 Compressed Air
 No External Power - Battery operated required

Options Required:

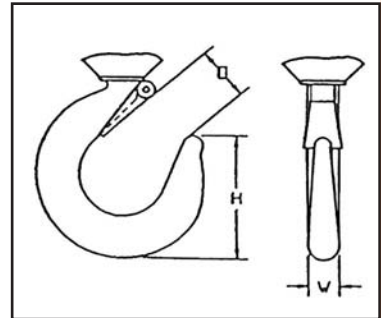
- Side Handle
 Parking Stand
 Audible Low Vacuum Warning
 Custom Pendant Control (Standard is 2-button)
 Wireless Pendant Control

Headroom Available: _____

Hook Size or Hook Opening:

Required for crane hook

H _____
O _____
W _____



Contact: _____

Company: _____

Address: _____

City, State, Zip: _____

Phone: _____

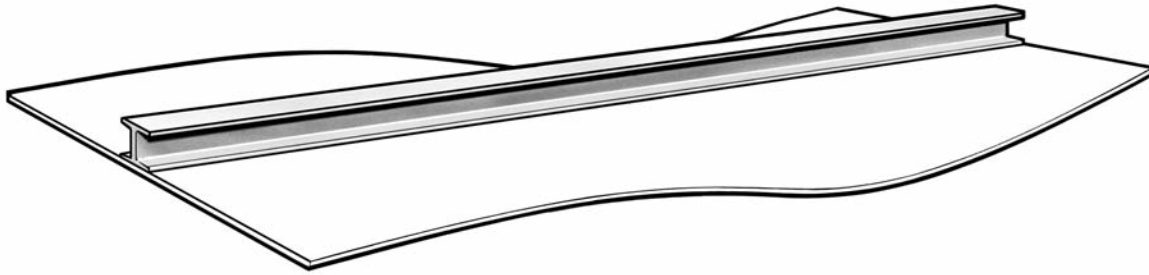
Fax: _____

Email: _____

For a price quote on your specific application, please complete the above form and fax to The Caldwell Group at **815-229-5686** or you can complete this form online at www.caldwellinc.com/applications.

Uniclamp™ Welding Hold Down Clamp

WHAT IT DOES:



UNICLAMP™ ELIMINATES THE GAP BETWEEN THE PLATE AND THE STIFFENER!

That was then...



This conventional setup can take up to two hours to complete. The process includes welding lugs, dogs and bridges in place - positioning awkward and heavy equipment - then removing these setups and cleaning up the attachment points.

This is now...



The Uniclamp™ takes less than 30 seconds to set up - increasing productivity, safety and quality.

HOW IT WORKS:

The simple connection of a standard plant-supplied compressed air line and the flick of a switch allows the clamp's built-in, high speed generator to create a powerful vacuum, permitting the vacuum pads to immediately attach themselves directly to the work surface. The clamp's manual screw or hydraulic ram can then be operated to instantly secure the proper alignment of parts.

UNICLAMPS™ will meet your clamping requirements without the tedious, time consuming and sometimes dangerous paraphernalia associated with traditional methods of fabrication assembly techniques. ***NO MORE LUGS, DOGS, BRIDGES, WEDGES, CHAINS, JACKS, C-CLAMPS, TACK WELDS, OR REGRINDING REQUIRED!***

UNICLAMPS™ Are Powered by Compressed Air and Leave No Marks!

NOTE: UNICLAMPS™ ARE NOT DESIGNED FOR LIFTING PURPOSES.

The Lightweights...

WHD-1 and WHD-2 models are constructed of a high-strength aluminum bringing lightweight portability to workpiece positioning and clamping.

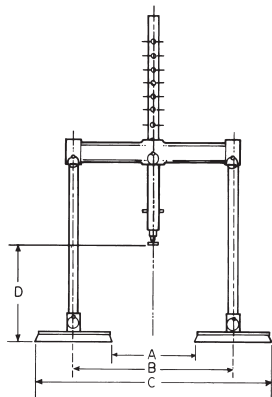
The UNICLAMPS™ have proved to be invaluable in transportation industry applications. These easy to position clamps are ideally suited for sheet and light plate fabrication. Lightweight UNICLAMPS™ are used to secure “skin” materials to ribbed structures at aircraft, aerospace, bus, trailer, and truck manufacturing facilities.



The WHD-1 and WHD-2 UNICLAMPS™ feature capacities up to 1,200 lbs with clamp weights not exceeding 18 lbs! Features include round or rectangular vacuum pads, varying headframe widths, and varying height under the ram to suit special requirements.



QUICKSHIP PROGRAM



SPECIFICATIONS

Holding Force (lbs.)	D Height Under Ram (in.)	Dimensions (in.)								Estimated Weight (lbs.)
		Round Vacuum Pads				Rectangular Vacuum Pads (QuickShip not available)				
		Model No.	A	B	C	Model No.	A	B	C	
750	8-3/4	WHD-1	8-1/4	15-1/2	22-3/4	WHD-1R	12	15-1/2	19	15
1200	8-3/4	WHD-2	5-7/8	15-1/2	25-1/8	WHD-2R	12	15-1/2	19	20

NOTE: Weights and dimensions are approximate.

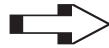
UNICLAMPS™ Disassemble in Seconds Without Tools!

NOTE: UNICLAMPS™ ARE NOT DESIGNED FOR LIFTING PURPOSES.

The Middleweights...

Like their smaller counterparts, the UNICLAMP™ Models WHD-18, WHD-24, WHD-32 and WHD-40 are constructed of high-strength aluminum affording these clamps the identical advantage of reduced weight for heavier duty positioning and clamping requirements.

The clamp models are used extensively in aircraft, ship building, bridge construction, tank manufacturing and the steel fabrication industry. They excel whenever larger assemblies need to be drawn into alignment or held in position for a welding process.



The WHD-18 and WHD-24 UNICLAMP™ features include round or rectangular vacuum pads, varying headframe widths, and varying height under the ram to suit special requirements.



The WHD-32 and WHD-40 are available with round vacuum pads, varying headframe widths, and varying height under the ram to suit special requirements. The WHD-40 is available with rectangular vacuum pads.

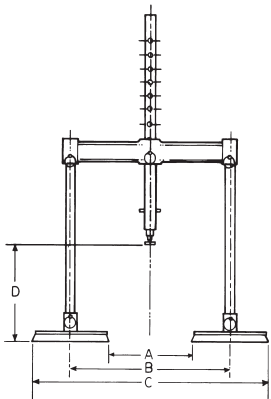


QUICKSHIP PROGRAM

SPECIFICATIONS

Holding Force (lbs.)	D Height Under Ram (in.)	Dimensions (in.)								Estimated Weight (lbs.)
		Round Vacuum Pads				Rectangular Vacuum Pads (QuickShip not available)				
		Model No.	A	B	C	Model No.	A	B	C	
1800	15-3/4	WHD-18	13-3/4	24	34-1/4	WHD-18R	20	24	28	45
2400	15-3/4	WHD-24	12	24	36	WHD-24R	19	24	29	50
3200	15-3/4	WHD-32	10	24	38	--	--	--	--	--
4000	15-3/4	WHD-40	8	24	40	WHD-40R	15	24	33	60

NOTE: Weights and dimensions are approximate.



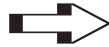
Concave or Convex Surfaces, No Problem for UNICLAMPS™!

NOTE: UNICLAMPS™ ARE NOT DESIGNED FOR LIFTING PURPOSES.

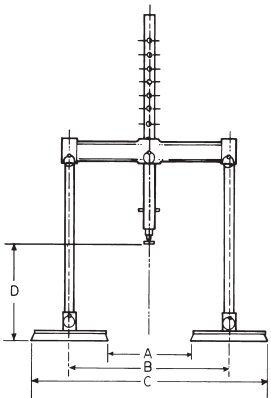
The Heavyweights...

UNICLAMP™ Steel Constructed Models WHD-60, WHD-80 and WHD-100 answer industry's heaviest application requirements.

Used in ship building, heavy plate fabrication, plant construction, bridge building, and large tank fabrication, these clamps bring incredible amounts of clamping power to bear on the largest of fabrication application requirements. These easy-to-use, portable, high-speed clamps draw oversize materials into position for welding, assembly, or alignment procedures.



The WHD-60, WHD-80, and WHD-100 welding and fabrication clamps, boast holding force up to 10,000 lbs. with a venturi vacuum generator and a hydraulic powered ram as standard features. Vacuum pads in round, rectangular, or square are available to suit custom requirements.



SPECIFICATIONS

Holding Force (lbs.)	D Height Under Ram (in.)	Dimensions (in.)								Estimated Weight (lbs.)
		Round Vacuum Pads				Rectangular Vacuum Pads (QuickShip not available)				
		Model No.	A	B	C	Model No.	A	B	C	
6000	24	WHD-60	19	37	56	WHD-60R	17	26	35	150
8000	24	WHD-80	14	37	60	WHD-80R	15	29	43	160
10000	24	WHD-100	12-1/2	37	64	WHD-100R	17	38	59	175

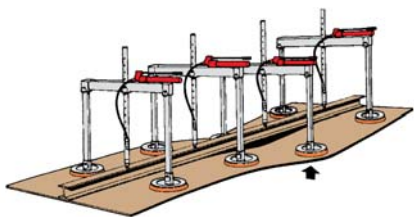
NOTE: Weights and dimensions are approximate.

UNICLAMPS™ Work on Rough Textured or Uneven Surfaces!

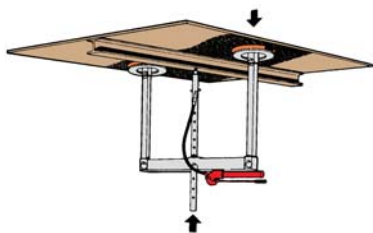
NOTE: UNICLAMPS™ ARE NOT DESIGNED FOR LIFTING PURPOSES.

Uniclamp™ Applications

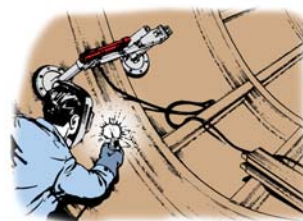
Whether work surfaces are angled, inclined, right angles, convex or concave, UNICLAMPS™ provide the best solution for your positioning and clamping needs.



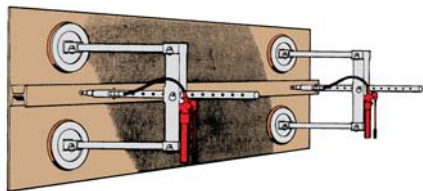
GANG CLAMPS FOR LONG LOADS



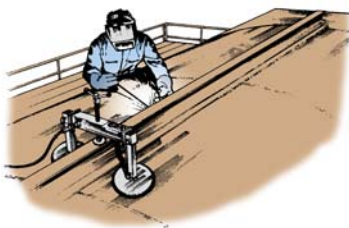
OVERHEAD APPLICATION



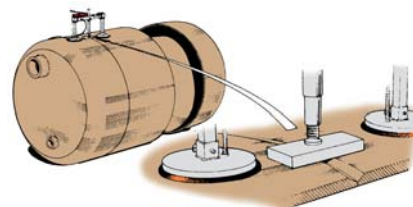
CURVED SECTION WELDING



VERTICAL CLAMPING OF BEAM



SURFACE WELDING STIFFENER



ALIGNING CURVED SURFACES

*Special Sizes and Designs Are Available
for All UNICLAMPS™*

Vacuum Lifter Parts

Replacement Parts & Repairs

Many commonly needed parts are in stock, ready for immediate delivery. Other special components are produced on order. Caldwell gives priority to replacement parts to insure minimum downtime.



Repairs

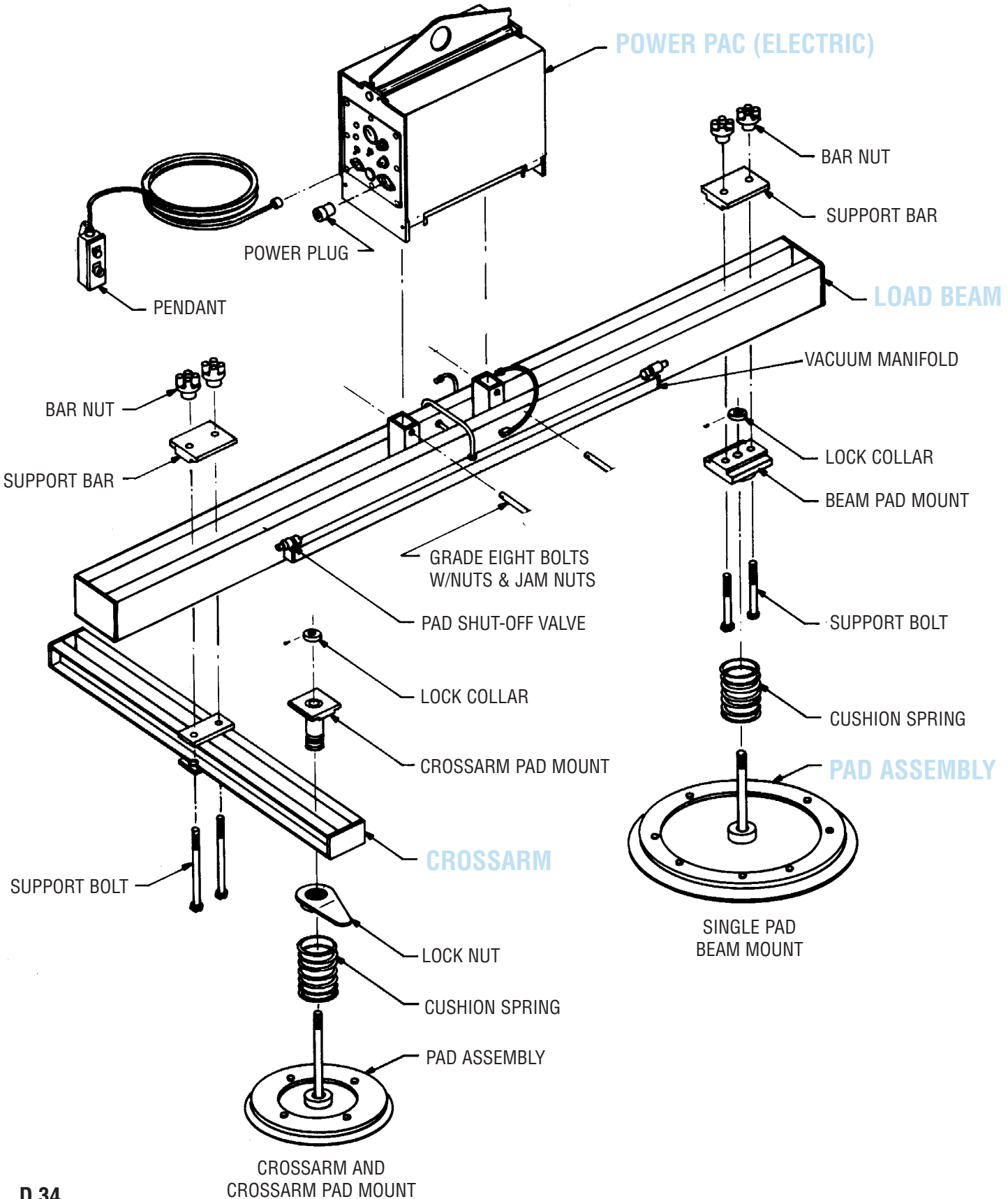
Vacuum lifting products, of many brands, can be sent to Caldwell for repair. Units are completely disassembled, inspected, worn parts replaced, reassembled and tested. You get a “like new” vacuum lifter at considerable savings over the cost of a new unit. See our service information on page 6-7 in the front of this catalog.



Vacuum Lifter Parts

UNIVAC® Vacuum Lifter Sample Parts Schematic

This is a sample vacuum lifter parts schematic, please refer to your instruction manual for specific information regarding your Univac® Vacuum Lifter.



Reference from: UNIVAC® operation maintenance & parts manual (included with each order).

INSTALLATION

Vacuum Lifters shall be assembled and installed in accordance with the manufacturer's instructions, unless other specific arrangements have been approved in writing by manufacturer. When lifter/auxiliary power supply is required, user inspection shall ensure that the power source complies with ANSI/NFPA 70, National Electrical Code and shall include a power disconnect switch as required in accordance with ANSI/NFPA 70 based on the lifters requirements. If electrical connections are made, the power supply and corresponding power disconnects shall be connected to the line side (power supply side) of the crane disconnect or to an independent circuit as specified in the manufacturer's operating instructions.

Check for correct rotation of all pumps and power units, lubrication of moving parts, and filling of reservoirs, all in accordance with manufacturer's instructions.

OPERATOR TRAINING

Lifters shall be operated in accordance with manufacturer's instruction manual, and by personnel who have received instructions described in the "Operating Practices" section of these guidelines. Training shall also include instruction regarding:

1. Details of the lifting cycle.
2. Application of the lifter to the load including (according to the manufacturer's instructions) adjustments to the lifter, if any, to adapt it to various sizes and kinds of loads.
3. Instruction in any special operations or precautions that may be required.
4. Recognition of proper load configuration. For example, preferred operation requires an orderly pattern of stacking.
5. Before assuming responsibility for using the lifter, an operator shall demonstrate his understanding of the lifting procedure to the instructor. The instructor should record notes of operator's demonstrated ability.

INSPECTION

Defects to look for include but are not limited to:

1. Structural deformation.
2. Cracks in the structural frame, welds, hoist hook attachment points, mechanically operating parts, and attached slings, clevises and hooks.
3. Wear of hoist hooking points, load supporting clevises, pins, slings, linkages and mechanical parts.
4. Missing nameplates and markings. Contact Caldwell for replacements.

Daily:	Perform filter and muffler check. Perform a preliminary test lift of several inches.
Weekly:	Check seal rings, hoses and fittings. Check for loose bolts and nuts, as well as for structural damage. Test vacuum gauge reading. Test vacuum switch setting.
Quarterly:	Clean vacuum pump. Check vacuum gauge. Check Red and Green indicator lights.

MAINTENANCE AND REPAIRS

1. A preventive maintenance program should be established for each lifter by a qualified person based on recommendations made by its manufacturer.
2. A qualified person should have responsibility for repairs. Dated records and details of repairs and parts replacement should be carefully maintained by a qualified person, and copies kept in your possession.
3. Replacement parts shall be at least equivalent to the original manufacturer's specifications.

OPERATING PRACTICES

DO'S

1. The operator shall receive, read and understand the manufacturer's instruction manual.
2. The operator shall watch carefully that the lifter is performing properly during the lifting procedure.
3. The operator shall know the standard crane hand signals.
4. The operator shall only respond to signals from an appointed person. However, stop signals from anyone shall be obeyed.
5. The operator shall notify a designated person when he considers a load to be unsafe.
6. The operator shall inspect the lifter before using. Any defect observed shall be examined by a qualified person to determine if it is a hazard.

DON'TS

1. The operator shall not operate a malfunctioning lifter or one with an "out of service" tag attached.
2. The operator shall not use the lifter for any purpose(s) other than those designated by the manufacturer's instruction manual.
3. The operator shall not use a lifter when the capacity, weight or product safety labels are missing or are no longer legible.
4. No one shall make alterations or modifications to lifters without consulting the manufacturer.
5. No one shall obscure or paint over the manufacturer's capacity, weight, or product safety labels.
6. Loads shall not be lifted higher than necessary or be left suspended unattended.
7. The lifter shall not lift a load that is not properly balanced for safe lifting.

HANDLING THE LOAD

1. The lifter shall not be loaded in excess of its rated load.
2. Ensure the load can withstand the forces applied by the lifter.
3. The combined weight of the lifter and load shall not exceed the rated load of the crane or hoist.
4. The lifter shall be applied to the load in accordance with the manufacturer's recommended operating procedure.
5. Lifter ropes and chains shall not be kinked, and multiple part lines shall not be twisted about each other.
6. The lifter shall not touch obstructions during load movement.
7. The lifter shall not be loaded with loose material that might fall during movement.
8. The operator or other personnel shall not place themselves or any part of their bodies beneath suspended loads.
9. The load or lifter shall not be slid on the floor or other surface.
10. The lifter shall not be used for loads for which it is not designed.
11. If suspended loads are moved manually, they shall be pushed, not pulled.
12. A preliminary lift of a few inches shall be made to establish that the load is stable.
13. All loads shall be accelerated and decelerated smoothly and slowly.

Modifications or repairs performed on your lifting equipment without prior written approval from The Caldwell Group, Inc. voids your warranty. Refer to ASME standards for information regarding the liability of repaired or modified lifters.



The Caldwell Group • 800-628-4263 • www.caldwellinc.com

**Univac® Section
2014-2016 Master Catalog**

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RIG-RELEASE®

Remote Releasing Lifters



Standard Rig-Release®

Pages E.6 - E.9

Standard Applications

Pages E.10 - E.17

Special Applications

Pages E.18 - E.22



Index To Rig-Release® Hook



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CALDWELL DELIVERY PROGRAMS



Look for the green **INSTOCK** logo on our standard products. The specific **INSTOCK** model number is shown in green. **INSTOCK** products ship in 48 hours.*

* Excluding weekends and holidays.

DISCLAIMER:

All product designs are subject to change without notice. Products pictures in this catalog are a representation of a specific design. The product you purchase will be designed for your specific application and may not look exactly like the picture in this catalog.



The Caldwell Group • 800-628-4263 • www.caldwellinc.com

Rig-Release® Section
2014-2016 Master Catalog

The Rig-Release® Hook is designed for...

Safety Efficiency Versatility

- | | | |
|---|--|---|
| <ul style="list-style-type: none"> • Allows rigging to be released remotely. • Can not unintentionally release a load, when used according to Instruction Manual. • Meets or exceeds industry standards. | <ul style="list-style-type: none"> • Eliminates the need for a person to physically unhook the rigging. • Reduces installation time. • Allows you to work faster and safer. • Requires only one person to release the rigging. | <ul style="list-style-type: none"> • If you can wrap a sling around the load, then you can set the load and release the rigging remotely. • Designed for rugged outdoor use. • Rigging can be used in either a basket or choker configuration. • Available with either a manual rope control or radio remote control release (2.5 and 5 ton models only). |
|---|--|---|

We offer two releasing methods for the Rig-Release®, Manual and Radio Controlled.
 All Rig-Release® Remote Releasing Hooks are ASME compliant and are equipped with redundant safety systems.

Standard for every Rig-Release® Unit:

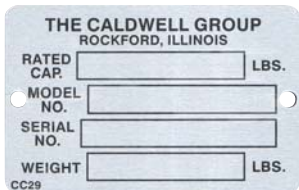
- Identification nameplate, rated capacities, and safety labels clearly marked on the unit.
- Designed, tested, and manufactured to specific standards including ASME B30.20, B30.9, and AWS D14.1.
- Rated capacity can be supported from either the Lift Arm or the Strip Sling Hook.
- Inner Body Assembly travels down into the LOCK & CAPTURE position and CAN NOT be released under load.
- Lift Arm only moves when the load line is slack.

Standard for every Manual Rig-Release® Unit:

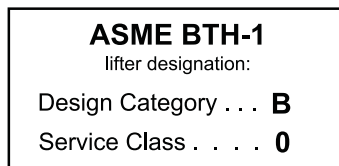
- Release Rope has built in Breakaway Chain to prevent damage to the Inner Body Assembly.
- Additional springs can be added to accommodate heavier sling weights.

Standard for every Radio Controlled Rig-Release® Unit:

- Two step, two button release sequence prevents accidental release signal.
- Radio activated solenoid is mechanically “blocked” when the unit is under load, preventing load release.
- Multiple Rig-Release® Hooks can safely be used together, consult Instruction Manual for proper operating procedures.



I.D. Nameplate



BTH-1 Tag



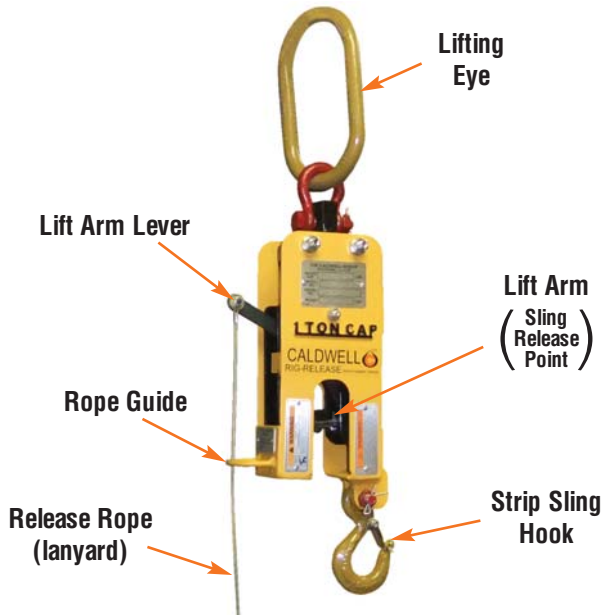
Product Safety Labels

Introduction To The Rig-Release®

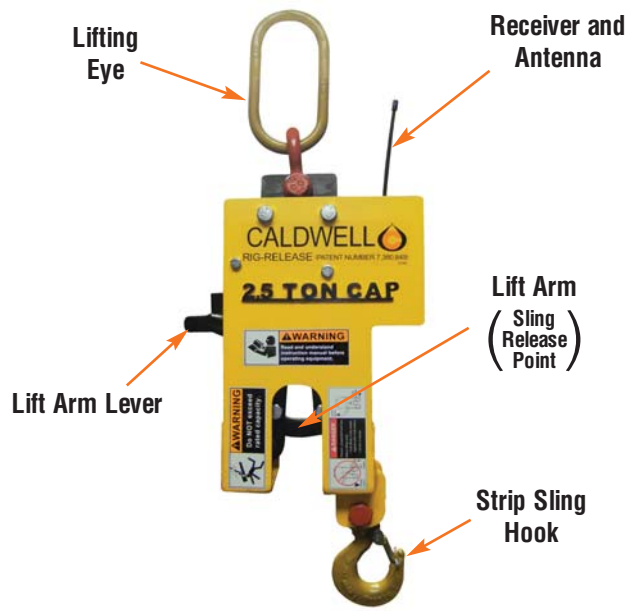
Caldwell's patented Rig-Release® Hook is a safe and simple way to release rigging remotely.

The Rig-Release® Hook is designed so it CAN NOT release the rigging while loaded, when used according to operating instructions.

MANUAL UNIT



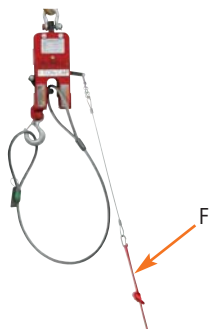
RADIO CONTROL UNIT



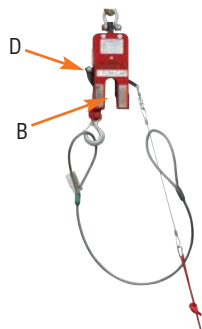
The Rig-Release® Remote Releasing Hook will allow you to set loads – and then – quickly, efficiently and safely release the rigging from a safe distance. The Rig-Release® simply hooks to your crane or spreader beam. You can then attach the sling(s) directly to the Rig-Release® and rig the load. Once the load is set, and the crane line is

slack, pull the Release Rope or activate the Radio Remote Control to release the sling(s). No need for a man lift on site or to have a worker crawl out (or up) just to disconnect sling(s). It's all done from a safe distance.

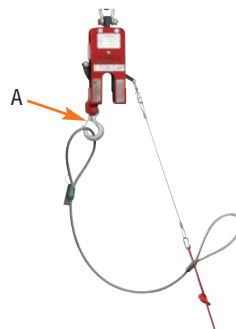
Rigging is attached in two places and released from one.



Once the load is set in place, the weight is removed and you wish to release the load...just pull the Release Rope-lanyard (F) or activate the Radio Remote Control.



The Lift Arm pulls back (D), the sling detaches from point (B) and you can now raise up the crane hook.



The sling is still attached (A) and stripped from the load.



All of this is accomplished safely and efficiently from a safe distance.

(Manual Unit Shown in a Basket Hitch)

How Does It Work?

Take A Look Inside

The Rig-Release® Hook consists of two main components, an OUTER STEEL BODY (shown in RED) that protects and supports the INNER BODY ASSEMBLY (shown in BLACK).



Outer Steel Body



Inner Body Assembly

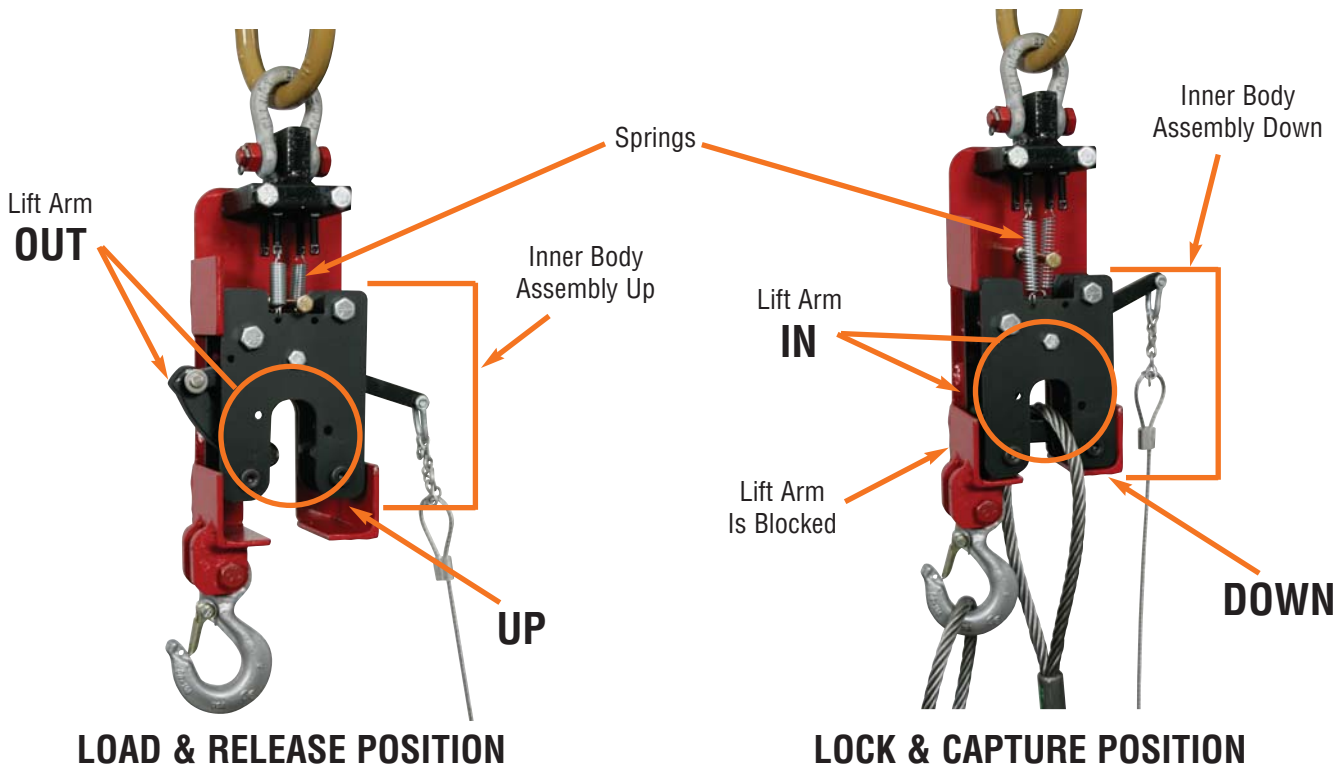


Assembled Unit
Front Cover
Removed For
Inside View

These components work together to prevent rigging from being released under load.

In the unloaded position, the springs of the Rig-Release® Hook are relaxed and the Inner Body Assembly is in the **UP** (LOAD & RELEASE) position.

When a load is attached to the Rig-Release® Hook, the springs are extended allowing the Inner Body Assembly to move to the **DOWN** (LOCK & CAPTURE) position. The Lift Arm is **IN** and is blocked from releasing the sling by the Outer Steel Body.



When the load is set and there is slack in the crane line, the springs relax, pulling the Inner Body Assembly to the **UP** (LOAD & RELEASE) position. The Lift Arm can now pivot to the **OUT** position, use the Rope Lanyard (Manual Units) or the Radio Transmitter (Radio Control Units), to release the sling.

Rig-Release[®] Manual Releasing Hook

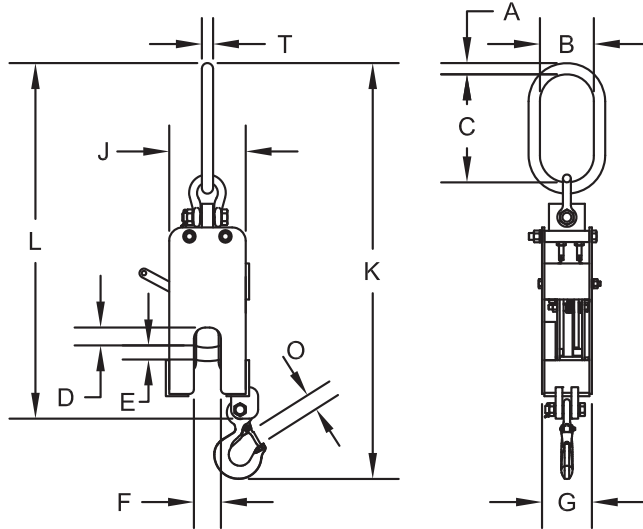
Model RR - Manual Release Unit



1 Ton Unit Shown

PRODUCT FEATURES:

- Rope Guide allows rigging to be released when hook is either above or beside the operator. If hook is located below the operator please see Upward Pull option on page E.20.
- Designed for rugged outdoor use.
- Easy to use - simply rig, lift, set and release.
- LOCK & CAPTURE feature engages with very little load weight (see Minimum Load in chart below).
- Rated load capacity can be lifted from either Lift Arm or the lower Strip Sling Hook. Do not exceed rated capacity of hook.
- Oversized bail for easy mounting on crane hook - 5, 10 & 15 ton units provided with fixed bails.
- Designed and manufactured to ASME standards.



Patent No. 7,380,849

SPECIFICATIONS - Manual Release

Model Number	Rated Cap. (tons)	Dimensions (inches)								Bail Dimensions (inches)				Weight (lbs.)
		D	E	F	G	J	K	L	O	A	B	C	T	
RR-1	1	1.15	0.75	1.25	2.77	4.25	23.10	19.75	0.89	0.63	3.00	6.00	0.63	14
RR-2.5	2.5	1.75	1.00	1.50	4.25	9.56	31.67	26.88	1.09	0.63	3.00	6.00	0.63	45
RR-5	5	1.83	1.50	1.50	5.00	11.13	36.40	30.75	1.36	2.00	4.00	7.00	1.25	110
RR-10	10	2.25	1.75	2.00	6.31	11.00	41.16	32.13	2.08	2.00	4.00	7.00	1.25	200
RR-15	15	3.00	2.50	2.50	6.31	15.00	49.25	39.25	2.27	2.50	5.00	9.00	1.50	325

NOTE: For larger capacities see page E.21.

SPECIFICATIONS

Model Number	Rated Capacity (tons)	Rigging				
		*Minimum Load (lbs.)		Recommended Lifting Slings	**Maximum Allowable Rigging Weight (lbs.)	
		Basket	Choker	Rope Dia. (inches)	Basket	Choker
RR-1	1	30	15	3/8	14	7
RR-2.5	2.5	80	40	5/8	28	14
RR-5	5	230	115	7/8	60	30
RR-10	10	230	115	1-1/4	100	50
RR-15	15	400	200	1-1/2	100	50



Chart data is based upon the minimum number of springs.

*If minimum load weight is not met, safety mechanism will not engage into the LOCK & CAPTURE position.

**If maximum allowable rigging weight is exceeded, unit will remain in the LOCK & CAPTURE position and can not be released.

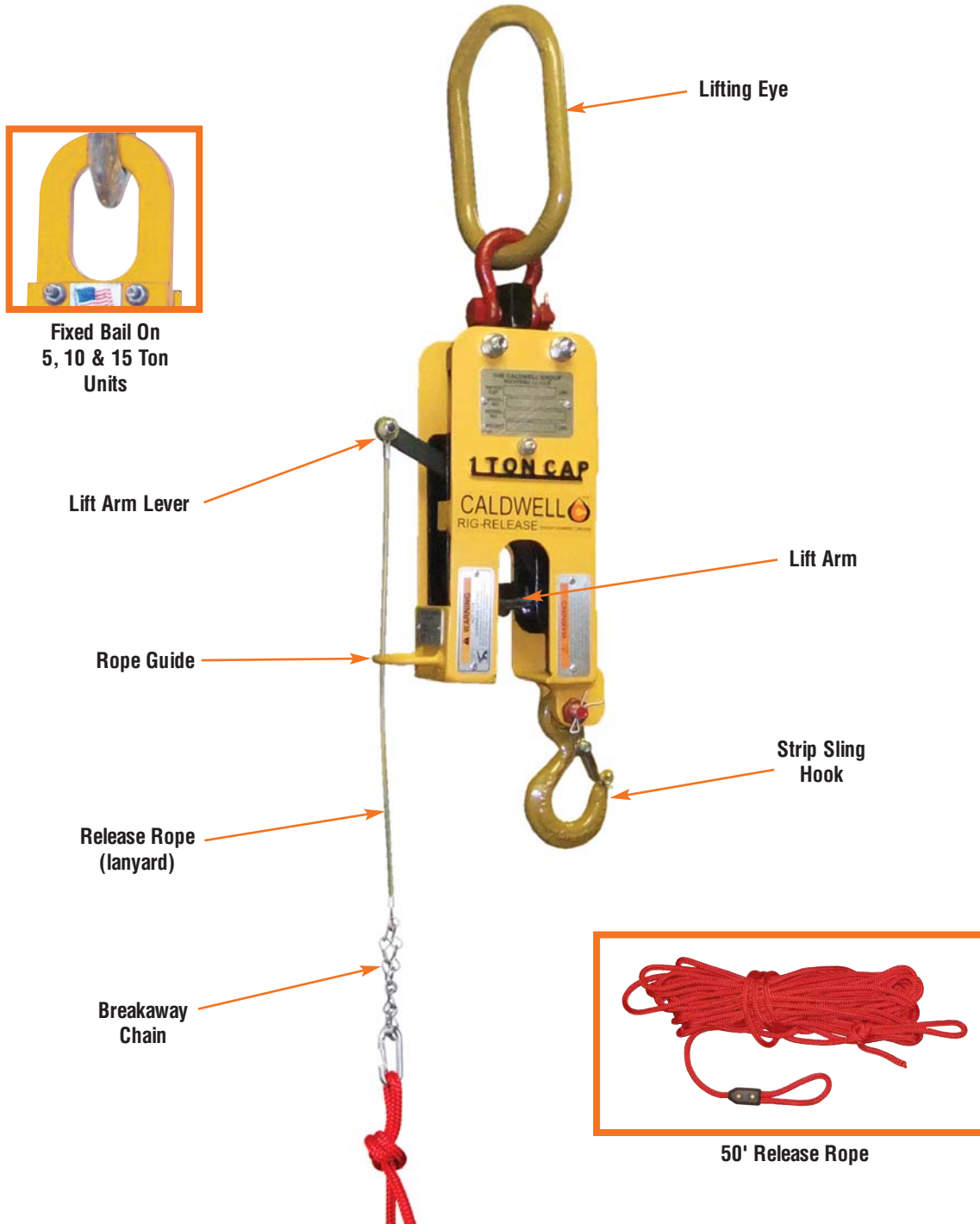
If the maximum allowable rigging weight needs to be increased, additional springs can be added, refer to the Instruction Manual.

Rig-Release® Manual Releasing Hook

The Rig-Release® Remote Releasing Hook will allow you to set loads – and then – quickly, efficiently and safely release the sling from a safe distance. The Rig-Release® simply hooks to your crane or spreader beam. Attach the lifting sling(s) directly to the Rig-Release® and rig the load. Once the load is set, and the load line is slack, pull the Release Rope to release the sling(s). No need for a man lift on site or to have a worker crawl out (or up) just to disconnect sling(s). It's all done from a safe distance.

SAFETY FEATURES:

- When the minimum load is applied, the Inner Body Assembly sits in the LOCK & CAPTURE position and **CAN NOT** be released.
- Inner Body Assembly only allows slings to release when the load line is slack.
- Release Rope has built in Breakaway Chain to prevent damage to the Inner Body Assembly.
- Additional springs can be added to accommodate heavier sling weights.



**Manual Rig-Release® Hooks
Come With Everything Shown.**

Rig-Release® Radio Releasing Hook

Model RR-R - Radio Controlled Release Unit

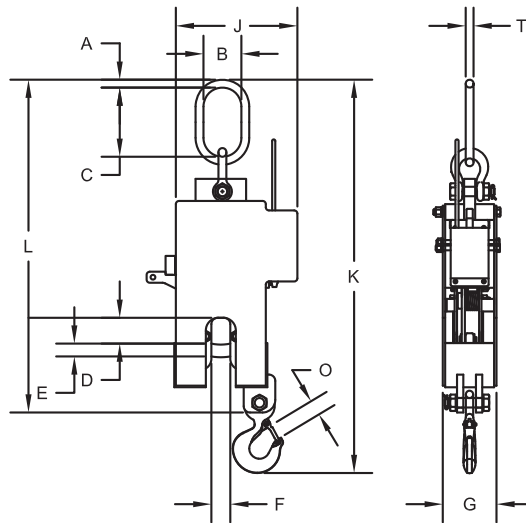
INSTOCK PROGRAM

PRODUCT FEATURES:

- Allows rigging to be released from a safe distance with the push of a button.
- Designed for rugged outdoor use.
- Easy to use - simply rig, lift, set and release.
- LOCK & CAPTURE feature engages with very little load weight (see Minimum Load in chart below).
- Includes two 12 VDC 0.8 Amp Hr. sealed maintenance free lead acid batteries (rechargeable).
- Includes one charger, and one vehicle adapter for standard 12 VDC vehicle outlets.
- Battery life lasts through an 8 hour shift, depending on frequency of operation.
- Minimum required cycle time is 1 - 2 minutes between releases.
- Oversized bail for easy mounting on crane hook, 5 ton unit provided with fixed bail.
- Designed and manufactured to ASME standards.



2-1/2 Ton Unit Shown



Patent No. 7,380,849

SPECIFICATIONS - Radio Release

Model Number	Rated Cap. (tons)	Dimensions (inches)								Bail Dimensions (inches)				Weight (lbs.)
		D	E	F	G	J	K	L	O	A	B	C	T	
RR-2.5R	2.5	1.75	1.00	1.50	4.25	9.56	31.15	26.88	1.09	0.63	3.00	6.00	0.63	50
RR-5R	5	1.83	1.50	1.50	5.00	11.13	36.40	30.75	1.36	2.00	4.00	7.00	1.25	115

NOTE: For larger capacities see page E.21.

SPECIFICATIONS

Model Number	Rated Capacity (tons)	Rigging				
		*Minimum Load (lbs.)		Recommended Lifting Slings Rope Dia. (inches)	**Maximum Allowable Rigging Weight (lbs.)	
		Basket	Choker		Basket	Choker
RR-2.5R	2.5	80	40	5/8	28	14
RR-5R	5	250	125	7/8	60	30



*If minimum load weight is not met, safety mechanism will not engage into the LOCK & CAPTURE position.

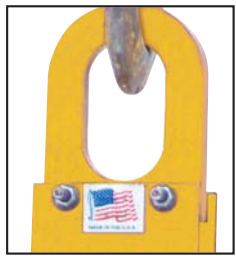
**If maximum allowable rigging weight is exceeded, unit will remain in the LOCK & CAPTURE position and can not be released.

Rig-Release® Radio Releasing Hook

The Rig-Release® Remote Releasing Hook with Radio Remote Control will allow you to set the loads - and then - quickly, efficiently and safely release the sling from a safe distance. The Radio Remote feature puts the sling control at your finger tips. The Rig-Release® simply hooks to your crane or spreader beam. Attach the lifting sling(s) directly to the Rig-Release® and rig the load. Once the load is set, and the load line is slack, activate the Radio Remote Control to release the sling(s). No need for a man lift on site or to have a worker crawl out (or up) just to disconnect sling(s). It's all done from a safe distance, with the control at the tip of your fingers.

SAFETY FEATURES:

- Radio activated solenoid is mechanically blocked when the unit is under load, preventing load release.
- Two step, two button activation (release) sequence prevents inadvertent release signal.
- Transmitter times out in 10 seconds, which prevents inadvertent release of rigging.
- The built-in safety features of the Rig-Release® allow multiple hooks to be used on the same job site.
- Range up to 400 feet, with clear line of site.



Fixed bail on 5 Ton unit

Lifting Eye

Receiver and Antenna



On/Off Button (shown in red)



Mechanical Release Button (shown in green)

Lift arm lever

Lift Arm

Strip Sling Hook



Radio Remote Rig-Release® Hooks Come With These Accessories As Standard Equipment



Vehicle Adapter



Two Rechargeable Batteries



Transmitter (Radio Remote Control)



Charger

Frequently Asked Questions

Rig-Release® Remote Releasing Hook — Consider The Possibilities...

**Work faster and safer on your next challenging job
and release your rigging remotely.**

Can the load be released accidentally?

When used properly the Rig-Release® can not be accidentally released under load.

Why can't the Rig-Release® Hook be released under load?

Once a load is applied to the Rig-Release® Hook, it's Inner Body Assembly sets into a "LOCK & CAPTURE" position and can not be released. Refer to page E.5 for details.

Do I still have to unhook the rigging from the load?

No. By design, a properly rigged Rig-Release® Hook removes the rigging from the set load when the crane hook is raised up.

Does the released rigging fall to the ground?

No. A properly rigged Rig-Release® Hook has one end of the rigging attached to it at ALL TIMES.

Why is a wire rope sling attached to the Rig-Release® Hook in TWO places?

One end is for its release from the Rig-Release® Hook and the other end holds the rigging so that it can be stripped from the load and not fall to the ground.

Why does the Rig-Release® Hook have a minimum capacity?

In order for the safety mechanism (LOCK & CAPTURE) to work, you must be lifting at least the minimum stated capacity on the Rig-Release® Hook being used.

Where can I get the Rig-Release® Hook inspected or serviced?

Only at the factory in Rockford, Illinois.

Can I choke loads and use the Rig-Release® Hook?

Yes, a catch sling is required in addition to the load sling. Refer to page E.13 for details.

Can I pick up a load at full rated capacity using only the strip sling hook on the Rig-Release® Hook?

Yes, the Rig-Release® Hook is designed to support the full rated capacity from either attachment point.

Can I use it with all types of slings?

It is recommended that only wire rope slings of the proper rating and capacity are to be used with the Rig-Release® Hook. A nylon sling or chain could be used if they have an oblong attached to them, consult factory for details.

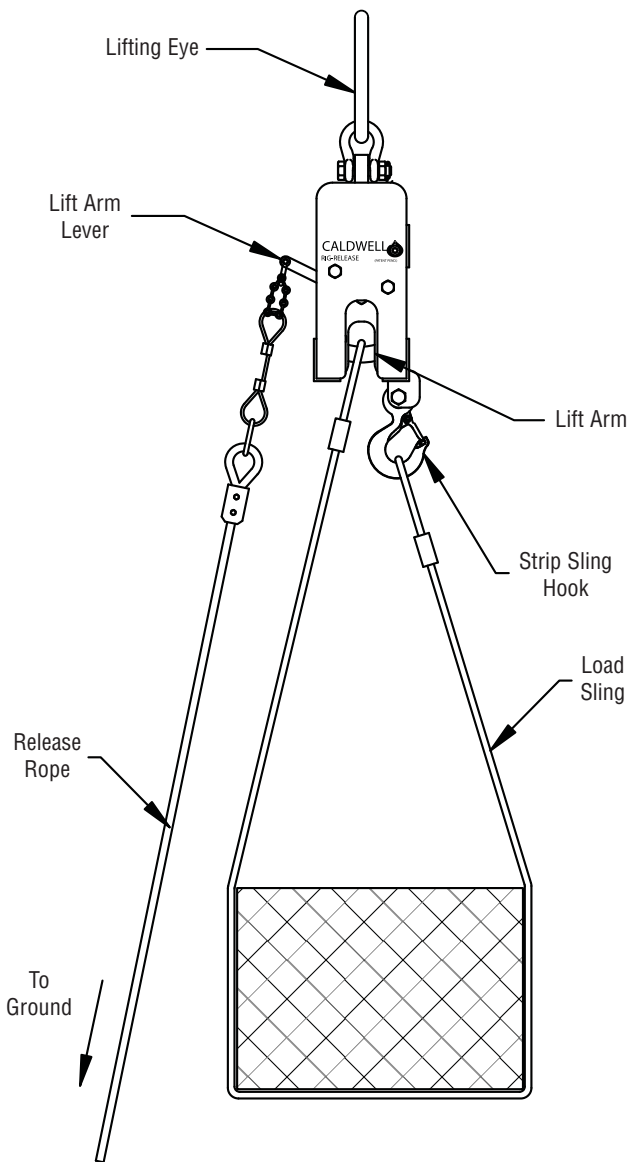


Rigging Configurations

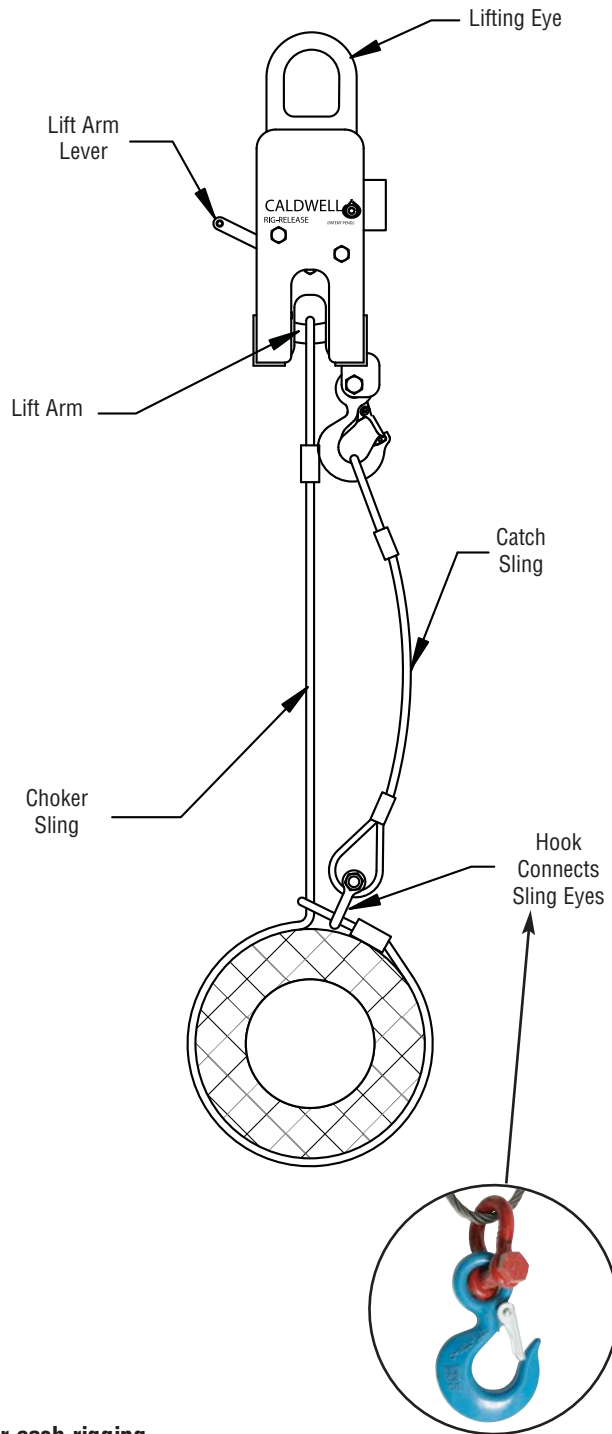
General Rigging Configurations

Both hooks shown carrying a load with the Inner Body Assembly in the LOCK & CAPTURE position.

**Manual Unit
Shown Loaded With
Basket Hitch**



**Radio Controlled Unit
Shown Loaded With
Choker Hitch**



Step by step directions for each rigging configuration are on the following pages.

Step By Step

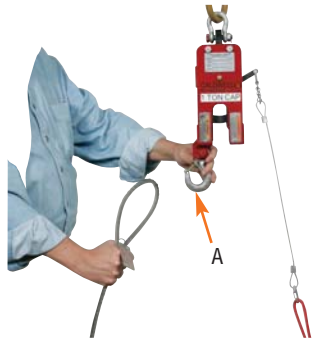
Rigging The Rig-Release® Hook - Basket Hitch

Step 1



Hang the Rig-Release® Hook from your crane hook.

Step 2



Attach load sling to the Strip Sling Hook (A).

Step 3



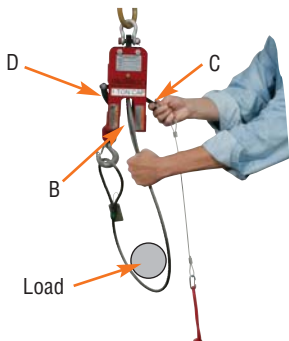
Make sure the load sling is securely in place.

Step 4



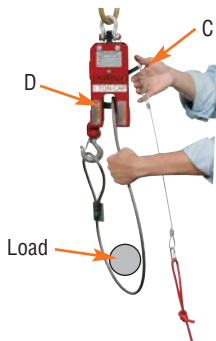
Wrap the sling around the load using a basket hitch.

Step 5



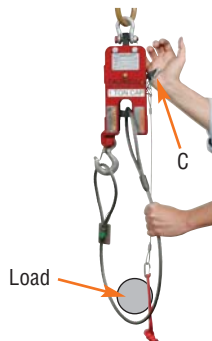
Pull Lever Arm (C) down to unlock Lift Arm (D),* insert other end of the load sling into open Sling Release Point (B).

Step 6



Push Lever Arm (C) up to engage the Lift Arm (D).

Step 7



Ensure that Lever Arm (C) is fully up.

Step 8



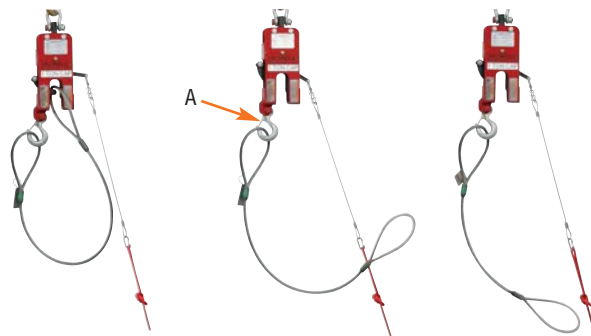
YOU ARE NOW READY TO SAFELY LIFT THE LOAD. This view shows a properly configured Rig-Release® Hook using a basket hitch.

As soon as the load is applied to the Rig-Release® Hook, the Inner Body travels DOWN which is the **LOCK & CAPTURE** position. In this position, the load **CAN NOT** be released.

*For Radio Unit-press green Mechanical Release Button to unlock Lift Arm.

Releasing The Rig-Release® Hook

Once the load is set and the crane line is slack, the Inner Body Assembly can travel up. Now releasing can be accomplished by pulling on a rope lanyard (Manual Units) or pushing a button (Radio Controlled Units).



(Manual Unit Shown)

Step By Step

Rigging The Rig-Release® Hook - Choker Hitch

Requirements For Choker Hitch



Step 1



Hang the Rig-Release® Hook from your crane hook.

Step 2



Attach catch sling to the Strip Sling Hook (A).

Step 3



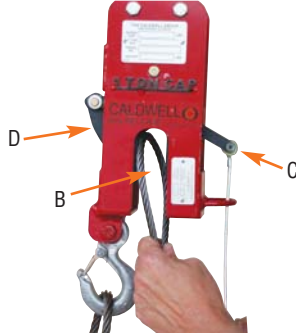
Make sure the catch sling is securely in place.

Step 4



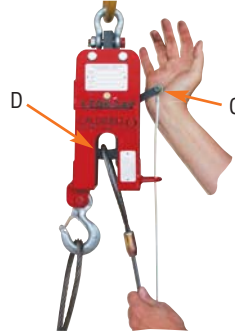
Choke the load with a separate choker sling. Attach the hook end of the catch sling to the lower eye of the choker sling.

Step 5



Pull Lever Arm (C) down to unlock Lift Arm (D),* insert other end of the choker sling into open Sling Release Point (B).

Step 6



Push Lever Arm (C) up to engage the Lift Arm (D). Ensure that Lever Arm (C) is fully up.

Step 7

Make sure that choker sling carries the load and that the catch sling has line slack. YOU ARE NOW READY TO SAFELY LIFT THE LOAD. This view shows a properly configured Rig-Release® Hook in a choker hitch.



*For Radio Unit-press green Mechanical Release Button to unlock Lift Arm.

Standard Applications

Questions on Manual Units

(Rope Lanyard controlled)

On the Manual Unit, which is rope lanyard controlled, if the rope gets hung-up, will it release the load?

No, the rope has a breakaway chain which will yield and break if excessive force is applied. This protects the Rig-Release[®] from severe damage. Even if the breakaway chain was removed, no amount of force on the rope will allow the hook to release under load.

If the rope breaks, how do I release the load?

You would have to do this manually, by going up and releasing the rigging and bringing the Rig-Release[®] Hook to the ground for proper repair.



Setting Vertical Columns



Standard Applications

Perfect For Wood or Steel Roof Trusses

Short span trusses can be handled one at a time, or in a bundle.



Use two Rig-Release® Hooks in conjunction with a spreader beam on long span trusses.



Standard Applications

Questions on Radio Controlled Units

What is the range or distance of the Radio Remote Control (Transmitter)?

The Rig-Release® Hook will work up to 400 feet with a clear line of site. Field conditions, type of rigging used, weather, and battery charge can also affect performance.

If I accidentally push the “RELEASE” button on the transmitter, what happens?

Nothing! To activate the Rig-Release® Hooks releasing mechanism, two buttons need to be pushed in the proper sequence. The first button is the “ARM” button and the second is the “RELEASE” button. They must be pushed in this order.

If I accidentally push the “ARM” button and then accidentally push the “RELEASE” button, can I accidentally disconnect the rigging?

The two button release procedure sequence is timed. Once the “ARM” button is pushed, you have only 10 seconds to push the “RELEASE” button. After 10 seconds, the transmitter is timed out and you must start the release sequence from the beginning.



Setting trusses is a breeze

If both buttons were accidentally pushed in the right order and within 10 seconds would the load release?

When properly loaded, the Rig-Release® Hook is in the LOCK & CAPTURE position and the Lift Arm and Mechanical Release Button are physically blocked and can not open.



2.5 ton Rig-Release® Hook ready to be rigged



Setting header steel

Standard Applications

Are there different frequencies for different hooks?

All standard Radio Controlled Rig-Release® Hooks work on the same frequency which is 418 MHz*. This allows for the controlled release of multiple Rig-Release® Hooks using a single transmitter (Refer to Instruction Manual).

* Alternative frequencies available, refer to page E.20.

How long does the battery last?

Generally a battery will hold its charge for an eight hour shift, but it depends upon the lifting cycle. All Radio Controlled Rig-Release® Hooks come with two rechargeable batteries.



2.5 ton unit using a choker hitch

What else comes with the Radio Controlled Rig-Release® Hook?

Two rechargeable 12 VDC batteries, one transmitter, one 110 volt battery charger and one 12 volt vehicle charger adapter.



Columns high or low - The Rig-Release® Hook does it all!

Special Applications

Rig-Release® Remote Releasing Hook — Consider The Possibilities.

Remember, if you can lift it with a sling then you can set the load and release it remotely - from a safe distance.



Tower Construction



Prefab Wall Installation



Bio-Hazard:

Four 2.5 ton Radio Controlled Rig-Release® Hooks are attached to a custom designed Caldwell Model 27 Four Point Lifting Beam. This allows the user to lift and dispose of bio-hazard medical waste bags without the need for a worker to “suit-up” and manually release the rigging.

Special Applications



Specialized Hook Configuration

Three units shown to release rigging sequentially. The first piece rigged is the last piece set and released. This dramatically reduces crane time.



Specialized Hook Configuration

Spreader beam used with two hooks for simultaneous releasing of the rigging using choker hitch.



Reference Instruction Manual for proper use of multiple hook configurations.

Rig-Release® Options

Multiple options can be added to the Rig-Release®. Adding an option to your Rig-Release® Hook will increase delivery time, consult factory.

Corrosive Environments

Protective Coating

The Rig-Release® Hook is provided with a protective zinc dichromate coating. This option is available on all models and capacities.

Multiple Radio Controlled Units

Alternative Frequencies

Standard Radio Controlled Rig-Release® Hooks work on a 418 MHz frequency. Alternative frequencies are available, please consult factory.

Alternative Addresses

We can set each unit to have different addresses. Each Rig-Release® would be controlled by its own transmitter, allowing each to be released at different times.



Direct Connect Option

Crane Station Control

Hardwired Operating System

We replace the Radio / Battery System with a conventional AC power and control system. The system is no longer dependent upon battery power. This option does not come with the accessories shown on page E.9.

Remote Radio Transmitter for Push Button Control

The Radio Transmitter is provided with a 3 foot pigtail and Velcro Mounting Strips. Wire the transmitter pigtail to two open push buttons and mount the transmitter with a clear line of site to the Rig-Release® Hook. You can now control the Rig-Release® from your pendant.



Protective Coating
& Upward Pull Options

Custom Designs

Upward Pull

For applications when the hook is below the operator and an upward pull of the rope lanyard is required. Available on manual release units, all capacities.

Direct Connect

We remove the strip sling hook and lug so the Rig-Release® can be attached directly to the load without the use of slings. Available on all models and capacities, refer to dimensional drawings for clearance.



Custom Designed Direct Connect
With Self-Guiding Sleeve

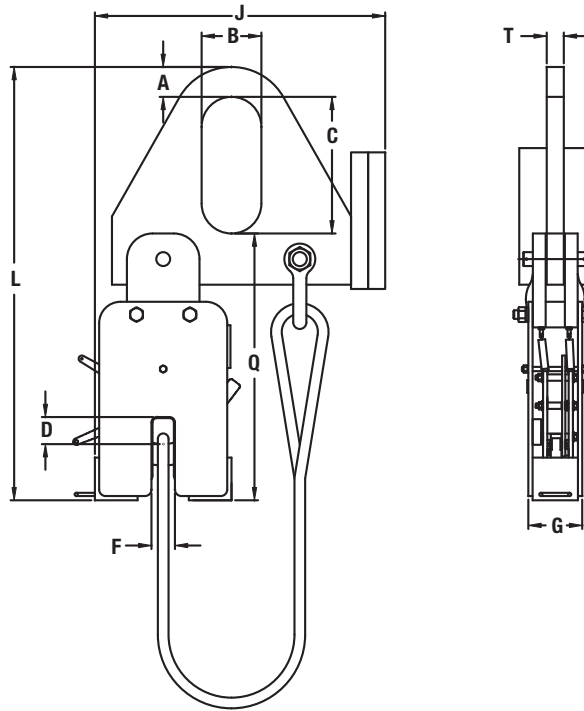
NOTE: To request a price quotation on your specific application, please fill in the Rig-Release® Application Evaluation on page E.22 or online at www.caldwellinc.com/applications.

Extended Capacity - Basket Hitch

Model RR-EC - Extended Capacity Rig-Release® - Basket Hitch

PRODUCT FEATURES:

- For basket hitch only.
- Designed for rugged outdoor use.
- 20 and 30 ton capacity manual release units.
- 10 ton capacity radio controlled release units.
- Easy to use - simply rig, lift, set and release.
- Oversized bail for easy mounting on crane hook.
- Counter balanced to hang level.
- Designed and manufactured to ASME standards.



SPECIFICATIONS - Extended Capacity Manual Release

Model Number	Rated Cap. (tons)	Dimensions (inches)						Bail Dimensions (inches)				Weight (lbs.)
		D	F	G	J	L	Q	A	B	C	T	
RR-20-EC	20	2.25	2.12	6.30	30.81	38.00	26.50	2.50	5.00	9.00	1.50	425
RR-30-EC	30	3.00	2.75	6.30	34.00	50.75	31.25	3.50	7.00	16.00	2.00	675

SPECIFICATIONS - Extended Capacity Radio Controlled Release

Model Number	Rated Cap. (tons)	Dimensions (inches)						Bail Dimensions (inches)				Weight (lbs.)
		D	F	G	J	L	Q	A	B	C	T	
RR-10R-EC	10	1.83	1.50	5.00	30.31	31.00	22.00	2.00	4.00	7.00	1.25	275

WARNING

Rig-Release® unit must always be used with lifting bail.
 Rated capacity can NOT be solely supported from lift arm or hook.
 The basket sling MUST be used to lift the rated capacity.

Rig-Release® Application Evaluation



Caldwell

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Rig-Release® Section
2014-2016 Master Catalog

LOAD INFORMATION:

Description: _____

Weight: _____

Dimensions _____

Length: _____ Width: _____ Height: _____

Provide a drawing or detailed written description to indicate where the attachment points are on the load:

Work Area Conditions: Outside Inside Welding Area Corrosive

HOOK INFORMATION:

Hook Style Required: Manual Release Radio Controlled Release

Do you need rigging included with the load release hook? Yes No

Options Required:

Corrosive Environments: Protective Coating

Multiple Radio Controlled Units: Alternative Frequencies Alternative Addresses

Crane Station Control: Hardwired Operating System
 Remote Radio Transmitter for Push Button Control

Custom Designs: Upward Pull Direct Connect

Additional application information or option requirements:

Contact: _____

Company: _____

Address: _____

City, State, Zip: _____

Phone: _____

Fax: _____

Email: _____

For a price quote on your specific application,
please complete the above form and fax to
The Caldwell Group at **815-229-5686**
or you can complete this form online at
www.caldwellinc.com/applications.

Rig-Release® Remote Releasing Hooks have been designed for specific tasks to withstand the particular forces imposed. Guidelines for installation, inspection, maintenance and repair, safe operation and operator training of these lifters follow. A complete operation and maintenance manual is provided with each unit.

INSTALLATION

Below/Hook Lifters should be assembled and installed in accordance with the manufacturer's instructions, unless other specific arrangements have been approved in writing by the manufacturer.

OPERATOR TRAINING

Lifters shall be operated in accordance with manufacturer's instruction manual, and by qualified persons who have received instructions described in the "Operating Practices" section of these guidelines. Training shall also include instruction regarding:

1. Details of the lifting cycle.
2. Application of the lifter to the load including (according to the manufacturer's instructions) adjustments to the lifter, if any, to adapt it to various sizes and kinds of loads.
3. Instruction in any special operations or precautions that may be required.
4. Recognition of proper load configuration.
5. Before assuming responsibility for using the lifter, an operator shall demonstrate his understanding of the lifting procedure to the instructor. The instructor should record notes of operator's demonstrated ability.

INSPECTION

The lifter shall be visually inspected by or under the direction of an appointed person on a daily or weekly schedule depending on the nature of the lifter and the severity of the service.

Details to look for include but are not limited to:

1. Structural deformation.
2. Cracks in the structural frame, welds, hoist hook attachment points, mechanically operating parts, any attached slings, clevises and hooks.
3. Malfunctions during operation of a mechanically operating lifter.
4. Loose covers, fasteners and stops.
5. Faulty operation of automatic hold and release mechanisms.
6. Wear of hoist hooking points, load supporting clevises, pins, slings, linkages and mechanical parts.
7. Missing identification and product safety labels.

MAINTENANCE AND REPAIRS

1. A preventive maintenance program should be established for each lifter by a qualified person based on recommendations made by its manufacturer.
2. All repairs and parts replacement shall be completed by the manufacturer.



OPERATING PRACTICES

DO'S

1. The operator shall receive, read and understand the manufacturer's instruction manual.
2. The operator shall watch carefully to insure that the lifter is performing properly during the lifting procedure.
3. The operator shall know standard crane directing hand signals.
4. The operator shall only respond to signals from an appointed person. However, stop signals from anyone shall be obeyed.
5. The operator shall notify a designated person when he considers a load to be unsafe.
6. The operator shall inspect the lifter before use. Any defect observed shall be examined by a qualified person to determine if it is a hazard.

DONT'S

1. The operator shall not operate a malfunctioning lifter or one with an "out of service" tag attached.
2. The operator shall not use the lifter for any purpose(s) other than those designated by the manufacturer's instruction manual.
3. The operator shall not use a lifter when the capacity, weight or product safety labels are missing.
4. No one shall make alterations or modifications to lifters without consulting the manufacturer.
5. No one shall obscure or paint over the manufacturer's capacity, weight, or product safety labels.
6. Loads shall not be lifted higher than necessary or be left suspended unattended.
7. The lifter shall not lift a load that is not properly balanced for safe lifting.

HANDLING THE LOAD

1. The lifter shall not be loaded in excess of its rated load.
2. Ensure the load can withstand forces applied by the lifter.
3. The combined weight of the lifter and load shall not exceed the rated load of the crane or hoist.
4. The lifter shall be applied to the load in accordance with the manufacturer's recommended operating procedure.
5. Lifter ropes and chains shall not be kinked, and multiple part lines shall not be twisted about each other.
6. The lifter shall not touch obstructions during load movement.
7. The lifter shall not be loaded with loose material that might fall during movement.
8. The operator or other personnel shall not place themselves or any part of their bodies beneath suspended loads.
9. The load or lifter shall not drag or slide on the floor or other surface.
10. The lifter shall not be used for loads for which it is not designed.
11. If suspended loads are moved manually, they shall be pushed, not pulled.
12. A preliminary lift of a few inches shall be made to establish that the load is stable.
13. All loads shall be accelerated and decelerated smoothly and slowly.

Modifications or repairs performed on your lifting equipment without prior written approval from The Caldwell Group, Inc. voids your warranty. Refer to ASME standards for information regarding the liability of repaired or modified lifters.



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RIG-MASTER®

Rigging Attachments



Clamps, Grabs & Tongs

Pages F.4 - F.17

Pipe & Manhole Handling

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Rig-Master® Section
2014-2016 Master Catalog

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GRABS &
TONGS

PIPE &
MANHOLE
HANDLING

LOAD
LEVELING

BENT BAR
PRODUCTS

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Synthetic Sling End Fittings

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Quality & Engineering

The Caldwell Group has been manufacturing lifting equipment since 1954. It is our goal to manufacture high quality, long lasting lifting products that will safely increase productivity and reduce operating costs.

Benefits Your Company Receives With A Caldwell Lifter:

- Increased productivity.
- Low cost maintenance.
- Increased safety of an engineered product.
- Reliability and durability for long lasting service.

Caldwell Rigging Attachments Have:

- Identification nameplate.
- Rated capacity.
- Product safety labels.

Caldwell's Standard Quality Assurance

To have your new Caldwell lifter proof tested and a certificate issued, please specify (there is a nominal charge).

Industry Standards

The American Society of Mechanical Engineers (ASME) has developed standards that apply specifically to these types of devices. ASME B30.20 provides detailed information on the classifications, marking, construction, installation, inspection, testing, maintenance and operation of below the hook lifting devices. ASME BTH-1 provides detailed information on the design criteria of below the hook lifting devices. ASME B30.9 provides detailed information on the fabrication, markings, usage, inspection and maintenance of lifting slings. These standards serve as a guide to government authorities, manufacturers, purchasers and users of lifting devices. For a summary of these standards, please see pages 8-10 in the front section of this catalog or visit our web site at www.caldwellinc.com/standards.

Caldwell Delivery Programs

The Caldwell Group offers two quick delivery programs, INSTOCK and QUICKSHIP.

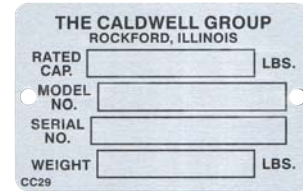
INSTOCK PROGRAM Look for the **green INSTOCK** logo on our standard products. The specific **INSTOCK** model number is shown in **green**. **INSTOCK** products ship in 48 hours.* This program also included over 90 models available for same day shipping with our Order Today, Ship Today! program. Ask your customer service representative for details.

QUICKSHIP PROGRAM Look for the **red QUICKSHIP** logo on our standard products. The specific **QUICKSHIP** model number is shown in **red**. **QUICKSHIP** products ship in 7 to 10 days.*

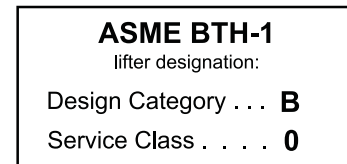
* Excluding weekends and holidays.

DISCLAIMER:

All product designs are subject to change without notice. Products pictured in this catalog are a representation of a specific design. The product you purchase will be designed for your specific application and may not look exactly like the picture in this catalog.



I.D. Nameplate



BTH-1 Tag



Product Safety Labels

Clamps, Grabs & Tongs

Model BLG - Barrier Grabs

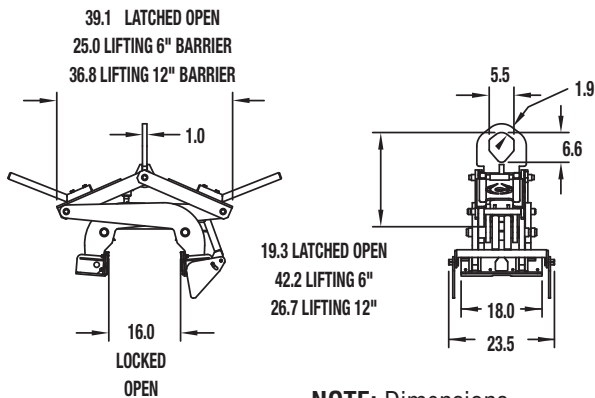


INSTOCK PROGRAM

PRODUCT FEATURES:

- New, compact & rugged design holds up to the work environment where barriers are used.
- Handles concrete barriers from 6" - 12" nominal width at the top of the barrier.
- Stainless steel Auto-Latch.
- Auto-Latch mounting insures proper alignment.
- Locating assembly orientates tong on barrier without operator intervention.
- Gripping pads pivot to conform with the load.
- Replaceable polyurethane pads protect barrier.
- Alloy steel dog-point pads bite into painted barrier surfaces (typical in coastal areas).
- Centering guide cut out on grab shoe helps to properly center tong over barrier for a level lift.
- Extended handles on each side keep operator away from load and can be adjusted as needed.
- Lifting eye allows for easy hook attachment, self-centers rigging, and will accommodate a fork.
- Designed and manufactured to ASME B30.20, BTH-1, design category B, service class 3.

NEW



NOTE: Dimensions shown in inches.

SPECIFICATIONS

Model Number	Rated Capacity (lbs.)	Weight (lbs.)
With Polyurethane Lifting Pads		
BLG-4.1/4	8500	602
BLG-7.1/4	14500	652
With Steel 'Dog Point' Lifting Pads		
BLG-4.1/4-DP	8500	602
BLG-7.1/4-DP	14500	652

Operation

Place tong on barrier, lower crane completely to disengage the Auto-Latch.

Lift and position barrier in desired location.

Lower crane, line must go slack to engage Auto-Latch, lift tong off barrier and Repeat!



Clamps, Grabs & Tongs

Model BLG - Barrier Grab Options

Optional Barrier Grab Rest Pad

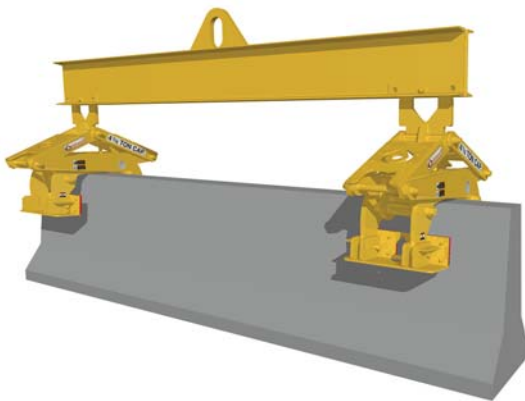
NEW



OPTION FEATURES:

- Bolt in place for easy field installation and replacement
- Protects barrier from damaged caused by the grab, increasing barrier life.

Optional Stabilizing Kit



OPTION FEATURES:

- Attach two Barrier Grabs, and expand your barrier handling capabilities.
- Handles barriers up to 40' in length.
- Beams can be used for other material handling applications when Barrier Grabs are removed.

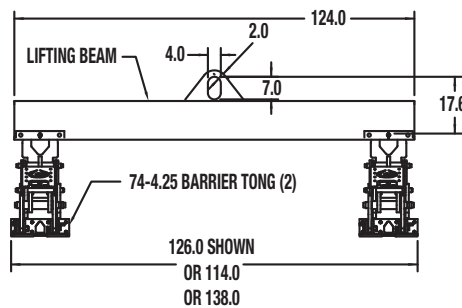
Each Stabilizing Kit Consists of:*

- 1 - Model 20 Lifting Beam
- 1 - Set of attaching hardware

*Barrier Grabs Sold Separately

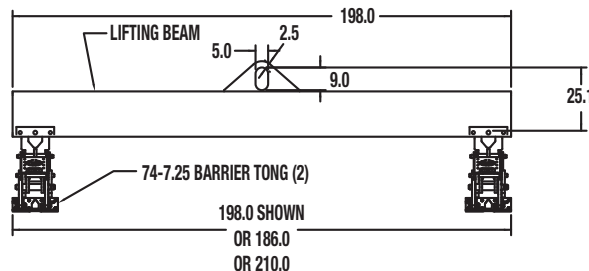
BLG-4.1/4-E Kit Entire Unit Rated Capacity: 17,000 lbs.

Designed for barriers
12' or longer.



BLG-7.1/4-E Kit Entire Unit Rated Capacity: 29,000 lbs.

Designed for barriers
18' or longer.



SEE BARRIER TONG CATALOG PAGE FOR MORE DIMENSIONS

NOTE: Dimensions shown in inches.

Clamps, Grabs & Tongs



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2014-2016 Master Catalog

Model ALG - Adjustable Lifting Grab



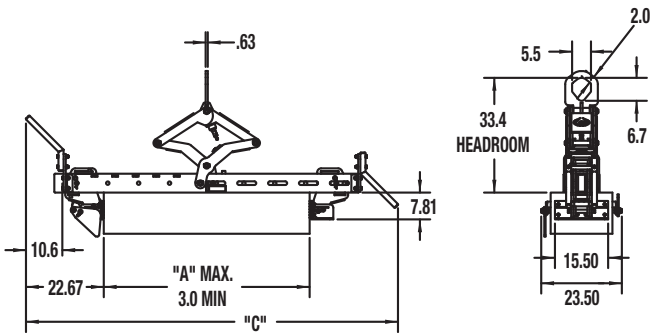
INSTOCK PROGRAM

PRODUCT FEATURES:

- Heavy-duty design to withstand rugged, high-cycle environments.
- Infinitely adjustable within range.
- Fully adjustable stainless steel Auto-Latch.
- Locating assembly orientates grab on load without operator intervention.
- Replaceable polyurethane pads protect load from lifter damage.
- Color-coded decal indicates the amount of travel remaining for each adjustment.
- Position indicating decals for easy adjustment.
- Extended handles keep operator away from load and can be adjusted as needed.
- Optional hardened alloy steel dog points available.
- Lifting eye allows for easy hook attachment, self-centers rigging, and will accommodate a fork.
- Designed and manufactured to ASME B30.20, BTH-1, service class 3.

SPECIFICATIONS

Model Number	Capacity lbs.	A - Max. Width	C - Overall Width	Weight lbs.
ALG-3-3/24	6000	24"	72.5	600
ALG-3-3/42	6000	42"	90.5	650
ALG-3-3/60	6000	60"	108.5	700



Standard Configurations

6" Barriers



12" Barriers



Big Blocks



Custom Configurations

One-Sided



Inside



Round



Ingot



Clamps, Grabs & Tongs

Model F - Beam Grabs



PRODUCT FEATURES:

- Heavy duty design.
- These grabs provide an efficient method for handling wide flange beam sections and plate girders.
- Clamps have a recessed base to accept studs welded to a beam's surface.
- Beam grabs eliminate the need for slings or chokers.
- Use only for vertical lifting.
- For longer beams or girders, use units in pairs in conjunction with a spreader/lifting beam.
- Complies with ASME standards.

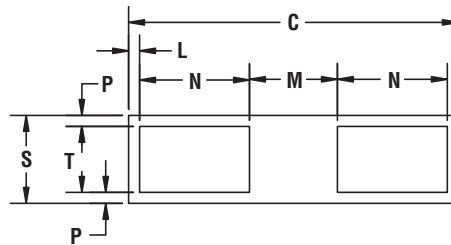
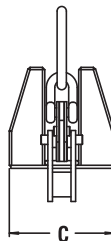
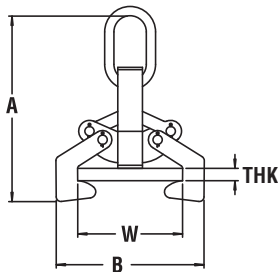


Base Dimensions

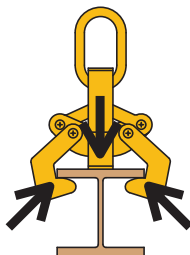
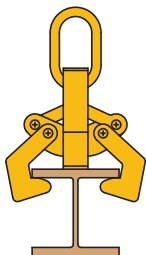
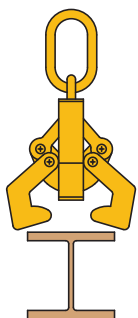
Models have bases cut out to avoid interference of studs.

SPECIFICATIONS

Model Number	Rated Capacity (tons)	Dimensions (inches)												Weight (lbs.)
		A	B	C	Flange Width (W)	Flange Thickness (THK)		S	N	T	M	L	P	
						Min.	Max.							
F-5	5	22.70	15.70	11.60	4	.25	.25	3	3	2	4.60	.50	.50	68
					5	.25	.38							
					6 - 10	.25	1							
F-15	15	30.10	25.10	17.50	7	.50	.75	4	4	2.50	7.30	.90	.80	182
					8	.50	1							
					9	.50	1.25							
					10	.50	1.25							
					11 - 17	.25	2							
F-25	25	44.80	45.20	24.50	16 - 17	1.25	3	5.50	6	4	9.80	1.30	.80	541
					18 - 24	1	3							
F-35	35	52.90	61.60	28.50	16 - 18	2.25	4	6	9.30	4.50	8.50	.80	.80	841
					20 - 22	2	4							
					24	1.75	4							
					26	1.75	4							
					28 - 36	1	4							



Operation



Lower grab onto the beam and, if necessary, lift tong arms to allow them to slide under flanges of the beam. When the clamp is lifted, its center plate and gripping tongs work against each other... the heavier the beam, the greater the clamping pressure.



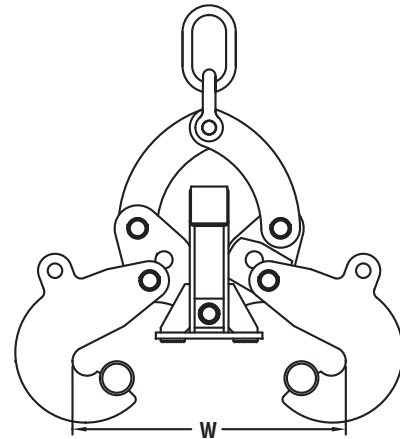
Clamps, Grabs & Tongs

Model F - Beam Grabs - Extended Capacity



PRODUCT FEATURES:

- Custom designed for your application.
- Heavy duty grab handles wide flange beam sections and plate girders.
- Dog points on base furnish positive grip between grab and beam.
- Hook design assures contact to the beam flange or girder.
- Both hooks have chain holes - attach chain slings and use for opening hooks.
- Adjustable hook positions fit a set range of flange widths.
- For long loads, use two heavy-duty beam clamps and one spreader beam.
- Complies with ASME standards.



50 Ton unit for flange widths from 30-48" shown.

Application Evaluation

BEAM INFORMATION:

Flange width (W): Min. _____ Max. _____

Flange thickness: Min. _____ Max. _____

Beam/Girder weight _____ lbs.

Contact: _____

Company: _____

Address: _____

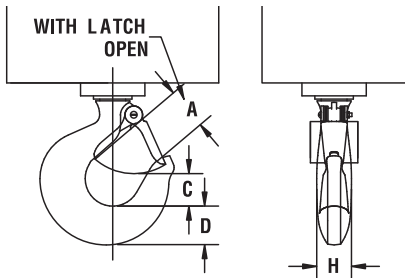
City, State, Zip: _____

Phone: _____

Fax: _____

Email: _____

CRANE HOOK DATA:



INCHES

A _____ +0

C _____ +0

D _____ -0

H _____ -0

Measurement Tolerances

+0 = Measurement should be no larger but can be smaller than actual.

-0 = Measurement should be no smaller but can be larger than actual

+/- = Measurement can be larger or smaller than actual.

For a price quote on your specific application, please complete the above form and fax to The Caldwell Group at **815-229-5686** or you can complete this form online at www.caldwellinc.com/applications.

Clamps, Grabs & Tongs

Model GC - Girder Clamps



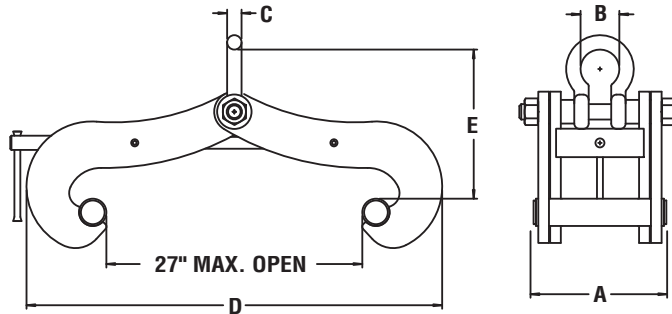
PRODUCT FEATURES:

- These clamps provide an efficient method for handling wide flange beam sections and plate girders.
- Screw-spindle design ensures positive grip.
- Simple design ensures minimum maintenance.
- Left-hand thread and right-hand thread screw spindle allows for rapid clamping and unclamping.
- Jaw opening adjusts to a wide range of beam types and flange widths.
- Use only for vertical lifting.
- Complies with ASME standards.

**INSTOCK
PROGRAM**

SPECIFICATIONS

Model Number	Rated Capacity (tons)	Dimensions (inches)							Weight (lbs.)
		Flange Width Min. - Max.	Max. Flange Thickness	A	B	C	D Min. - Max.	E Min. - Max.	
GC - 15	15	6 - 24	3	14.81	3.9	1.6	23 - 44	15.7 - 23.4	234
GC - 20	20	6 - 24	3	14.81	5	2.1	23 - 44	18.3 - 25.9	291
GC - 25	25	6 - 24	3	14.81	5	2.1	23 - 44	18.3 - 25.9	342



Operation



For lifting and positioning structural beams. Can be used in pairs in conjunction with a spreader beam for additional stability.

WARNING
Use only for vertical lifting.



Clamps, Grabs & Tongs

Model BWC - Beam Web Clamps

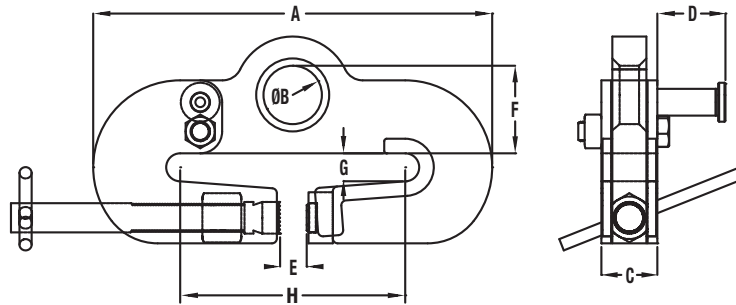
NEW



PRODUCT FEATURES:

- Designed to accommodate side load applications.
- Full rated capacity at any lifting angle.
- Low headroom design.
- Securely grips beam web and flange.
- Use for lifting or hanging.
- Complies with ASME B30.20 and BTH-1.

INSTOCK PROGRAM



SPECIFICATIONS

Model Number	Rated Capacity lbs.	Dimensions (in.)									Weight lbs.
		A	B	C	D	E	F	G	H		
									Min	Max	
BWC-5	11,200	20.50	2.75	3.00	3.50	1.25	4.50	1.00	6.00	12.00	76
BWC-10	22,400	20.50	2.75	3.00	3.50	1.25	4.50	1.00	6.00	12.00	76
BWC-10W	22,400	24.30	2.75	3.00	3.50	1.25	4.50	4.00	9.00	15.75	82

Operation



Clamps, Grabs & Tongs

Model BFC - Beam Flange Clamps



OPTION LB
Large Bail



PRODUCT FEATURES:

- Rated load capacities from 1 to 10 metric tons.
- Proof test with certificate.
- Lightweight and portable design.
- Left-hand thread and right-hand thread screw spindle allows for rapid clamping and unclamping.
- Lock nut prevents inadvertent loosening of clamp.
- Jaw opening adjusts to a wide range of beam types and flange widths.
- Use only for vertical loading.
- Built-in suspension pin provides lower headroom.
- Powder coated finish.
- Available with Large Bail option for oversized hoist hooks.
- 5:1 design factor meets portions of ASME B30.16.
- Complies with ASME B30.20 and BTH-1 standards.

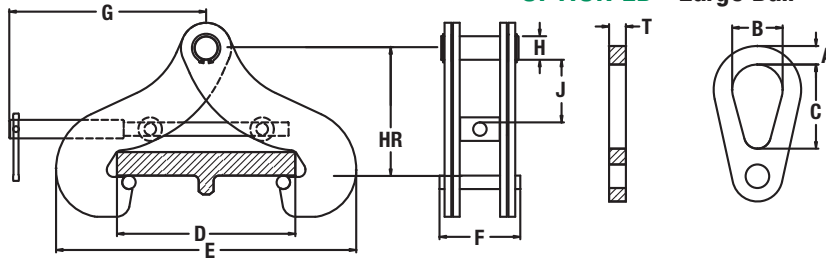


SPECIFICATIONS

Model Number	Rated Capacity (lbs.)	Dimensions (inches)												Weight (lbs.)	
		D		E	F	G	H Diameter	J	Option LB				HR Headroom (in.)		
		Min.	Max.	Max.					A	B	C	T	@ Man. D		@ Mix. D
BFC-1	2200	3.00	7.50	12.25	3.00	9.25	0.88	2.10	0.75	2.00	2.00	0.63	3	5	8
BFC-2	4400	3.00	7.50	12.25	3.00	9.25	0.88	2.10	0.75	2.00	2.00	0.63	3	5	9
BFC-3	6600	6.00	12.00	19.75	4.25	11.00	1.25	2.38	1.00	2.50	2.50	1.00	4.5	7.5	19
BFC-5	11000	6.00	12.00	19.75	4.25	11.00	1.25	2.38	1.00	2.50	2.50	1.00	4.5	7.5	22
BFC-10	22000	6.00	13.25	22.50	6.00	14.63	1.75	4.65	1.38	3.75	6.25	1.25	7.5	10.25	50

NOTE: Weights are for clamp only.

OPTION LB - Large Bail



Applications



Allows for the capability of hanging hoists or rigging from an overhead load bearing structure.



For lifting and positioning structural beams. Can be used in pairs in conjunction with a spreader beam for additional versatility.

Clamps, Grabs & Tongs

Model BC - Beam Clamp



INSTOCK PROGRAM

PRODUCT FEATURES:

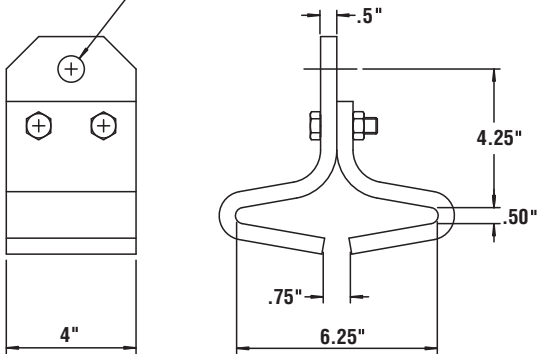
- Rated load capacity of one ton.
- Economical and convenient.
- Lightweight and portable design, high strength construction.
- Use only for vertical lifting.
- Complies with ASME standards.

SPECIFICATIONS

Model Number	Rated Capacity (tons)	Flange		Weight (lbs.)
		Min. (in.)	Max. (in.)	
55 - 1	1	4	6	10

Shackle not included (13/16" dia. hole for up to 3-1/4 ton shackle).

13/16" DIA.
FOR UP TO 3-1/4 TON SHACKLE



For lifting and positioning structural beams. Can be used in pairs in conjunction with a spreader beam for additional versatility.



Allows for the capability of hanging hoists or rigging from an overhead load bearing structure.

Model BT - Beam Tongs



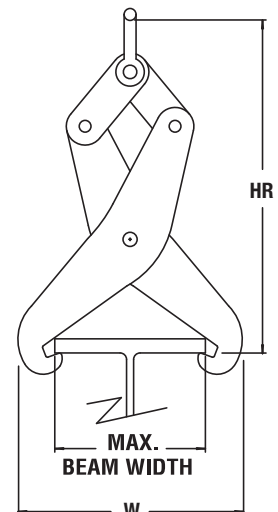
INSTOCK PROGRAM

PRODUCT FEATURES:

- Tong provided with lifting shackle.
- Load must be balanced and controlled when lifting.
- Use only for vertical lifting.
- For added stability when handling longer loads, use in pairs with a spreader beam.
- Complies with ASME standards.

SPECIFICATIONS

Model Number	Rated Capacity (tons)	Dimensions (inches)			Weight (lbs.)
		Beam Width Min. - Max.	Max. Flange Thickness	Head Room	
111 - 1	1	5 - 6	5/8	17	15
111 - 2	2	6.50 - 8	3/4	19	18
111 - 3	3	7.50 - 10	3/4	19	21



Clamps, Grabs & Tongs

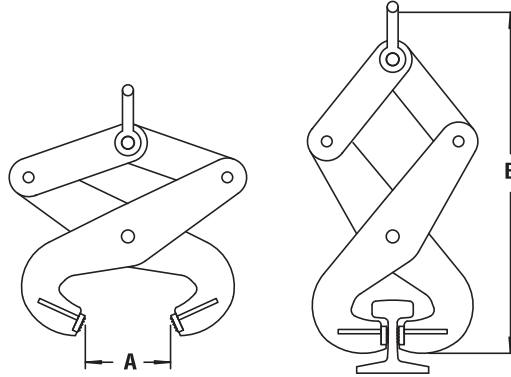
Model RLT - Rail Tongs



INSTOCK PROGRAM

PRODUCT FEATURES:

- Rail Tongs are designed to handle all standard size rails.
- Tongs are provided with non-slip machined diamond face gripping pads.
- Load must be balanced and controlled when lifting.
- Complies with ASME standards.



SPECIFICATIONS

Model Number	Rated Capacity (tons)	A (in.)	B (in.)	Handles	
				Std. ASCE Rail (# per yard)	Weight (lbs.)
109 - 1	1	3	18	30 & 40	15
109 - 2	2	5	20	50 - 100	18

Model MPP - Pallet Puller



INSTOCK PROGRAM

PRODUCT FEATURES:

- Used for moving hard to reach loaded pallets from flat surfaces, such as truck trailers or loading docks.
- Extends reaching capability of the fork lift truck.
- Single scissor action.
- Heavy duty steel design.
- Not for overhead lifting.
- Working load limit 1,250 pounds.
- 3/8" proof coil chain.

SPECIFICATIONS

Model Number	Jaw Opening (in.)		Chain Length (in.)	Weight (lbs.)
	Max.	Min.		
MPP-1	4.00	1.00	24	14



Clamps, Grabs & Tongs

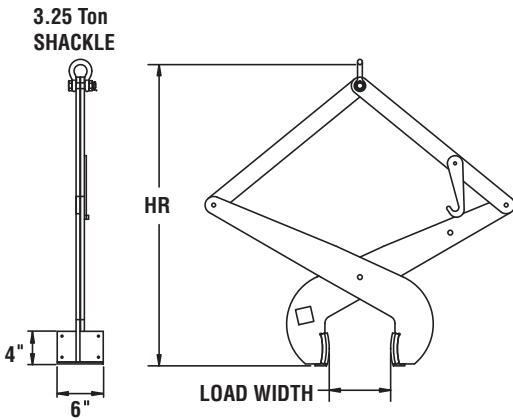
Model ST - Slab Tongs



PRODUCT FEATURES:

- Designed for lifting dry slabs of concrete, stone, or metal that must be protected from scratching or marring.
- Use in construction work to position slabs.
- The curved pads give proper contact for gripping smooth surfaces and handling a large range of sizes.
- Polyurethane gripping surfaces are standard.
- A manual latch is standard and locks the tong arms for easy placement on the load.
- Complies with ASME standards.

INSTOCK PROGRAM



SPECIFICATIONS

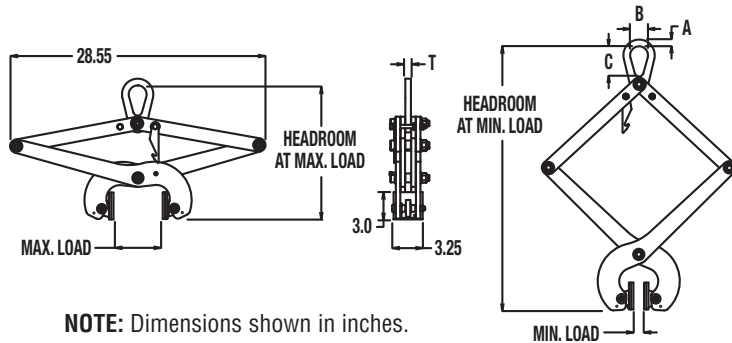
Model Number	Rated Capacity (lbs.)	Load Width (in.) Min. - Max.	HR Headroom (in.) Min. - Max.	Weight (lbs.)
71-0	1000	1 - 6	31.30 - 39.58	65
71-1	1000	6 - 10	29 - 41	75
71-2	1500	8 - 12	23.4 - 34.9	85
71-3	1500	10 - 14	28.6 - 41.2	145
71-4	1500	14 - 18	36.8 - 49.8	145
71-5	1500	18 - 22	45.4 - 60.1	150

Model 172 - Concrete Pressure Tong with Urethane Pads



PRODUCT FEATURES:

- Designed for handling cured concrete products.
- Automatically adjusts to the load size.
- Easy to release manual latch.
- Pivoting pads align with load surface for proper contact.
- Polyurethane pads grip surface without damage.
- Complies with ASME standards.



NOTE: Dimensions shown in inches.

SPECIFICATIONS

Model No	Rated Cap. (lbs.)	Dimensions (inches)							Weight (lbs.)
		Load Width Min - Max	Overall Width Min - Max	HR Headroom Min - Max	Bail				
					A	B	C	T	
172-1/4	550	1-3/16 - 5-1/2	21.8 - 28.8	13.5 - 29.5	11/16	1-11/16	2	11/16	25
172-1/2	1100	1-3/16 - 5-1/2	21.8 - 28.8	13.5 - 29.5	3/4	2	3-3/8	5/8	43
172-1	2200	1-3/8 - 6-3/32	32.6-36.6	16.7-29.5	11/16	2	3-1/8	3/4	93

NOTE: 1/4 ton unit has shackle lifting eye.

INSTOCK PROGRAM

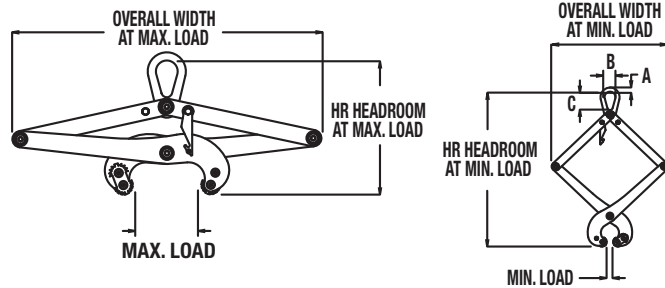
Clamps, Grabs & Tongs

Model 173 - Concrete Pressure Tong with Grip Teeth



PRODUCT FEATURES:

- Designed for handling cured concrete products.
- Automatically adjusts to the load size.
- Easy to release manual latch.
- Serrated steel cams securely grip the load.
- Pads can be rotated for longer field life.
- Complies with ASME standards



NOTE: Dimensions shown in inches.

SPECIFICATIONS

INSTOCK PROGRAM

Model No	Rated Cap. (lbs.)	Dimensions (inches)						Weight (lbs.)
		Load Width Min - Max	Overall width Min - Max	HR Headroom Min - Max	Bail			
					A	B	C	
173-1/4	550	1-3/16 - 6-5/16	21.8 - 28.8	13.5 - 29.5	11/16	1-11/16	2	24.5
173-1/2	1100	1-3/16 - 6-5/16	21.8 - 28.8	13.5 - 29.5	3/4	2	3-3/8	42.5
173-1	2200	2-3/8 - 7-3/32	32.6 - 36.6	16.7 - 29.5	11/16	1-11/16	2-3/8	93

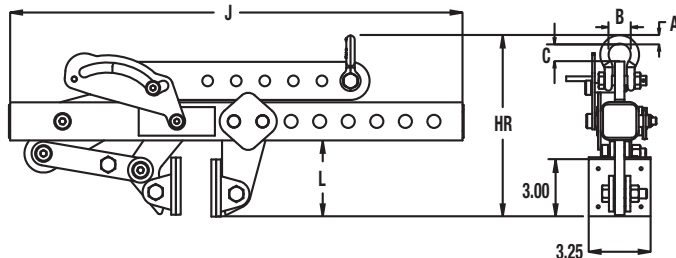
NOTE: 1/4 ton unit has shackle lifting eye.

Model 176 - Concrete Pressure Tong with Urethane Pads



PRODUCT FEATURES:

- Designed for handling cured concrete products.
- Multiple adjusting ranges.
- Pivoting pads align with the load surface for proper contact.
- Adjustable lifting point to ensure a balanced lift.
- Complies with ASME standards



NOTE: Dimensions shown in inches.

SPECIFICATIONS

INSTOCK PROGRAM

Model No	Rated Cap. (lbs.)	Dimensions (inches)							Weight (lbs.)
		Load Width Min - Max	Overall width J	L	HR Headroom Min - Max	Bail			
						A	B	C	
176-1/4	550	3/8 - 9-7/16	23.75	4-1/8	9 - 16.2	7/16	1-1/8	15/16	16
176-1/2	1100	3/8 - 9-7/16	23.75	4-1/8	9 - 16.2	7/16	1-1/8	15/16	21
176-1	2200	3/8 - 14-3/4	31	4-1/8	9-3/4 - 17	1/2	1-5/16	1-3/16	46

Clamps, Grabs & Tongs

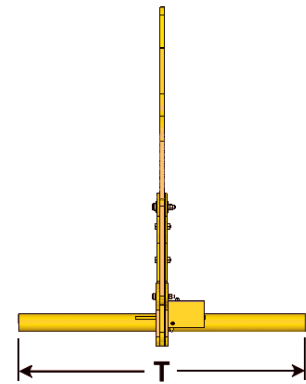
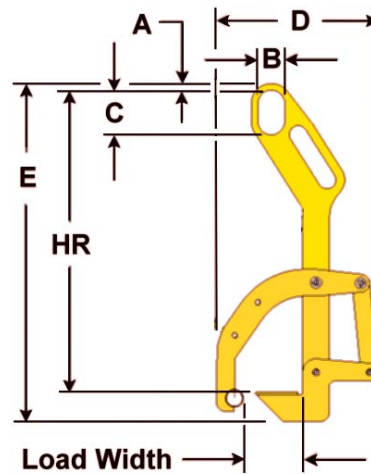
Model WP - Wall Pick



INSTOCK PROGRAM

PRODUCT FEATURES:

- High quality lifting clamps designed to pick and place prefabricated wall panels used in housing and building construction.
- Designed to lift panels from a horizontal to a vertical position only.
- Locking mechanism prevents the clamp from releasing while loaded.
- The 50' release rope allows the operator to release the clamp from the top of the panel once the load is set and secured.
- Lower lifting plate has an open design so it will clear nails or bolts.
- Complies with ASME standards.



SPECIFICATIONS

Model Number	Rated Capacity (lbs.)	Dimensions (inches)										Weight (lbs.)
		Load Width		A	B	C	Closed Position			T		
		Min	Max				D	E	HR			
WP-1.25-4/6	2500	4.00	6.00	.75	3.00	5.00	18.1	37.8	33.75	32.00	53.0	
WP-1.25-8/12	2500	8.00	12.00	.75	3.00	5.00	23.8	39.8	35.75	32.00	62.0	

WP-1.25-4/6 is designed for 2 x 4 or 2 x 6 wall construction.

WP-1.25-8/12 is designed for 2 x 8 to 2 x 12 wall construction.

Operation

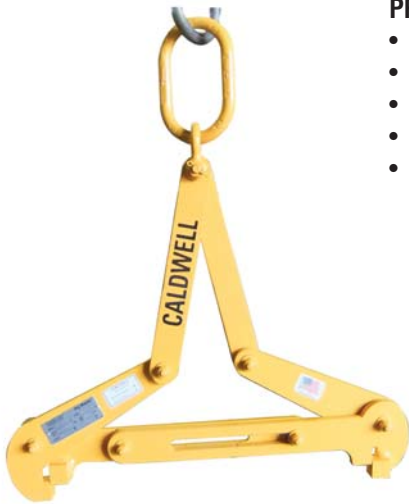


Upending Only



Clamps, Grabs & Tongs

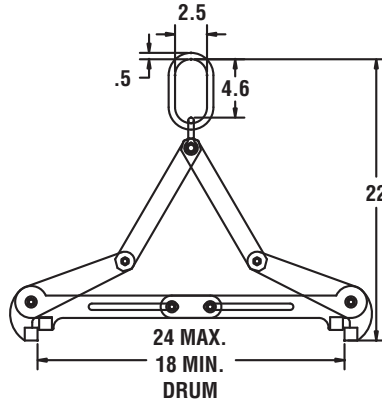
Model VDG - Vertical Drum Grab



PRODUCT FEATURES:

- This vertical drum grab is ideal for handling open or closed-headed steel* drums.
- No fasteners, binders, or rings to put around drum.
- Grab allows drums to be closely stored to maximize floor space.
- Grab will not damage drum.
- Complies with ASME standards.

INSTOCK PROGRAM



NOTE: Dimensions shown in inches.

SPECIFICATIONS

Model Number	Rated Capacity (tons)	Weight (lbs.)
150 - 1	1	19



WARNING
Do not use for pouring or tilting drum.

*Not recommended for open steel drums containing free flowing liquids or drums with removable lid affixed with a tension band.

Model VDC - Vertical Drum Clamp

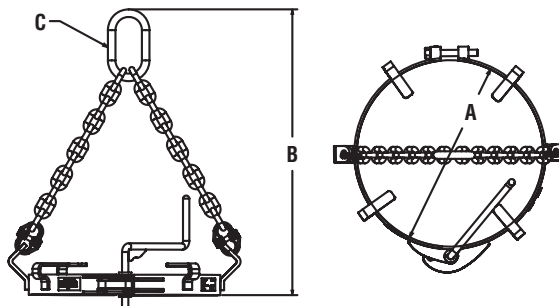
The Model VDC is used for vertical lifting and transporting of metal drums. Equipped with a past center locking device which secures the clamp tightly to the drum. The Model VDC is capable of handling one drum at a time.



PRODUCT FEATURES:

- Vertically lift and transport metal drums.
- Lock secures clamp tightly to the drum.
- Built-in rim brackets for easy alignment.

NEW



SPECIFICATIONS

Model Number	Rated Capacity (lbs.)	Drum Diameter	Standard B	Standard C	Weight (lbs.)
VDC-30-55	3000	22-1/2	25	3 x 6	25
VDC-30-30	3000	18-1/2	25	3 x 6	24
VDC-30-20	3000	16-1/2	25	3 x 6	23



Pipe & Manhole Handling



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Rig-Master® Section
2014-2016 Master Catalog

Model PC - "Tea Cup" Pipe Carrier



PRODUCT FEATURES:

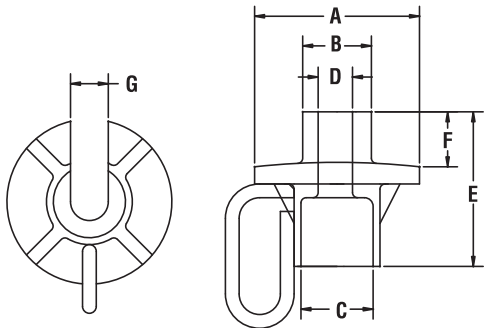
- An efficient way to handle concrete water and sewer pipes.
- The Caldwell "Tea Cup" Pipe Carrier will save you time and money.
- Three sizes available, to handle from 3/4" to 1-1/2" cable, and lift up to 18 tons.
- Optional "Spoon Handle" allows the PC-3/4 "Tea Cup" to be guided into small diameter pipes.
- Complies with ASME standards.

INSTOCK PROGRAM

SPECIFICATIONS

Model Number	Rated Capacity (tons)	Dimensions (inches)							Weight (lbs)
		A	B	C	D	E	F	G	
PC-3/4*	6.6	5.56	2	2.13	1.13	4.75	1.75	1.13	9
PC-1	13	6	2.50	2.63	1.38	5.75	1.75	1.38	12
PC-1 1/2	18	8	3	3.25	1.63	7.63	2.75	1.63	22

* Can use "Spoon Handle" with this model.



WARNING
Use only for vertical lifting

Model PC – Low Profile "Tea Cup" Pipe Carrier

Same quality engineering as the standard model plus:

PRODUCT FEATURES:

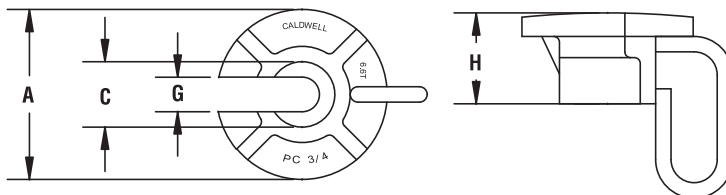
- Only wire rope needs to be inserted through pipe.

SPECIFICATIONS

Model Number	Rated Capacity (tons)	Dimensions (inches)				Weight (lbs.)
		A	C	H	G	
PC-3/4-F*	6.6	5.56	2.13	3.44	1.13	9
PC-1-F	13	6	2.63	4.38	1.38	12
PC-1 1/2-F	18	8	3.25	5.13	1.63	22

INSTOCK PROGRAM

* Can use "Spoon Handle" with this model.



Pipe & Manhole Handling

“Tea Cup” Pipe Carrier Options

INSTOCK PROGRAM

OPTION SH - “Spoon Handle”

Length 61.1" with slight bend for ease of use.



“Spoon Handle” for PC-3/4 only please order SH-3/4. (Includes bolt on lip)



OPTION LS - “Tea Cup” Lifting Sling

SPECIFICATIONS

Use With	Model Number	Rated Capacity (tons)	Sling Dia. (in.)	Standard Length* (ft.)	After Swage (in.)		Wt. (lbs.)
					A	B	
PC-3/4	LS-3/4	4.9	3/4	5	3.25	1.55	9
	LS-7/8	6.6	7/8	5	3.86	1.80	14
PC-1	LS-1	8.5	1	5	4.36	2.05	19
	LS-1 1/8	10	1 1/8	5	4.81	2.30	26
	LS-1 1/4	13	1 1/4	5	5.42	2.56	33
PC-1 1/2	LS-1 1/2	18	1 1/2	5	6.52	3.00	52

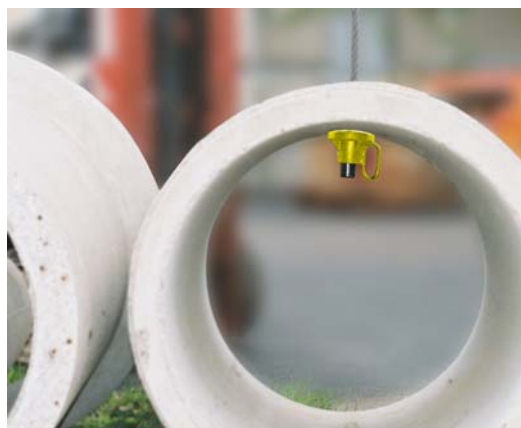
NOTE: INSTOCK on standard 5' length only.

*Other sizes available 3' minimum length.

Operation



Drop pipe carrier lifting sling through hole in pipe. Align and insert “Tea Cup” pipe carrier into lifting sling.



Once set, you are ready to lift the pipe.

Pipe & Manhole Handling

Model CPP - Pipe Pick™

The patented concrete Pipe Pick™ is a quicker, safer, and cleaner way of handling precast concrete pipe.



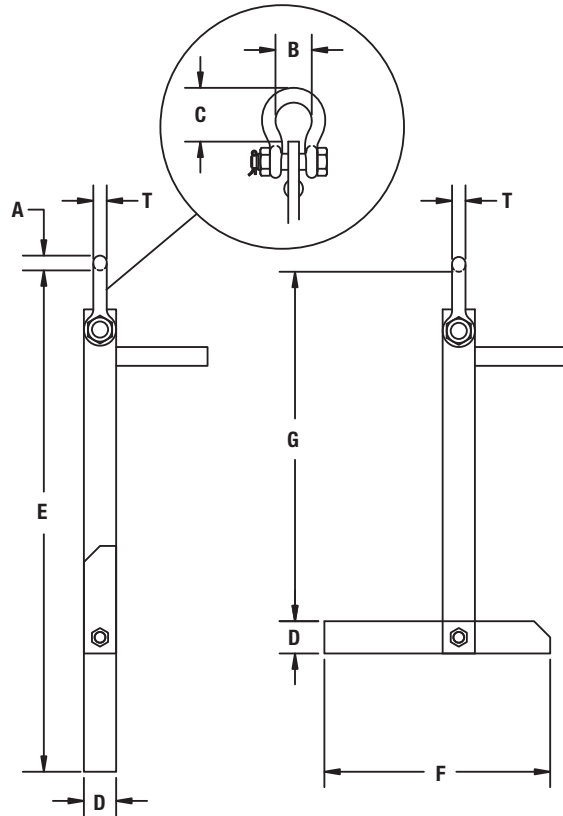
The bigger the job, the more you'll like the **Pipe Pick™**.



PRODUCT FEATURES:

- Simple and fast.
- No need to reach inside the pipe.
- Worker remains above the pipe at all times.

INSTOCK PROGRAM



Patent No. 5,820,186



SPECIFICATIONS

Model Number	Capacity (tons)	Minimum Pipe I.D.	Dimensions (in.)				Bail Dimensions (in.)				Weight (lbs.)
			D	E	F	G	A	B	C	T	
CPP-1.5	1-1/2	12	1.5	23	10.50	16.25	0.62	1.62	2.37	0.62	10
CPP-3	3	14	1.75	27.62	12	20	0.75	1.93	2.93	0.75	18
CPP-5	5	16	2.25	43.5	13	36	1	2.75	3	1	38

Pipe & Manhole Handling

Model CPP - Pipe Pick™

Simply insert the Pipe Pick™ into the lifting hole in the pipe — tilt — to engage the beveled edge — and lift up! You can now lift and set the pipe.



Insert



Tilt



Lift

To remove the Pipe Pick™ once the pipe is set, lower the Pipe Pick™; the counter weighted lift arm automatically falls straight and the Pipe Pick™ can be removed from the pipe.



Lower



Tilt



Remove

Pipe & Manhole Handling



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Model CPL - Leveling Pipe Lifter

Lets you place and position concrete pipe up to 8' in length in one operation.



PRODUCT FEATURES:

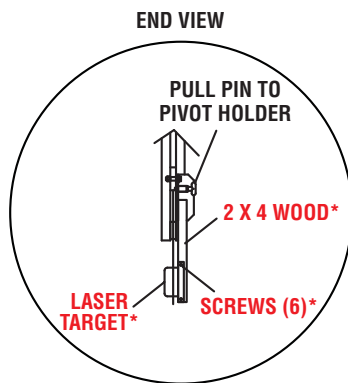
- Stand-up leveling bail adjusts for varying pipe lengths.
- Adjustable bail stop makes repetitive lifts easy to handle.
- Pipe stop helps drive the pipe into position.
- Built-in laser target holder allows operator to set & laser position at the same time.*
- Positioning handle.
- Complies with ASME standards.



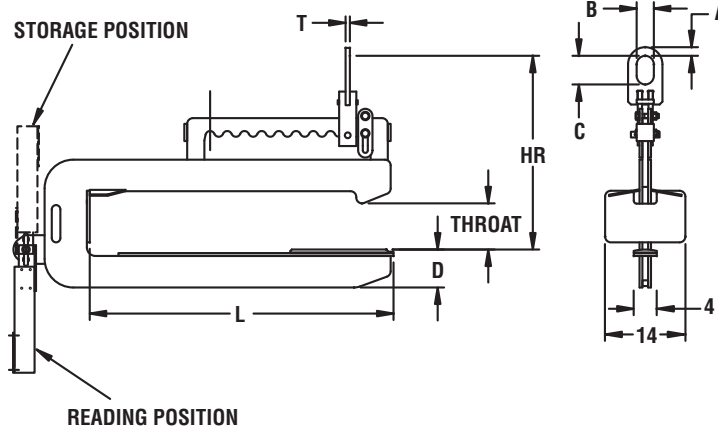
SPECIFICATIONS

Model Number	Dimensions (inches)									Capacity (lbs.)	Weight (lbs.)
	Min. Pipe I.D.	Throat	Arm (D)	Arm Length (L)	HR	Bail Dimensions					
						A	B	C	T		
CPL-1.5	8	8	6.62	53	33.80	1.50	3	5	0.75	3000	300
CPL-3	10	8	6.87	53	35.63	1.50	3	5	1	6000	500
CPL-4.5	10	8	7.44	54	37.31	2	4	7	1.25	9000	700
CPL-6	12	8.50	8.38	54.50	39.25	2	4	7	1.25	12000	750
CPL-9	12	10	8.25	55	41.63	2	4	7	1.25	18000	1100
CPL-15	14	12	10.75	58	48.12	2.50	4	7	1.50	30000	1550

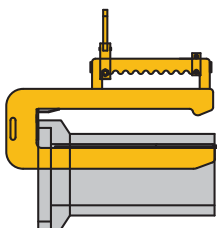
*NOTE: Laser target, 2x4 and screws not included.



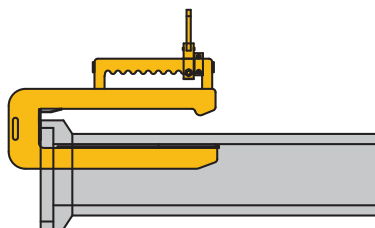
*CUSTOMER SUPPLIED ITEMS



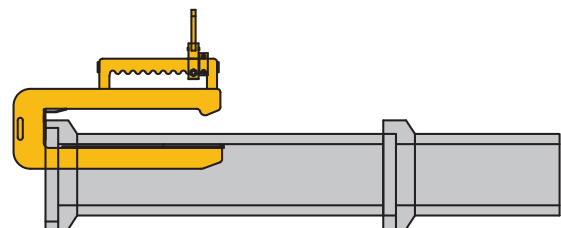
Operation



4' Carry Position
or Empty Position



8' Carry Position



Use to easily join
lengths of pipe.

Pipe & Manhole Handling

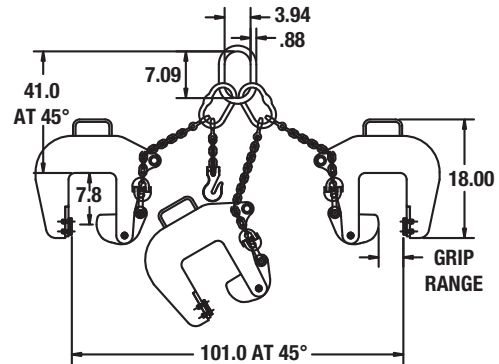
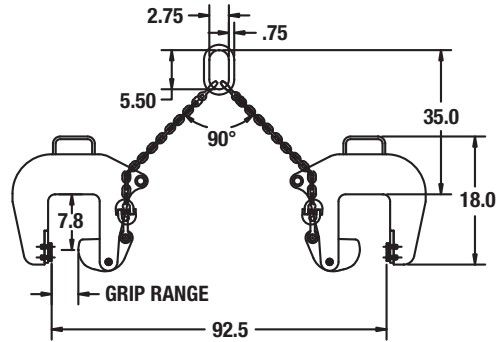
Model MHL - Concrete Manhole Housing Lifter

NEW

INSTOCK PROGRAM

PRODUCT FEATURES:

- Handle concrete pipe efficiently without damage to concrete seat.
- Legs can be quickly positioned to safely balance the load.
- 2 or 3 leg models available.
- Handles 4" – 6" concrete wall thickness.
- Requires constant tension to maintain positive load contact.
- Complies with ASME standards.



3-Leg Model

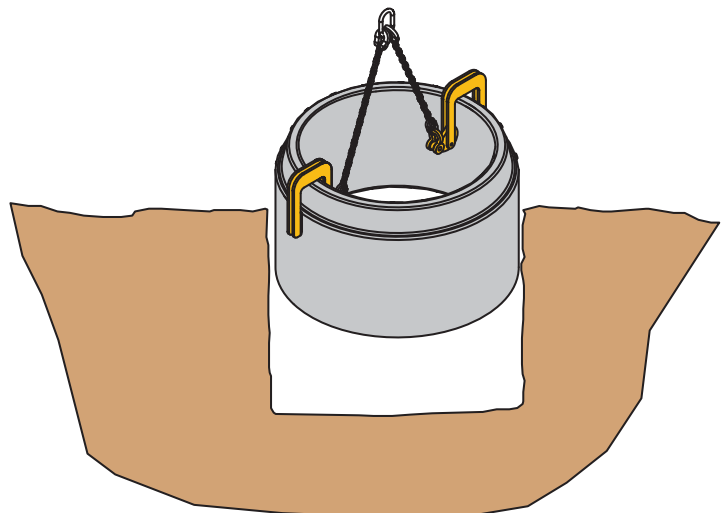
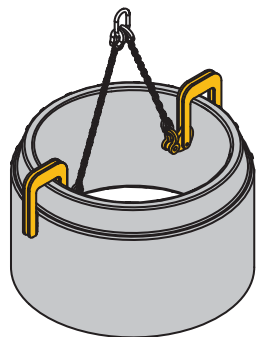
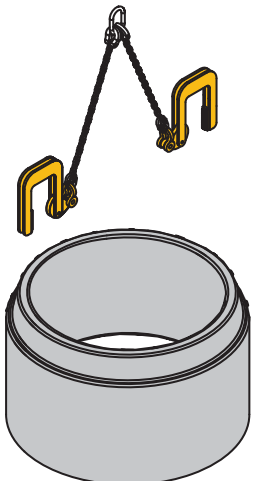
NOTE: Dimensions shown in inches.

SPECIFICATIONS

Model Number	Grip Range Min-Max (in.)	Description	Maximum Diameter (in.)	Capacity (lbs.)	Weight (lbs.)
MHL-5-2/4	2 - 4	2-Leg Model - Two 42" Legs	92.5	10000	126
MHL-5-4/6	4 - 6				131
MHL-7.1/2-2/4	2 - 4	3-Leg Model - Two 42" Legs - One 72" Leg With Chain Shortener	101	15000	176
MHL-7.1/2-4/6	4 - 6				181
MHL-C-2/4	2 - 4	Clamp Only	-	5000	40
MHL-C-4/6	4 - 6				45

NOTE: Reverse cam action eliminates slippage tendency. Consult factory for other housing configurations.

Operation

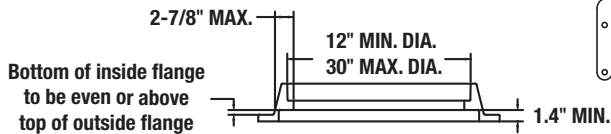


Pipe & Manhole Handling

Model MCL - Manhole Sleeve Lifter

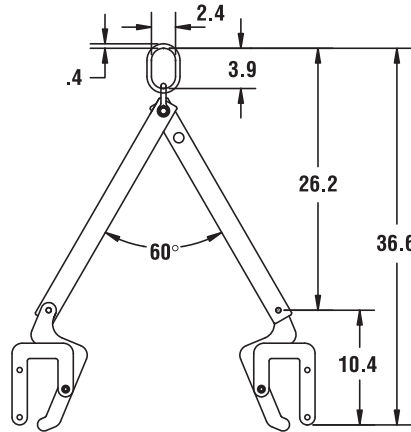


Sleeve Dimensions



PRODUCT FEATURES:

- Quick and efficient way to place cast manhole sleeves.
- Easily attaches to and releases from the load.
- 2 or 3 leg models available.
- Complies with ASME standards.



NOTE: Dimensions shown in inches.

INSTOCK PROGRAM



3-Leg Model
MCL-3/4

SPECIFICATIONS

Model Number	Description	Capacity (lbs.)	Wt. (lbs.)
MCL-1/2	2-Leg Version	1000	24
MCL-3/4	3-Leg version: 2-18" Legs, 1-30" Leg With Shortener	1500	26
MCL-C	Clamp Only	500	6

NOTE: Flange diameter range 12" - 30".
Not for straight walled lifts.
Consult factory for other frame configurations.

Model MML - Magnetic Manhole Lifter

Moving heavy manhole covers becomes a one-person operation, reducing the potential for injury on the job.

PRODUCT FEATURES:

- Handle extended for additional leverage & breaks down for easy storage.
- Use for covers or grates.
- Features an adjustable 4-position safety latch hook and three handle angle positions making this dolly the most ergonomic on the market.

SPECIFICATIONS - Steel Dolly* w/ Standard Magnet

Model Number	Lid Size	Magnet Weight (lbs.)	Dolly Weight (lbs.)
MML-26-S	Up To 26" Diameter	22	46
MML-35-S	30" To 35" Diameter	53	46
MML-36-S	36" Diameter & Up	51	46

SPECIFICATIONS- Aluminum Dolly* w/ Lightweight Magnet

Model Number	Lid Size	Magnet Weight (lbs.)	Dolly Weight (lbs.)
MML-26-A	Up To 26" Diameter	18	29
MML-35-A	30" To 35" Diameter	34	29
MML-36-A	36" Diameter & Up	43	29

* Wheel diameter on dolly is 6". Other sizes are available.



Model MML-26 or MML-35



Model MML-36

Pipe & Manhole Handling

Model PLT - Pipe Tongs



PRODUCT FEATURES:

- Pipe Tongs are made of sturdy construction to handle pipe, round bars and cast pipe.
- Tongs are provided with steel curved gripping arms.
- Optional replaceable polyurethane pads available to protect smooth or polished surfaces.
- Load must be balanced and controlled when lifting.
- Use in pairs with a lifting/spreader beam for added stability.
- Complies with ASME standards.

INSTOCK PROGRAM

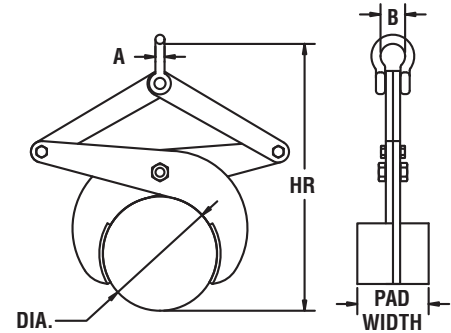
QUICKSHIP PROGRAM

SPECIFICATIONS - Fixed Diameter

Model Number	Rated Capacity (lbs.)	Dia. (in.)	HR Headroom (in.)	A (in.)	B (in.)	Weight (lbs.)
108-1/2-5	1000	5	15.50	0.5	1.31	17
108-1-8	2000	8	23.50	0.5	1.31	25

SPECIFICATIONS - Adjustable Diameter

Model Number	Rated Capacity (lbs.)	Bare Steel Range Min.-Max. (in.)	Urethane Pad Range Min.-Max. (in.)	HR Headroom Min.-Max. (in.)	Pad Width (in.)	A (in.)	B (in.)	Wt. (lbs.)
108-1/2-2/4	1000	2 - 4	1.25 - 3.25	11.21 - 15.15	2.5	0.5	1.31	8
108-1-4/8	2000	4 - 8	3.25 - 7.25	19.18 - 26.49	5	0.5	1.31	29
108-1-7/12	2000	7 - 12	6.25 - 11.25	25.95 - 35.81	6	0.5	1.31	49
108-1-10/15	2000	10 - 15	9.25 - 14.25	30.03 - 38.67	6	0.5	1.31	77
108-1-15/20	2000	15 - 20	14.25 - 19.25	59.53 - 64.72	8	.97	2.28	225



Operation



WARNING
Use only for vertical lifting.

Pipe & Manhole Handling

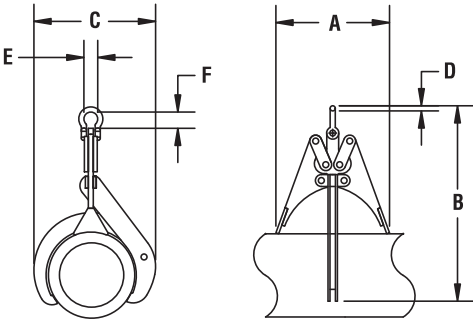
Model C & S - Pipe Grabs



INSTOCK PROGRAM

PRODUCT FEATURES:

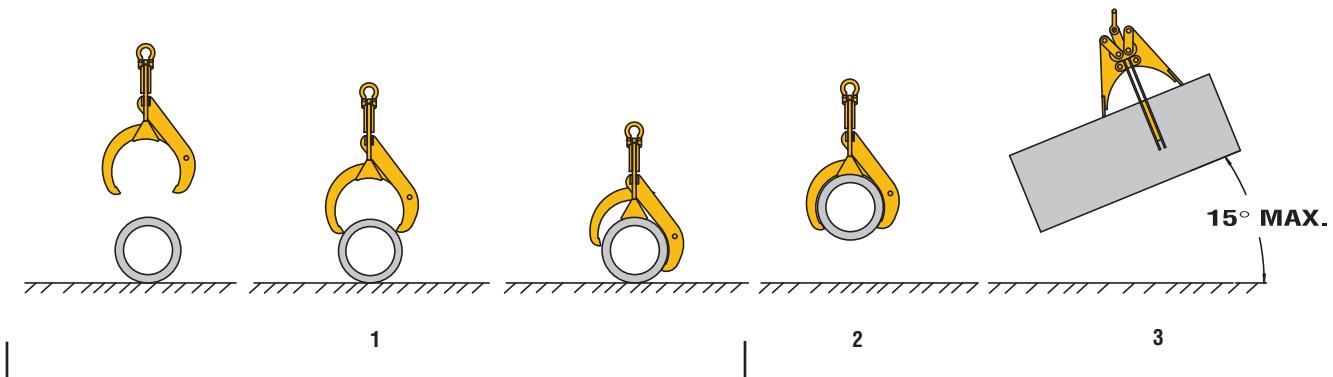
- Heavy duty automatic clamping design.
- Outriggers stabilize the pipe during lift.
- No blocking is required.
- The operator only has to guide the clamp into place.
- Pipes are handled quickly and efficiently when properly balanced.
- Excellent for cast iron, steel pipe, tubing, and other cylindrical objects.
- Pipe grab sizes listed handle ASA cast iron pipe - standard, extra strong, and double strong (all have same O.D.).
- Complies with ASME standards.



SPECIFICATIONS

Rated Capacity (lbs.)	Cast Iron		Steel		Dimensions (inches)						Weight (lbs.)
	Model Number	Pipe O.D. (in.)	Model Number	Pipe O.D. (in.)	A	B	C	D	E	F	
450	C - 3	4.0	S - 3	3.5	5	10	6	.38	1.03	1.44	7
600	C - 4	4.8	S - 4	4.5	8	14	7	.44	1.16	1.69	9
1000	C - 6	6.9	S - 6	6.63	11	17	11	.50	1.31	1.88	15
1400	C - 8	9.05	S - 8	8.63	13	22	14	.50	1.31	1.88	25
2000	C - 10	11.1	S - 10	10.75	15	27	17	.63	1.69	2.38	47
2500	C - 12	13.2	S - 12	12.75	18	32	20	.63	1.69	2.38	72
3500	C - 14	15.3	S - 14	14.0	22	38	23	.88	2.28	3.31	105

Operation



1. Lower the grab and place on pipe. As rope is loosened grab will open and seat on pipe.
2. Lift slowly with grab engaged to check for balance.
3. Load should be level when transported. Maximum of 15° angle when positioning pipe.

WARNING

The lifter shall not touch obstructions during load movement. The load or lifter shall not be slid on the floor or other surface.

Pipe & Manhole Handling

Model PH - Pipe Hooks

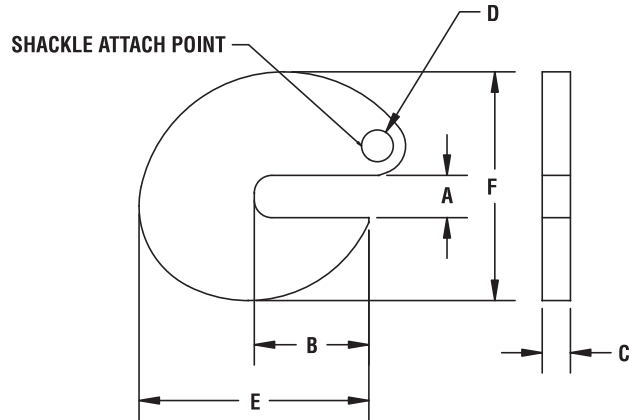


NOTE: Rated capacity is per pair.

INSTOCK PROGRAM

PRODUCT FEATURES:

- Designed for lifting and carrying steel or cast iron pipe.
- Complies with ASME standards.

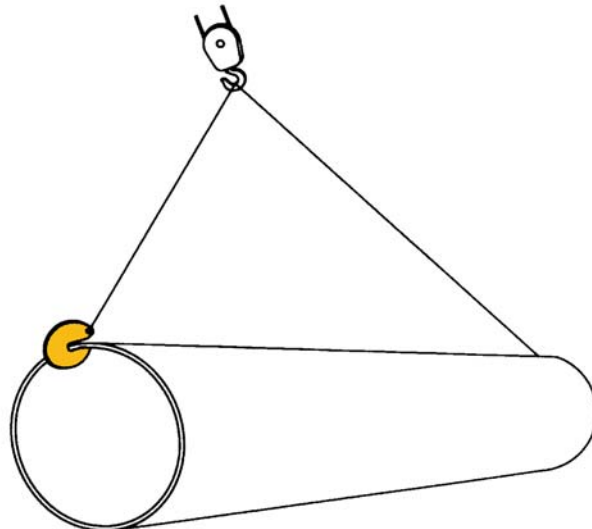
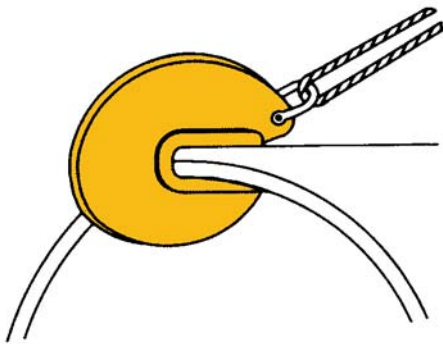


SPECIFICATIONS

Model Number Per Pair	Rated Capacity (tons) Per Pair	Shackle Pin Diameter (in.)	Bolt Type Anchor Shackle Capacity (tons)	Dimensions (inches)						Weight Per Pair (lbs.)
				A	B	C	D	E	F	
PH 1	2	5/8	2	1.50	1.84	.63	.69	3.75	5.24	7
PH 2	4	3/4	3.25	1.50	2.61	.75	.81	5.69	6.76	13
PH 4	8	1	6.5	1.50	3.86	1	1.06	7.75	7.79	23
PH 5	10	1-1/8	8.5	1.50	4.06	1.25	1.19	8.15	8.93	38
PH 7.5	15	1-3/8	12	1.50	4.06	1.75	1.44	8.15	8.93	56

Custom designed sizes available for larger capacities and other material types.

Operation



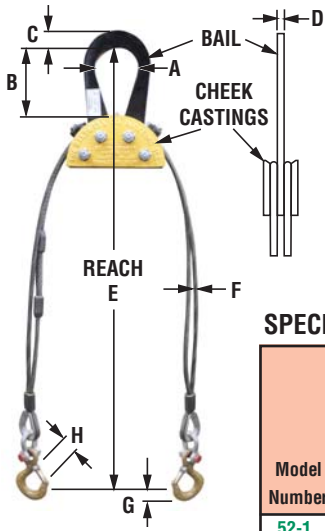
WARNING
Use only in pairs.

NOTE: Load must be able to support its own weight under compression.

F.27

Load Leveling Slings

Model AL2 - Adjust-A-Leg® Two Point Lift



INSTOCK PROGRAM

PRODUCT FEATURES:

- Allows crane hook to be over the load's center of gravity in unbalanced or non-symmetrical two point lifts.
- Quickly adjusts to center of gravity.
- Can be locked into place for constant lifts.
- Can be used in conjunction with spreader beams.
- Ideal for use in rigging applications and machinery moving.
- Complies with ASME standards.

SPECIFICATIONS

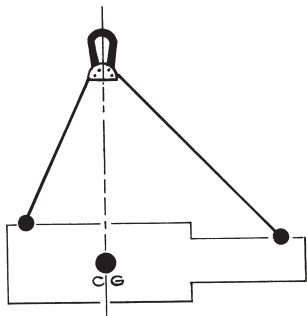
Model Number	Rated Capacity (tons) with legs @45° off horizontal*	E Standard Reach (ft.)	F Wire Rope Diameter (inches)	Top Assembly Dimensions (inches)				Alloy Steel Hooks With Safety Latches Dimensions			Anchor Shackle Size (in.)	Weight (lbs.)
				A	B	C	D	Size (tons)	H (in.)	G (in.)		
52-1	1	3	5/16	3-1/8	5	1-1/8	5/8	1	1	3/4	3/8	7-1/2
52-2	2	4	5/16	3-1/8	5	1-1/8	5/8	1-1/2	1-1/16	27/32	1/2	20
52-4	4	6	7/16	3-1/8	5	1-1/8	5/8	3	1-1/4	1-1/8	5/8	32
52-6	6	9	9/16	5-1/4	8-3/8	1-3/4	13/16	5	1-1/2	1-3/8	3/4	76
52-8	8	9	5/8	5-1/4	8-3/8	1-3/4	7/8	7	1-7/8	1-7/8	7/8	90
52-12	12	9	3/4	5-5/8	8-3/4	2-3/8	1-1/16	11	2-1/4	2-1/8	1-1/8	152
52-15	15	9	7/8	5-5/8	8-3/4	2-3/8	1-1/16	11	2-1/4	2-1/8	1-1/4	175
52-15L	15	9	7/8	9	15	2-1/2	1-1/16	11	2-1/4	2-1/8	1-1/4	188
52-22	22	9	1-1/8	9	15	3-1/2	1-1/2	NO HOOKS FURNISHED			1-1/2	350
52-28	28	9	1-1/4	9	15	3-1/2	1-3/4	NO HOOKS FURNISHED			1-3/4	385
52-36	36	9	1-1/2	9	15	3-1/2	2	NO HOOKS FURNISHED			2	450
52-50	50	9	1-3/4	9	15	3-1/2	2-1/4	NO HOOKS FURNISHED			2	525
52-62	62	12	2	9	15	6-1/4	3	NO HOOKS FURNISHED			2-1/2	1200
52-75	75	15	2-1/4	9	15	6-1/4	4	NO HOOKS FURNISHED			3	1500

NOTE: Reach calculation — approximately 70% distance between pick up points.

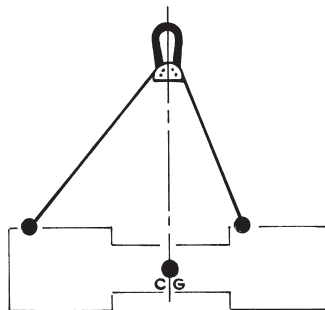
*Unit must be loaded with at least 10% of rated capacity.

Operation

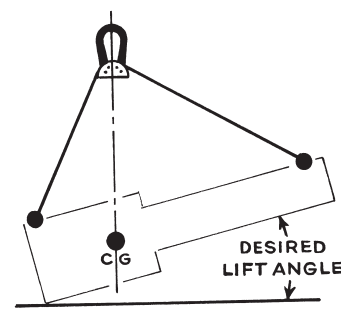
Many ways to use Model AL2 Adjust-A-Leg® Two Point Lifts



For loads that are heavier on one end, with the center of gravity off-center.



For loads that are balanced and symmetrical, but with lifting points not located in a position for a level lift.



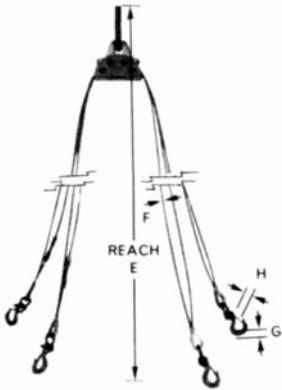
For lifting loads at any desired angle, simply by lifting with sling legs at desired angle.

Load Leveling Slings

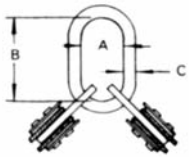
Model AL4 - Adjust-A-Leg® Four Point Lift

PRODUCT FEATURES:

- Allows crane hook to be over the center of gravity in unbalanced or non-symmetrical four point lifts.
- Quickly adjusts to center of gravity.
- Can be locked into place for constant lifts.
- Can be used in conjunction with box type spreader beams.
- Ideal for use in rigging applications and machinery moving.
- Complies with ASME standards.



Patent No. 2,919,949



SPECIFICATIONS

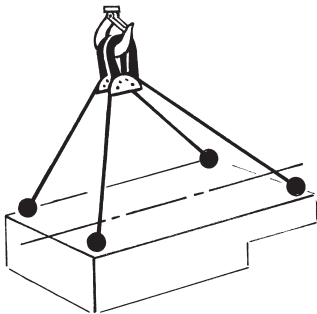
Model Number	Rated Capacity (tons) with legs @45° off horizontal*	E Standard Reach (ft.)	F Wire Rope Diameter (in.)	Top Assembly Dimensions (inches)			Alloy Steel Hooks With Safety Latches Dimensions			Anchor Shackle Size (in.)	Weight (lbs.)
				A	B	C	Size (tons)	H (in.)	G (in.)		
54-2	2	4	5/16	3	6	5/8	1 1/2	1 1/16	27/32	1/2	18
54-4	4	6	5/16	3 1/2	7	1	1 1/2	1 1/16	27/32	5/8	45
54-8	8	9	7/16	3 1/2	7	1	5	1 1/2	1 3/8	5/8	70
54-12	12	9	9/16	4 3/8	8 3/4	1 1/4	7	1 7/8	1 11/16	1 1/8	170
54-16	16	9	5/8	5 1/2	10 1/2	1 1/2	7	1 7/8	1 11/16	1 1/8	210
54-24	24	9	3/4	6	12	1 3/4	11	2 1/4	2 1/8	1 1/4	345
54-30	30	9	7/8	7	14	2	NO HOOKS FURNISHED			1 1/4	410
54-44	44	9	1 1/8	7	14	2	NO HOOKS FURNISHED			1 3/4	770
54-56	56	9	1 1/4	8	16	2 1/2	NO HOOKS FURNISHED			1 3/4	850
54-72	72	12	1 1/2	9 1/2	16	2 3/4	NO HOOKS FURNISHED			2	980
54-100	100	15	1 3/4	10	20	3 1/4	NO HOOKS FURNISHED			2	1180
54-150	150	20	2 1/4	14	22	4 1/2	NO HOOKS FURNISHED			3	3600

NOTE: Reach calculation — approximately 70% distance between pick up points (diagonally).

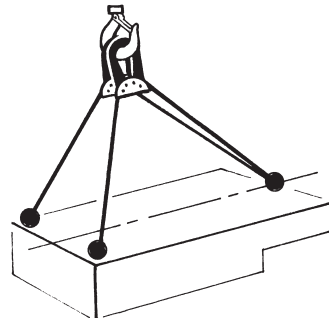
*Unit must be loaded with at least 10% of rated capacity.

Operation

Many ways to use Model AL4 Adjust-A-Leg® Four Point Lifts



To achieve balance in one plane and stability in another in a four point lift.



To achieve balance in one plane and stability in another in a three point lift.

Load Leveling Slings

Model CSS - Chain Sling Saddle Rings

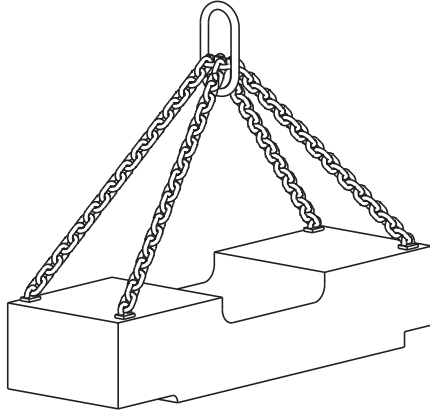
PRODUCT FEATURES:

- Allows unbalanced loads to be lifted evenly.
- Allows full adjustment of sling length.
- Rated for up to Grade 100 Chain.
- Can use many different chain lengths with only one chain sling saddle ring.
- Can be used with various chain sling end fittings.
- Economical and easy to use.

Double Leg (DL)



Shown with optional chain sling.



Quadruple Leg Shown

INSTOCK PROGRAM

How to order:

Double Leg - CSS-9/32 DL
 Quadruple Leg - CSS-9/32 QL

Quadruple Leg (QL)



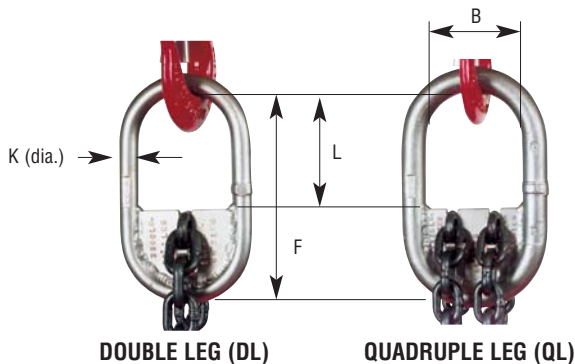
Shown with optional chain sling.

SPECIFICATIONS - Grade 100 Chain

Model Number	Chain Size (inches)	Overall Ring Height (inches)	Capacity (lbs.) For Grade 100 Chain								Weight (lbs.)	
			Single Leg	Double Leg Loading			Quadruple Leg Loading					
			90°	60°	45°	30°	60°	60°	45°	45°	30°	30°
CSS-9/32	9/32	6	4300	7400	6100	4300	11200	9100	6450	2	4	
CSS-3/8	3/8	7.50	8800	15200	12400	8800	22800	18600	13200	4	8	
CSS-1/2	1/2	10	15000	26000	21200	15000	39000	31800	22500	9	11	

SPECIFICATIONS - Grade 80 Chain

Model Number	Chain Size (inches)	Overall Ring Height (inches)	Capacity (lbs.) For Grade 80 Chain								Weight (lbs.)	
			Single Leg	Double Leg Loading			Quadruple Leg Loading					
			90°	60°	45°	30°	60°	60°	45°	45°	30°	30°
CSS-9/32	9/32	6	3500	6100	4900	3500	9100	7400	5200	2	4	
CSS-3/8	3/8	7.50	7100	12300	10000	7100	18400	15100	10600	4	8	
CSS-1/2	1/2	10	12000	20800	17000	12000	31200	25500	18000	9	11	



DOUBLE LEG (DL)

QUADRUPLE LEG (QL)

Patent No. 4,241,575

SPECIFICATIONS

Model Number	Style	Dimensions (in.)			
		B	F	K	L
CSS-9/32	DL	2-5/8	5-5/8	37/64	3
	QL	3-1/8	6-3/4	13/16	3-3/4
CSS-3/8	DL	3	6-3/4	13/16	3-1/2
	QL	4	9-1/4	1-1/8	5-9/32
CSS-1/2	DL	4	9-1/4	1-1/8	4-1/2
	QL	4	9-1/8	1-1/4	4-1/2

WARNING
 Do not exceed rated capacities.

Load Leveling Slings

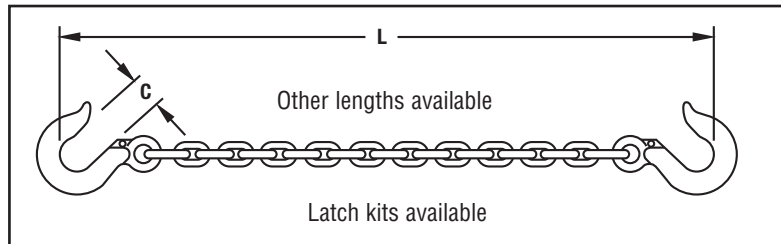
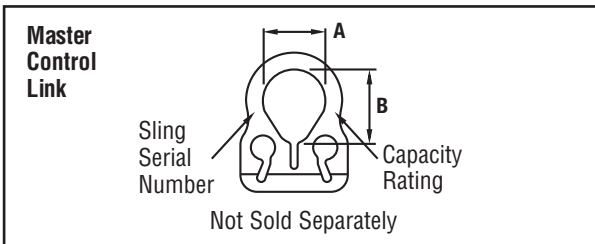
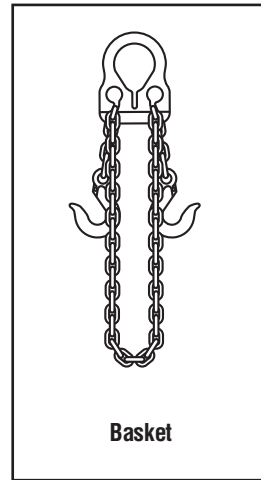
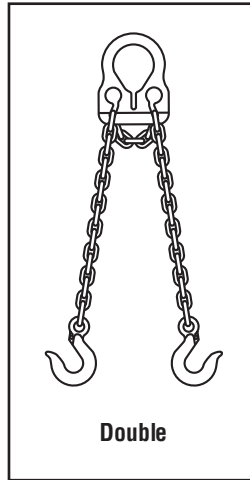
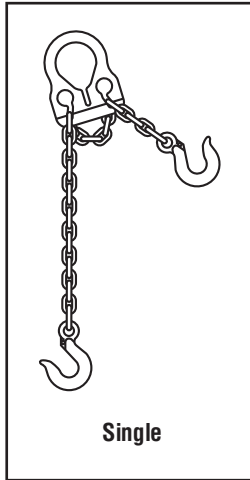
Adjust-A-Link



PRODUCT FEATURES:

- Versatile assembly does many jobs.
- Easily adjustable to accommodate a wide range of applications.
- Heat-treated alloy steel construction.
- Powder coating of Master Control Link helps prevent rust.
- Plate is permanently stamped with capacity and serial number.

QUICKSHIP PROGRAM



SPECIFICATIONS

Model Number	Rated Cap. (lbs.)		Chain Size (in.)	Dimensions (in.)			Weight (lbs.)	
	Single @ 90°	Double @ 60°		A	B	C		
CAAL-7/32-6 CAAL-7/32-10	2700	4700	7/32	2-3/16	2-11/16	15/16	6 10	5 7
CAAL-9/32-6 CAAL-9/32-10	4300	7400	9/32	2-7/8	3-1/2	1-1/16	6 10	8 11
CAAL-3/8-10 CAAL-3/8-14	8800	15200	3/8	3-3/4	4-5/8	1-9/16	10 14	19 25
CAAL-1/2-10 CAAL-1/2-14	12000	20800	1/2	4-3/8	4-3/8	2	10 14	42 52

Never substitute another chain or exceed the rated capacity. The load bearing chain must be seated at the base of adjusting slot of the Master Control Link. The Alloy Chain and Master Control Link shall not be used separately for general purpose lifting.

7/32, 9/32, and 3/8 Master Control Links use Grade 100 Chain.

1/2" Master Control Link uses Grade 80 Chain.

Not designed for angles less than 45°.

WARNING
Minimum rigging angle is 45°.

Bent Bar Products

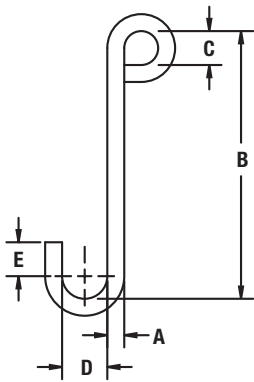
Model AJH / BJH / CJH - J-Hooks



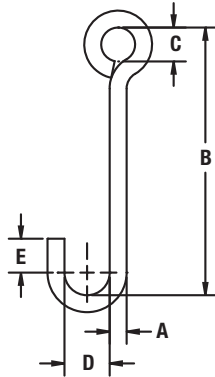
PRODUCT FEATURES:

- Welded lifting eye.
- Heat Treated.
- Proof tested to 2:1 with certificate issued.
- Shot-blast finish with rust inhibitor.
- Serial number and capacity engraved on product.
- Custom designs available.

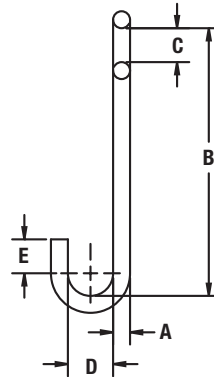
INSTOCK PROGRAM



Style A



Style B



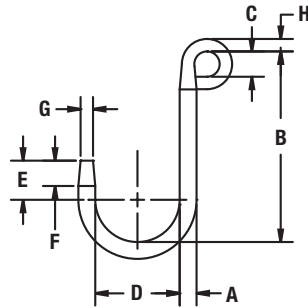
Style C

SPECIFICATIONS

Style A Model Number	Style B Model Number	Style C Model Number	Working Load Limit (lbs.)	Dimensions (inches)					Weight (lbs.)
				A	B	C	D	E	
AJH-2-031	BJH-2-031	CJH-2-031	250	0.31	5	0.75	1.25	0.25	0.3
AJH-3-038	BJH-3-038	CJH-3-038	350	0.38	6	0.75	1.50	0.38	0.4
AJH-6-050	BJH-6-050	CJH-6-050	650	0.50	8	0.75	2.00	0.50	1.0
AJH-8-063	BJH-8-063	CJH-8-063	850	0.63	9	1.00	2.50	0.63	1.6
AJH-12-075	BJH-12-075	CJH-12-075	1200	0.75	10	1.00	3.00	0.75	2.6
AJH-15-088	BJH-15-088	CJH-15-088	1500	0.88	12	1.00	3.50	0.88	4.0
AJH-20-100	BJH-20-100	CJH-20-100	2000	1.00	14	1.25	4.00	1.00	6.2
AJH-22-113	BJH-22-113	CJH-22-113	2250	1.13	15	1.25	4.50	1.12	8.5
AJH-27-125	BJH-27-125	CJH-27-125	2750	1.25	16	1.50	5.00	1.25	12
AJH-30-138	BJH-30-138	CJH-30-138	3000	1.38	17	1.50	5.50	1.38	15
AJH-35-150	BJH-35-150	CJH-35-150	3500	1.50	18	2.00	6.00	1.50	20
AJH-40-175	BJH-40-175	CJH-40-175	4000	1.75	20	2.50	7.00	1.75	31
AJH-50-200	BJH-50-200	CJH-50-200	5000	2.00	24	3.00	8.00	2.00	53

Bent Bar Products

Model FH - Foundry Hook



PRODUCT FEATURES:

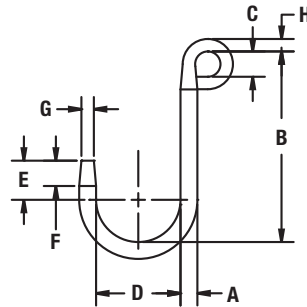
- Welded lifting eye.
- Heat Treated.
- Proof tested to 2:1 with certificate issued.
- Shot-blast finish with rust inhibitor.
- Serial number and capacity engraved on product.
- Custom designs available.



SPECIFICATIONS

Model Number	Working Load Limit (lbs.)	Dimensions (inches)								Weight (lbs.)
		A	B	C	D	E	F	G	H	
FH-5-050	500	0.50	6.00	0.75	2.50	0.75	0.71	0.25	0.50	1
FH-8-063	800	0.63	8.50	0.75	3.50	1.50	0.89	0.31	0.50	2
FH-13-075	1,300	0.75	8.50	0.75	3.50	1.50	1.06	0.38	0.50	2.6
FH-16-088	1,600	0.88	8.50	0.88	3.50	1.50	1.06	0.50	0.75	3.5
FH-25-100	2,500	1.00	8.50	1.00	4.00	1.75	1.42	0.50	0.75	5
FH-35-113	3,500	1.13	8.50	1.00	4.00	2.00	1.60	0.56	0.75	6.5
FH-45-125	4,500	1.25	8.50	1.25	4.00	2.00	1.77	0.63	1.00	8.8
FH-60-150	6,000	1.50	8.50	1.25	5.00	2.50	2.13	0.75	1.00	14

Model FHS - Short Foundry Hook



PRODUCT FEATURES:

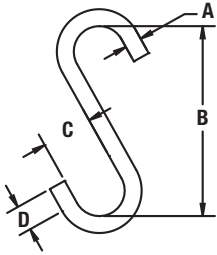
- Shorter reach.
- Welded lifting eye.
- Heat Treated.
- Proof tested to 2:1 with certificate issued.
- Shot-blast finish with rust inhibitor.
- Serial number and capacity engraved on product.
- Custom designs available.

SPECIFICATIONS

Model Number	Working Load Limit (lbs.)	Dimensions (inches)								Weight (lbs.)
		A	B	C	D	E	F	G	H	
FHS-4-050	450	0.50	6	0.75	3	0.75	0.71	0.25	0.50	1
FHS-9-063	900	0.63	6	0.75	3	1.50	0.89	0.31	0.50	1.5
FHS-14-075	1,400	0.75	6	0.75	3	1.50	1.06	0.38	0.50	2.2
FHS-20-088	2,000	0.88	6	0.88	3	1.50	1.06	0.50	0.75	3.0
FHS-30-100	3,000	1.00	6	1.00	3	1.75	1.42	0.50	0.75	4.2
FHS-40-113	4,000	1.13	6	1.00	3	2.00	1.60	0.56	0.75	5.5
FHS-55-125	5,500	1.25	6	1.25	3	2.00	1.77	0.63	1.00	7

Bent Bar Products

Model SH - S-Hook



PRODUCT FEATURES:

- Heat Treated.
- Proof tested to 2:1 with certificate issued.
- Shot-blast finish with rust inhibitor.
- Serial number and capacity engraved on product.
- Custom designs available.

SPECIFICATIONS

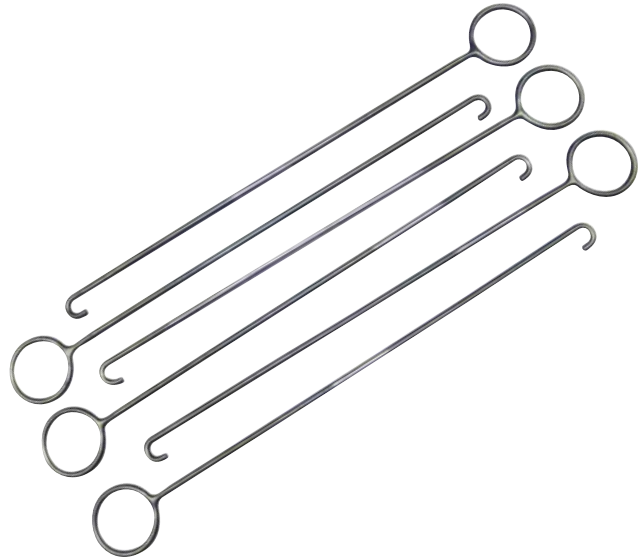
Model Number	Working Load Limit (lbs.)	Dimensions (inches)				Weight (lbs.)
		A	B	C	D	
SH-3-031	325	0.31	2.75	0.75	0.38	0.2
SH-4-038	425	0.38	4.13	1.13	0.56	0.3
SH-7-050	775	0.50	5.50	1.50	0.75	0.7
SH-12-063	1,225	0.63	7.00	1.88	0.94	1.3
SH-17-075	1,750	0.75	8.25	2.25	1.13	2.2
SH-24-088	2,400	0.88	9.50	2.63	1.31	3.6
SH-30-100	3,000	1.00	11.00	3.00	1.50	5.3
SH-49-125	4,900	1.25	13.75	3.75	1.88	11
SH-70-150	7,000	1.50	16.50	4.50	2.25	18
SH-96-175	9,600	1.75	19.25	5.25	2.63	29
SH-125-200	12,500	2.00	22.00	6.00	3.00	42
SH-157-225	15,750	2.25	24.00	6.75	3.38	59
SH-195-250	19,500	2.50	27.50	7.50	3.75	83
SH-235-275	23,500	2.75	30.50	8.25	4.13	110

Special Applications

In addition to the standard Bent Bar Products Caldwell offers, we also have the ability to design and manufacture custom hooks, rings, links or other products from bar stock up to 2-3/4" material.



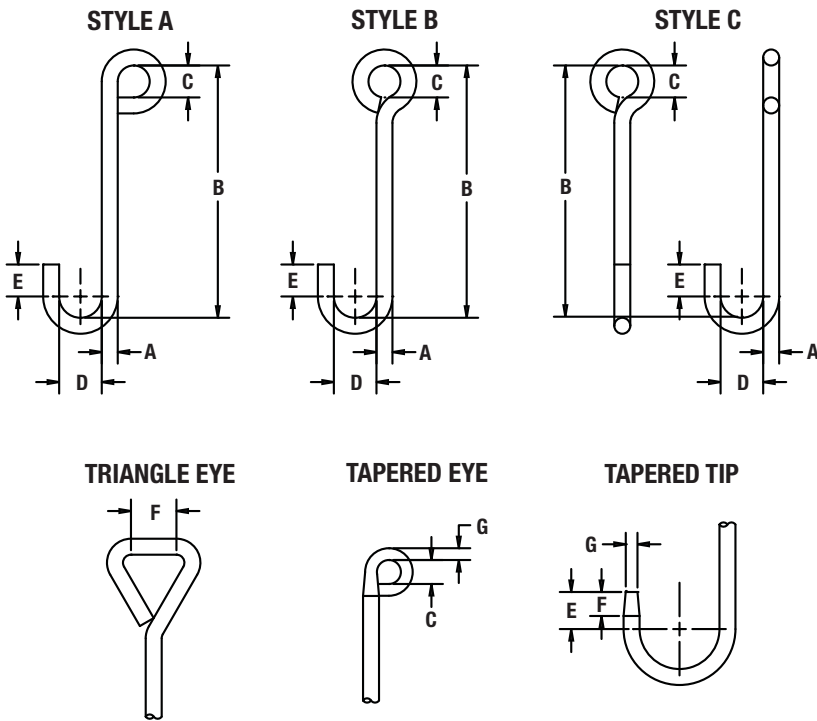
3/4" diameter L-Hooks with 6-1/4" reach, special 6" foot on hook, handle on the back, and a 250 pound working load limit at a specific angle.



3/8" diameter J-Hooks with an oversized eye, 30" long, and a 200 pound working load limit.

Custom Hook Application Evaluation

J-HOOK / FOUNDRY HOOK INFORMATION:



Style Required: _____

Working Load Limit: _____

A: _____

B: _____

C: _____

D: _____

E: _____

Triangle Eye Option

F: _____

Tapered Eye Option

C: _____

G: _____

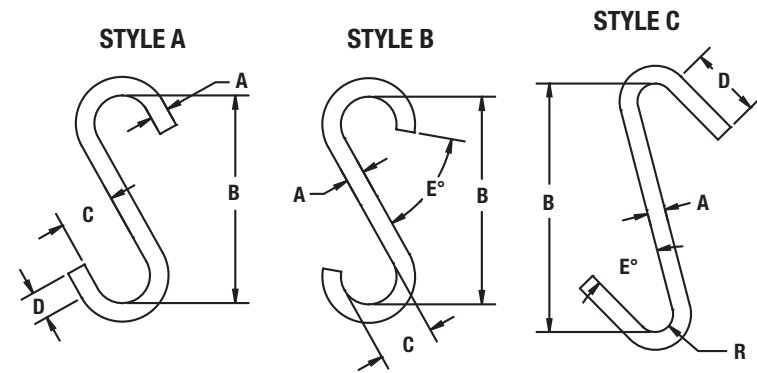
Tapered Tip Option

E: _____

F: _____

G: _____

S-HOOK INFORMATION:



Style Required: _____

Working Load Limit: _____

A: _____

B: _____

C: _____

D: _____

E: _____

R: _____

Contact: _____

Company: _____

Address: _____

City, State, Zip: _____

Phone: _____

Fax: _____

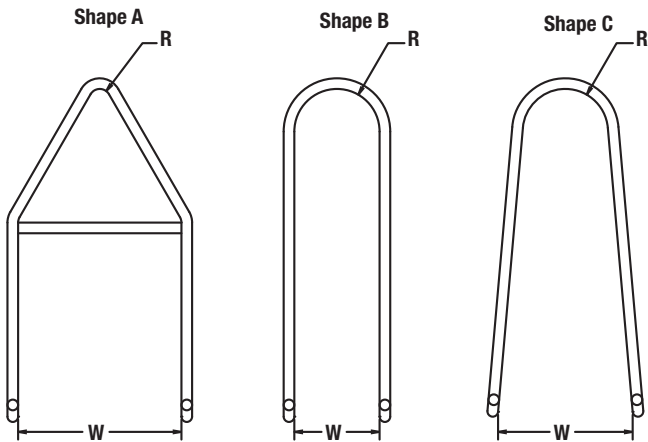
Email: _____

For a price quote on your specific application, please complete the above form and fax to The Caldwell Group at **815-229-5686** or you can complete this form online at www.caldwellinc.com/applications.

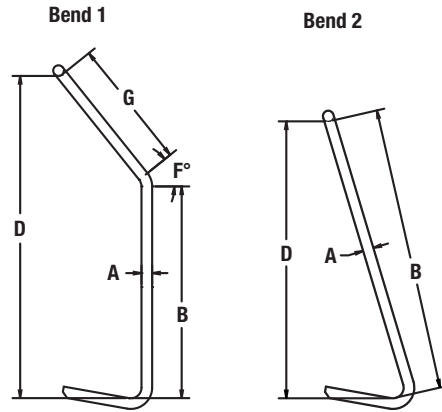
Stirrup Hook Application Evaluation

STIRRUP HOOK INFORMATION:

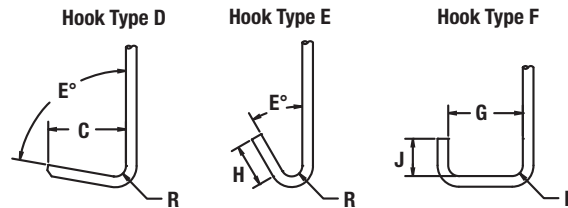
Choose Shape Type



Choose Bend Type



Choose Hook Type



Working Load Limit: _____

Shape Type: A B C

R: _____

W: _____

Bend Type: 1 2

A: _____

B: _____

D: _____

F: _____

G: _____

Hook Type: D E F

C: _____

E: _____

G: _____

H: _____

J: _____

R: _____

Contact: _____

Company: _____

Address: _____

City, State, Zip: _____

Phone: _____

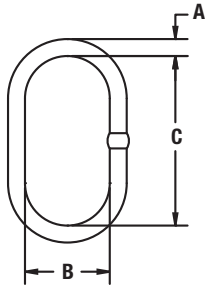
Fax: _____

Email: _____

For a price quote on your specific application, please complete the above form and fax to The Caldwell Group at **815-229-5686** or you can complete this form online at www.caldwellinc.com/applications.

Bent Bar Products

Model MLO - Master Link



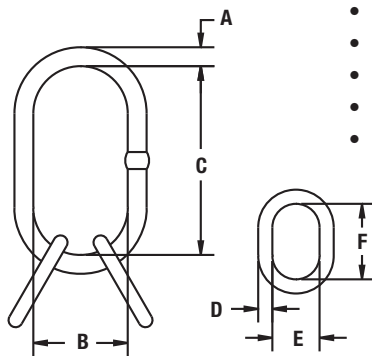
PRODUCT FEATURES:

- Welded construction.
- Heat Treated.
- Proof tested to 2:1 with certificate issued.
- Shot-blast finish with rust inhibitor.
- Serial number and capacity engraved on product.
- Custom designs available.

SPECIFICATIONS

Model Number	Working Load Limit (lbs.)	Dimensions (inches)			Weight (lbs.)
		A	B	C	
MLO-36-041	3,600	0.41	1.50	3.00	1
MLO-50-050	5,000	0.50	2.50	5.00	1.3
MLO-61-063	6,100	0.63	3.00	6.00	1.8
MLO-150-075	15,000	0.75	2.75	5.50	2.0
MLO-225-100	22,500	1.00	3.50	7.00	6.1
MLO-325-125	32,500	1.25	4.38	8.75	12
MLO-490-150	49,000	1.50	5.25	10.50	19
MLO-735-175	73,500	1.75	6.00	12.00	26
MLO-889-200	88,900	2.00	7.00	14.00	37
MLO-1252-225	125,200	2.25	8.00	16.00	55
MLO-1473-250	147,300	2.50	8.00	16.00	69
MLO-1878-275	187,800	2.75	9.00	16.00	94

Model MLS - Sub-Assembly



PRODUCT FEATURES:

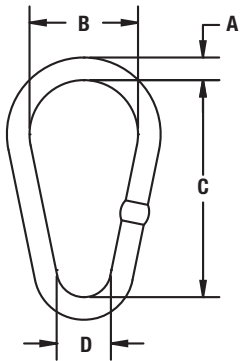
- Welded construction.
- Heat Treated.
- Proof tested to 2:1 with certificate issued.
- Shot-blast finish with rust inhibitor.
- Serial number and capacity engraved on product.
- Custom designs available.

SPECIFICATIONS

Model Number	Working Load Limit (lbs.)	Dimensions (inches)						Chain Size	Weight (lbs.)
		A	B	C	D	E	F		
MLS-132-075/050	13,200	0.75	2.75	5.50	0.50	1.25	2.00	0.28	4
MLS-225-100/075	22,500	1.00	3.50	7.00	0.75	1.50	3.00	0.38	10
MLS-325-125/100	32,500	1.25	4.38	8.75	1.00	2.00	4.00	0.50	16
MLS-490-150/125	49,000	1.50	5.25	10.50	1.25	3.00	5.25	0.63	35
MLS-735-175/150	73,500	1.75	6.00	12.00	1.50	3.25	5.75	0.75	48
MLS-889-200/175	88,900	2.00	7.00	14.00	1.75	4.00	6.00	0.88	68
MLS-1252-225/188	125,200	2.25	8.00	16.00	1.88	4.00	7.00	1.00	132
MLS-1878-275/225	187,800	2.75	9.00	16.00	2.25	4.50	8.00	1.25	196

Bent Bar Products

Model MLP - Pear Link



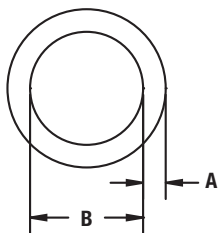
PRODUCT FEATURES:

- Welded construction.
- Heat Treated.
- Proof tested to 2:1 with certificate issued.
- Shot-blast finish with rust inhibitor.
- Serial number and capacity engraved on product.
- Custom designs available.

SPECIFICATIONS

Model Number	Working Load Limit (lbs.)	Dimensions (inches)				Weight (lbs.)
		A	B	C	D	
MLP-41-050	4,100	0.50	3	6.00	1.50	1
MLP-66-063	6,600	0.63	3	6.00	1.50	1.5
MLP-132-075	13,200	0.75	3	6.00	1.75	2.2
MLP-225-100	22,500	1.00	4	8.00	2.50	5.3
MLP-325-125	32,500	1.25	6	9.00	3.00	10
MLP-490-150	49,000	1.50	7	10.50	5.50	17
MLP-735-175	73,500	1.75	7	12.00	4.00	24
MLP-889-200	88,900	2.00	7	14.00	4.00	35

Model MLR - Round Link



PRODUCT FEATURES:

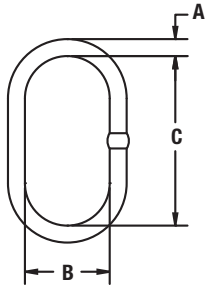
- Welded construction.
- Heat Treated.
- Proof tested to 2:1 with certificate issued.
- Shot-blast finish with rust inhibitor.
- Serial number and capacity engraved on product.
- Custom designs available.

SPECIFICATIONS

Model Number	Working Load Limit (lbs.)	Dimensions (inches)		Weight (lbs.)
		A	B	
MLR-43-050	4,300	0.50	2.50	.6
MLR-56-063	5,600	0.63	3.00	1
MLR-86-075	8,600	0.75	4.00	2
MLR-132-088	13,200	0.88	4.00	2.7
MLR-190-100	19,000	1.00	4.00	3.6
MLR-240-125	24,000	1.25	5.00	7
MLR-370-150	37,000	1.50	6.00	12
MLR-490-175	49,000	1.75	7.00	19
MLR-600-200	60,000	2.00	8.00	29

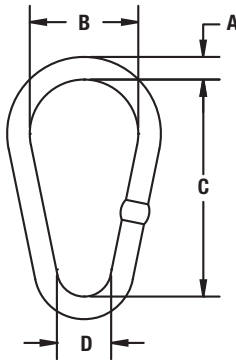
Custom Lifting Eye Application Evaluation

OBLONG INFORMATION:



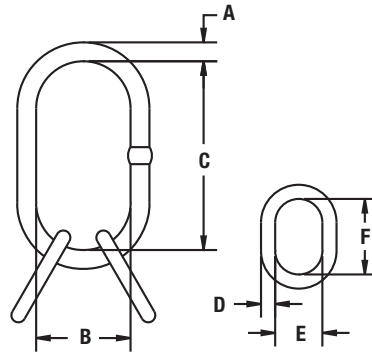
Working Load Limit: _____
 A: _____
 B: _____
 C: _____

PEAR LINK INFORMATION:



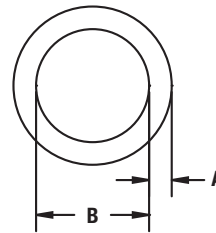
Working Load Limit: _____
 A: _____
 B: _____
 C: _____
 D: _____

SUB-ASSEMBLY INFORMATION:



Working Load Limit: _____
 A: _____
 B: _____
 C: _____
 D: _____
 E: _____
 F: _____

ROUND RING INFORMATION:



Working Load Limit: _____
 A: _____
 B: _____

Contact: _____
 Company: _____
 Address: _____
 City, State, Zip: _____
 Phone: _____
 Fax: _____
 Email: _____

For a price quote on your specific application, please complete the above form and fax to The Caldwell Group at **815-229-5686** or you can complete this form online at www.caldwellinc.com/applications.

Plate Clamps

Model VLC - Vertical Locking Clamp

The Model VLC is a vertical lifting tool for relatively light work. It is small and easy to handle in capacities through three tons. It incorporates a "Lock Closed" feature which facilitates attaching the clamp to the plate.

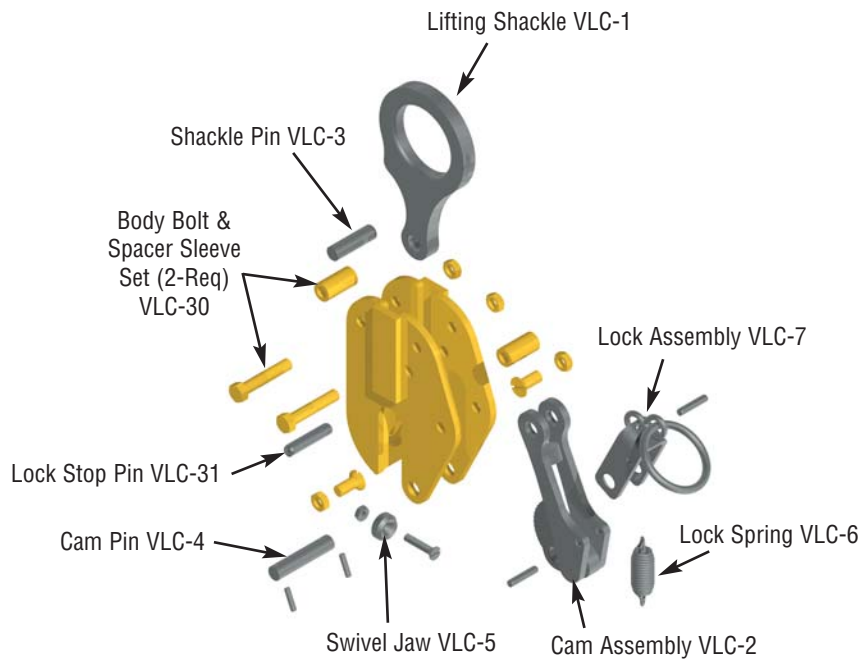
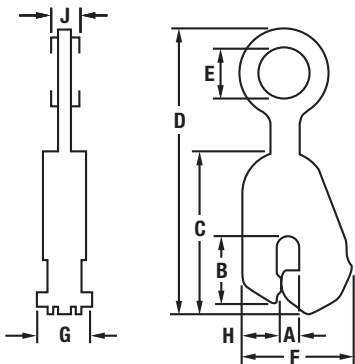
PRODUCT FEATURES:

- Designed to lift individual plates vertically.
- Positive locking mechanism ensures plate is gripped even when hoist is slack.
- Chain control on lock allows for ease in releasing cam.
- Complies with ASME standards.



INSTOCK PROGRAM

NEW



SPECIFICATIONS

Model Number	Capacity (tons)	Plate Thickness		MAX.	E	F	G	H	J	Weight (lbs.)	
		A	B								
VLC-1/2-.75	1/2	0 - 3/4	2-13/16	7	11-1/4	2-3/8	4-5/8	2-1/2	1-1/2	1/2	8
VLC-1-.75	1	0 - 3/4	3-3/16	9	13-3/4	2-5/8	5-7/8	3-3/16	1-5/8	5/8	14
VLC-2-1	2	0 - 1	3-1/2	9	16-3/8	3-5/8	6-3/4	3-3/8	2-1/8	3/4	23
VLC-3-1.25	3	0 - 1-1/4	4-3/16	10-3/4	18-3/8	3-5/8	7-5/8	3-9/16	2-7/16	3/4	30

Plate Clamps

Model NLC - Ninety-Degree Locking Clamp

The Model NLC is a vertical lifting clamp capable of turning a plate from horizontal to vertical and back through the same ninety-degree arc. It is small and easy to handle in capacities through three tons. The Model NLC incorporates a "Lock Closed" feature, which facilitates attaching the clamp to the plate.

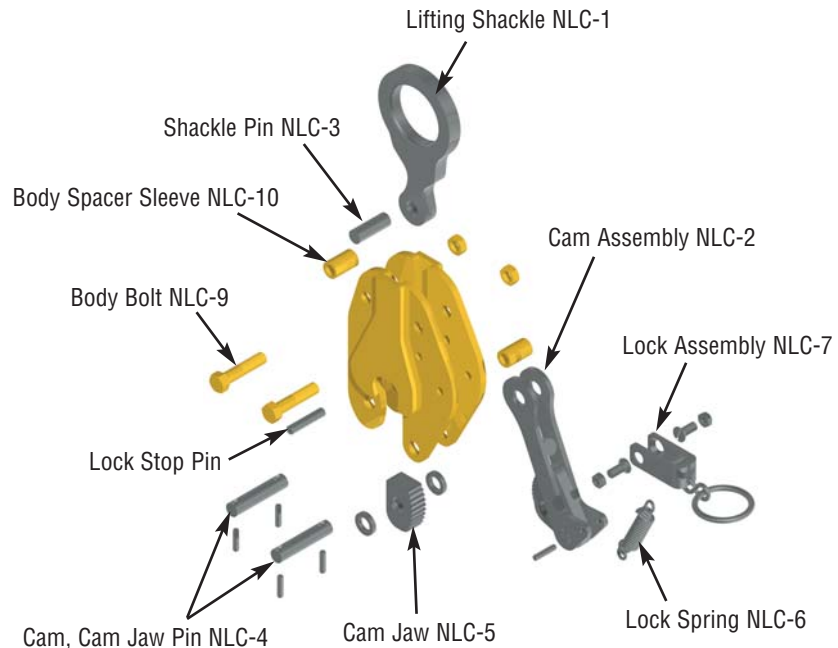
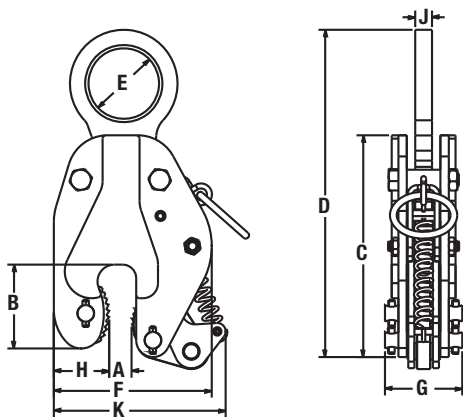
PRODUCT FEATURES:

- Designed to turn plates 90°, lift and then set back through the same 90° arc.
- Positive locking mechanism ensures plate is gripped even when hoist is slack.
- Chain control on lock allows for ease in releasing cam.
- Complies with ASME standards.



INSTOCK PROGRAM

NEW



SPECIFICATIONS

Model Number	Capacity (tons)	Plate Thickness A	B	C	MAX. D	E	F	G	H	J	K	Weight (lbs.)
NLC-1/2-.75	1/2	0 - 3/4	2-5/8	6-5/8	10-1/4	2-1/4	5	2-3/8	1-7/8	1/2	5	9
NLC-1-.75	1	0 - 3/4	3-3/16	8-1/4	13-7/16	2-5/8	5-7/8	2-7/8	2-1/16	5/8	6-7/16	15
NLC-2-1	2	0-1	3-5/8	9	15-13/16	3-5/8	7-1/4	3-1/4	2-7/8	3/4	7-5/8	26
NLC-3-1.25	3	0 - 1-1/4	4-1/4	10-3/4	18	3-5/8	8-3/16	3-5/8	3	3/4	8-3/8	34

Plate Clamps

Model HC - Horizontal Clamp

The Model HC is a horizontal lifting clamp intended to be used in pairs, sets of pairs or in a tripod arrangement for transporting steel plates horizontally.

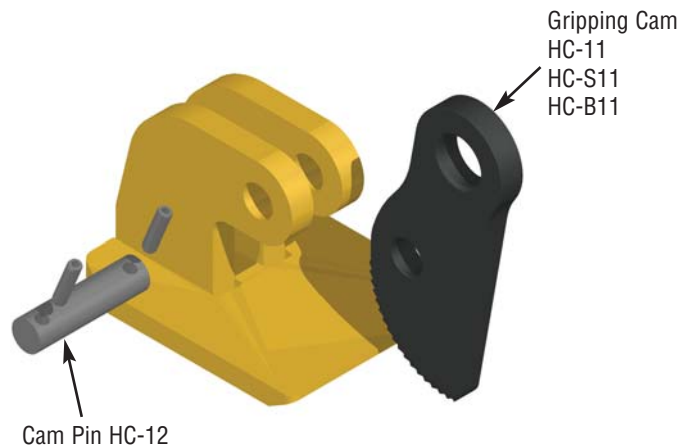
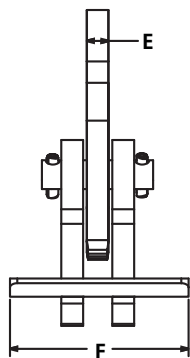
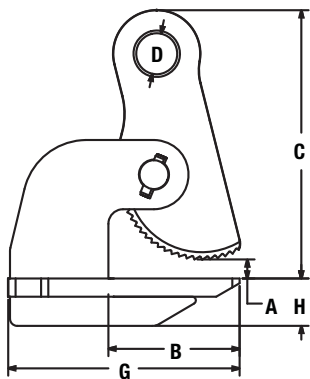


PRODUCT FEATURES:

- Designed to lift individual sheets horizontally
- Cam operations ensures a tight grip on the load.
- Serrated gripping cam bites into load for positive grip.
- Clamps rest in position on edge of plate until tension is applied to the load sling.
- Clamps must be used in single pairs (2), double pairs (4), or tripod (3) configuration with a lifting sling.
- Complies with ASME standards.

INSTOCK PROGRAM

NEW

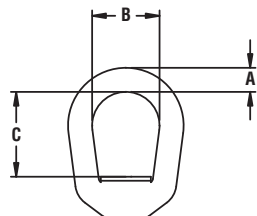


SPECIFICATIONS

Model Number	Rated Capacity (tons)	Dimensions (in.)								Weight (lbs.)
		Jaw Opening A	B	C	D	E	F	G	H	
HC-1/4-1	1/4	0-1	2-3/8	5	1	1/2	2-1/4	4	3/8	3
HC-1/2-2	1/2	0-2	4-3/8	9-1/4	1-3/8	1/2	4-7/8	7-3/4	5/16	14
HC-3/4-2	3/4	0-2	4-3/8	9-1/4	1-13/32	3/4	5-3/8	7-3/4	3/4	19
HC-1-1/2-2	1-1/2	0-2	4-9/16	9-1/4	1-13/32	3/4	6-1/8	7-15/16	1	27
HC-3-2	3	0-2	4-1/4	9-1/4	1-13/32	3/4	6-1/8	7-15/16	1-5/8	25

Lifting Magnets

Model RELM - Round Electric Lift Magnets



PRODUCT FEATURES:

- For use on flat material only.
- 115 volts AC required.
- On, off, and release functions are recessed to protect against accidental operation.
- Easy to use.
- Complies with ASME standards.

SPECIFICATIONS

Model Number	Lift Capacity (lbs.) Plate	Watts	Unit Diameter (in.)	Overall Height (in.)	Bail Opening (in.)			Weight (lbs.)
					A	B	C	
RELM06	1200	33	6-3/8	11-1/2	3/4	2	2-1/2	50
RELM08	2500	51	8-3/8	12-7/8	3/4	2-1/4	2-7/8	75
RELM12	6000	149	12-1/4	15-1/4	7/8	2-1/2	3-3/8	210
RELM16	8000	260	16-3/4	15-1/2	7/8	2-1/2	3-1/2	300
RELM20	13000	260	20	14-1/8	1	3-1/8	4	615

NOTE: RELM's are not intended to be used as scrap handling magnets. Wall plug is not included. Twist lock style plug is recommended.

⚠ WARNING

All capacities are based on lifting clean, smooth, flat low-carbon steel plate with the full area of the magnet's lifting surface in contact with the load. Derating is required for plates or other loads with rust or scale. Do not use on material thinner than 1/4".

NOTE: When lifting 4' x 8' sheets or any sheets over 4' x 8', use 2 or more magnets on a spreader bar to prevent sheet flexing, sagging, or peel-off. Material less than 3/8" thick is susceptible to magnet bleed through, resulting in two sheets lifted at once.

Model VL - Permanent Lifting Magnets



PRODUCT FEATURES:

- Rare Earth Magnet with a Locking On/Off handle & "Test" load feature.
- Vertical Lift Capable using the optional Lift Lug attachment.
- Supports custom pole shoes.
- Lifts flat or round loads (see chart below).
- Stationary Lift Lug(s).
- Heat resistant up to 180°F (82°C).
- Complies with ASME standards.



Shown with optional Vertical Lifting Lug attachment

SPECIFICATIONS

Model Number	Lift (lbs.)	Overall		Magnet			Handle	Bail			Weight (lbs.)
		Ht. (in)	Ln. (in)	Ht. (in)	Wd. (in)	Ln. (in)	Ln. (in)	Th. (in)	Ht. (in)	Wd. (in)	
VL0600	600	6-1/2	7	3-3/4	4-1/2	5-5/8	6	3/4	2-1/4	1-3/4	18
VL1200	1200	6-1/2	11	3-3/4	4-1/2	10	6	3/4	2-1/4	1-3/4	34

Lift Lug Adaptor		
Model Number	Ln. (in.)	Wt. (lbs.)
VLLUG1	4-1/2	3

Lifting Value in lbs & Maximum Sheet Length Due To Sag For Material Thickness For Single Magnet Use

Model Number	1/4" (6' Length)	3/8" (8' Length)	1/2" (8' Length)	3/4" (8' Length)	1" (10' Length)	2" (10' Length)	3" (10' Length)
VL0600	260	435	525	550	600	600	600
VL1200	NA	755	960	1165	1200	1200	1200

Round Lifting Applications

Model Number	Maximum Lift (lbs.)	Maximum Lift at Minimum	Diameter / Thickness
VL0600	300	130	2.00 in. / 0.12 in.
VL1200	600	600	4.00 in. / 0.50 in.

Vertical Lift (Flat Only)

Lift (lbs.)	Minimum Thickness
150	1.00 in.
300	1.00 in.

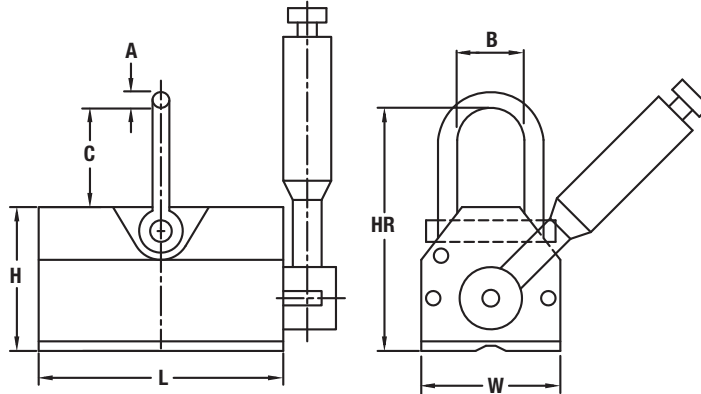
Lifting Magnets

Model CREM - Permanent Lifting Magnets



PRODUCT FEATURES:

- On/off powerful permanent magnetic.
- For use on flat or round material.
- Completely self contained.
- Simple level operation with safety lock.
- Permanent magnets holding power is not affected by power outages or battery life.
- Complies with ASME standards.



SPECIFICATIONS

Model Number	Lift Capacity (lbs.)*		Dimensions (in.)							Weight (lbs)
	Plate	Round	W	L	H	HR	A	B	C	
CREM-0250	250	110	2.55	3.3	2.84	4.35	0.31	1.17	1.51	10
CREM-0800	800	330	3.48	6.15	3.8	6.35	0.46	1.57	2.55	20
CREM-1600	1600	650	4.68	8.94	4.68	7.88	0.63	2.05	3.2	48
CREM-2500	2500	1100	6.8	10	6.63	11	0.78	3.45	4.37	100
CREM-5000	5000	2200	8.88	14.5	8.63	14.88	1.1	4.38	6.25	250
CREM-6600	6600	3000	8.88	17.19	8.63	14.88	1.1	4.38	6.25	440

*3 to 1 Safety Factor on Ground Mild Steel (see "Min. Thickness", "Max. OD"), see derating Factors for thinner plate

LIFTING VALUE & *MAXIMUM SHEET LENGTH FOR SPECIFIED MATERIAL THICKNESS

Sheet Thickness (in.)	CREM-0250		CREM-0800		CREM-1600		CREM-2500		CREM-5000		CREM-6600	
	Capacity (lbs.)	Max. Size (ft. x ft.)	Capacity (lbs.)	Max. Size (ft. x ft.)	Capacity (lbs.)	Max. Size (ft. x ft.)	Capacity (lbs.)	Max. Size (ft. x ft.)	Capacity (lbs.)	Max. Size (ft. x ft.)	Capacity (lbs.)	Max. Size (ft. x ft.)
1/4"	136	2.5 x 2.5	242	3 x 3	315	4 x 4						
3/8"	159	2.5 x 2.5	320	3.5 x 3.5	475	4 x 4.5	510	4.5 x 4				
7/16"	193	2.5 x 2.5	356	3.5 x 3.5	565	4.5 x 4.5	565	5 x 4.5				
5/8"	215	2.5 x 2.5	399	3.5 x 3.5	635	4.5 x 4.5	635	5 x 4.5				
3/4"	227	2.5 x 2.5	490	3.5 x 3.5	890	4.5 x 4.5	735	5 x 4.5				
1"	238	2.5 x 2.5	635	3.5 x 3.5	1005	4.5 x 4.5	870	5 x 4.5	1480	6 x 6		
1-1/4"	250	2.5 x 2	713	3.5 x 3.5	1195	4.5 x 4.5	1245	5 x 4.5	1950	6 x 6	2355	7 x 6.5
1-9/16"			800	3.5 x 3.5	1410	4.5 x 4.5	1420	5 x 4.5	2310	6 x 6	2945	7 x 6.5
1-3/4"					1600	4.5 x 4.5	1815	5 x 4.5	2590	6 x 6	3300	7 x 6.5
2-3/16"							1985	5 x 4.5	3240	6 x 6	4125	7 x 6.5
2-3/8"							2385	5 x 4.5	3515	6 x 6	4475	7 x 6.5
2-3/4"							2500	5 x 4.5	4070	6 x 6	5185	7 x 6.5
3-1/8"									4525	6 x 6	5990	7 x 6.5
3-3/8"									5000	6 x 6	6360	7 x 6.5
3-1/2"											6600	7 x 6.5

*Max sheet length due to sag for material thickness for single magnet use.

WARNING

All capacities are based on lifting clean, smooth, flat low-carbon steel plate with the full area of the magnet's lifting surface in contact with the load. Derating is required for plates or other loads with rust or scale. Do not use on material thinner than 1/4".

NOTE: We recommend when lifting sheets over 8', use 2 or more lifts on a lifting or spreader beam to prevent sheet flexing, sagging or peel-off. Thin material is susceptible to magnetic bleed through, resulting in two sheets being lifted at once.

Lifting Magnets

Model BL - Basic Lift Magnets



PRODUCT FEATURES:

- Heat resistant up to 300°F (148°C)
- Lightweight Design
- Durable Stainless Steel Casing
- Large Lift Lug
- Full Width Cam Release



SPECIFICATIONS

Model Number	Lift (lbs.)	Overall				Magnet		Bail Opening		Weight (lbs.)
		Height (in.)	Width (in.)	Length (in.)	Handle (in.)	Width (in.)	Length (in.)	Height (in.)	Width (in.)	
BL0400	400	5-1/2	6-1/2	6-1/2	12	3	4	2-1/4	3	13
BL1000	1000	5-1/2	6-1/2	9-1/2	12	3	6-1/2	2-1/4	3	18
BL1500	1500	5-1/2	6-1/2	13-3/4	12	3	10	2-1/4	3	28

Lifting Value in lbs & Maximum Sheet Length Due To Sag For Material Thickness For Single Magnet Use

Model Number	3/16" (6' Length)	1/4" (6' Length)	3/8" (8' Length)	1/2" (8' Length)	3/4" (8' Length)	1" (10' Length)	3" (10' Length)
BL0400	375	400	400	400	400	400	400
BL1000	725	800	875	975	1000	1000	1000
BL1500	875	1000	1400	1400	1500	1500	1500

⚠ WARNING

All capacities are based on lifting clean, smooth, flat low-carbon steel plate with the full area of the magnet's lifting surface in contact with the load. Derating is required for plates or other loads with rust or scale. Do not use on material thinner than 1/4".

NOTE: When lifting 4' x 8' sheets or any sheets over 4' x 8', use 2 or more magnets on a spreader bar to prevent sheet flexing, sagging, or peel-off. Material less than 3/8" thick is susceptible to magnet bleed through, resulting in two sheets lifted at once.

Model CLM - Constant Lifting Magnets



PRODUCT FEATURES:

- Permanent magnet is always on.
- For use on flat material only.
- Permanent magnets holding power not affected by power outages or battery life.
- Non-marring roller cam release.
- Complies with ASME standards.

SPECIFICATIONS

Model Number	Lift (lbs.)	Overall				Magnet		Bail Opening		Weight (lbs.)
		Height (in.)	Width (in.)	Length (in.)	Handle (in.)	Width (in.)	Length (in.)	Height (in.)	Width (in.)	
CL0400	400	6-3/4	7-1/4	7-3/4	16	6-1/2	4	2-1/4	3	19
CL1000	1000	6-3/4	7-1/4	10-3/4	16	6-1/2	7	2-1/4	3	33
CL1500	1500	6-3/4	7-1/4	14-3/4	16	6-1/2	10-1/2	2-1/4	3	46
CL2200	2200	7	10-1/2	15	16	9-3/4	11-1/4	2-1/4	3	84
CL3000	3000	7	10-1/2	19-1/4	16	9-3/4	15-1/4	2-1/4	3	109

Lifting Value in lbs & Maximum Sheet Length Due To Sag For Material Thickness For Single Magnet Use

Model Number	3/16" (6' Length)	1/4" (6' Length)	3/8" (8' Length)	1/2" (8' Length)	3/4" (8' Length)	1" (10' Length)	3" (10' Length)
CL0400	400	400	400	400	400	400	400
CL1000	600	900	1000	1000	1000	1000	1000
CL1500	800	1000	1500	1500	1500	1500	1500
CL2200	800	1064	1725	2000	2200	2200	2200
CL3000	800	1100	1800	2700	3000	3000	3000

Lifting & Spreader Beams

Model 14 - Modular Spreader Beam



PRODUCT FEATURES:

- Beam length extends from 10' to 22'.
- Capacities in 1 and 2 ton.
- Lightweight.
- Faspin with lanyard allows for quick adjustment of spread in 1' increments.
- Hair pin cotter top rigging attachment.
- Complies with ASME standards.

Kit Includes:



One Outer Tube



Two Inner Tubes



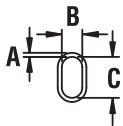
One Short Tube

SPECIFICATIONS

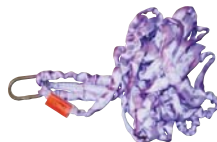
Model Number	Capacity (tons)	Spread (ft.) Min./Max.	Dimensions (inches)						Weight (lbs.)
			HR Headroom		Lifting Eye			O-Hook Opening With Latch	
			at Min. Spread	at Max. Spread	A	B	C		
14-1-10/22	1	10 / 22	135.6	150.7	0.5	2.5	5	0.97	195
14-2-10/22	2	10 / 22	135.6	150.7	0.75	3	6	0.97	275

OPTION R

Recommended Optional Top Rigging is two (2) double leg bridle round slings, each of different lengths, to be used in various beam configurations. Minimum rigging angle 45°, see Instruction Manual for details. (add "R" to model number ie: 14R-1-10/22)



Lifting Eye Dimensions



Top Rigging - 1 ton



Top Rigging - 2 ton

Other Top Rigging Options (Not INSTOCK, consult factory for delivery information)

OPTION C

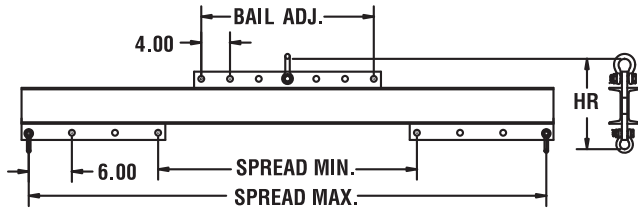
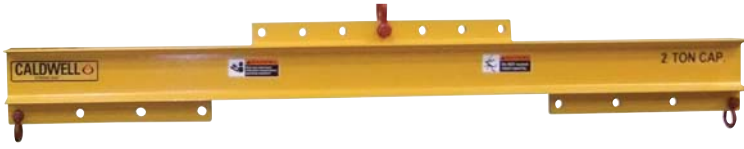
Chain top rigging from beam to crane hook.
(Add "C" to model number)

OPTION W

Wire rope top rigging from beam to crane hook.
(Add "W" to model number)

Lifting & Spreader Beams

Model 16 - Adjustable Spreader/Lifting Beam



PRODUCT FEATURES:

- Adjustable lifting points.
- Handles both wide and unbalanced loads.
- Low headroom capability.
- Shackles included.
- Add chain top rigging for additional stability.
- Optional swivel hooks available.
- Optional chain top rigging available.
- Complies with ASME standards.

PRODUCT OPTIONS:

- **OPTION S** - Pair of swivel hooks
 - **OPTION C** - Chain top rigging
 - **OPTION B1** - One cross beam*
 - **OPTION B2** - Two cross beams*
- * Specify spreads

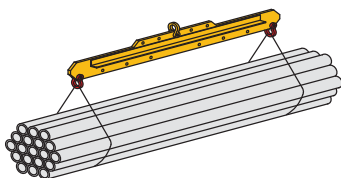
SPECIFICATIONS

Model Number	Rated Capacity (tons)	Spread (in.)		Bail Adjustment (in.)	HR Headroom (in.)	Bolt Type Anchor Shackle (tons)		Weight (lbs.)
		Max.	Min.			Top	Bottom	
16-1/4-4	1/4	48	12	16	7.13	1.5	1.5	40
16-1/2-4	1/2	48	12	16	7.13	1.5	1.5	40
16-1/2-6	1/2	72	36	24	10.00	1.5	1.5	100
16-1/2-8	1/2	96	48	32	10.00	1.5	1.5	135
16-1/2-10	1/2	120	60	40	10.00	1.5	1.5	145
16-1-6	1	72	36	24	10.00	1.5	1.5	100
16-1-8	1	96	48	32	11.00	1.5	1.5	140
16-1-10	1	120	60	40	11.00	1.5	1.5	175
16-2-6	2	72	36	24	12.50	3.25	2	130
16-2-8	2	96	48	32	13.50	3.25	2	200
16-2-10	2	120	60	40	14.50	3.25	2	280
16-4-8	4	96	48	32	16.75	4.75	4.75	290
16-4-10	4	120	60	40	18.75	4.75	4.75	420
16-4-12	4	144	72	48	18.75	4.75	4.75	500
16-5-8	5	96	48	32	18.75	6.5	4.75	320
16-5-10	5	120	60	40	20.25	6.5	4.75	465
16-5-12	5	144	72	48	20.25	6.5	4.75	550
16-7-12	7	144	72	48	23.75	8.5	6.5	790

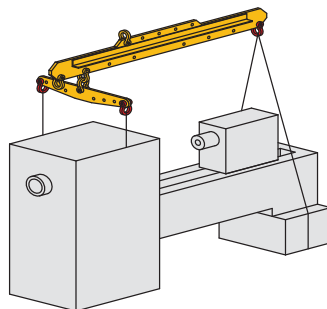
INSTOCK PROGRAM

QUICKSHIP PROGRAM

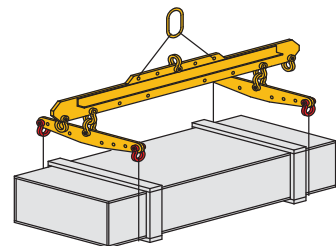
Operation



Standard
2 Point Lift



Custom
3 Point Lift



Custom
4 Point Lift

Lifting & Spreader Beams

Model 17 - Adjustable Lifting Beam

PRODUCT FEATURES:

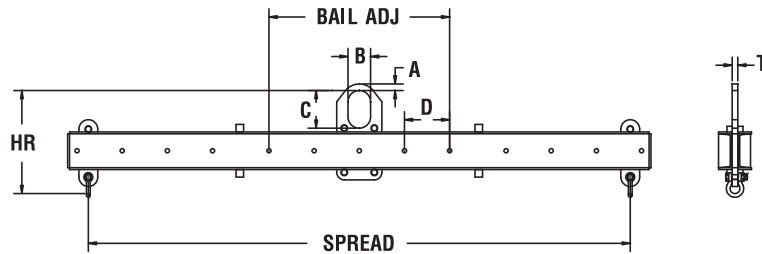
- Bail adjusts horizontally for lifting unbalanced loads.
- Provides clearance in low headroom applications.
- Spread adjusts in 6" increments along lifting beam.
- Shackles included.
- Optional swivel hooks available.
- Complies with ASME standards.



PRODUCT OPTIONS:

- **OPTION S** - Pair of swivel hooks

INSTOCK PROGRAM

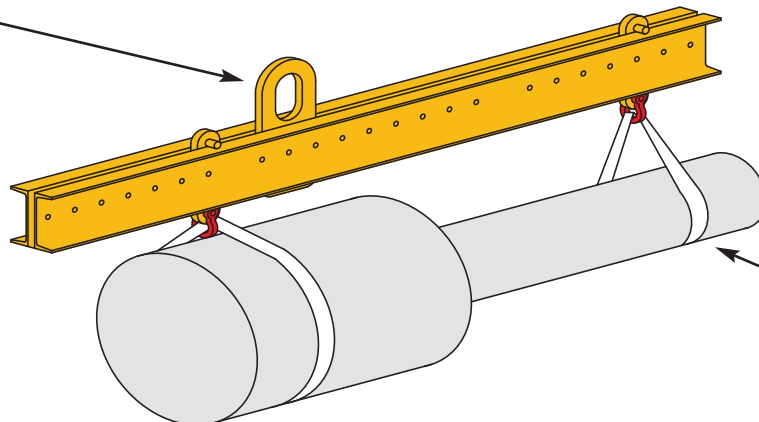


SPECIFICATIONS

Model Number	Rated Capacity (tons)	Spread (in.)		Bail Adjustment		HR Headroom (in.)	Shackle Size (tons)	Bail Dimensions (in.)				Weight (lbs.)
		Max.	Min.	Range (in.)	D (in.)			A	B	C	T	
17-1 1/4-6	1-1/4	72	36	24	3	14.7	2	1 1/2	3	5	5/8	150
17-2-6	2	72	36	24	3	14.7	2	1 1/2	3	5	5/8	155
17-4-8	4	96	54	36	6	19.8	3 1/4	2	4	7	3/4	285
17-5-10	5	120	60	36	6	22.4	4 3/4	2	4	7	1	475

Operation

BAIL ADJUSTED FOR UNBALANCED LOAD



LIFT POINTS ADJUSTED FOR LOAD LENGTH

Lifting & Spreader Beams

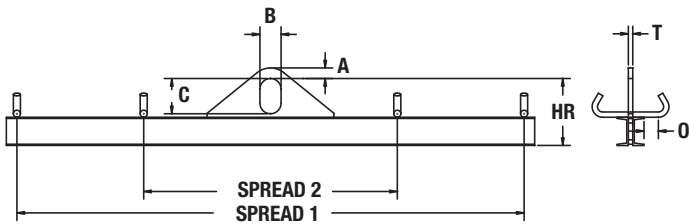
Model 18 - Fixed Twin Basket Sling Lifting Beam



QUICKSHIP PROGRAM

PRODUCT FEATURES:

- Designed to be used with slings in a basket hitch.
- Provides greatest clearance in low headroom applications.
- Two sets of bent bar hooks are standard on units with a spread of 6' and greater.
- Spread 2 is 1/2 of spread 1.
- Hooks are designed to handle up to a 2" sling eye width.
- Complies with ASME standards.

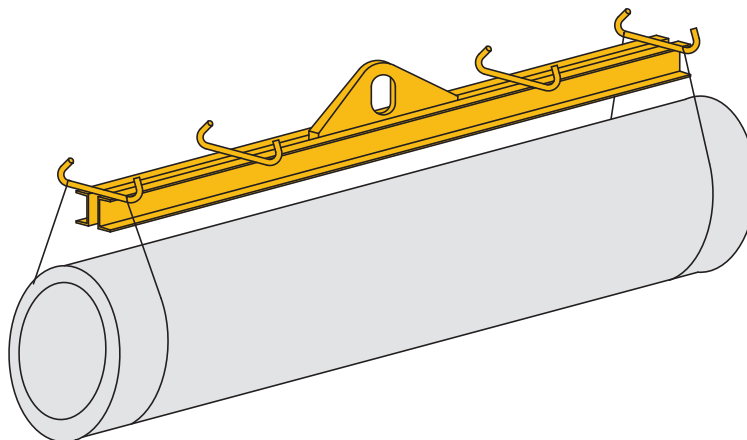


SPECIFICATIONS

Capacity (tons)	Model Number HR Headroom (in.) Weight (lbs.)	Spread (feet)						Other Dimensions (in.)
		3*	4*	6	8	10	12	
1/2	Model Number	18-1/2-3	18-1/2-4	18-1/2-6	18-1/2-8	18-1/2-10	18-1/2-12	A=7/8 T=3/4
	HR Headroom	8-1/2	8-1/2	8-1/2	8-1/2	8-1/2	9-1/2	B=3 O=2
	Weight	40	48	78	95	113	171	C=5
1	Model Number	18-1-3	18-1-4	18-1-6	18-1-8	18-1-10	18-1-12	A=7/8 T=3/4
	HR Headroom	8-1/2	8-1/2	9-1/2	10-1/2	10-1/2	11-1/2	B=3 O=2
	Weight	40	48	93	136	175	239	C=5
2	Model Number	18-2-3	18-2-4	18-2-6	18-2-8	18-2-10	18-2-12	A=7/8 T=3/4
	HR Headroom	9-1/2	10-1/2	10-1/2	11-1/2	12-1/2	13-1/2	B=3 O=2
	Weight	52	75	139	169	246	326	C=5
5	Model Number	18-5-3	18-5-4	18-5-6	18-5-8	18-5-10	18-5-12	A=2 T=1-1/4
	HR Headroom	13-1/2	14-1/2	15-1/2	16-1/2	17-1/2	19-1/2	B=4 O=2
	Weight	104	135	211	310	423	618	C=7
7 1/2	Model Number	18-7 1/2-3	18-7 1/2-4	18-7 1/2-6	18-7 1/2-8			A=2 T=1-1/4
	HR Headroom	12	14	15	17			B=4 O=2
	Weight	125	185	315	475			C=7

* 3' and 4' beams are provided with one set of bent bar hooks.

Operation



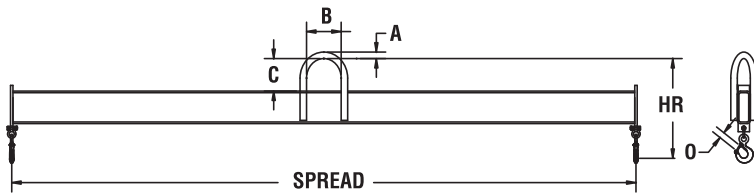
Lifting & Spreader Beams

Model 19 - Fixed Spread Lifting Beam



PRODUCT FEATURES:

- Provides clearance in low headroom applications.
- Eye hooks with hook latches standard.
- Fixed spread.
- Complies with ASME standards.

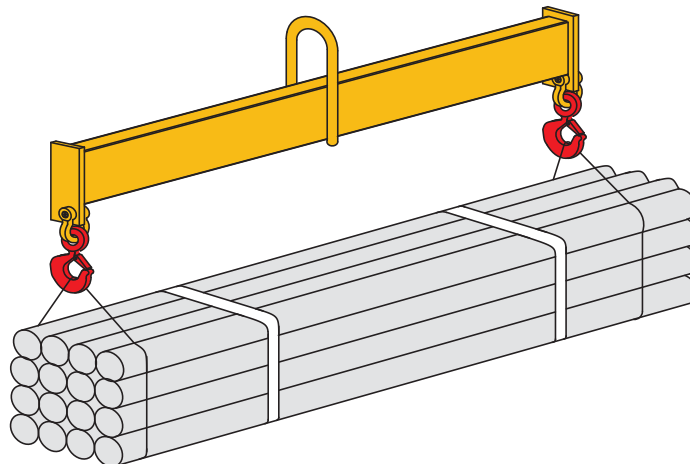


QUICKSHIP PROGRAM

SPECIFICATIONS

Capacity (tons)	Model Number HR Headroom (in.) Weight (lbs.)	Spread (feet)						Other Dimensions (in.)	
		2	3	4	6	8	10		
1/2	Model Number	19-1/2-2	19-1/2-3	19-1/2-4	19-1/2-6	19-1/2-8	19-1/2-10	A=.75	O=.89
	HR Headroom	13.75	13.75	13.75	13.75	14.75	14.75	B=3	
	Weight	20	26	33	48	75	93	C=5	
1	Model Number	19-1-2	19-1-3	19-1-4	19-1-6	19-1-8	19-1-10	A=1	O=.89
	HR Headroom	14.75	14.75	14.75	15.75	15.75	16.75	B=6	
	Weight	26	35	44	72	93	131	C=5	
2	Model Number		19-2-3	19-2-4	19-2-6	19-2-8	19-2-10	A=1	O=1
	HR Headroom		17.19	17.19	20.19	20.19	20.19	B=6	
	Weight		45	55	108	140	188	C=5	
3	Model Number		19-3-3	19-3-4	19-3-6	19-3-8	19-3-10	A=1.5	O=1
	HR Headroom		18.50	20.50	20.50	20.50	20.50	B=6	
	Weight		58	87	118	222	272	C=5	

Operation



Lifting & Spreader Beams

Model BEF - Spreader Beam End Fittings



Shown full assembled with customer supplied rigging and bar.

INSTOCK PROGRAM

PRODUCT FEATURES:

- Build your own spreader beam.
- Designed to work with a range of shackle sizes, both top and bottom.
- Complies with ASME standards when assembled to specifications using A53 Grade B, schedule 40 pipe.



SPECIFICATIONS

Model No. Spread (ft.)	Capacity (tons)																Weight (lbs.) Per Pair				
	4	5	6	8	10	12	14	15	16	18	20	22	24	26	28	30		32	34	36	
BEF-2-1/2	7.5	7	6.5	5.5	4	2.9	2	1.8	-	-	-	-	-	-	-	-	-	-	-	-	16
BEF-5	17	17	17	17	17	16	15	14	13	12	10	8	7	6	5	4.5	-	-	-	-	46
BEF-8	39	39	39	39	39	38	36	36	35	33	31	29	27	25	23	21	19	16	15	-	266

NOTE: Capacity based on minimum 45° top rigging angle.
Other sizes available, consult factory.

Assembly Information

The Caldwell Model BEF is designed to use A53 Grade B, schedule 40 pipe as the central structural element between the end fittings. This structural material is readily available at most steel service centers. The Caldwell Model BEF-2 1/2 requires a 2-1/2" nominal size, the Model BEF-5 requires a 5" nominal size, and the BEF-8 requires an 8" nominal size A53 Grade B, schedule 40 pipe.

Other requirements are:

- The length of pipe used for this central element must be straight within 1/4" end to end.
- The pipe should have the ends cleanly cut square with its centerline.
- The A53 Grade B, schedule 40 pipe should not have any weld joint irregularities.
- Each end of the A53 Grade B, schedule 40 pipe must have the correct diameter holes drilled through both walls and both ends must be in line.
- The A53 Grade B, schedule 40 pipe used in this application does not need to pass any pressure testing.

The retaining bolts used to secure the Caldwell Model BEF 2-1/2 and 5 to the A53 Grade B, schedule 40 pipe must be a Grade 5 Hex Head Cap Screw 5/8-11 with minimum length of 4-1/2" and 8" respectively. The bolt for the BEF-8 is a Grade 5 Hex Head Cap Screw 1-8 with a minimum length of 11-1/2".

NOTE: Complete assembly instructions are provided with each set of end fittings.

Lifting & Spreader Beams

Model HC-BEF - High Capacity Beam End Fitting

The same end fittings that build our high capacity spreader beams are available as end fittings only. This allows you to stock one or several sizes of end fittings; work with a local steel supplier to provide cut to length schedule 80 pipe; drill accordingly; and add the required top rigging. Now you can respond to your customers needs with a quickly built, ASME compliant spreader beam.



**INSTOCK
PROGRAM**

PRODUCT FEATURES:

- Build your own spreader beam.
- Fittings only are available in 2 business days.
- Pivoting lower lugs allow for 75° to 90° lower rigging angle.
- Complies with ASME standards when assembled to specifications using designated pipe and rigging.

SPECIFICATIONS

Model Number	Max. Capacity (tons)*	Schedule 80	
		Pipe Size (in.)	Wall Thickness (in.)
BEF-5HC-25	25	5"	.375
BEF-5HC-50	50	5"	.375
BEF-8HC-50	50	8"	.5
BEF-8HC-80	80	8"	.5
BEF-12HC-80	80	12"	.687
BEF-12HC-110	110	12"	.687
BEF-12HC-130	130	12"	.687

* System capacity is determined by span, rigging, and hardware, consult factory for complete details.



Shown assembled with options shackles.

Assembly Information

The Caldwell Model HC-BEF is designed to use A53 Grade B, schedule 80 pipe as the central structural element between the end fittings. This structural material is readily available at most steel service centers. See the above chart for the nominal A53 Grade B, schedule 80 pipe size required.

Other requirements are:

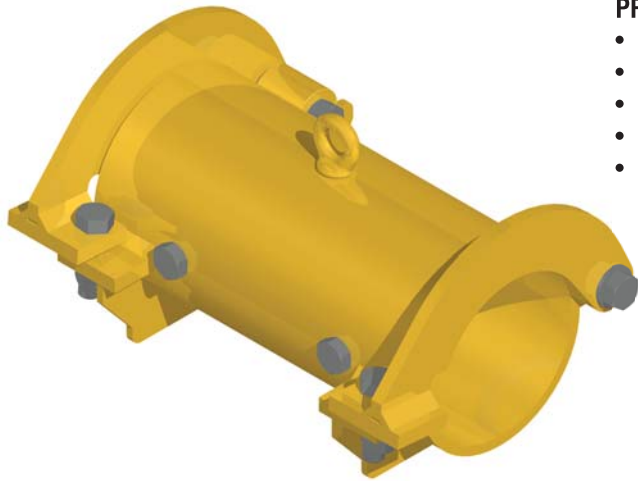
- The length of pipe used for this central element must be straight within 1/4" end to end.
- The pipe should have the ends cleanly cut square with its centerline.
- The A53 Grade B, schedule 80 pipe should not have any weld joint irregularities.
- Each end of the A53 Grade B, schedule 80 pipe must have the correct diameter holes drilled through both walls and both ends must be in line.
- The A53 Grade B, schedule 80 pipe used in this application does not need to pass any pressure testing.

Assembly pins are provided with the end fittings. The pins provided are only to be used to fasten the High Capacity Beam End Fitting (HC-BEF) to the properly sized A53 Grade B, schedule 80 pipe.

NOTE: Complete assembly instructions are provided with each set of end fittings.

Lifting & Spreader Beams

Model BEF-PC - Beam End Fitting - Pipe Coupler



INSTOCK PROGRAM

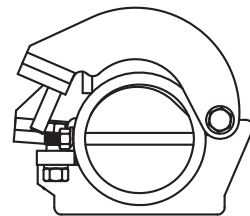
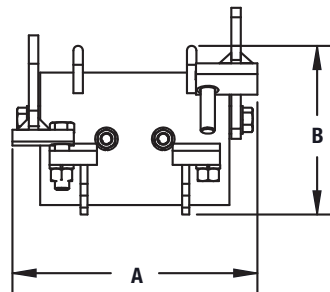
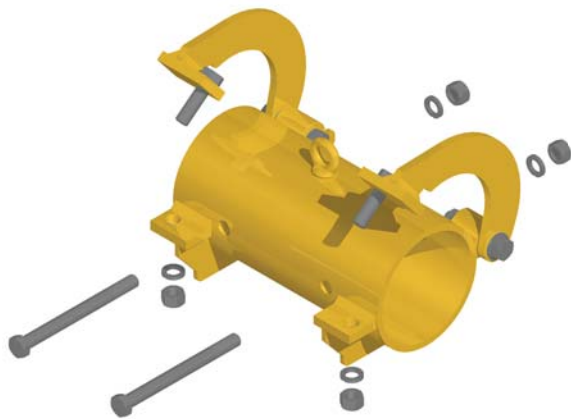
PRODUCT FEATURES:

- Add flexibility to your spreader beam end fitting system.
- Securely joins two pipe lengths to create a longer spreader beam.
- Innovative design reduces sag in the spread system once assembled.
- Includes all connecting pin or bolts.
- Complies with ASME standards

NEW



Multiple fittings and pipe lengths can be combined to create spreader beam kits that provide various spread configuration options.



SPECIFICATIONS

Model Number	Use With Model	A	B	Used With Pipe (in.)*	Weight (lbs.)
BEF-PC-2.5	BEF-2 1/2	8.2	6.2	2-1/2 SCH. 40	14
BEF-PC-5	BEF-5	12.9	8.9	5 SCH. 40	60
BEF-PC-5HC	BEF-5HC	26.9	10.2	5 SCH. 80	114
BEF-PC-8	BEF-8	23.9	12.9	8 SCH. 40	125
BEF-PC-8HC	BEF-8HC	33.9	12.9	8 SCH. 80	175
BEF-PC-12HC	BEF-12HC	40.1	17.2	12 SCH. 80	335

*See end fitting assembly instruction for complete pipe specifications.

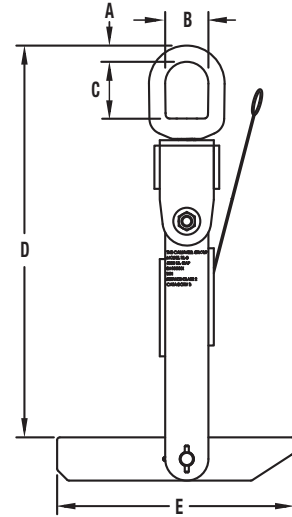
Special Applications

Model RL - Reel Lifter



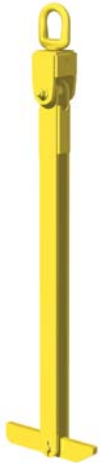
PRODUCT FEATURES:

- Rugged construction to lift and unspool reels.
- Bearing included for easy rotation to unroll cable.
- One crane attachment point for both lifting and unspooling.
- Optional oblong can be added for large crane hooks.
- Special long arm option to lift and unspool from outer flange.
- Bottom arm counterweighted for easy insertion in reel.
- Pull lanyard for pivoting bottom arm to lift.



SPECIFICATIONS

Model Number	Rated Capacity Tons	Dimensions (in.)										Weight lbs.
		Arbor Hole		Min. Drum ID	Max. Flange Thickness	A	B	C	D	E		
		Min.	Max.									
RL-25	1/4	1.25	2	5.5	2	0.5	1.5	1.92	12.5	5	5	
RL-1.5	1 1/2	2	4	10	3	0.5	1.5	1.92	14.44	8.5	8	
RL-3	3	3	5	13	4	0.75	2	2.63	17.38	11	17	
RL-5.5	5 1/2	4	6	16	5	1	2.5	3.5	22.19	14	25	



Long Arm Option:

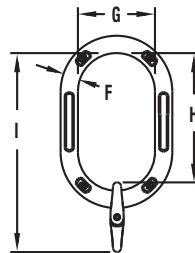
To prevent reel separation during lifting.*



*Customer must provide outside width of reel.

Oblong Option:

To accommodate larger lifting hooks.



Model Number	Dimensions (in.)			
	F	G	H	I
RL-25	0.5	2.8	4.75	6.9
RL-1.5	0.5	2.8	4.75	6.9
RL-3	0.75	3.2	5.25	8.7
RL-5.5	1	4.3	7	11

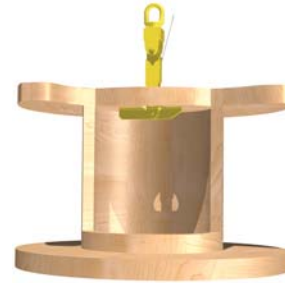
Applications



Inserting In Reel



Unspooling Reel



Lifting Reel

Special Applications

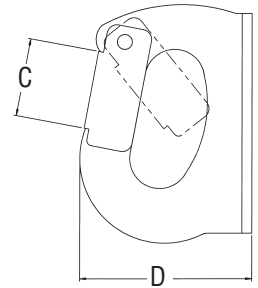
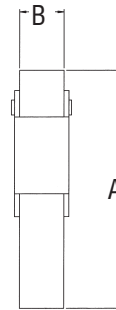
Model WBH - Weld On Bucket Hook



PRODUCT FEATURES:

- Latch prevents accidental unhooking of load.
- Latch is resistant to dirt, concrete, and ice.
- Stainless steel latch spring.
- Hook can be welded on without preheating.

INSTOCK PROGRAM



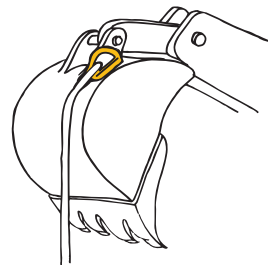
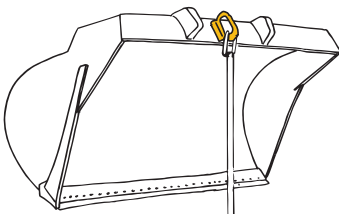
SPECIFICATIONS

Model Number	Rated Capacity (lbs.)	Dimensions (in.)				Weight (lbs.)
		A	B	C	D	
BH-U1	2200	4-1/8	1	7/8	3	2
BH-U2	4400	4-7/8	1-1/4	1-1/8	3-3/8	3
BH-U3	6600	5-3/4	1-3/8	1-1/4	4	5
BH-U4	8800	6	1-3/8	1-1/4	4-1/4	5
BH-U6	13200	8-1/8	1-5/8	1-3/4	5	9
BH-U8	17600	8-1/2	2	1-3/4	5-1/2	12

NOTE: Not rated for below the hook lifting.

Applications

For use with any excavating equipment with bucket.



Welding Instructions

- Before welding, surface must be thoroughly cleaned and prepared.
- Electrode is AWS/ASTM E7018-1, ISO E51 5 B120 20H.
- The base plate must be welded evenly all around (no gaps).
- Base plate is mild steel.
- Welding is to be done by a qualified welder.
- Instructions given by electrode manufacturer must be followed.

Special Applications



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Rig-Master® Section
2014-2016 Master Catalog

Model COF - Clamp-On Bucket Forks

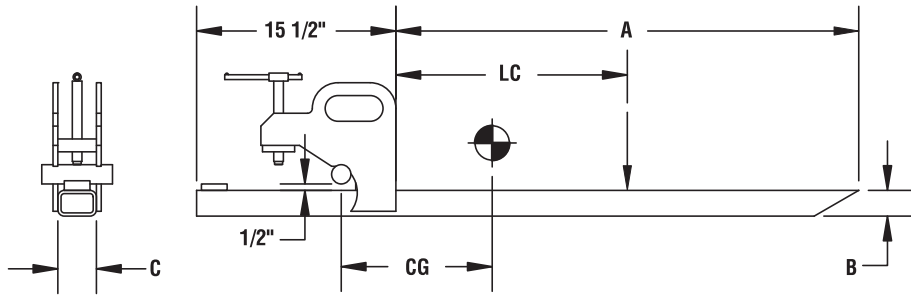
Turn your loader into a fork lift. Easy to attach, simply place the lip of the bucket in the slot, tighten the bolt, and lift—there is nothing to weld. Sturdy flame-cut handles make installation and removal fast and easy. The Caldwell Bucket Forks store easily and are very cost effective.



QUICKSHIP PROGRAM

PRODUCT FEATURES:

- Easily attaches to almost any solid blade bucket.*
- Sturdy construction.
- Open fork design.



SPECIFICATIONS

Model Number (Pair)	Capacity Per Pair (lbs.)	Dimensions (in.)					Weight Per Pair (lbs.)
		LC	A	B	C	CG	
COF-.95	1900	18	36	2	3	9-1/16	120
COF-1.25	2500	21	42	2	4	12-1/4	160
COF-2.75	5500	24	48	3	5	16-3/8	240
COF-4.5	9000	24	48	3	4	17-9/16	500
COF-5.5	11000	24	48	3	5	17-3/4	620

NOTE: Blade tip must be less than 1/2" thick at the tip for proper attachment.
Will not work on buckets with teeth.
Other sizes available, please consult factory.

Operation



Special Applications

Model LL - "Corky" Container Lifting Lug

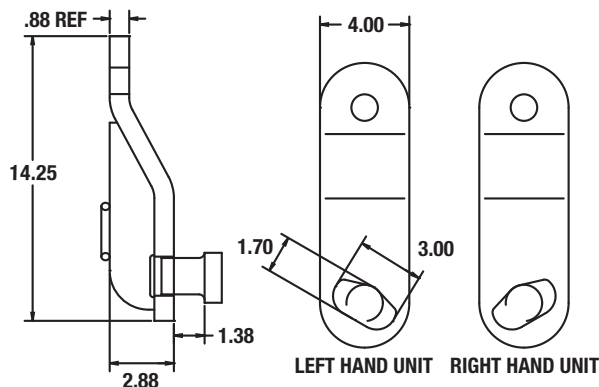


Patent No. 4,541,662

PRODUCT FEATURES:

- An efficient way to lift containers from bottom lifting slot.
- Handle indicator shows lug is engaged for lift.
- Complies to use with ASME B30.9 sling capacities.

OPTION S - 8 1/2 ton shackle

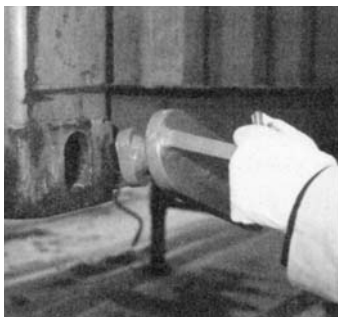


SPECIFICATIONS

Model Number	Rated Capacity Each (tons)	Weight (lbs.)
LL	8 1/2	17

NOTE: Specify complete set of 4 (2R & 2L) or individual pieces by L (left) or R (right).

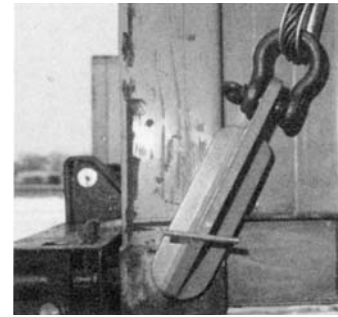
Operation



Align "Corky" Hook with cargo container lift fitting.

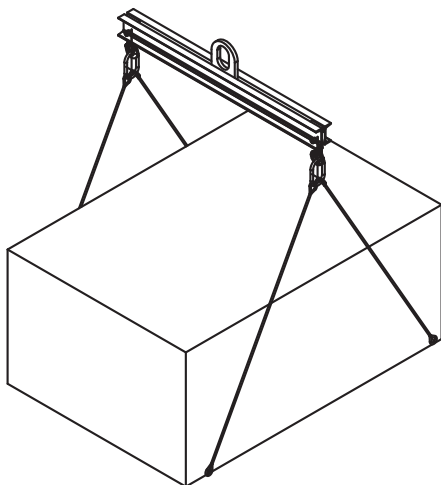


Insert "Corky" Hook into the lift fitting slot.



Apply tension to the choker cable. Indicator shows lug in locked position.

Container Lifting Assemblies with "Corky" Hooks



Representative of configuration only.

Model CLS - Standard Wire Rope

Use in lifts where the load center is positioned in the center of the container.

Model Number	Use With
CLS-20	20-ft. container
CLS-40	40-ft. container

Model CLS - Adjust-A-Leg®

Use in lifts where the load center is positioned away from the center of the container.

Model Number	Use With
CLS-24	20-ft. container
CLS-44	40-ft. container

Special Applications



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Model A through O - Universal Hook Latch



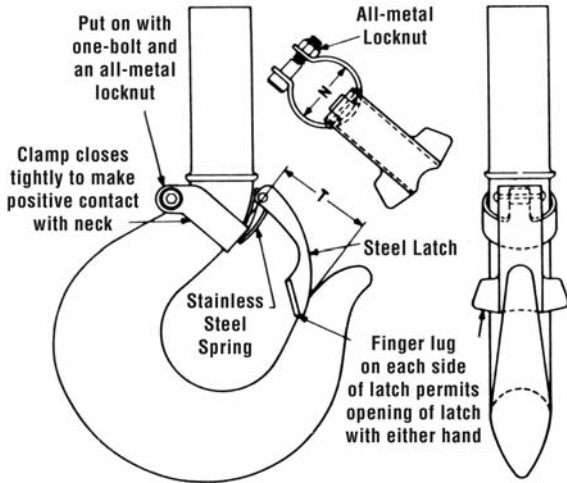
INSTOCK PROGRAM

PRODUCT FEATURES:

- Keeps fingers out of danger zones.
- Keeps load on bottom hook when load is slack.
- Keeps top hook on ring, hook, or trolley.
- Can be installed on any hook in minutes with only simple tools.
- Meets requirements: Sect. 1910.181 (a) (29) OSHA.

SPECIFICATIONS

Model Number	Hook Dimensions (in.)	
	Neck (N)	Throat (T)
A	9/16 to 5/8	1 1/16 to 1 1/8
B	3/4 to 13/16	1-1/4
C	7/8 to 1	1-3/8 to 1-1/2
D	1-1/8 to 1-1/4	1-3/4 to 1-7/8
E	1-3/8 to 1-1/2	2-1/16
F	1-5/8 to 1-11/16	2-1/4
G	1-3/4 to 1-13/16	2-1/2
H	1-7/8 to 2	3
J	2-1/16 to 2-1/8	3-3/8
K	2-3/16 to 2-1/4	3-1/2
L	2-5/16 to 2-3/8	3-3/4
M	2-7/16 to 2-3/4	4
O	3 to 3-1/4	4-1/2



Operation



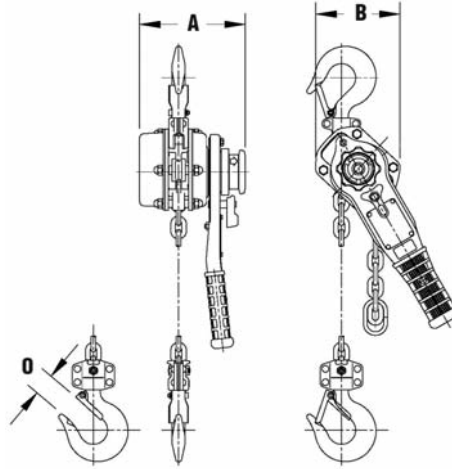
Special Applications



Model LHHL - Heavy Duty Lever Hoist

PRODUCT FEATURES:

- Rugged, all steel construction.
- Machined and heat treated, split load double reduction gears.
- Totally enclosed brake mechanism.
- Short handle allows for easy operation, even in those hard to reach areas.



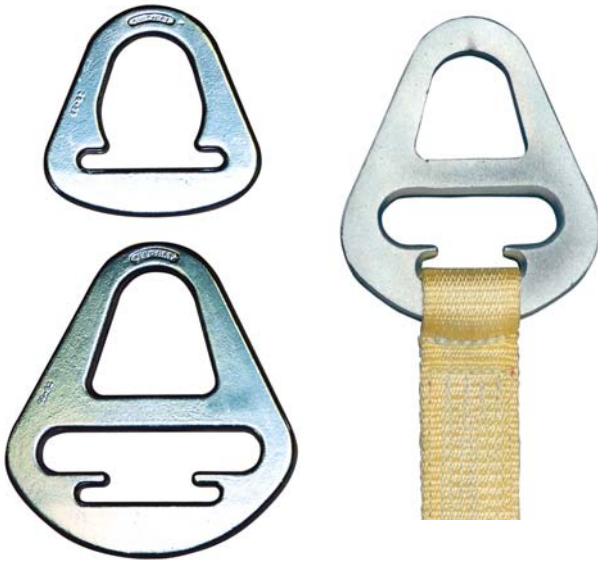
SPECIFICATIONS

Model Number	Capacity (lbs.)	Lift (ft.)	Force Lift (lbs.)	Dimensions (inches)			Weight (lbs.)
				A	B	O	
LHHL-.75-5	1500	5	54	5.7	4.7	0.93	13
LHHL-.75-10	1500	10	54	5.7	4.7	0.93	16
LHHL-.75-15	1500	15	54	5.7	4.7	0.93	18
LHHL-.75-20	1500	20	54	5.7	4.7	0.93	24
LHHL-1-5	2000	5	72	5.7	4.7	1.14	14
LHHL-1-10	2000	10	72	5.7	4.7	1.14	17
LHHL-1-15	2000	15	72	5.7	4.7	1.14	19
LHHL-1-20	2000	20	72	5.7	4.7	1.14	22
LHHL-1.5-5	2500	5	64	6.3	5	1.26	18
LHHL-1.5-10	2500	10	64	6.3	5	1.26	22
LHHL-1.5-15	2500	15	64	6.3	5	1.26	25
LHHL-1.5-20	2500	20	64	6.3	5	1.26	29
LHHL-2-5	4000	5	59	6.8	5.9	1.44	26
LHHL-2-10	4000	10	59	6.8	5.9	1.44	32
LHHL-2-15	4000	15	59	6.8	5.9	1.44	37
LHHL-2-20	4000	20	59	6.8	5.9	1.44	43
LHHL-2.75-5	5500	5	81	6.8	5.9	1.44	26
LHHL-2.75-10	5500	10	81	6.8	5.9	1.44	32
LHHL-2.75-15	5500	15	81	6.8	5.9	1.44	37
LHHL-2.75-20	5500	20	81	6.8	5.9	1.44	43
LHHL-3-5	6000	5	69	7.5	6.3	1.54	35
LHHL-3-10	6000	10	69	7.5	6.3	1.54	43
LHHL-3-15	6000	15	69	7.5	6.3	1.54	50
LHHL-3-20	6000	20	69	7.5	6.3	1.54	58
LHHL-6-5	12000	5	72	7.5	8.5	1.97	60
LHHL-6-10	12000	10	72	7.5	8.5	1.97	76
LHHL-6-15	12000	15	72	7.5	8.5	1.97	92
LHHL-6-20	12000	20	72	7.5	8.5	1.97	108
LHHL-9-5	18000	5	78	7.5	12	2.85	93
LHHL-9-10	18000	10	78	7.5	12	2.85	117
LHHL-9-15	18000	15	78	7.5	12	2.85	140
LHHL-9-20	18000	20	78	7.5	12	2.85	164

Synthetic Sling End Fittings

Web-Trap® Steel Triangles & Chokers

Web-Trap® design keeps sling material in place, reducing wear and increasing sling life.



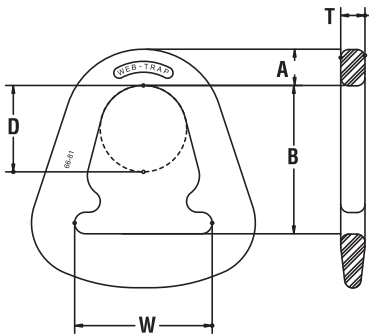
PRODUCT FEATURES:

- Forged steel (unless noted).
- For use with one or two-ply web slings.
- Plated for corrosion resistance.
- Complies with ASME B30.9 sling capacities.

INSTOCK PROGRAM



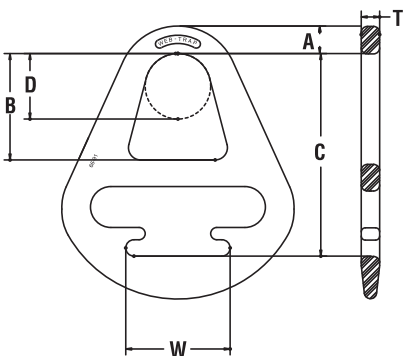
SPECIFICATIONS - Triangles



Model Number	Rated Capacity (lbs.)	Dimensions (in.)					Weight (lbs.)
		A	B	D	T	W	
WT2	8000	11/16	2-3/8	1-3/4	9/16	2	1
WT3	8600	13/16	3-7/16	2	9/16	3	2
WT4	11500	15/16	4	2-3/8	9/16	4	2.6
WT6*	16800	1-1/16	5-9/16	3-1/8	3/4	6	6.3
WT8*	22400	1-7/16	6-1/2	4	3/4	8	10.2
WT10*	28000	1-1/2	8-1/4	5	1	10	17
WT12*	33600	1-3/4	8-3/4	5-1/2	1	12	24

* Weldless flame cut steel

SPECIFICATIONS - Chokers



Model Number	Rated Capacity (lbs.)	Dimensions (in.)					Weight (lbs.)	
		A	B	C	D	T		W
WC2	8000	11/16	2-7/16	5-1/8	1-3/4	9/16	2	1.9
WC3	8600	13/16	3-1/4	6-3/16	2	9/16	3	3.6
WC4	11500	15/16	3-3/4	6-15/16	2-3/8	9/16	4	5.1
WC6*	16800	1-1/16	4-3/4	8-7/8	3-1/8	3/4	6	12
WC8*	22400	1-7/16	5-5/8	10	4	3/4	8	25
WC10*	28000	1-1/2	7	11-13/16	5	1	10	38
WC12*	33600	1-3/4	7-3/4	12-13/16	5-1/2	1	12	54

* Weldless flame cut steel

Synthetic Sling End Fittings

Aluminum Triangles and Chokers



Triangles

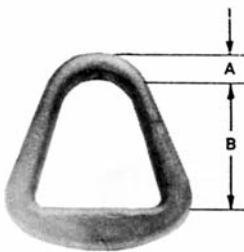
PRODUCT FEATURES:

- Forged aluminum.
- Lightweight for one-ply capacity slings only.
- Non-sparking.
- Complies with ASME B30.9 sling capacities.



Chokers

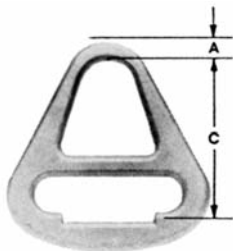
INSTOCK PROGRAM



SPECIFICATIONS - Triangles

Model Number	Rated Capacity (lbs.)	Dimensions (in.)			Weight (lbs.)
		A	B	Thickness	
AT2	3360	3/4	2-1/4	9/16	.32
AT3	5000	3/4	3-1/4	5/8	.70
AT4	6700	7/8	3-3/4	1/2	1.2
AT6	9700	1-1/16	5-1/2	15/16	2.75

NOTE: For use only with one-ply web slings.



SPECIFICATIONS - Chokers

Model Number	Rated Capacity (lbs.)	Dimensions (in.)			Weight (lbs.)
		A	C	Thickness	
AC2	3360	3/4	4-1/4	9/16	.72
AC3	5000	3/4	5-1/4	11/16	1.2
AC4	6700	7/8	6-3/4	1/2	1.8
AC6	9700	1-1/16	8-1/2	15/16	4.9

NOTE: For use only with one-ply web slings.

WARNING

Do not use aluminum fittings where fumes, sprays, mists or liquids of caustics are present.

Synthetic Sling End Fittings



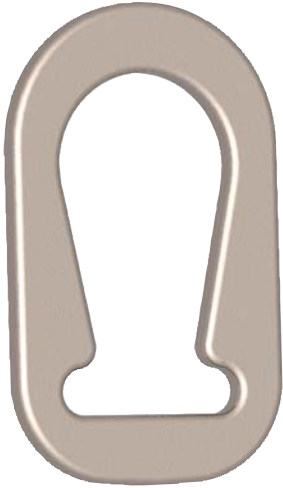
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Unilink® Combination Triangle/Choker

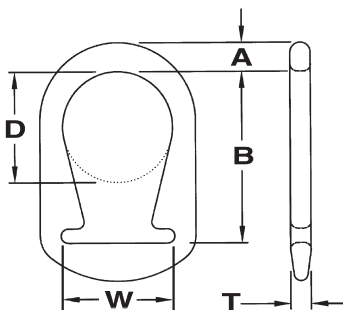
PRODUCT FEATURES:

- Forged steel.
- Large crane hook opening for easier rigging.
- Web-Trap® design.
- Functions as both triangle and choker.
- Plated for corrosion resistance.
- Use with one or two ply web slings.
- Use with roundslings up to 5,300 pound rated capacity.
- Complies with ASME B30.9 sling capacities.



Patent No. 4,789,193

**INSTOCK
PROGRAM**

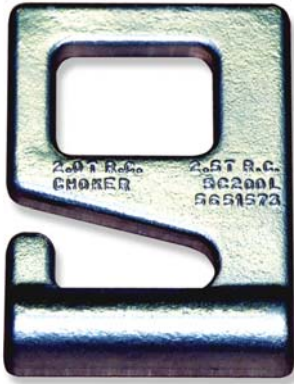


SPECIFICATIONS

Model Number	Rated Capacity (lbs.)	Dimensions (in.)					Weight (lbs.)
		A	B	D	T	W	
UL2	8000	11/16	3-11/16	2	9/16	2	1.1
UL3	8600	7/8	5-1/16	3	5/8	3	2.4
UL4	11500	3/4	6-3/16	4	5/8	4	4

Synthetic Sling End Fittings

G-Link™ Coupler



Patent No. 5,651,573

INSTOCK PROGRAM

PRODUCT FEATURES:

- Forged steel (unless noted).
- Can be used to make a Quick-Choke™ Pipe Lifting Sling.
- Couples web or round sling with hardware (oblongs or hooks).
- Splices two slings into longer length.
- Connects two slings with oblong and two hooks into bridle sling.
- Plated for corrosion resistance.
- Complies with ASME B30.9 sling capacities.

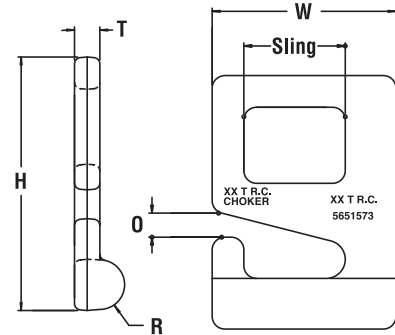
⚠ WARNING

Load loss.
G-Link is not a hook.
Do not use the G-Link as a hook.
Use G-Link only for connecting slings or end fittings.

SPECIFICATIONS - G-Link™ Hardware

Model Number	Rated Capacity (tons)	Dimensions (inches)						Weight (lbs.)
		Sling Size	Width W	Length H	Thickness T	Opening O	Radius R	
GL2	2-1/2	2	3-5/8	5	1/2	1/2	1/2	2.2
GL3	5	3	5	6-5/8	3/4	9/16	5/8	5.6
GL4	7-1/2	4	6	7-1/2	1	3/4	11/16	9.5
GL5*	15	5	8	10	1-1/4	9/16	1	22.7
GL6*	25	6	9-1/2	12-1/2	1-1/2	1-3/16	1	37

* Flame cut steel



Quick-Choke™ Sling



Connect Hook Or Oblong To Sling



Connect Two Slings
(Configuration will affect G-Link™ capacity.)

Use to make these Quick-Choke™ Slings: SPECIFICATIONS

Model Number	Rated Capacity (lbs.)	Web Sling	
		Width (in.)	Length (ft.)
QC-2	4000	2	10
QC-3	7000	3	12
QC-4	9000	4	14

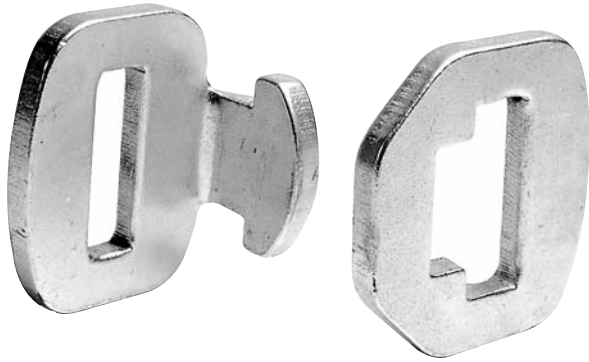
Synthetic Sling End Fittings



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Rig-Master® Section
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Web Sling Quick Disconnects



PRODUCT FEATURES:

- Flame cut steel.
- Quick and easy choker with rigging.
- Sized for 2" and 3" wide slings.
- Ideal for handling pipe quickly and efficiently.
- Plated for corrosion resistance.
- Complies with ASME B30.9 sling capacities.

INSTOCK PROGRAM

SPECIFICATIONS - Quick Disconnect Hardware

Model Number	Rated Capacity (lbs.)	Webbing Slot		Overall Length (in.)	Weight of Unit (lbs.)
		Width (in.)	Length (in.)		
PSB-2	2500	2-1/8	7/8	3-3/8	2
PSB-3	3750	3-1/4	1	3-5/8	5

NOTE: Both pieces sold as a unit.



Use to make these Quick Disconnect Slings in any length your customer needs!

SPECIFICATIONS

Model Number	Rated Capacity (lbs.)	Web Sling Width (in.)
D2PS-Q	2500	2
D3PS-Q	3750	3

Synthetic Sling End Fittings

Barrel/Drum Hooks



Use in Pairs

PRODUCT FEATURES:

- Forged steel.
- Use with chain, wire rope or 1" nylon slings to lift drums or barrels.
- Ideally configured for use with an endless sling.
- Plated for corrosion resistance.
- Full 2-7/8" lip for positive grip.
- Lifts drums either vertically or horizontally.
- Complies with ASME B30.9 sling capacities.



SPECIFICATIONS - Barrel/Drum Hook Hardware

Model Number	Rated Capacity Per Pair (lbs.)	Eye (in.)		Overall Length (in.)	Width of Lip (lbs.)	Weight Per Pair (lbs.)
		I.D.	O.D.			
BH	1000	1-9/16	2-13/16	5	2-7/8	3.6



Shown with 1" nylon sling.

Use to make this Drum Handling Sling: SPECIFICATIONS

Rated Capacity (lbs.)	Model Number	Drum Hook Width (in.)
1000	1HB2-N x 3' or 5'	2-7/8

NOTE: Use on metal drums only.

Rig-Master® Rigging Attachments have been designed for specific tasks to withstand the particular forces imposed. A summary of guidelines for installation, inspection, maintenance, repair, safe operation, and operator training of these attachments follow:

INSTALLATION

Below/Hook Lifters shall be assembled and installed in accordance with the manufacturer's instructions, unless other specific arrangements have been approved in writing by manufacturer. Check for specific maintenance and installation procedures in accordance with manufacturer's instructions.

OPERATOR TRAINING

Lifters shall be operated in accordance with manufacturer's operating instructions, and by personnel who have received instructions described in the "Operating Practices" section of these guidelines.

Training shall also include instruction regarding:

1. Details of the lifting cycle.
2. Application of the lifter to the load including (according to the manufacturer's instructions) adjustments to the lifter, if any, to adapt it to various sizes and kinds of loads.
3. Instruction in any special operations or precautions that may be required.
4. Recognition of proper load configuration. For example, preferred operation requires an orderly pattern of stacking.
5. Before assuming responsibility for using the lifter, an operator shall demonstrate his understanding of the lifting procedure to the instructor. The instructor should record, for your personnel evaluation, notes of operator's demonstrated ability.

INSPECTION

The lifter shall be visually inspected by or under the direction of an appointed person on a daily or weekly schedule depending on the nature of the lifter and the severity of the service.

Details to look for include but are not limited to:

1. Structural deformation.
2. Cracks in the structural frame, welds, hoist hook attachment points, mechanically operating parts, any attached slings, clevises and hooks.
3. Malfunctions during operation of a mechanically operating lifter.
4. Loose covers, fasteners and stops.
5. Faulty operation of automatic hold and release mechanisms.
6. Wear of hoist hooking points, load supporting clevises, pins, slings, linkages and mechanical parts.
7. Missing nameplates and markings. Contact Caldwell for replacements.

MAINTENANCE AND REPAIRS

1. A preventive maintenance program should be established for each lifter by a qualified person based on recommendations made by its manufacturer.
2. A qualified person should have responsibility for repairs. Dated records and details of repairs and parts replacement should be carefully maintained by a qualified person, and copies kept in your possession.
3. Replacement parts shall be at least equivalent to the original manufacturer's specifications.
4. Keep products clean of dirt and debris to ensure proper and safe operation.
5. Oil pins and moving parts as required.

OPERATING PRACTICES

DO'S

1. The operator shall receive, read and understand the manufacturer's instruction manual.
2. The operator shall watch carefully that the lifter is performing properly during the lifting procedure.
3. The operator shall know the standard crane hand signals.
4. The operator shall only respond to signals from an appointed person. However, stop signals from anyone shall be obeyed.
5. The operator shall notify a designated person when he considers a load to be unsafe.
6. The operator shall observe the lifter before using. A defect observed shall be examined by a qualified person to determine if it is a hazard.

DON'TS

1. The operator shall not operate a malfunctioning lifter or one with an "out of service" tag attached.
2. The operator shall not use the lifter for any purpose(s) other than those designated by the manufacturer's instruction manual.
3. The operator shall not use a lifter when the capacity, weight or product safety labels are missing or are no longer legible.
4. No one shall make alterations or modifications to lifters without consulting the manufacturer.
5. No one shall obscure or paint over the manufacturer's capacity, weight, or safety markings.
6. Loads shall not be lifted higher than necessary or be left suspended unattended.
7. The lifter shall not lift a load that is not properly balanced for safe lifting.

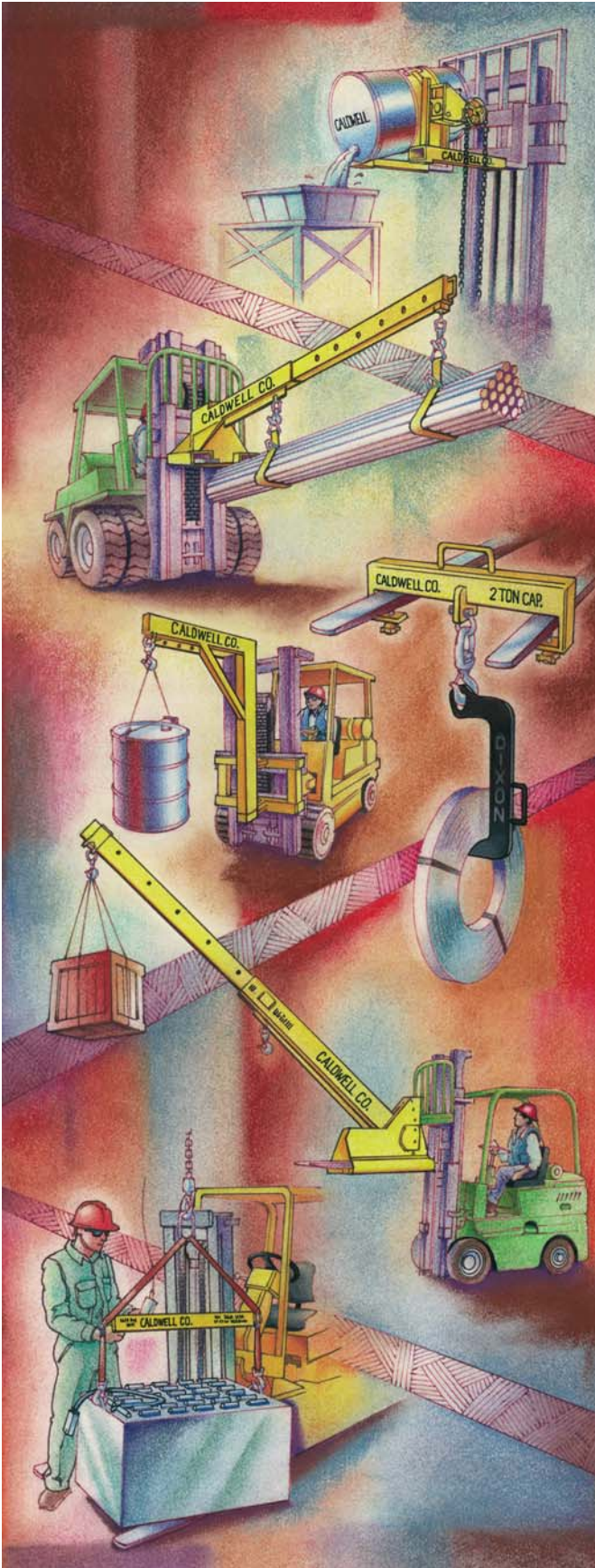
HANDLING THE LOAD

1. The lifter shall not be loaded in excess of its rated load.
2. Ensure the load can withstand forces applied by the lifter.
3. The combined weight of the lifter and load shall not exceed the rated load of the crane or hoist.
4. The lifter shall be applied to the load in accordance with the manufacturer's recommended operating procedure.
5. Lifter ropes and chains shall not be kinked, and multiple part lines shall not be twisted about each other.
6. The lifter shall not touch obstructions during load movement.
7. The lifter shall not be loaded with loose material that might fall during movement.
8. The operator or other personnel shall not place themselves or any part of their bodies beneath suspended loads.
9. The load or lifter shall not be slid on the floor or other surface.
10. The lifter shall not be used for loads for which it is not designed.
11. If suspended loads are moved manually, they shall be pushed, not pulled.
12. A preliminary lift of a few inches shall be made to establish that the load is stable.
13. All loads shall be accelerated and decelerated smoothly and slowly.

Modifications or repairs performed on your lifting equipment without prior written approval from The Caldwell Group, Inc. voids your warranty. Refer to ASME standards for information regarding the liability of repaired or modified lifters.

LIF-TRUC™

Fork Lift Truck Attachments



Booms

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Drum Handling

Pages G.12 - G.15



Fork Beams

Pages G.16 - G.17



Rams & Extensions

Pages G.18 - G.19



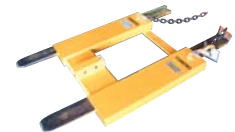
Battery Lifting Beams

Pages G.20 - G.21



Special Application

Pages G.22 - G.26



Index to Lif-Truc™ Fork Lift Truck Attachments

Booms



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Rams & Extensions



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Battery Lifting Beams



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QUALITY & ENGINEERING

BOOMS

DRUM HANDLING

FORK BEAMS

RAMS & EXTENSIONS

SPECIAL APPLICATIONS

BATTERY LIFTING BEAMS

CARE & USE

Quality & Engineering

The Caldwell Group has been manufacturing lifting equipment since 1954. It is our goal to manufacture high quality, long lasting lifting products that will safely increase productivity and reduce operating costs.

Both OSHA and ANST/ITSDF indicate modifications and additions to a fork truck require prior written approval from the original fork truck manufacturer.

OSHA 1910.178(a)(4) states “Modifications and additions which affect capacity and safe operation shall not be performed by the customer or user without manufacturers prior written approval. Capacity, operations, and maintenance instruction plates, tags, or decals shall be changed accordingly.”

ANSI/ITSDF B56.10-2006 4.2.1 states “no modification or alterations to a powered industrial truck that may affect the capacity, stability or safe operation of the truck, shall be made without the prior written approval of the original truck manufacturer or its successor thereof. When the truck manufacturer or its successor approves a modification or alteration, appropriate changes shall be made to capacity plates, decals, tags, and operations and maintenance manuals.”

ANSI/ITSDF B56.10-2006, Part III, 7.4.5 - The attachment manufacturer shall install a durable, corrosion resistant nameplate, with the following information legibly and permanently inscribed:

- Model designation
- Serial Number
- Maximum hydraulic pressure (on hydraulically actuated attachments)
- Weight (value to be accurate +/-5%)
- Capacity
- The following instruction (or equivalent): Capacity of truck and attachment combination may be less than capacity shown on attachment. Consult truck nameplate.

Caldwell Delivery Programs

The Caldwell Group offers two quick delivery programs, INSTOCK and QUICKSHIP.

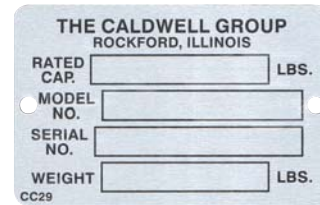


Look for the **green INSTOCK** logo on our standard products. The specific **INSTOCK** model number is shown in **green**. **INSTOCK** products ship in 48 hours.* This program also included over 90 models available for same day shipping with our Order Today, Ship Today! program. Ask your customer service representative for details.

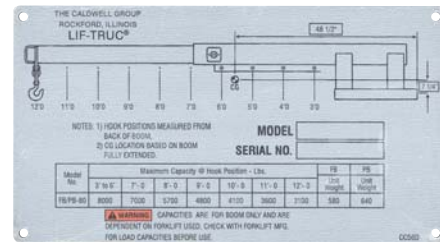


Look for the **red QUICKSHIP** logo on our standard products. The specific **QUICKSHIP** model number is shown in **red**. **QUICKSHIP** products ship in 7 to 10 days.*

* Excluding weekends and holidays.



I.D. Nameplate



Product Safety Labels



DISCLAIMER:
 All product designs are subject to change without notice. Products pictured in this catalog are a representation of a specific design. The product you purchase will be designed for your specific application and may not look exactly like the picture in this catalog.

Booms

Model FB - Telescopic Fork Lift Booms

The Fixed Boom, Model FB, has a telescoping boom with a maximum horizontal reach of 12 feet. This model is available in 3,000, 4,000, 6,000 and 8,000 lb. capacities.

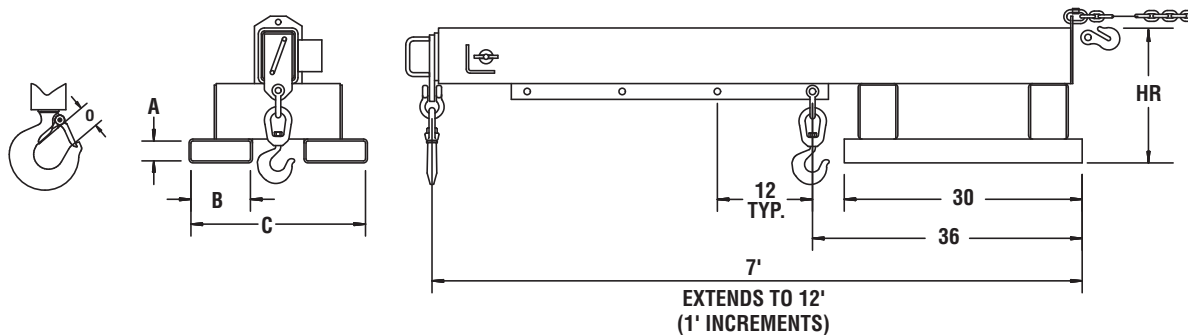
PRODUCT FEATURES:

- Alternate hook positions.
- Telescoping boom.
- Restraining chain with grab hook.
- Handle at end for easy extension.
- Fixed or swivel hooks available.
- Boom locking t-pin.



INSTOCK PROGRAM

**Model FB
Fixed Type Fork Lift Boom**



NOTE: All dimensions on drawings shown in inches unless stated.

SPECIFICATIONS

Model Number	Dimensions (in.)					Maximum Capacity @ Hook Position (lbs.)							Weight (lbs.)
	A	B	C	HR	O	3'-6"	7'	8'	9'	10'	11'	12'	
FB-30	2-1/2	7-1/2	22	16	1.00	3000	3000	2600	2200	1900	1600	1500	340
FB-40				16	1.09	4000	3200	2600	2200	1900	1600	1500	340
FB-60	2-1/2	7-1/2	22	17	1.36	6000	5000	4200	3500	3000	2700	2500	390
FB-80				18	1.61	8000	7000	5700	4800	4100	3600	3100	520

NOTE: Models FB-30 and FB-40 are only available with swivel hooks.

WARNING

Capacity of lift truck and attachment combination may be less than capacity shown on attachment. Consult lift truck manufacturer.

Booms

Model PB - Telescopic Pivoting Fork Lift Booms

The Pivot Boom, Model PB, has a telescoping boom with a maximum horizontal reach of 12 feet. This model is available in 3,000, 4,000, 6,000 and 8,000 lb. capacities. The versatile Model PB is adjustable vertically in five increments up to a maximum of 40 degrees.

PRODUCT FEATURES:

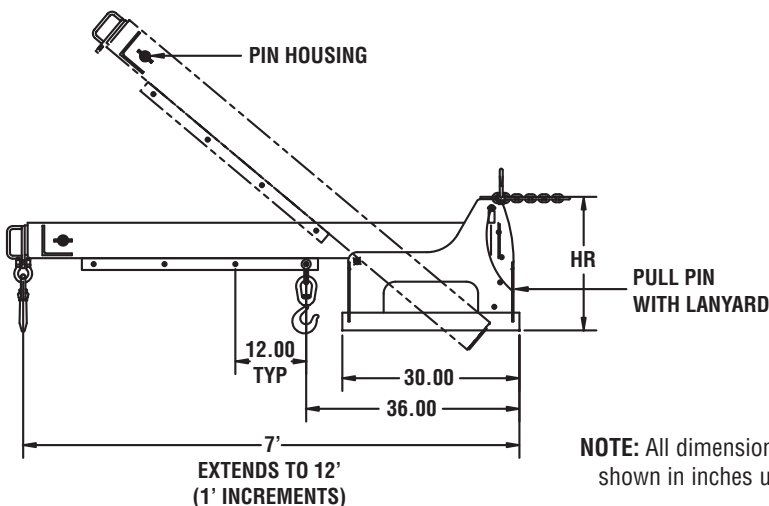
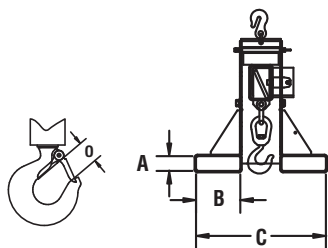
- Alternate hook positions.
- Telescoping boom.
- Restraining chain with grab hook.
- Boom locking t-pin.
- Handle at end for easy extension.
- Fixed or swivel hooks available.
- Vertically pivoting boom to 6'-4" height.



Model PB
Pivot Type Fork Lift Boom

WARNING

Capacity of lift truck and attachment combination may be less than capacity shown on attachment. Consult lift truck manufacturer.



NOTE: All dimensions on drawings shown in inches unless stated.

SPECIFICATIONS

Model Number	Dimensions (in.)				Maximum Capacity @ Hook Position (lbs.)								Weight (lbs.)
	A	B	C	HR	O	3'-6'	7'	8'	9'	10'	11'	12'	
PB-30	2-1/2	7-1/2	22	22-5/8	1.00	3000	3000	2600	2200	1900	1600	1500	350
PB-40					1.09	4000	3200	2600	2200	1900	1600	1500	350
PB-60	2-1/2	7-1/2	22	22-5/8	1.36	6000	5000	4200	3500	3000	2700	2500	420
PB-80					1.61	8000	7000	5700	4800	4100	3600	3100	540

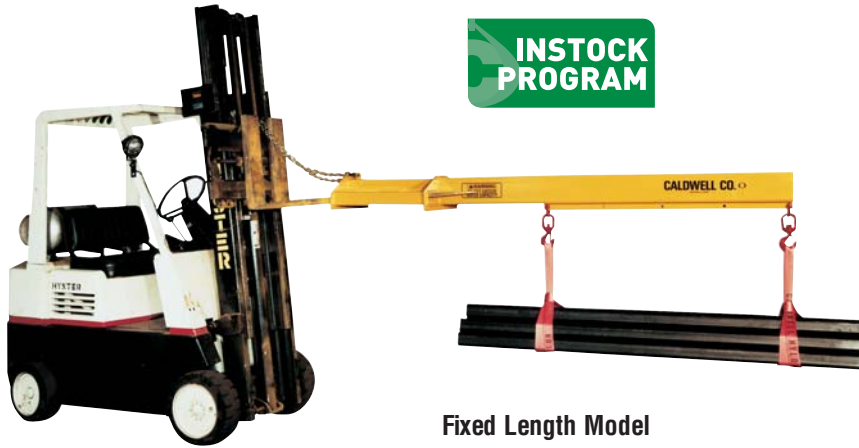
NOTE: Models PB-30 and PB-40 are only available with swivel hooks.

Booms

Model EB - Fixed Length Fork Lift Booms

Use the efficient, economical Fixed Length Boom attachment when telescoping is not required.

INSTOCK PROGRAM



Fixed Length Model
EB-40 Shown

PRODUCT FEATURES:

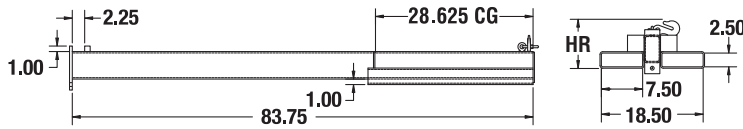
- Fixed length.
- Restraining chain with grab hook.

EB-15 - Lightweight

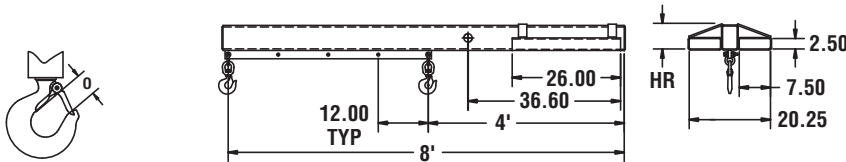
- Accepts up to a 2" wide sling.
- Optional swivel hook available.

EB-40 - Fixed Length

- 5 alternate hook positions.
- Fixed or swivel hooks available.



EB-15



EB-40

NOTE: All dimensions on drawings shown in inches unless stated.

SPECIFICATIONS

Model Number	Maximum Capacity (lbs.)	Headroom HR (in.)	Hook Opening O (in.)	Maximum Capacity @ Hook Position - (lbs.)					Weight (lbs.)
				4'	5'	6'	7'	8'	
EB-15	1500	7.00	1.00	-	-	-	-	-	185
EB-40	4000	6.30	1.09	4000	3500	3000	2500	2000	240

WARNING

Capacity of lift truck and attachment combination may be less than capacity shown on attachment. Consult lift truck manufacturer.

Booms

Model EFB - Extended Fork Lift Boom

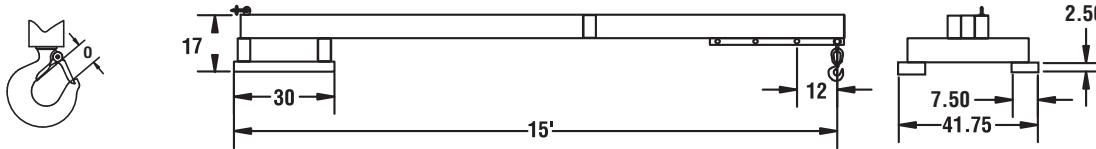
Get the Extra Reach You Need with our Extended Fork Lift Boom

Use specifically for use with off-road fork trucks. This fork boom has four different hook positions on 12 inch increments from 12 to 15 feet. Low profile design is easy to store.



PRODUCT FEATURES:

- 12' to 15' hook position.
- Extra wide fork pockets.
- Restraining chain with grab hook standard.



NOTE: All dimensions on drawings shown in inches unless stated.

SPECIFICATIONS

Model Number	Maximum Capacity @ Hook Position - (lbs.)				Hook Opening Ø (in.)	Weight (lbs.)
	12'	13'	14'	15'		
EFB-25	2500	2300	2100	2000	1.00	665

WARNING

Capacity of lift truck and attachment combination may be less than capacity shown on attachment. Consult lift truck manufacturer.

Booms

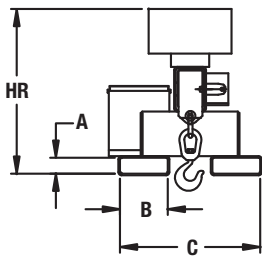
Precision Lifting Boom

Quickly turns your fork lift into a portable crane.

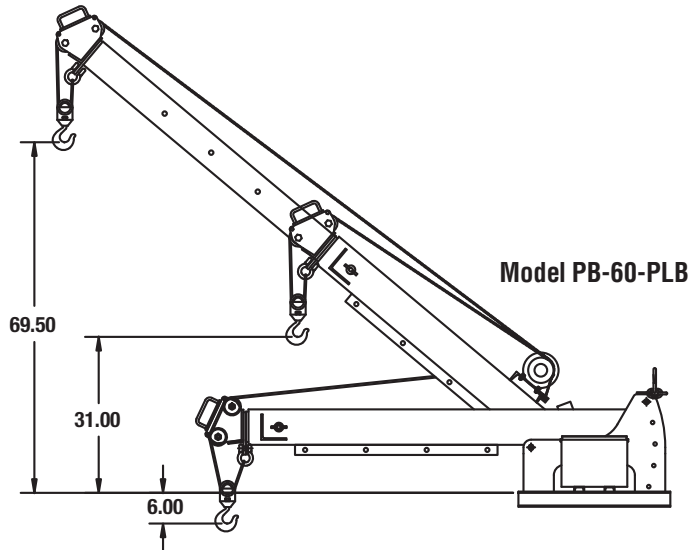


PRODUCT FEATURES:

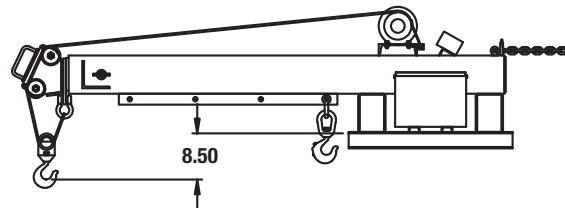
- Portable, compact and versatile lifting.
- Fits standard fork lift truck.
- Hook travels approximately 20'.
- Adjusts both horizontally and vertically.
- Restraining chain with grab hooks.
- Completely self contained 12Volt DC power supply.
- 100 AMP Hour Battery with charger.
- Easy to use toggle button control with standard 12' cord.
- Hoist hook speed averages 7.5 FPM.



Fork Pocket Configuration
All Models



Model PB-60-PLB



Model FB-60-PLB

**QUICKSHIP
PROGRAM**

SPECIFICATIONS

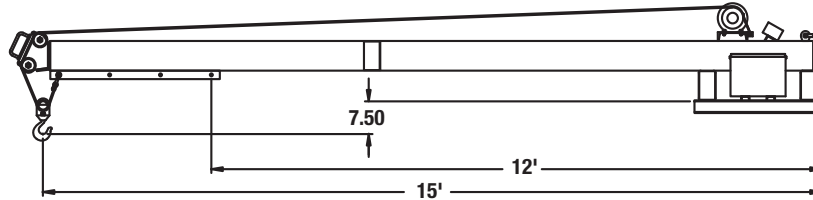
Model Number	Dimensions (in.)					Maximum Capacity (lbs.)		Weight (lbs.)
	A	B	C	HR	O	Boom Hook	Lifting Hook	
						3'-6'	7'-12'	
PB-60-PLB	2.50	7.50	22.50	28.25	1.36	6000	2400	620
FB-60-PLB	2.50	7.50	22.50	26.00	1.36	6000	2400	590

Booms

Precision Lifting Boom

Quickly turns your fork lift into a portable crane.

Model EFB-25-PLB



SPECIFICATIONS

Model Number	Dimensions (in.)					Maximum Capacity (lbs.)				Weight (lbs.)
	A	B	C	HR	O	Boom Hook			Lifting Hook	
						12'	13'	14'	15'	
EFB-25-PLB	2.50	7.50	41.75	26.00	1.00	2500	2300	2100	2000	865

NOTE: All dimensions on drawings shown in inches unless stated.

WARNING

Capacity of lift truck and attachment combination may be less than capacity shown on attachment. Consult lift truck manufacturer.

Operation



Real Time Tests

Starting with a fully charged battery, the Precision lifting Boom lifts and lowers a 1,000-pound load from an eight-foot steel pit forty times. The battery charges in four to five hours with the supplied charger.

Booms

Model ROB - Reach Over Fork Lift Boom

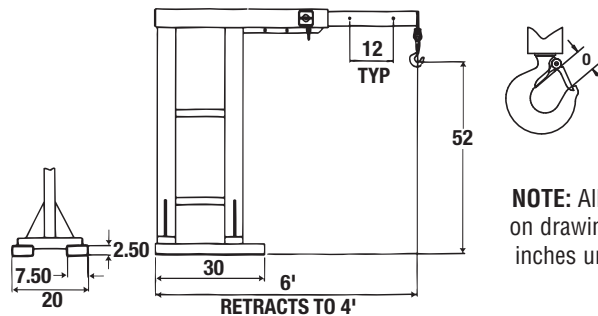
Use the Reach Over Boom when an extension boom is required and clearance is a factor.



PRODUCT FEATURES:

- Multiple hook positions.
- Telescoping boom.
- Restraining chain with grab hook.
- Swivel hooks with hook latches.

QUICKSHIP PROGRAM



SPECIFICATIONS

Model Number	Maximum Capacity (lbs.)	Hook Opening O (in.)	Weight (lbs.)
ROB-40	4000	1.09	470
Capacity At Hook Position (lbs.)			
4'	4000		
5'	3500		
6'	1800		

⚠ WARNING

Capacity of lift truck and attachment combination may be less than capacity shown on attachment. Consult lift truck manufacturer.

Booms

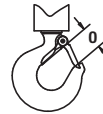
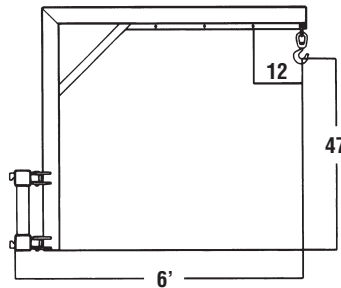
Model FCJ - Carriage Jib Fork Lift Boom

Use the Carriage Jib Boom attachment when fork obstruction is undesirable.



PRODUCT FEATURES:

- Horizontally adjusting, 15° left or right of center, pivot boom.
- Designed for ITA Class II fork carriages.
- Multiple hook positions.
- Swivel hooks with hook latches.



NOTE: All dimensions on drawings shown in inches unless stated.

SPECIFICATIONS

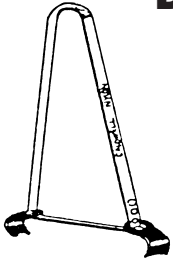
Model Number	Maximum Capacity (lbs.)	Hook Opening Ø (in.)	Weight (lbs.)
FCJ-40	4000	1.09	310
Capacity At Hook Position (lbs.)			
3'	4000		
4'	3000		
5'	2300		
6'	1800		

WARNING

Capacity of lift truck and attachment combination may be less than capacity shown on attachment. Consult lift truck manufacturer.

Drum Handling

Drum Handling Slings



Versatile Drum Handling Sling

This sling allows for easy handling of various sizes of steel drums and barrels, and has a 1,000 lb. capacity. It is light in weight, high in strength, and is resistant to oil.

PRODUCT FEATURES:

- Lightweight - weighs only 4 lbs.
- Versatile - lifts drums either vertically or horizontally.
- Self-tightening grip - sliding drum hooks tighten grip on load as drum is lifted.
- Tough - resistant to alkalis, ultra violet rays, rot and mildew.

QUICKSHIP PROGRAM

SPECIFICATIONS

Model Number	Rated Capacity (lbs.)	Drum Hook Width (in.)
1HB2-N x 3' or 5'	1000	2-7/8

NOTE: Use on metal drums only.



Type HB

Ratchet Type Drum Handling Sling

- Easily lift standing drums for transport.
- Tilt suspended drums to pour from open top or spigot.
- For use with ribbed steel drums, the ratcheting belly band tightens securely below the first rib.
- Standard wear pad for added protection.
- Ratchet tightens securely.
- Free end of ratchet strap sewn to stay properly threaded.
- Vertical legs sewn to belly band to maintain proper position.

QUICKSHIP PROGRAM

SPECIFICATIONS

Model Number (specify diameter)	Rated Capacity (lbs.)	Drum Hook Width (in.)
DSV601	300	1
DSV602	850	2

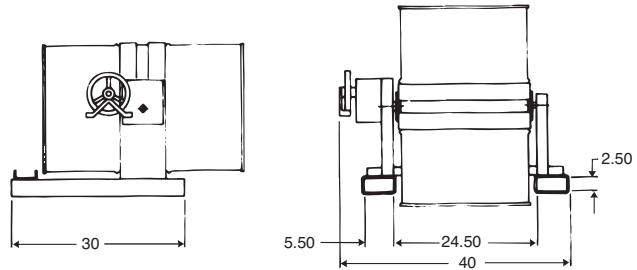


Type DSV

Drum Handling

Model FDL - Fork Lift Drum Lifter/Rotator

The Caldwell Lifter/Rotator unit is designed for use with a lift truck in areas where an overhead hoist is not available. The drum is secured to the carrier above the level of the forks thus it may be used at the full height of the truck. With the chain wheel, the lift truck driver may rotate the drum from the cab of the truck (10' long drop chain). This unit will handle all standard 55 gallon metal drums.



NOTE: Dimensions shown in inches.

SPECIFICATIONS

Model Number	Rated Capacity (lbs.)		Weight (lbs.)
	Full Drum	Half Drum	
FDL-20-55	2000	1000	310

NOTE: The standard model FDL is for lifting drums containing free flowing liquids. Contact factory for drums containing other contents.

WARNING

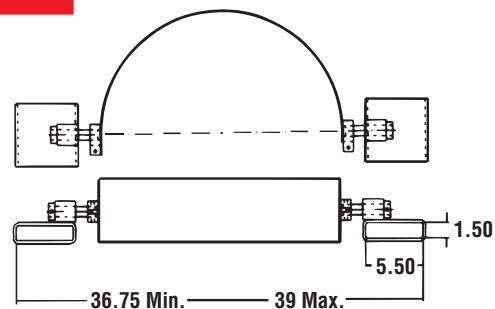
Capacity of lift truck and attachment combination may be less than capacity shown on attachment. Consult lift truck manufacturer.

Model FDD - Fork Lift Drum Lifter/Dumper

Designed to easily and economically lift, travel with, and dump drums into acceptable type containers. Pressure applied to the drum base against rim of container will tilt drum to preferred angle of emptying. Drum is secured to the lifter by a load binder. This unit will handle all standard 55 gallon metal drums.



QUICKSHIP PROGRAM



NOTE: Dimensions shown in inches.

SPECIFICATIONS

Model Number	Rated Capacity (lbs.)		Weight (lbs.)
	Full Drum	Half Drum	
FDD-10-55	1000	500	38

Drum Handling

Model FG - Steel Drum Grippers

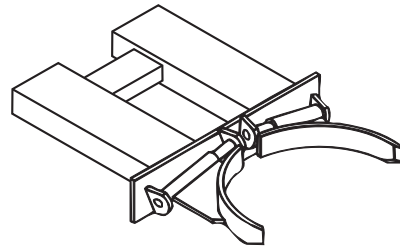
QUICKSHIP PROGRAM

PRODUCT FEATURES:

- High quality heavy duty construction.
- Restraining chain with grab hooks.
- Handles drums of 55 or 30 gallon capacities.
- Lift and release drums without leaving seat.
- Attaches to lift truck quickly and easily.
- Minimum maintenance required.
- Drums will not slip once clamped.
- Quick and easy drum release.



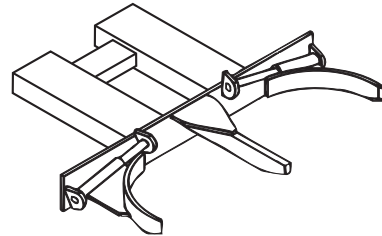
Single Drum Gripper



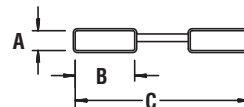
Single Drum Gripper



Double Drum Gripper



Double Drum Gripper



SPECIFICATIONS

Model Number	Drums	Drum Capacity Each (lbs.)	Steel Drum Diameter (in.)		Fork Pockets (in.)			Weight (lbs.)
			55 Gal.	30 Gal.	A	B	C	
FG-1	1	1500	22-3/4	18	2-1/2	7-1/2	23-1/2	230
FG-2	2	1500	22-3/4	18	2-1/2	7-1/2	23-1/2	320

WARNING

Capacity of lift truck and attachment combination may be less than capacity shown on attachment. Consult lift truck manufacturer.

Drum Handling

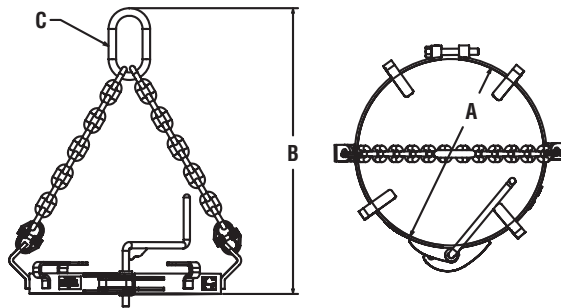
Model VDC - Vertical Drum Clamp

The Model VDC is used for vertical lifting and transporting of metal drums. Equipped with a past center locking device which secures the clamp tightly to the drum. The Model VDC is capable of handling one drum at a time.



PRODUCT FEATURES:

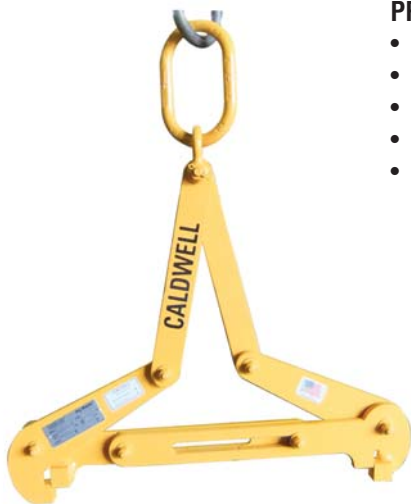
- Vertically lift and transport metal drums.
- Lock secures clamp tightly to the drum.
- Built-in rim brackets for easy alignment.



SPECIFICATIONS

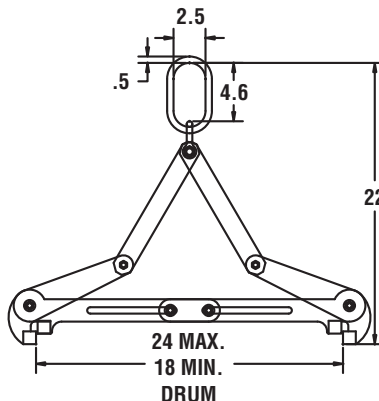
Model Number	Rated Capacity (lbs.)	Drum Diameter	Standard B	Standard C	Weight (lbs.)
VDC-30-55	3000	22-1/2	25	3 x 6	25
VDC-30-30	3000	18-1/2	25	3 x 6	24
VDC-30-20	3000	16-1/2	25	3 x 6	23

Model VDG - Vertical Drum Grab



PRODUCT FEATURES:

- This vertical drum grab is ideal for handling open or closed-headed steel* drums.
- No fasteners, binders, or rings to put around drum.
- Grab allows drums to be closely stored to maximize floor space.
- Grab will not damage drum.
- Complies with ASME standards.



SPECIFICATIONS

Model Number	Rated Capacity (tons)	Weight (lbs.)
150 - 1	1	19



*Not recommended for open steel drums containing free flowing liquids or drums with removable lid affixed with a tension band.

NOTE: Dimensions shown in inches.

Fork Beams

Models 5, 10 & 15 - Fork Lift Beams

Caldwell Fork Lift Beams are specifically designed to make fork lifts more versatile by providing positive handling of loads otherwise impractical for fork lifts.



PRODUCT FEATURES:

- Easy attachment, no special wrenches or tools needed.
- Strong, sturdy, all welded construction.
- Easy to see, highly visible yellow paint.
- Custom designs available.

INSTOCK PROGRAM

QUICKSHIP PROGRAM

WARNING

Capacity of lift truck and attachment combination may be less than capacity shown on attachment. Consult lift truck manufacturer.

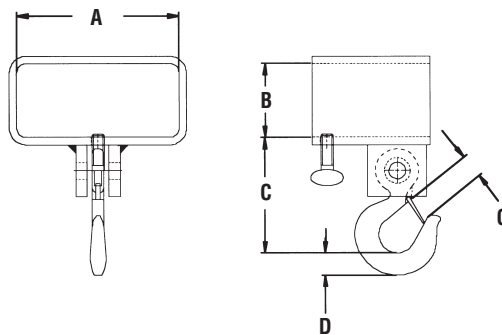
Model 5 - Single Fork Hook - Fixed or Swivel



(Fixed hook shown)



(Swivel hook shown)



SPECIFICATIONS

Model Number Fixed	Model Number Swivel	Rated Capacity (lbs.)	Dimensions (in.)						Weight (lbs.)
			A	B	C Fixed	C Swivel	D	O	
5-1 1/2-4	5S-1 1/2-4	3000	4-1/2	2-1/2	4-11/16	6-9/16	1	1	7
5-1 1/2-5	5S-1 1/2-5	3000	5-1/2	2-1/2	4-11/16	6-9/16	1	1	8
5-1 1/2-6	5S-1 1/2-6	3000	6-1/2	2-1/2	4-11/16	6-9/16	1	1	9

Fork Beams

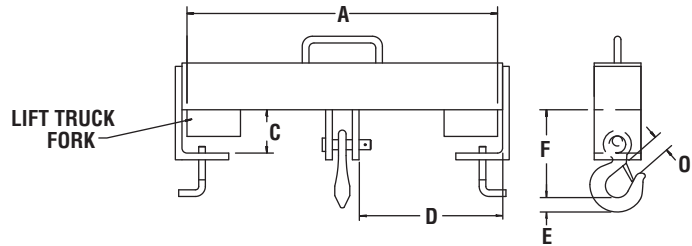
Model 10 - Single Hook Beam - Fixed or Swivel



Model 10S-2-20



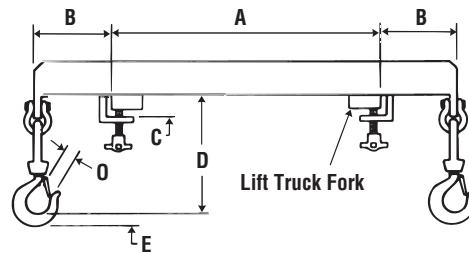
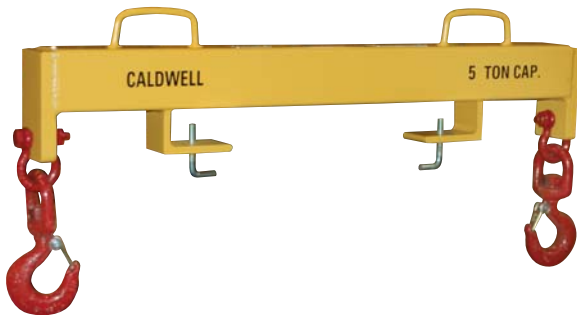
Model 10S-7.5-36



SPECIFICATIONS

Model Number Fixed	Model Number Swivel	Rated Capacity (lbs.)	Dimensions (in.)							Weight (lbs.)
			A	C	D	Fixed F	Swivel F	E	O	
10-2-20	10S-2-20	4000	20	3-1/4	9-1/8	7-1/4	8-7/8	1-1/8	1-5/32	21
10-5-24	10S-5-24	10000	24	3-1/4	10-3/4	9-1/4	11-7/16	1-13/16	1-11/16	42
10-5-36	10S-5-36	10000	36	3-1/4	16-3/4	9-1/4	11-7/16	1-13/16	1-11/16	80
10-7.5-36	10S-7.5-36	15000	36	4-1/4	16-1/4	13-3/4	15-3/4	2-1/4	2-7/32	166
10-10-36	10S-10-36	20000	36	4-1/4	16	14-5/8	16-7/16	2-19/32	2-13/32	180
10-15-36	10S-15-36	30000	36	4-1/4	15-7/8	14-1/2	16-5/16	2-19/32	2-13/32	210

Model 15 - Double Hook Beam - Swivel



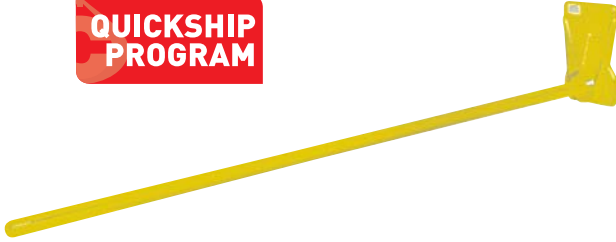
SPECIFICATIONS

Model Number	Rated Capacity (lbs.)	Dimensions (in.)						Weight (lbs.)
		A	B	C	D	E	O	
15-2-20	4000	20	6-5/8	2-1/2	10-3/8	1-7/16	1-11/32	60
15-5-24	10000	24	9-3/8	2-1/2	11-21/32	1-7/16	1-11/32	68

Rams & Extensions

Model RLR - Rug Lifting Rams

QUICKSHIP PROGRAM



PRODUCT FEATURES:

- Available for both Class II and Class III lift trucks.
- Carriage locking pin standard.
- Minimum lost load center.
- Pole made of alloy steel.
- Class II carriage, hanger and baseplate are 1 piece.
- Class III carriage, hanger and baseplate are welded.
- Standard and heavy duty designs available.
- Fork-mounted base unit available.

SPECIFICATIONS - Standard Duty

Model Number	Rated Capacity (lbs.) @72" Load Center	Carriage Class	Pole Length (ft.)	Pole Diameter (in.)	Weight (lbs.)
8B-90	1000	II	9	2-3/4	259
8B-100	1000	II	10	2-3/4	275
8B-110	1000	II	11	2-3/4	292
8B-120	1000	II	12	2-3/4	309
8G-90	1400	II	9	3	291
8G-100	1400	II	10	3	311
8G-110	1400	II	11	3	331
8G-120	1400	II	12	3	351
9B-90	1000	III	9	2-3/4	256
9B-100	1000	III	10	2-3/4	272
9B-110	1000	III	11	2-3/4	289
9B-120	1000	III	12	2-3/4	306

SPECIFICATIONS - Heavy Duty

Model Number	Rated Capacity (lbs.) @72" Load Center	Carriage Class	Pole Length (ft.)	Pole Diameter (in.)	Weight (lbs.)
8D-90	1800	II	9	3-1/4	329
8D-100	1800	II	10	3-1/4	353
8D-110	1800	II	11	3-1/4	377
8D-120	1800	II	12	3-1/4	401
8E-90	2900	II	9	3-3/4	410
8E-100	2900	II	10	3-3/4	443
8E-110	2900	II	11	3-3/4	476
8E-120	2900	II	12	3-3/4	509
8H-90	4300	II	9	4-1/4	505
8H-100	4300	II	10	4-1/4	547
8H-110	4300	II	11	4-1/4	590
8H-120	4300	II	12	4-1/4	633

SPECIFICATIONS - Fork Mounted

Model Number	Rated Capacity (lbs.) @72" Load Center	Overall Length (ft.)	Pole Length (ft.)	Pole Dia. (in.)	Fork Pocket Size (in.)	Fork Pocket Spacing (in.)	Weight (lbs.)
8F-90	1000	11	9	2-3/4	2-1/2 X 7-1/2	31	298
8F-100	1000	12	10	2-3/4	2-1/2 X 7-1/2	31	313
8F-110	1000	13	11	2-3/4	2-1/2 X 7-1/2	31	330
8F-120	1000	14	12	2-3/4	2-1/2 X 7-1/2	31	347

WARNING

Carrying capacity is only for the rug ram. Maximum roll length is 12'

WARNING

Capacity of lift truck and attachment combination may be less than capacity shown on attachment. Consult lift truck manufacturer.

Rams & Extensions

Model FE - Fork Extensions

PRODUCT FEATURES:

- Ideal for oversized loads.
- Easy installation onto existing forks.
- Fits standard fork thicknesses.
- Standard fork extension widths 4" through 7".
- Standard fork extension lengths 42" through 96".



WARNING

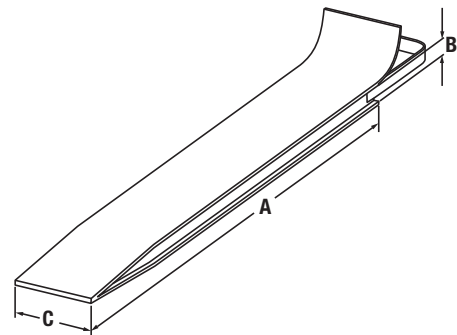
- Extensions shall not exceed 1 1/2X the length of the existing forks.
- Extension capacities are reduced beyond existing fork tips (Approx. 60%).
- Do not tip-load the fork extensions.
- Load center of gravity must not extend past existing fork tips.
- Capacity of lift truck and attachment combination may be less than capacity shown on attachment. Consult lift truck manufacturer.

SPECIFICATIONS

Model Number (Pair)	Extension Length (in.)	Fork Width (in.)	Minimum Fork Length (in.)	Load Center (in.)	Rated Capacity Each (lbs.)	Weight Each (lbs.)
FE4-42	42	4	28	21	1925	25
FE4-48	48	4	32	24	1700	28
FE4-54	54	4	36	27	1500	32
FE4-60	60	4	40	30	1350	35
FE4-63	63	4	42	32	1275	37
FE4-66	66	4	44	33	1225	38
FE4-72	72	4	48	36	1125	42
FE5-42	42	5	28	21	2525	30
FE5-48	48	5	32	24	2200	34
FE5-54	54	5	36	27	1950	38
FE5-60	60	5	40	30	1750	42
FE5-63	63	5	42	32	1675	45
FE5-66	66	5	44	33	1600	47
FE5-72	72	5	48	36	1475	51
FE5-96	96	5	64	48	1100	67
FE6-42	42	6	28	21	3200	36
FE6-48	48	6	32	24	2800	41
FE6-54	54	6	36	27	2500	46
FE6-60	60	6	40	30	2250	51
FE6-63	63	6	42	32	2125	53
FE6-66	66	6	44	33	2025	55
FE6-72	72	6	48	36	1875	60
FE6-96	96	6	64	48	1400	80
FE7-42	42	7	28	21	4000	42
FE7-48	48	7	32	24	3500	48
FE7-54	54	7	36	27	3100	53
FE7-60	60	7	40	30	2800	59
FE7-63	63	7	42	32	2675	62
FE7-66	66	7	44	33	2550	65
FE7-72	72	7	48	36	2325	71
FE7-96	96	7	64	48	1750	94

Model FC - Fork Covers

Caldwell Fork Covers are specifically designed to protect loads which cannot be marred or scratched. Made from durable nylon webbing, these covers are economical and long lasting.



SPECIFICATIONS

Model Number (Pair)	Fork Cover Dimensions (in.)		
	A	B	C
42-1 1/2-4	42	1-1/2	4
48-1 1/2-5	48	1-1/2	5
48-2-6	48	2	6
54-1 1/2-5	54	1-1/2	5
84-4-6	84	4	6

Battery Lifting Beams

Models 36 & 36E - Fiberglass Battery Lifting Beams

Used for applications that require a non-conductive beam such as lifting industrial fork lift truck batteries.



PRODUCT FEATURES:

- Lightweight units — 70% lighter than other beams.
- Models are available for handling batteries of equal length or of different lengths.
- Heavy duty 4,800 lb. and 7,000 lb. capacities.
- Non-conductive fiberglass beam construction.
- Acid-resistant, coated polyester straps and hooks.
- Standard drop sling length is 10", other lengths available upon request.

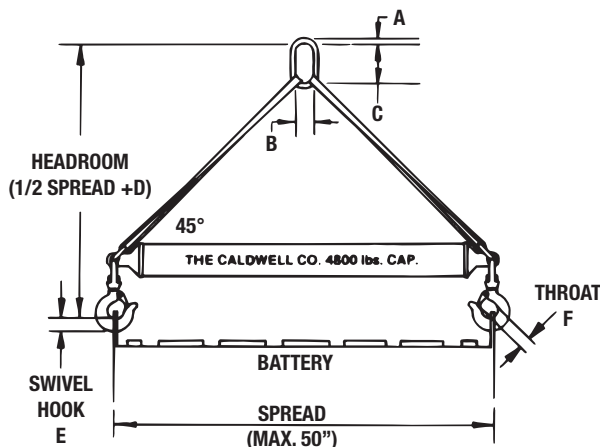


Model 36 - Fixed (Batteries of Equal Length)

SPECIFICATIONS

Model Number	Rated Capacity (lbs.)	Standard Spread (in.)	Dimensions (in.)						Weight (lbs.)
			A	B	C	D	E	F	
36-2.4	4800	36	5/8	3	6	11	27/32	21/32	16
36-3.5	7000	36	3/4	2-3/4	5-1/2	12	1	1	20

NOTE: For battery beams other than standard spread. Measure distance between lifting points. Specify Model 36 with beam spread (in even inches) equal to length measured.

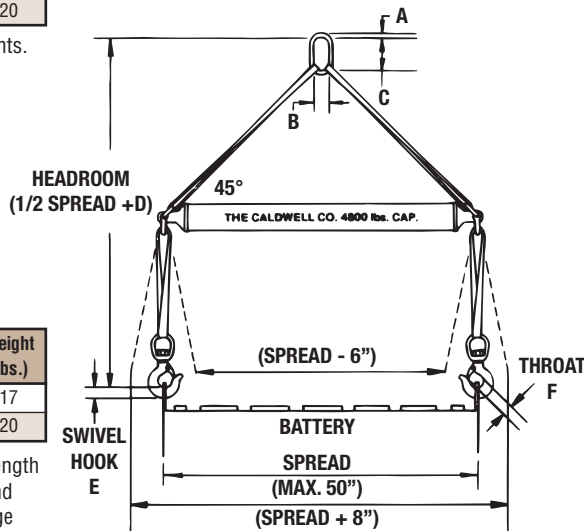


Model 36E - Adjustable (Batteries of Different Length)

SPECIFICATIONS

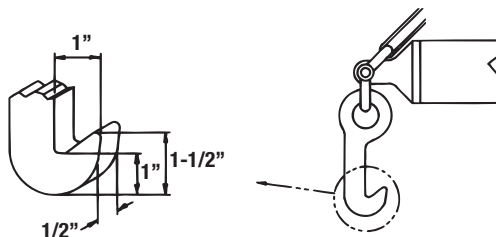
Model Number	Rated Capacity (lbs.)	Standard Spread (in.)	Dimensions (in.)						Weight (lbs.)
			A	B	C	D	E	F	
36E-2.4	4800	36	5/8	3	6	21	1	1	17
36E-3.5	7000	36	3/4	2-3/4	5-1/2	22-1/2	1-1/8	1-1/8	20

NOTE: For Model 36E lifting beams, battery length cannot differ more than 6 inches from length of beam spread. For battery beams other than standard spread. Take average of shortest and longest batteries, and specify Model 36E with beam spread (in even inches) equal to average lengths. Battery length must be within 12 inches, shortest to longest.



OPTION J: J-Hooks available in place of swivel hooks at a reduced cost.

NOTE: When ordering **J-Hook** option show Model 36 as 36J, and Model 36E as 36EJ.



Battery Lifting Beams

Models 36L - Low Headroom Battery Lifting Beam

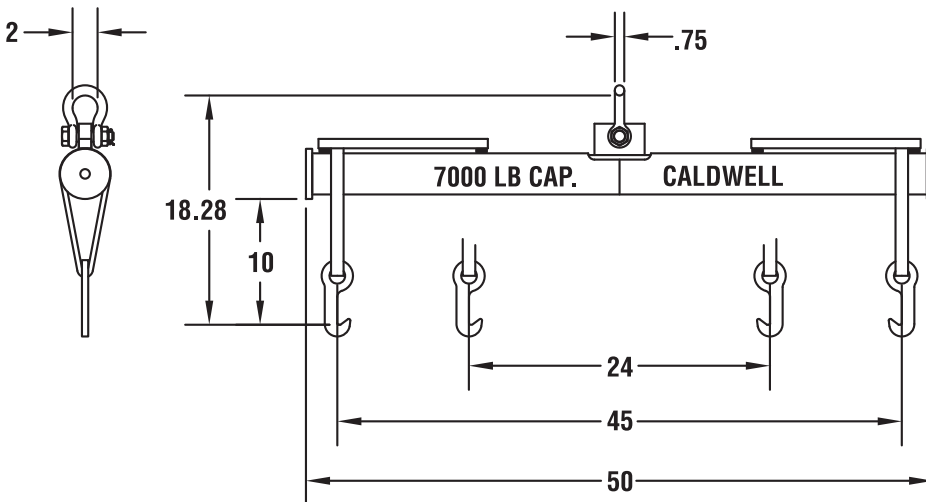
PRODUCT FEATURES:

- Low headroom, 18.28".
- Adjustable to handle batteries of different lengths.
- Non-conductive covered beam.
- Acid-resistant, coated polyester straps with either swivel or J-Hooks.



Unit shown with Option J.

INSTOCK PROGRAM



Shown with J-Hooks (Model 36LJ-3.5)

NOTE: Dimensions shown in inches.

SPECIFICATIONS

Model Number	Rated Capacity (lbs.)	Standard Spread (in.)	Weight (lbs.)
36L-3.5	7000	45	110



STANDARD Swivel Hooks



OPTION J J-Hooks
Order Model 36LJ-3.5

Special Applications

Model SPTR - Trailer Spotter

An inexpensive and fast way to move trailers with your fork lift truck. It quickly attaches to both forks for stable load movement with safety chain and grab hook for added security. Accepts standard 2" hitch inserts designed to handle 1-7/8" to 2-5/16" hitch ball for up to 6,000 pounds gross towing weight, and with the pintle adapter, up to 16,000 pounds gross towing weight.



INSTOCK PROGRAM

PRODUCT FEATURES:

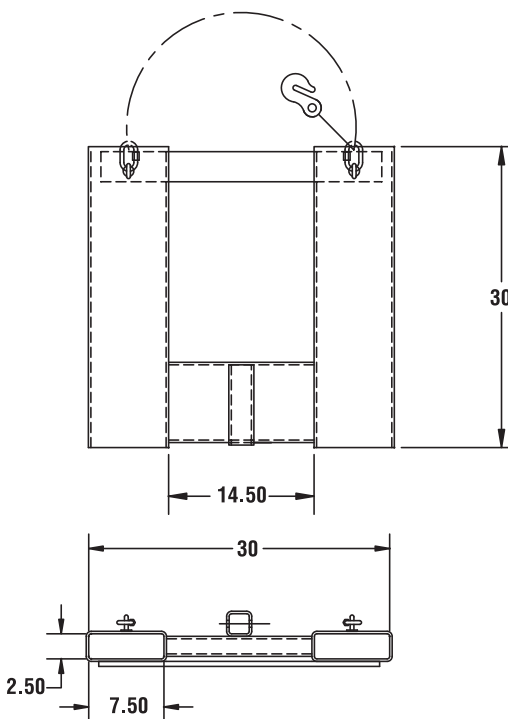
- Easily move trailers with a fork lift truck.
- Restraining chain with grab hooks standard.
- Insert restraining pin standard.
- Can be used with most 2" standard inserts.
- Optional hitch insert or pintle adapter are available.

SPECIFICATIONS

Model Number	Ball Dia. (in.)	Max. Tongue Wt. (lbs.)	Max. Gross Trailer Wt. (lbs.)	Weight (lbs.)
SPTR-8	1-7/8	600	2000	135
	2		5000	
	2-5/16	6000		
	Pintle	3000	16000	

WARNING

Capacity of lift truck and attachment combination may be less than capacity shown on attachment. Consult lift truck manufacturer.



NOTE: Dimensions shown in inches.

Options



Shown with optional hitch insert & ball.



Shown with optional pintle adapter.

Special Applications

Model HDTB - Heavy Duty Tow Bar

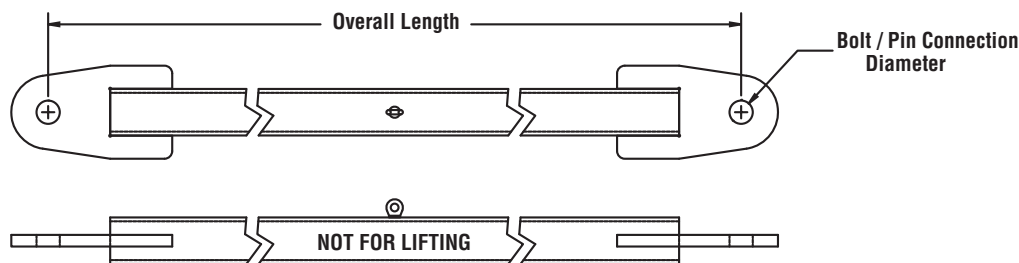
Pulling a heavy load? Caldwell's custom designed tow bar is the solution you need. Our tow bar is a solid connection which provides added control over standard tow chains when moving heavy equipment weighing in at 10, 20, 30 tons or more! Just provide the desired length, capacity, and connection required and we will deliver the solution you need.

PRODUCT FEATURES:

- Can be used to push or pull a load.
- Designed to accommodate your specific connections.
- Custom designed per application.



Application Evaluation



1. Maximum towing capacity (lbs.): _____

2. Overall length (distance between vehicles): _____

3. Connection type:

Pintle

Pin (please provide diameter and length):

Other (please specify): _____

4. Other application information: _____

Contact: _____

Company: _____

Address: _____

City, State, Zip: _____

Phone: _____

Fax: _____

Email: _____

For a price quote on your specific application, please complete the above form and fax to The Caldwell Group at **815-229-5686** or you can complete this form online at www.caldwellinc.com/applications.

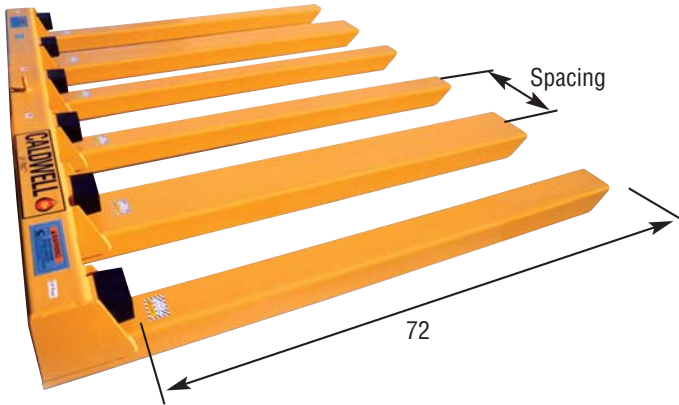
Special Applications

Model MFL - Multiple Pipe Lifter

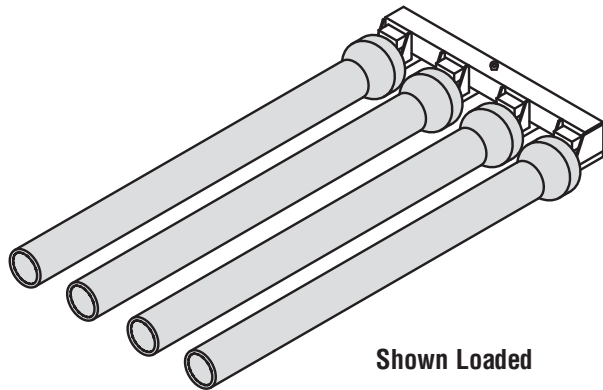
Can help you move your concrete pipe up to 3 times faster than with a standard fork truck. Quickly and easily loads up to 6 pipes at a time* onto a flat bed truck. Increased efficiency saves both time and money moving and loading concrete pipe.

PRODUCT FEATURES:

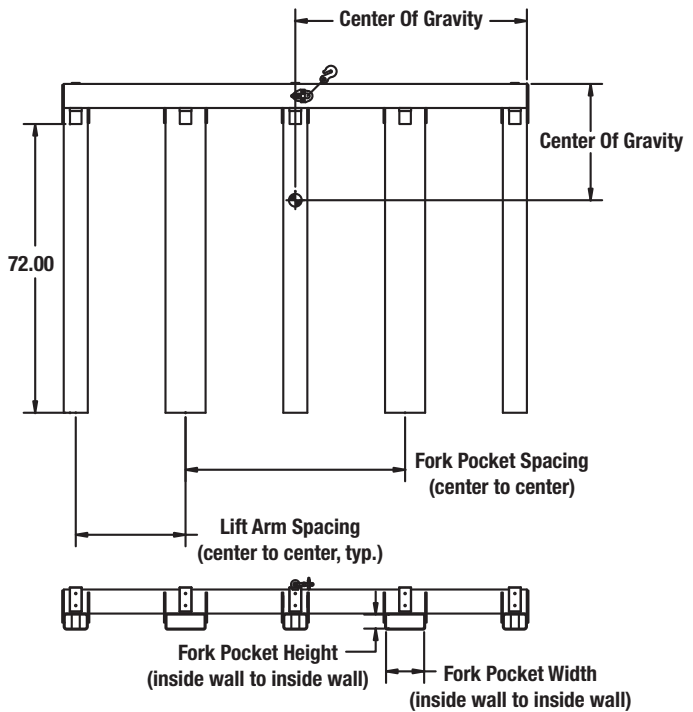
- Lifter can pick up 4, 5, or 6 pipes at a time.*
- Save time and money moving and loading concrete pipe.
- Rubber bumpers help protect pipe from damage.
- Heavy duty design.
- Pockets are open for easy cleaning and water drainage.
- Restraining chain with grab hook standard.
- Complies with OSHA requirements.



NOTE: Dimensions shown in inches.



Shown Loaded



SPECIFICATIONS

Model Number	Pipe Size I.D. (in.)	Lifting Arms		Fork Pockets (in.)		Max. Load Per Fork (lbs.)	Max. Lifter Capacity (lbs.)	Center of Gravity From Bumper (in.)	Unit Weight (lbs.)
		Qty.	Spacing (in.)	Width x Height	Centers				
MFL-12-4	12	4	20	7.5 x 3.5	20	1200	4800	30.50	650
MFL-12-6	12	6	20	9.5 x 3.5	60	1200	7200	31.00	980
MFL-15-5	15	5	24	9.5 x 3.5	48	1500	7500	30.50	860
MFL-18-5	18	5	27	9.5 x 3.5	54	2000	10000	29.00	860
MFL-21-5	21	5	30	9.5 x 3.5	60	2300	11500	29.00	910

NOTE: Pipe lifter is designed for ASTM C76 bell and spigot pipes with A or B wall thickness.

Other sizes are available, please consult factory.

Capacity/load information based off of model's center of gravity from bumper.

* Quantity of lifting arms is the maximum number of pipes that can be handled in a single lift.

WARNING

Capacity of lift truck and attachment combination may be less than capacity shown on attachment. Consult lift truck manufacturer.

Special Applications

Model PP - Porta-Platform



QUICKSHIP PROGRAM

PRODUCT FEATURES:

- Heavy duty 10 gauge diamond plate deck.
- 1,000 pound load capacity.
- 4" toe guards.
- All welded construction.
- 42" side railings.
- Mesh screen 62" or 84" truck side.
- Mast chain included.
- Latch swing gate.
- Painted safety yellow.
- Platform 36" x 36".
- 4 casters standard (2 swivel, 2 rigid).



OPTION A
Tool tray option



OPTION B
Light bulb caddy

SPECIFICATIONS

Model Number	Deck Size (in.) Width x Depth	Height (in.)	Fork Lift Pocket Spacing (in.)	Fork Pockets (in.)	Type Gate	Weight (lbs.)
PP-1	36 x 36	62	16-1/2	2-1/2 x 8	Swing	190
PP-2*	36 x 36	84	16-1/2	2-1/2 x 8	Swing	205

NOTE: Add option(s) to suffix of Model Number. Example: Option A - PP-1A

*Required in California

⚠ WARNING

Capacity of lift truck and attachment combination may be less than capacity shown on attachment. Consult lift truck manufacturer.

Model MPP - Pallet Puller



INSTOCK PROGRAM

PRODUCT FEATURES:

- Used for moving hard to reach loaded pallets from flat surfaces, such as a truck or loading dock.
- Extends reaching capability of the fork lift truck.
- Single scissor action.
- Heavy duty steel design.
- Not for overhead lifting.
- Working load limit 1,250 pounds.
- 3/8" proof coil chain.

SPECIFICATIONS

Model Number	Jaw Opening (in.)		Chain Length (in.)	Weight (lbs.)
	Max.	Min.		
MPP-1	4.00	1.00	24	14

Special Fork Attachment Application Evaluation

Specify the desired model or style attachment: _____

FORK TRUCK INFORMATION:

Fork Dimensions: Width _____ Thickness _____ Length _____

Fork Spacing (measured from the outside edge of the forks): Minimum _____ Maximum _____

Carriage Class (if carriage mount required.): _____

LOAD INFORMATION:

Product to be handled: _____

Maximum: Weight _____ Length _____ Height _____ Width _____

Minimum: Weight _____ Length _____ Height _____ Width _____

Location of pick up / attachment points: _____

Desired location of attachment points (provide drawing or photo if available.): _____

Does the product have: Sharp edges / Corners Protrusions Obstructions

If so, please describe: _____

Other application information: _____

Contact: _____

Company: _____

Address: _____

City, State, Zip: _____

Phone: _____

Fax: _____

Email: _____

For a price quote on your specific application, please complete the above form and fax to The Caldwell Group at **815-229-5686** or you can complete this form online at www.caldwellinc.com/applications.

Care & Use

Lif-Truc™ Fork Lift Truck Attachments have been designed for specific tasks to withstand the particular forces imposed. Guidelines for installation, inspection, maintenance and repair, safe operation and operator training of these attachments follow:

INSTALLATION

Caldwell Fork Lift Truck Attachments shall be assembled and installed in accordance with the manufacturer's instructions, unless other specific arrangements have been approved in writing by manufacturer.

OPERATOR TRAINING

Fork lift attachments shall be operated in accordance with manufacturer's instruction manual, and by personnel who have received instructions described in the "Operating Practices" section of these guidelines.

Training shall also include instruction regarding:

1. Details of the operating cycle.
2. Application of the attachment to the load including (according to the manufacturer's instructions) adjustments to the attachment, if any, to adapt it to various sizes and kinds of loads.
3. Instruction in any special operations or precautions that may be required.
4. Recognition of proper load configuration. For example, preferred operation requires an orderly pattern of stacking.
5. Before assuming responsibility for using the attachment, an operator shall demonstrate his understanding of the lifting procedure to the instructor. The instructor should record notes of operator's demonstrated ability.

INSPECTION

The attachment should be visually inspected by or under the direction of an appointed person on a daily or weekly schedule depending on the nature of the attachment and the severity of the service.

Details to look for include but are not limited to:

1. Structural deformation.
2. Cracks in the structural frame, welds, attachment points, mechanically operating parts, any attached slings, clevises and hooks.
3. Malfunctions during operation of a mechanically operating attachment.
4. Loose covers, fasteners and stops.
5. Faulty operation of automatic hold and release mechanisms.
6. Wear of lifting or attachment points, load supporting clevises, pins, slings, linkages and mechanical parts.
7. Missing nameplates and markings. Contact Caldwell for replacements.

MAINTENANCE AND REPAIRS

1. A preventive maintenance program should be established for each attachment by a qualified person based on recommendations made by its manufacturer.
2. Any repairs shall be done by the manufacturer or with instructions and guidance from the manufacturer. If repairs are performed by someone other than the manufacturer a qualified person should have responsibility for repairs. Dated records and details of repairs and parts replacement should be carefully maintained by a qualified person, and copies kept in your possession.
3. Replacement parts shall be at least equivalent to the original manufacturer's specifications.

OPERATING PRACTICES

DO'S

1. The operator shall receive, read and understand the manufacturer's instruction manual.
2. The operator shall watch carefully that the attachment is performing properly during the lifting procedure.
3. The operator shall know the standard crane hand signals.
4. The operator shall only respond to signals from an appointed person. However, stop signals from anyone shall be obeyed.
5. The operator shall notify a designated person when he considers a load to be unsafe.
6. The operator shall inspect the attachments before using. Any defect found shall be examined by a qualified person to determine if it is a hazard.

DON'TS

1. The operator shall not operate a malfunctioning attachment or one with an "out of service" tag attached.
2. The operator shall not use the attachments for any purpose(s) other than those designated by the manufacturer's instruction manual.
3. The operator shall not use an attachment when the capacity, weight or safety markings are missing or are not legible.
4. No one shall make alterations or modifications to attachments without consulting the manufacturer.
5. No one shall obscure or paint over the manufacturer's capacity, weight, or safety markings.
6. Loads shall not be lifted higher than necessary or be left suspended unattended.
7. The attachment shall not lift a load that is not properly balanced for safe lifting.

HANDLING THE LOAD

1. The attachment shall not be loaded in excess of its rated load.
2. Ensure the load can withstand forces applied by the lifter.
3. The combined weight of the attachment and load shall not exceed the rated load of the fork lift when load center and lost load is considered. (See fork lift manufacturer's information).
4. The attachment shall be applied to the load in accordance with the manufacturer's recommended operating procedure.
5. Attachment chains shall not be kinked, and multiple part lines shall not be twisted about each other.
6. The attachment shall not touch obstructions during load movement.
7. The attachment shall not be loaded with loose material that might fall during movement.
8. The operator or other personnel shall not place themselves or any part of their bodies beneath suspended loads.
9. The load or attachment shall not be slid on the floor or other surface.
10. The attachment shall not be used for loads for which it is not designed.
11. Do not attempt to reposition load when raised.
12. A preliminary lift of a few inches shall be made to establish that the load is stable.
13. All loads shall be accelerated and decelerated smoothly and slowly. This applies to both mast movement and fork lift movement.

Modifications or repairs performed on your lifting equipment without prior written approval from The Caldwell Group, Inc. voids your warranty. Refer to ASME standards for information regarding the liability of repaired or modified lifters.



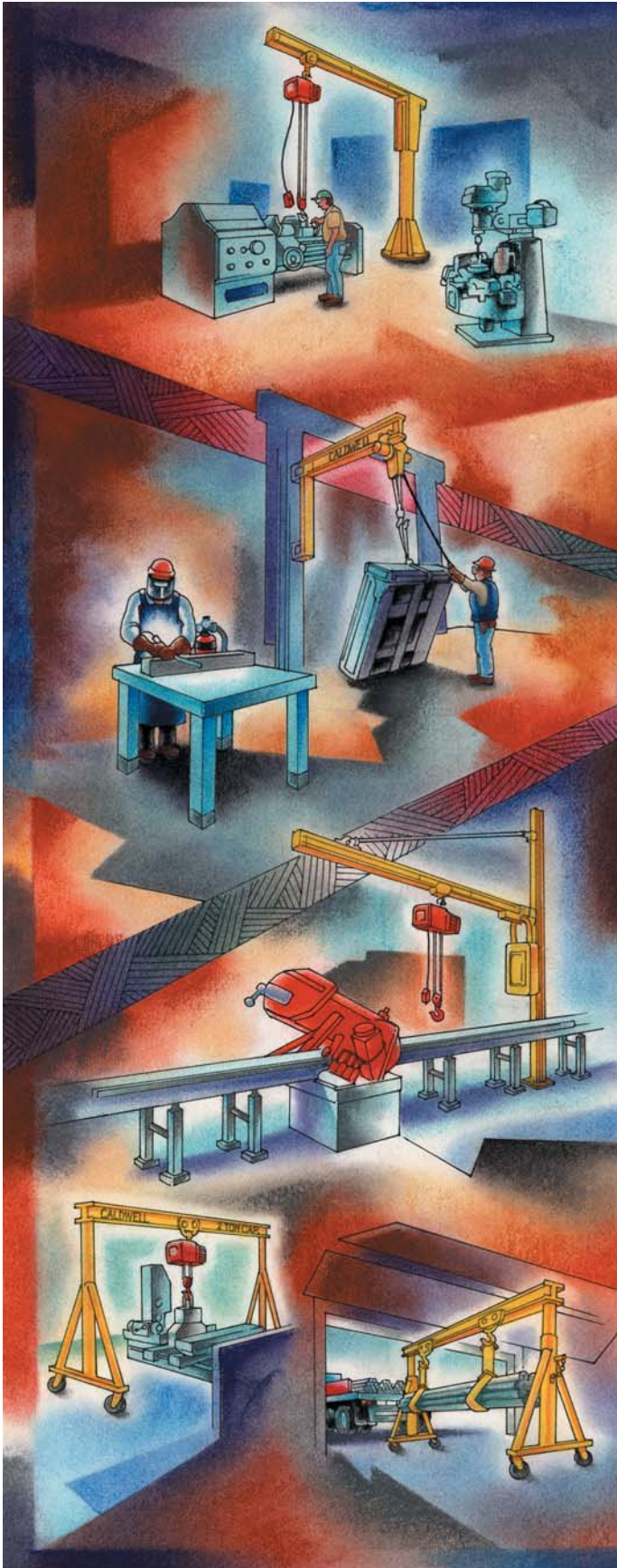
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**Lif-Truc™ Section
2014-2016 Master Catalog**

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KRANE-KING®

Jib & Gantry Cranes



Gantry Cranes

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Free Standing Jibs

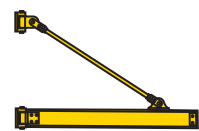
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Tension & Cantilevered Jibs

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Hoists

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Index to Krane-King® Jib & Gantry Cranes



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Krane-King® Section
2014-2016 Master Catalog

Quality & Engineering.....H.3

Gantry Cranes - Easily moves to where you need to pick up, transport or rotate a load. Roll it inside or out. Can be utilized where a smooth and level floor is available.

Gantry Cranes



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Fixed Height Gantry.....	H.4 - H.7
Adjustable Height Gantry.....	H.8 - H.14
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Aluminum Fixed & Adjustable Gantries.....	H.16 - H.17

Free Standing Jib Cranes - Used where overhead cranes are not practical or feasible. Gives full 360° floor coverage around the pillar allowing unrestricted placement of machinery and equipment.

Free Standing Jib Cranes

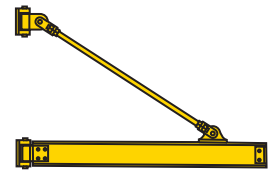


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Tension & Cantilevered Jibs - Mast Type Jibs are braced between the ceiling & floor. Column/Wall Mounted Jib Cranes are installed up out of the way on building columns. Jib placement can be at any elevation required and yields 180° floor coverage.

Tension & Cantilevered Jibs



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Mast Type.....	H.31
Column Tension Braced.....	H.32 - H.33
Column Full Cantilevered.....	H.34 - H.35

Hoists - Heavy duty packages are available to fit all standard jib and gantry Cranes in manual or electric operation. Other types and sizes of electric or air hoists are available in a variety of capacities, speeds, and control options. Flange clamps can be used for hoist attachment.

Hoists



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QUALITY & ENGINEERING
GANTRY CRANES
FREE STANDING JIBS
TENSION & CANTILEVERED JIBS
HOISTS
CARE & USE

Quality & Engineering

The Caldwell Group has been designing and manufacturing lifting equipment since 1954. It is our goal to manufacture high quality, long lasting lifting products that will safely increase productivity and reduce operating costs.

All Krane-King® Cranes are designed to be used with hoists and trolleys. Rated capacity includes a design load which takes into account the weight of the hoist and trolley and an impact loading. These cranes can be categorized into 3 types:

1. **Portable Gantry Crane** - moves on any level floor and yields versatile, “goes anywhere” floor coverage.
2. **Free Standing Jib Crane** - mounts to a floor or poured foundation and yields 360° circular floor coverage.
3. **Column Mounted Jib Crane** - mounts to building columns and yields 180° floor coverage.

Krane-King® Cranes adhere to the highest quality standards and conform to the appropriate AISC and CMAA standards.

Please refer to current OSHA specification 1910.179 for inspection, testing and maintenance for Caldwell Krane-King® Equipment.

All Krane-King® Cranes Have:

- Identification nameplate.
- Rated capacities and product safety labels.

Benefits Your Company Will Receive With A Caldwell Crane:

- Heavy duty, minimum deflection design.
- Simple, easy installation procedure.
- Foundation and column load information provided.
- Increased productivity.
- Low costs maintenance.
- Increased safety of an engineered product.
- Reliability and durability for long lasting service.

Caldwell Delivery Programs

The Caldwell Group offers two quick delivery programs, INSTOCK and QUICKSHIP.



Look for the **green INSTOCK** logo on our standard products. The specific **INSTOCK** model number is shown in **green**. **INSTOCK** products ship in 48 hours.*

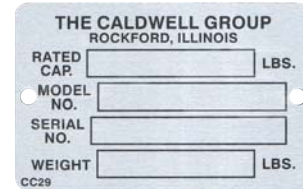


Look for the **red QUICKSHIP** logo on our standard products. The specific **QUICKSHIP** model number is shown in **red**. **QUICKSHIP** products ship in 7 to 10 days.*

* Excluding weekends and holidays.

DISCLAIMER:

All product designs are subject to change without notice. Products pictured in this catalog are a representation of a specific design. The product you purchase will be designed for your specific application and may not look exactly like the picture in this catalog.



I.D. Nameplate



Product Safety Labels

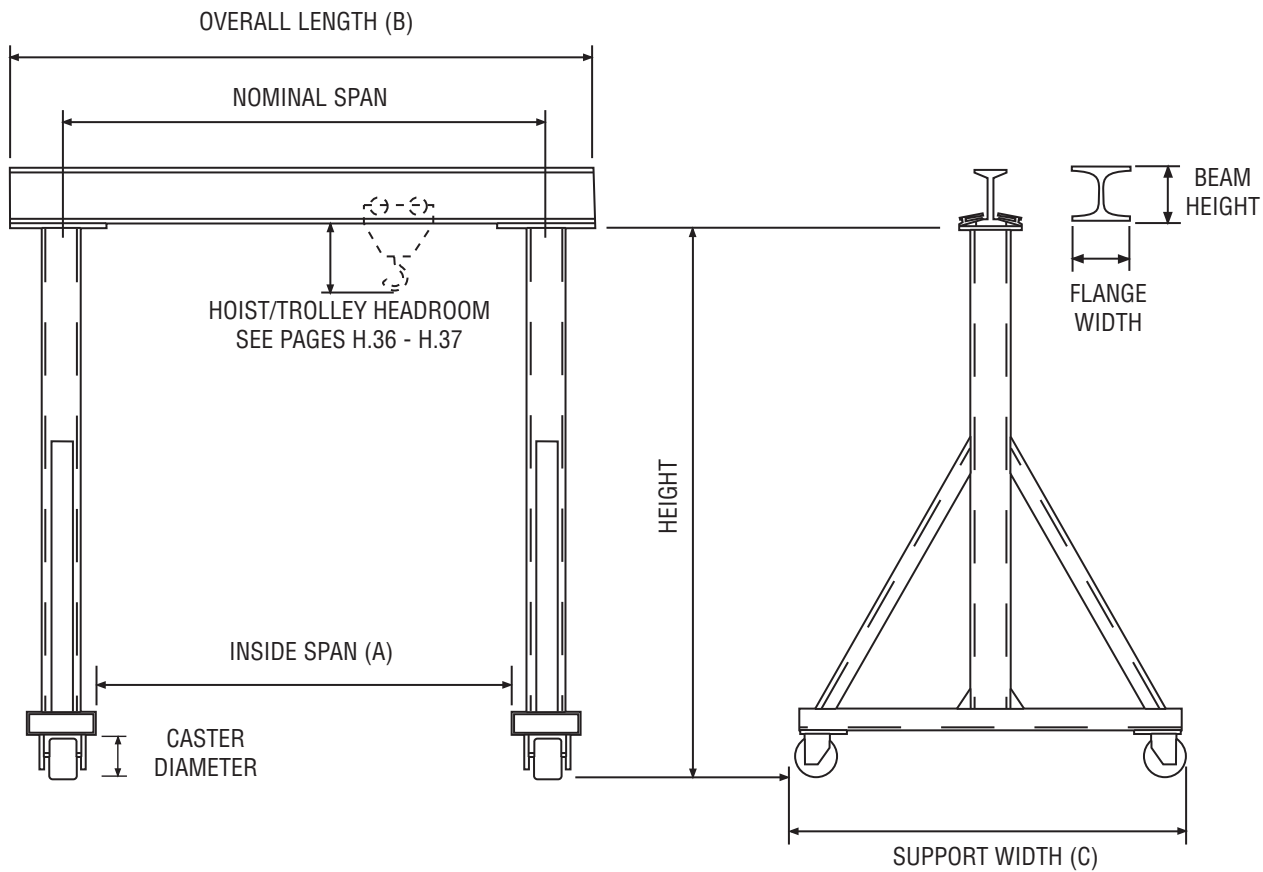
Gantry Cranes

Model H90 - Fixed Height Gantry



PRODUCT FEATURES:

- Adjustable span standard on 10'-16' spans through 5 ton.
- Bolted connections on spans of 20'-24' and all 8 ton units.
- Heavy duty supported leg design.
- Balanced design allows for easy rolling, even under load.
- Conforms to AISC, OSHA, and CMAA specifications.
- Simple bolt together construction.
- Easy setup and maintenance.
- 4 - steel swivel casters standard.
- Assembly instructions provided.
- For our optional gantry crane features, please see page H.15.



Gantry Cranes

SPECIFICATIONS			Nominal Span (ft.)					
			Clamp Connection				Bolt Connection	
1 Ton Capacity*			10	12	14	16	20	24
Height Under Beam (ft.)	10	Model Number	H90-1-10/10	H90-1-10/12	H90-1-10/14	H90-1-10/16	H90-1-10/20	H90-1-10/24
		Inside Span (A)	10'-4"	12'-4"	14'-4"	16'-4"	18'-6"	22'-6"
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-6"	25'-6"
		Weight (lbs.)	825	930	967	1136	1424	1794
		Support Width (C)	5'-6"					
	12	Model Number	H90-1-12/10	H90-1-12/12	H90-1-12/14	H90-1-12/16	H90-1-12/20	H90-1-12/24
		Inside Span (A)	10'-4"	12'-4"	14'-4"	16'-4"	18'-6"	22'-6"
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-6"	25'-6"
		Weight (lbs.)	913	1018	1055	1224	1546	1916
		Support Width (C)	6'-6"					
	14	Model Number	H90-1-14/10	H90-1-14/12	H90-1-14/14	H90-1-14/16	H90-1-14/20	H90-1-14/24
		Inside Span (A)	10'-4"	12'-4"	14'-4"	16'-4"	18'-6"	22'-6"
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-6"	25'-6"
		Weight (lbs.)	977	1082	1119	1288	1667	2037
		Support Width (C)	7'-6"					
	16	Model Number	H90-1-16/10	H90-1-16/12	H90-1-16/14	H90-1-16/16	H90-1-16/20	H90-1-16/24
Inside Span (A)		10'-4"	12'-4"	14'-4"	16'-4"	18'-6"	22'-6"	
Overall Length (B)		11'-6"	13'-6"	15'-6"	17'-6"	21'-6"	25'-6"	
Weight (lbs.)		1081	1186	1223	1392	1790	2160	
Support Width (C)		7'-6"						
Beam Height (in.)			6	8	10	12		
Flange Width (in.)			3.33	4	4.66	5.25		
Caster Diameter (in.)			6					

SPECIFICATIONS			Nominal Span (ft.)					
			Clamp Connection				Bolt Connection	
2 Ton Capacity*			10	12	14	16	20	24
Height Under Beam (ft.)	10	Model Number	H90-2-10/10	H90-2-10/12	H90-2-10/14	H90-2-10/16	H90-2-10/20	H90-2-10/24
		Inside Span (A)	10'-4"	12'-4"	14'-4"	16'-4"	18'-6"	22'-6"
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-6"	25'-6"
		Weight (lbs.)	949	986	1131	1182	1577	2016
		Support Width (C)	5'-6"					
	12	Model Number	H90-2-12/10	H90-2-12/12	H90-2-12/14	H90-2-12/16	H90-2-12/20	H90-2-12/24
		Inside Span (A)	10'-4"	12'-4"	14'-4"	16'-4"	18'-6"	22'-6"
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-6"	25'-6"
		Weight (lbs.)	1041	1078	1223	1274	1699	2138
		Support Width (C)	6'-6"					
	14	Model Number	H90-2-14/10	H90-2-14/12	H90-2-14/14	H90-2-14/16	H90-2-14/20	H90-2-14/24
		Inside Span (A)	10'-4"	12'-4"	14'-4"	16'-4"	18'-6"	22'-6"
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-6"	25'-6"
		Weight (lbs.)	1101	1138	1283	1334	1820	2259
		Support Width (C)	7'-6"					
	16	Model Number	H90-2-16/10	H90-2-16/12	H90-2-16/14	H90-2-16/16	H90-2-16/20	H90-2-16/24
Inside Span (A)		10'-4"	12'-4"	14'-4"	16'-4"	18'-6"	22'-6"	
Overall Length (B)		11'-6"	13'-6"	15'-6"	17'-6"	21'-6"	25'-6"	
Weight (lbs.)		1205	1242	1387	1438	1943	2382	
Support Width (C)		7'-6"						
Beam Height (in.)			8	10	12	15		
Flange Width (in.)			4	4.66	5	5.5		
Caster Diameter (in.)			8					

* Total weight of hoist and trolley not to exceed 20% of rated capacity.

Gantry Cranes

SPECIFICATIONS			Nominal Span (ft.)					
			Clamp Connection				Bolt Connection	
3 Ton Capacity*			10	12	14	16	20	24
Height Under Beam (ft.)	10	Model Number	H90-3-10/10	H90-3-10/12	H90-3-10/14	H90-3-10/16	H90-3-10/20	H90-3-10/24
		Inside Span (A)	9'-3"	11'-3"	13'-3"	15'-3"	18'-6"	22'-6"
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-6"	25'-6"
		Weight (lbs.)	1107	1157	1208	1427	1654	2016
		Support Width (C)	5'-6"					
	12	Model Number	H90-3-12/10	H90-3-12/12	H90-3-12/14	H90-3-12/16	H90-3-12/20	H90-3-12/24
		Inside Span (A)	9'-3"	11'-3"	13'-3"	15'-3"	18'-6"	22'-6"
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-6"	25'-6"
		Weight (lbs.)	1229	1279	1330	1529	1776	2138
		Support Width (C)	6'-6"					
	14	Model Number	H90-3-14/10	H90-3-14/12	H90-3-14/14	H90-3-14/16	H90-3-14/20	H90-3-14/24
		Inside Span (A)	9'-3"	11'-3"	13'-3"	15'-3"	18'-6"	22'-6"
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-6"	25'-6"
		Weight (lbs.)	1350	1400	1451	1670	1897	2259
		Support Width (C)	7'-6"					
	16	Model Number	H90-3-16/10	H90-3-16/12	H90-3-16/14	H90-3-16/16	H90-3-16/20	H90-3-16/24
Inside Span (A)		9'-3"	11'-3"	13'-3"	15'-3"	18'-6"	22'-6"	
Overall Length (B)		11'-6"	13'-6"	15'-6"	17'-6"	21'-6"	25'-6"	
Weight (lbs.)		1473	1523	1574	1793	2020	2382	
Support Width (C)		7'-6"						
Beam Height (in.)			10		12		15	18
Flange Width (in.)			4.66		5		5.5	6
Caster Diameter (in.)			8					

SPECIFICATIONS			Nominal Span (ft.)					
			Clamp Connection				Bolt Connection	
4 Ton Capacity*			10	12	14	16	20	24
Height Under Beam (ft.)	10	Model Number	H90-4-10/10	H90-4-10/12	H90-4-10/14	H90-4-10/16	H90-4-10/20	H90-4-10/24
		Inside Span (A)	9'-3"	11'-3"	13'-3"	15'-3"	18'-6"	22'-6"
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-6"	25'-6"
		Weight (lbs.)	1217	1287	1357	1812	1954	2410
		Support Width (C)	5'-6"					
	12	Model Number	H90-4-12/10	H90-4-12/12	H90-4-12/14	H90-4-12/16	H90-4-12/20	H90-4-12/24
		Inside Span (A)	9'-3"	11'-3"	13'-3"	15'-3"	18'-6"	22'-6"
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-6"	25'-6"
		Weight (lbs.)	1339	1409	1479	1934	2076	2532
		Support Width (C)	6'-6"					
	14	Model Number	H90-4-14/10	H90-4-14/12	H90-4-14/14	H90-4-14/16	H90-4-14/20	H90-4-14/24
		Inside Span (A)	9'-3"	11'-3"	13'-3"	15'-3"	18'-6"	22'-6"
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-6"	25'-6"
		Weight (lbs.)	1460	1530	1600	2055	2197	2653
		Support Width (C)	7'-6"					
	16	Model Number	H90-4-16/10	H90-4-16/12	H90-4-16/14	H90-4-16/16	H90-4-16/20	H90-4-16/24
Inside Span (A)		9'-3"	11'-3"	13'-3"	15'-3"	18'-6"	22'-6"	
Overall Length (B)		11'-6"	13'-6"	15'-6"	17'-6"	21'-6"	25'-6"	
Weight (lbs.)		1583	1653	1723	2178	2320	2776	
Support Width (C)		7'-6"						
Beam Height (in.)			10	12		15		18
Flange Width (in.)			4.66	5		5.5		6.0
Caster Diameter (in.)			8					

* Total weight of hoist and trolley not to exceed 20% of rated capacity.

Gantry Cranes

SPECIFICATIONS			Nominal Span (ft.)					
5 Ton Capacity*			Clamp Connection				Bolt Connection	
			10	12	14	16	20	24
Height Under Beam (ft.)	10	Model Number	H90-5-10/10	H90-5-10/12	H90-5-10/14	H90-5-10/16	H90-5-10/20	H90-5-10/24
		Inside Span (A)	9'-3"	11'-3"	13'-3"	15'-3"	18'-6"	22'-6"
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-6"	25'-6"
		Weight (lbs.)	1397	1467	1537	1992	2607	3063
		Support Width (C)	5'-6"					
	12	Model Number	H90-5-12/10	H90-5-12/12	H90-5-12/14	H90-5-12/16	H90-5-12/20	H90-5-12/24
		Inside Span (A)	9'-3"	11'-3"	13'-3"	15'-3"	18'-6"	22'-6"
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-6"	25'-6"
		Weight (lbs.)	1519	1589	1659	2114	2803	3259
		Support Width (C)	6'-6"					
	14	Model Number	H90-5-14/10	H90-5-14/12	H90-5-14/14	H90-5-14/16	H90-5-14/20	H90-5-14/24
		Inside Span (A)	9'-3"	11'-3"	13'-3"	15'-3"	18'-6"	22'-6"
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-6"	25'-6"
		Weight (lbs.)	1640	1710	1780	2235	2997	3463
		Support Width (C)	7'-6"					
	16	Model Number	H90-5-16/10	H90-5-16/12	H90-5-16/14	H90-5-16/16	H90-5-16/20	H90-5-16/24
Inside Span (A)		9'-3"	11'-3"	13'-3"	15'-3"	18'-6"	22'-6"	
Overall Length (B)		11'-6"	13'-6"	15'-6"	17'-6"	21'-6"	25'-6"	
Weight (lbs.)		1763	1833	1903	2358	3192	3648	
Support Width (C)		7'-6"						
Beam Height (in.)		12			15		18	
Flange Width (in.)		5			5.5		6.0	
Caster Diameter (in.)		8						

SPECIFICATIONS			Nominal Span (ft.)					
8 Ton Capacity*			Bolt Connection					
			10	12	14	16	20	24
Height Under Beam (ft.)	10	Model Number	H90-8-10/10	H90-8-10/12	H90-8-10/14	H90-8-10/16	H90-8-10/20	H90-8-10/24
		Inside Span (A)	8'-6"	10'-6"	12'-6"	14'-6"	18'-6"	22'-6"
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-6"	25'-6"
		Weight (lbs.)	2019	2115	2211	2395	2835	3287
		Support Width (C)	5'-6"					
	12	Model Number	H90-8-12/10	H90-8-12/12	H90-8-12/14	H90-8-12/16	H90-8-12/20	H90-8-12/24
		Inside Span (A)	8'-6"	10'-6"	12'-6"	14'-6"	18'-6"	22'-6"
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-6"	25'-6"
		Weight (lbs.)	2215	2311	2407	2591	3036	3483
		Support Width (C)	6'-6"					
	14	Model Number	H90-8-14/10	H90-8-14/12	H90-8-14/14	H90-8-14/16	H90-8-14/20	H90-8-14/24
		Inside Span (A)	8'-6"	10'-6"	12'-6"	14'-6"	18'-6"	22'-6"
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-6"	25'-6"
		Weight (lbs.)	2409	2505	2601	2785	3225	3677
		Support Width (C)	7'-6"					
	16	Model Number	H90-8-16/10	H90-8-16/12	H90-8-16/14	H90-8-16/16	H90-8-16/20	H90-8-16/24
Inside Span (A)		8'-6"	10'-6"	12'-6"	14'-6"	18'-6"	22'-6"	
Overall Length (B)		11'-6"	13'-6"	15'-6"	17'-6"	21'-6"	25'-6"	
Weight (lbs.)		2604	2700	2796	2980	3420	3872	
Support Width (C)		7'-6"						
Beam Height (in.)		18			16.43-W		18.35-W	
Flange Width (in.)		6.0			7.12		7.59	
Caster Diameter (in.)		12						

* Total weight of hoist and trolley not to exceed 20% of rated capacity.

Gantry Cranes

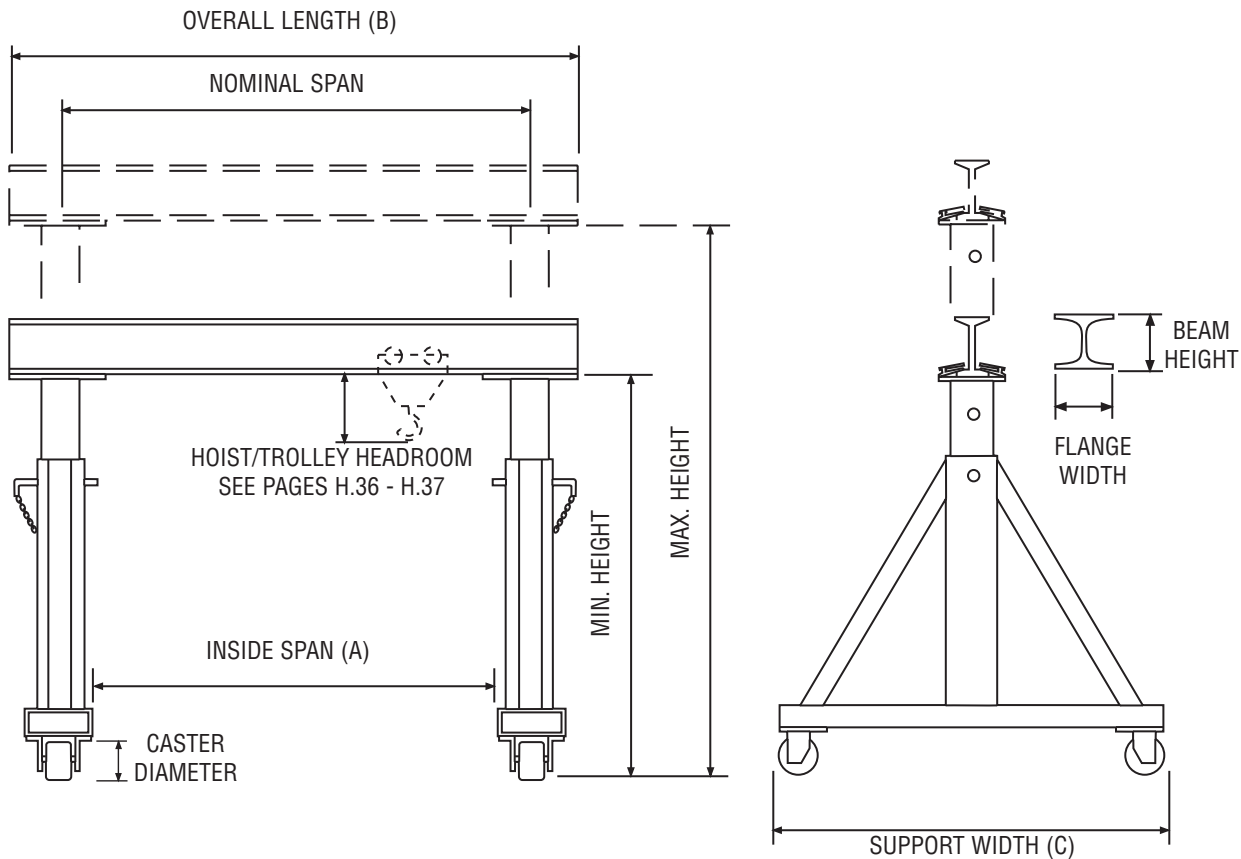
Model K90 - Adjustable Height & Span Gantry



PRODUCT FEATURES:

- Adjustable span standard on 10'-16' spans through 5 ton.
- Bolted connections on spans of 20'-24' and all 8 ton units.
- Heavy duty supported leg design.
- Balanced designed allows for easy maneuvering, even under load.
- Conforms to AISC, OSHA and CMAA specifications.
- Simple bolted construction.
- Easy set up and maintenance.
- 4-steel swivel casters standard.
- Height & span adjustability.
- Height adjustable down from maximum in 12" increments.
- For our optional gantry crane features, please see page H.15.

**QUICKSHIP
PROGRAM**



Gantry Cranes

Model K90-1 - 1 Ton Capacity

**QUICKSHIP
PROGRAM**

SPECIFICATIONS		Nominal Span (ft.)							
		Clamp Connection				Bolt Connection			
1 Ton Capacity*		10	12	14	16	20	24		
Maximum Height Under Beam (ft.)	7	Model Number	K90-1-7/10	K90-1-7/12	K90-1-7/14	K90-1-7/16	K90-1-7/20	K90-1-7/24	
		Inside Span (A)	10'-5"	12'-5"	14'-5"	16'-5"	19'-7"	23'-7"	
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-3"	25'-3"	
		Weight (lbs.)	550	650	675	850	1000	1500	
		Minimum Height	5'-0"						
		Support Width (C)	4'-0"						
	9	Model Number	K90-1-9/10	K90-1-9/12	K90-1-9/14	K90-1-9/16	K90-1-9/20	K90-1-9/24	
		Inside Span (A)	10'-5"	12'-5"	14'-5"	16'-5"	19'-7"	23'-7"	
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-3"	25'-3"	
		Weight (lbs.)	625	725	750	925	1075	1575	
		Minimum Height	6'-0"						
		Support Width (C)	5'-0"						
	10	Model Number	K90-1-10/10	K90-1-10/12	K90-1-10/14	K90-1-10/16	K90-1-10/20	K90-1-10/24	
		Inside Span (A)	10'-5"	12'-5"	14'-5"	16'-5"	19'-7"	23'-7"	
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-3"	25'-3"	
		Weight (lbs.)	650	750	800	950	1100	1600	
		Minimum Height	7'-0"						
		Support Width (C)	5'-6"						
	12	Model Number	K90-1-12/10	K90-1-12/12	K90-1-12/14	K90-1-12/16	K90-1-12/20	K90-1-12/24	
		Inside Span (A)	10'-5"	12'-5"	14'-5"	16'-5"	19'-7"	23'-7"	
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-3"	25'-3"	
		Weight (lbs.)	750	850	900	1050	1200	1700	
		Minimum Height	8'-0"						
		Support Width (C)	6'-6"						
14	Model Number	K90-1-14/10	K90-1-14/12	K90-1-14/14	K90-1-14/16	K90-1-14/20	K90-1-14/24		
	Inside Span (A)	10'-5"	12'-5"	14'-5"	16'-5"	19'-7"	23'-7"		
	Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-3"	25'-3"		
	Weight (lbs.)	800	900	950	1100	1275	1750		
	Minimum Height	9'-0"							
	Support Width (C)	7'-6"							
16	Model Number	K90-1-16/10	K90-1-16/12	K90-1-16/14	K90-1-16/16	K90-1-16/20	K90-1-16/24		
	Inside Span (A)	10'-5"	12'-5"	14'-5"	16'-5"	19'-7"	23'-7"		
	Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-3"	25'-3"		
	Weight (lbs.)	850	950	1000	1150	1325	1800		
	Minimum Height	10'-0"							
	Support Width (C)	7'-6"							
Beam Height (in.)		6		8		10		12	
Flange Width (in.)		3.33		4		4.7		5.30	
Caster Diameter (in.)		6							

* Total weight of hoist and trolley not to exceed 20% of rated capacity.



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2014-2016 Master Catalog

Krane-King® Section

Gantry Cranes

Model K90-2 - 2 Ton Capacity

**QUICKSHIP
PROGRAM**

SPECIFICATIONS		Nominal Span (ft.)							
		Clamp Connection				Bolt Connection			
		10	12	14	16	20	24		
Maximum Height Under Beam (ft.)	2 Ton Capacity*	7	Model Number	K90-2-7/10	K90-2-7/12	K90-2-7/14	K90-2-7/16	K90-2-7/20	K90-2-7/24
			Inside Span (A)	10'-5"	12'-5"	14'-5"	16'-5"	19'-7"	23'-7"
			Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-3"	25'-3"
			Weight (lbs.)	675	700	850	900	1400	1600
			Minimum Height	5'-2"			5'-3"		
			Support Width (C)	4'-0"					
	9	Model Number	K90-2-9/10	K90-2-9/12	K90-2-9/14	K90-2-9/16	K90-2-9/20	K90-2-9/24	
		Inside Span (A)	10'-5"	12'-5"	14'-5"	16'-5"	19'-7"	23'-7"	
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-3"	25'-3"	
		Weight (lbs.)	750	800	925	975	1475	1675	
		Minimum Height	6'-2"			6'-3"			
		Support Width (C)	5'-0"						
	10	Model Number	K90-2-10/10	K90-2-10/12	K90-2-10/14	K90-2-10/16	K90-2-10/20	K90-2-10/24	
		Inside Span (A)	10'-5"	12'-5"	14'-5"	16'-5"	19'-7"	23'-7"	
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-3"	25'-3"	
		Weight (lbs.)	775	825	975	1025	1500	1700	
		Minimum Height	7'-2"			7'-3"			
		Support Width (C)	5'-6"						
	12	Model Number	K90-2-12/10	K90-2-12/12	K90-2-12/14	K90-2-12/16	K90-2-12/20	K90-2-12/24	
		Inside Span (A)	10'-5"	12'-5"	14'-5"	16'-5"	19'-7"	23'-7"	
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-3"	25'-3"	
		Weight (lbs.)	875	900	1050	1100	1600	1800	
		Minimum Height	8'-2"			8'-3"			
		Support Width (C)	6'-6"						
	14	Model Number	K90-2-14/10	K90-2-14/12	K90-2-14/14	K90-2-14/16	K90-2-14/20	K90-2-14/24	
		Inside Span (A)	10'-5"	12'-5"	14'-5"	16'-5"	19'-7"	23'-7"	
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-3"	25'-3"	
		Weight (lbs.)	950	975	1125	1175	1650	1875	
Minimum Height		9'-2"			9'-3"				
Support Width (C)		7'-6"							
16	Model Number	K90-2-16/10	K90-2-16/12	K90-2-16/14	K90-2-16/16	K90-2-16/20	K90-2-16/24		
	Inside Span (A)	10'-5"	12'-5"	14'-5"	16'-5"	19'-7"	23'-7"		
	Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-3"	25'-2"		
	Weight (lbs.)	1000	1025	1175	1225	1700	1925		
	Minimum Height	10'-2"			10'-3"				
	Support Width (C)	7'-6"							
Beam Height (in.)	8			10			12	15	
Flange Width (in.)	4			4.7			5	5.5	
Caster Diameter (in.)	8								

* Total weight of hoist and trolley not to exceed 20% of rated capacity.



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Gantry Cranes

Model K90-3 - 3 Ton Capacity

**QUICKSHIP
PROGRAM**

SPECIFICATIONS		Nominal Span (ft.)						
		Clamp Connection				Bolt Connection		
3 Ton Capacity*		10	12	14	16	20	24	
Maximum Height Under Beam (ft.)	7	Model Number	K90-3-7/10	K90-3-7/12	K90-3-7/14	K90-3-7/16	K90-3-7/20	K90-3-7/24
		Inside Span (A)	9'-5"	11'-5"	13'-5"	15'-5"	19'-5"	23'-5"
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-3"	25'-3"
		Weight (lbs.)	1000	1050	1100	1250	1675	2125
		Minimum Height	5'-0"					
		Support Width (C)	4'-0"					
	9	Model Number	K90-3-9/10	K90-3-9/12	K90-3-9/14	K90-3-9/16	K90-3-9/20	K90-3-9/24
		Inside Span (A)	9'-5"	11'-5"	13'-5"	15'-5"	19'-5"	23'-5"
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-3"	25'-3"
		Weight (lbs.)	1100	1175	1225	1375	1750	2250
		Minimum Height	6'-0"					
		Support Width (C)	5'-0"					
	10	Model Number	K90-3-10/10	K90-3-10/12	K90-3-10/14	K90-3-10/16	K90-3-10/20	K90-3-10/24
		Inside Span (A)	9'-5"	11'-5"	13'-5"	15'-5"	19'-5"	23'-5"
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-3"	25'-3"
		Weight (lbs.)	1175	1200	1275	1425	1800	2300
		Minimum Height	7'-0"					
		Support Width (C)	5'-6"					
12	Model Number	K90-3-12/10	K90-3-12/12	K90-3-12/14	K90-3-12/16	K90-3-12/20	K90-3-12/24	
	Inside Span (A)	9'-5"	11'-5"	13'-5"	15'-5"	19'-5"	23'-5"	
	Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-3"	25'-3"	
	Weight (lbs.)	1300	1375	1400	1575	1975	2450	
	Minimum Height	8'-0"						
	Support Width (C)	6'-6"						
14	Model Number	K90-3-14/10	K90-3-14/12	K90-3-14/14	K90-3-14/16	K90-3-14/20	K90-3-14/24	
	Inside Span (A)	9'-5"	11'-5"	13'-5"	15'-5"	19'-5"	23'-5"	
	Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-3"	25'-3"	
	Weight (lbs.)	1400	1475	1525	1675	2075	2550	
	Minimum Height	9'-0"						
	Support Width (C)	7'-6"						
16	Model Number	K90-3-16/10	K90-3-16/12	K90-3-16/14	K90-3-16/16	K90-3-16/20	K90-3-16/24	
	Inside Span (A)	9'-5"	11'-5"	13'-5"	15'-5"	19'-5"	23'-5"	
	Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-3"	25'-3"	
	Weight (lbs.)	1500	1550	1600	1750	2150	2625	
	Minimum Height	10'-0"						
	Support Width (C)	7'-6"						
Beam Height (in.)		10			12	15	18	
Flange Width (in.)		4.7			5	5.5	6	
Caster Diameter (in.)		8						

* Total weight of hoist and trolley not to exceed 20% of rated capacity.

Gantry Cranes

Model K90-4 - 4 Ton Capacity

**QUICKSHIP
PROGRAM**

SPECIFICATIONS		Nominal Span (ft.)						
		Clamp Connection				Bolt Connection		
4 Ton Capacity*		10	12	14	16	20	24	
Maximum Height Under Beam (ft.)	7	Model Number	K90-4-7/10	K90-4-7/12	K90-4-7/14	K90-4-7/16	K90-4-7/20	K90-4-7/24
		Inside Span (A)	9'-5"	11'-5"	13'-5"	15'-5"	19'-5"	23'-5"
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-3"	25'-3"
		Weight (lbs.)	975	1125	1200	1450	1625	2125
		Minimum Height	5'-0"					
		Support Width (C)	4'-0"					
	9	Model Number	K90-4-9/10	K90-4-9/12	K90-4-9/14	K90-4-9/16	K90-4-9/20	K90-4-9/24
		Inside Span (A)	9'-5"	11'-5"	13'-5"	15'-5"	19'-5"	23'-5"
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-3"	25'-3"
		Weight (lbs.)	1125	1250	1325	1575	1750	2250
		Minimum Height	6'-0"					
		Support Width (C)	5'-0"					
	10	Model Number	K90-4-10/10	K90-4-10/12	K90-4-10/14	K90-4-10/16	K90-4-10/20	K90-4-10/24
		Inside Span (A)	9'-5"	11'-5"	13'-5"	15'-5"	19'-5"	23'-5"
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-3"	25'-3"
		Weight (lbs.)	1175	1300	1375	1625	1800	2300
		Minimum Height	7'-0"					
		Support Width (C)	5'-6"					
12	Model Number	K90-4-12/10	K90-4-12/12	K90-4-12/14	K90-4-12/16	K90-4-12/20	K90-4-12/24	
	Inside Span (A)	9'-5"	11'-5"	13'-5"	15'-5"	19'-5"	23'-5"	
	Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-3"	25'-3"	
	Weight (lbs.)	1325	1450	1525	1775	1975	2450	
	Minimum Height	8'-0"						
	Support Width (C)	6'-6"						
14	Model Number	K90-4-14/10	K90-4-14/12	K90-4-14/14	K90-4-14/16	K90-4-14/20	K90-4-14/24	
	Inside Span (A)	9'-5"	11'-5"	13'-5"	15'-5"	19'-5"	23'-5"	
	Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-3"	25'-3"	
	Weight (lbs.)	1425	1550	1625	1875	2075	2550	
	Minimum Height	9'-0"						
	Support Width (C)	7'-6"						
16	Model Number	K90-4-16/10	K90-4-16/12	K90-4-16/14	K90-4-16/16	K90-4-16/20	K90-4-16/24	
	Inside Span (A)	9'-5"	11'-5"	13'-5"	15'-5"	19'-5"	23'-5"	
	Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-3"	25'-3"	
	Weight (lbs.)	1500	1625	1700	1975	2150	2625	
	Minimum Height	10'-0"						
	Support Width (C)	7'-6"						
Beam Height (in.)		10	12		15		18	
Flange Width (in.)		4.7	5		5.5		6	
Caster Diameter (in.)		8						

* Total weight of hoist and trolley not to exceed 20% of rated capacity.



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Gantry Cranes

Model K90-5 - 5 Ton Capacity

**QUICKSHIP
PROGRAM**

SPECIFICATIONS		Nominal Span (ft.)						
		Clamp Connection				Bolt Connection		
		10	12	14	16	20	24	
Maximum Height Under Beam (ft.)	5 Ton Capacity*							
	7	Model Number	K90-5-7/10	K90-5-7/12	K90-5-7/14	K90-5-7/16	K90-5-7/20	K90-5-7/24
		Inside Span (A)	9'-5"	11'-5"	13'-5"	15'-5"	19'-5"	23'-5"
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-3"	25'-3"
		Weight (lbs.)	1175	1225	1475	1550	1700	2175
		Minimum Height	5'-1"			5'-2"		
		Support Width (C)	4'-0"					
	9	Model Number	K90-5-9/10	K90-5-9/12	K90-5-9/14	K90-5-9/16	K90-5-9/20	K90-5-9/24
		Inside Span (A)	9'-5"	11'-5"	13'-5"	15'-5"	19'-5"	23'-5"
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-3"	25'-3"
		Weight (lbs.)	1325	1375	1625	1700	1850	2300
		Minimum Height	6'-1"			6'-2"		
		Support Width (C)	5'-0"					
	10	Model Number	K90-5-10/10	K90-5-10/12	K90-5-10/14	K90-5-10/16	K90-5-10/20	K90-5-10/24
		Inside Span (A)	9'-5"	11'-5"	13'-5"	15'-5"	19'-5"	23'-5"
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-3"	25'-3"
		Weight (lbs.)	1375	1425	1675	1750	1900	2375
		Minimum Height	7'-1"			7'-2"		
		Support Width (C)	5'-6"					
	12	Model Number	K90-5-12/10	K90-5-12/12	K90-5-12/14	K90-5-12/16	K90-5-12/20	K90-5-12/24
		Inside Span (A)	9'-5"	11'-5"	13'-5"	15'-5"	19'-5"	23'-5"
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-3"	25'-3"
		Weight (lbs.)	1550	1600	1825	1925	2075	2525
		Minimum Height	8'-1"			8'-2"		
		Support Width (C)	6'-6"					
	14	Model Number	K90-5-14/10	K90-5-14/12	K90-5-14/14	K90-5-14/16	K90-5-14/20	K90-5-14/24
		Inside Span (A)	9'-5"	11'-5"	13'-5"	15'-5"	19'-5"	23'-5"
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-3"	25'-3"
Weight (lbs.)		1650	1725	1950	2050	2175	2650	
Minimum Height		9'-1"			9'-2"			
Support Width (C)		7'-6"						
16	Model Number	K90-5-16/10	K90-5-16/12	K90-5-16/14	K90-5-16/16	K90-5-16/20	K90-5-16/24	
	Inside Span (A)	9'-5"	11'-5"	13'-5"	15'-5"	19'-5"	23'-5"	
	Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-3"	25'-3"	
	Weight (lbs.)	1725	1800	2025	2125	2275	2725	
	Minimum Height	10'-1"			10'-2"			
	Support Width (C)	7'-6"						
Beam Height (in.)		12	12	15	15	15	18	
Flange Width (in.)		5	5	5.5	5.5	5.5	6	
Caster Diameter (in.)		8						

* Total weight of hoist and trolley not to exceed 20% of rated capacity.



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Model K90-8 - 8 Ton Capacity

SPECIFICATIONS			Nominal Span (ft.)					
			Bolt Connection					
8 Ton Capacity*			10	12	14	16	20	24
Maximum Height Under Beam (ft.)	7	Model Number	K90-8-7/10	K90-8-7/12	K90-8-7/14	K90-8-7/16	K90-8-7/20	K90-8-7/24
		Inside Span (A)	8'-6"	10'-6"	12'-6"	14'-6"	18'-6"	22'-6"
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-6"	25'-6"
		Weight (lbs.)	1861	1957	2053	2237	2677	3129
		Minimum Height	5'-6"					
		Support Width (C)	4'-0"					
	9	Model Number	K90-8-9/10	K90-8-9/12	K90-8-9/14	K90-8-9/16	K90-8-9/20	K90-8-9/24
		Inside Span (A)	8'-6"	10'-6"	12'-6"	14'-6"	18'-6"	22'-6"
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-6"	25'-6"
		Weight (lbs.)	2074	2170	2266	2450	2890	3342
		Minimum Height	6'-6"					
		Support Width (C)	5'-0"					
	10	Model Number	K90-8-10/10	K90-8-10/12	K90-8-10/14	K90-8-10/16	K90-8-10/20	K90-8-10/24
		Inside Span (A)	8'-6"	10'-6"	12'-6"	14'-6"	18'-6"	22'-6"
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-6"	25'-6"
		Weight (lbs.)	2182	2278	2374	2558	2998	3450
		Minimum Height	7'					
		Support Width (C)	5'-6"					
	12	Model Number	K90-8-12/10	K90-8-12/12	K90-8-12/14	K90-8-12/16	K90-8-12/20	K90-8-12/24
		Inside Span (A)	8'-6"	10'-6"	12'-6"	14'-6"	18'-6"	22'-6"
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-6"	25'-6"
		Weight (lbs.)	2396	2492	2588	2772	3212	3664
		Minimum Height	8'					
		Support Width (C)	6'-6"					
	14	Model Number	K90-8-14/10	K90-8-14/12	K90-8-14/14	K90-8-14/16	K90-8-14/20	K90-8-14/24
		Inside Span (A)	8'-6"	10'-6"	12'-6"	14'-6"	18'-6"	22'-6"
		Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-6"	25'-6"
		Weight (lbs.)	2608	2704	2800	2984	3424	3876
Minimum Height		9'						
Support Width (C)		7'-6"						
16	Model Number	K90-8-16/10	K90-8-16/12	K90-8-16/14	K90-8-16/16	K90-8-16/20	K90-8-16/24	
	Inside Span (A)	8'-6"	10'-6"	12'-6"	14'-6"	18'-6"	22'-6"	
	Overall Length (B)	11'-6"	13'-6"	15'-6"	17'-6"	21'-6"	25'-6"	
	Weight (lbs.)	2823	2919	3015	3199	3640	4091	
	Minimum Height	11'						
	Support Width (C)	7'-6"						
Beam Height (in.)			18			16.43 - W		18.35 - W
Flange Width (in.)			6.0			7.12		7.59
Caster Diameter (in.)			12					

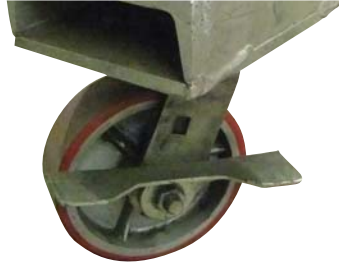
* Total weight of hoist and trolley not to exceed 20% of rated capacity.

Gantry Cranes

Optional Features For Steel & Aluminum Gantry Cranes

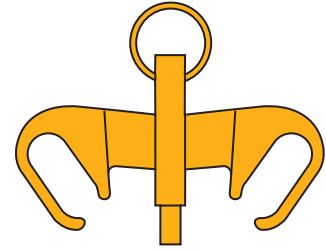
Wheel Brakes -

To hold the crane in place – these WILL NOT hold the gantry in place on a sloped surface or if the hoist is used improperly in a “side-pull” lift.



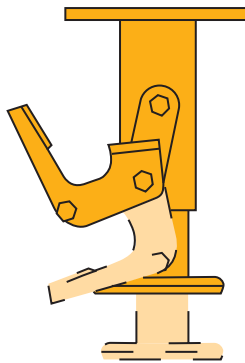
Swivel Locks -

Allow a wheel to be locked in the stationary position. Locking two wheels makes the gantry crane easier to steer.



Floor Locks -

Mounts between the 2 wheels under the crane. Depressing the pedal keeps the crane from moving.

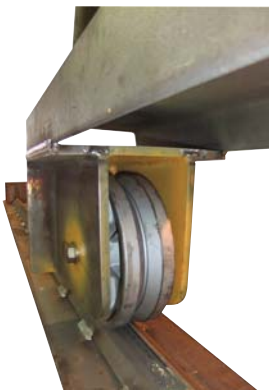


Adjusting Level Kits -

Mounted to both legs to make no-load vertical height adjustment quicker and easier. Must be ordered at the time the gantry is ordered.



V-Groove Wheels - Angle Track - End Stops - Provides easy movement along a fixed track. Angle Track is provided with mounting holes and requires V-Groove Wheels on the gantry. End Stops are required to limit travel.



Power Drive Kits -

To increase ergonomics, a Powered Drive Kit allows for motorized control of travel.

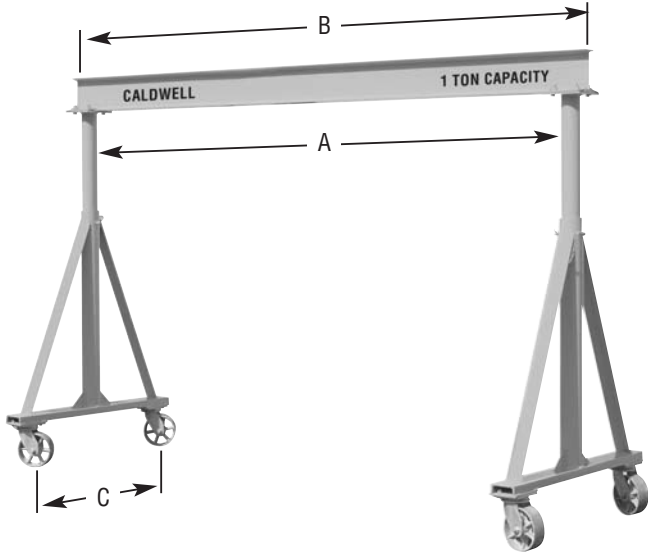
Single Speed Drive kit specification:

- Travel speed 90 FPM.
- V-Groove Wheels included.
- Control panel with soft-start and mainline contactor.
- CMAA Class C, indoor service 230/460-3-60AC.
- NEMA 1 enclosures.
- 2 button control included.

Posi-Gantri™ is also available see page C.16.

Gantry Cranes

Model HA90 - Aluminum Gantry Fixed Height & Adjustable Span



The all aluminum gantry is perfect for applications where the crane weight is critical.

PRODUCT FEATURES:

- Lightweight aluminum.
- Balanced design allows for easy rolling, even under load.
- Conforms to AISC, OSHA and CMAA specifications.
- Bolt together construction.
- Easy set up and maintenance.
- 4 poly-coated swivel casters.
- For our optional gantry crane features, please see page H.15.

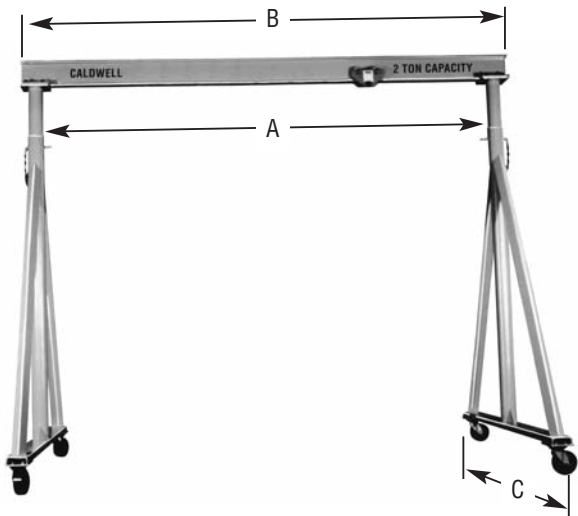
SPECIFICATIONS

			1 Ton Capacity*			2 Ton Capacity*		
			Nominal Span (ft.)			Nominal Span (ft.)		
			6	9	11	6	8	10
Height Under Beam	7'-6"	Model Number	HA90-1-7/6	HA90-1-7/9	HA90-1-7/11	HA90-2-7/6	HA90-2-7/8	HA90-2-7/10
		Inside Span (A)	6'-10"	9'	11'	6'-4"	8'-6"	10'-6"
		Overall Length (B)	8'-4"	10'-6"	12'-6"	8'-4"	10'-6"	12'-6"
		Weight (lbs.)	212	238	251	351	408	429
		Support Width (C)	4'			4'		
	9'-2"	Model Number	HA90-1-9/6	HA90-1-9/9	HA90-1-9/11	HA90-2-9/6	HA90-2-9/8	HA90-2-9/10
		Inside Span (A)	6'-10"	9'	11'	6'-4"	8'-6"	10'-6"
		Overall Length (B)	8'-4"	10'-6"	12'-6"	8'-4"	10'-6"	12'-6"
		Weight (lbs.)	234	260	273	371	428	449
		Support Width (C)	5'			5'		
	10'-10"	Model Number	HA90-1-10/6	HA90-1-10/9	HA90-1-10/11	HA90-2-10/6	HA90-2-10/8	HA90-2-10/10
		Inside Span (A)	6'-10"	9'	11'	6'-4"	8'-6"	10'-6"
Overall Length (B)		8'-4"	10'-6"	12'-6"	8'-4"	10'-6"	12'-6"	
Weight (lbs.)		258	284	297	401	458	479	
	Support Width (C)	6'			6'			
	Beam Height (in.)	6	8		8	10		
	Flange Width (in.)	3.33	4		4	4.66		
	Caster Diameter (in.)	6			8			

* Total weight of hoist and trolley not to exceed 20% of rated capacity.

Gantry Cranes

Model KA90 - Aluminum Gantry Adjustable Height & Span



The all aluminum gantry is perfect for applications where the crane weight is critical.

PRODUCT FEATURES:

- Lightweight aluminum.
- Balanced design allows for easy rolling, even under load.
- Conforms to AISC, OSHA and CMAA specifications.
- Bolt together construction.
- Easy set up and maintenance.
- 4 poly-coated swivel casters.
- Height and span adjustability.
- Height adjustable down from maximum in 6" increments.
- For our optional gantry crane features, please see page H.15.

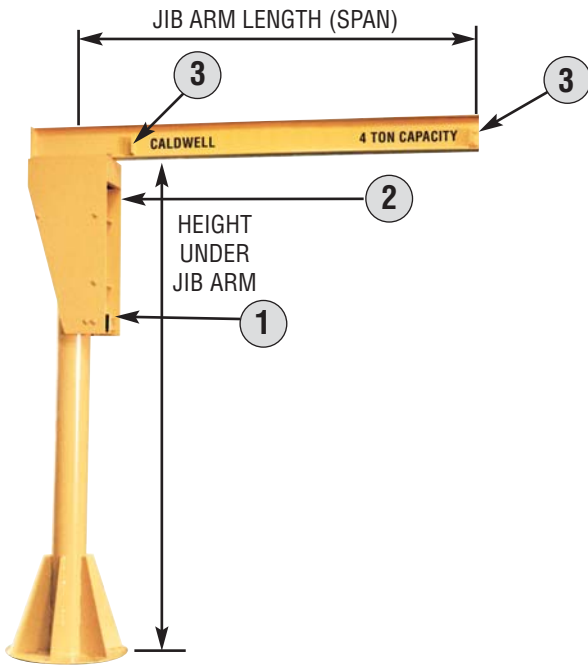
SPECIFICATIONS

			1 Ton Capacity*			2 Ton Capacity*			
			Nominal Span (ft.)			Nominal Span (ft.)			
			6	8	10	6	8	10	
Height Under Beam	7'-6"	Model Number	KA90-1-7/6	KA90-1-7/8	KA90-1-7/10	KA90-2-7/6	KA90-2-7/8	KA90-2-7/10	
		Inside Span (A)	6'-7"	8'-9"	10'-9"	6'	8'-2"	10'-6"	
		Overall Length (B)	8'-4"	10'-6"	12'-6"	8'-4"	10'-6"	12'-6"	
		Total Weight (lbs.)	350	375	390	460	500	525	
		Minimum Height	5'-6"			5'-6"			
		Support Width (C)	4'			4'			
	9'-2"	Model Number	KA90-1-9/6	KA90-1-9/8	KA90-1-9/10	KA90-2-9/6	KA90-2-9/8	KA90-2-9/10	
		Inside Span (A)	6'-7"	8'-9"	10'-9"	6'	8'-2"	10'-6"	
		Overall Length (B)	8'-4"	10'-6"	12'-6"	8'-4"	10'-6"	12'-6"	
		Weight (lbs.)	360	385	400	485	525	550	
		Minimum Height	6'-2"			6'-2"			
		Support Width (C)	5'			5'			
	10'-10"	Model Number	KA90-1-10/6	KA90-1-10/8	KA90-1-10/10	KA90-2-10/6	KA90-2-10/8	KA90-2-10/10	
		Inside Span (A)	6'-7"	8'-9"	10'-9"	6'	8'-2"	10'-6"	
		Overall Length (B)	8'-4"	10'-6"	12'-6"	8'-4"	10'-6"	12'-6"	
		Weight (lbs.)	385	410	425	520	560	585	
Minimum Height		7'-10"			7'-10"				
Support Width (C)		6'			6'				
12'-6"	Model Number	KA90-1-12/6	KA90-1-12/8	KA90-1-12/10	KA90-2-12/6	KA90-2-12/8	KA90-2-12/10		
	Inside Span (A)	6'-7"	8'-9"	10'-9"	6'	8'-2"	10'-6"		
	Overall Length (B)	8'-4"	10'-6"	12'-6"	8'-4"	10'-6"	12'-6"		
	Weight (lbs.)	415	440	455	530	570	595		
	Minimum Height	9'-6"			9'-6"				
	Support Width (C)	6'-6"			6'-6"				
Beam Height (in.)		6		8		8		10	
Flange Width (in.)		3.44		4		4		4.66	
Caster Diameter (in.)		6		6		8		8	

* Total weight of hoist and trolley not to exceed 20% of rated capacity.

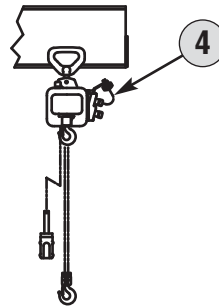
Free Standing Jib Cranes

Model A360 Series - Base Mounted



PRODUCT FEATURES:

- Spans and height combinations from 8'-20'.
- 360° rotation (when not obstructed).
- Design allows for easy rotation, even under full load.
- Units are fully self-supporting (must be anchored to specified foundation).
- Conforms to applicable standards.



“Friction Free” Full Circle Jib Crane

Designed for easy installation, minimal maintenance requirements, and years of trouble free service.

Heavy duty design with many quality features:

- ① Two roller design with articulated roller housing provides easy, precise rotation while reducing concentrated roller pressure on the pipe for most “normal” industrial applications.
- ② Jib head is designed for exact bearing alignment for trouble-free installations and “friction-free” rotation. Adjustable rollers insure proper boom leveling.
- ③ End stops provide a positive hoist/trolley stop, and allows for maximum in trolley travel.
- ④ Optional hoist/trolley package please see pages H.36 - H.37.

All cranes have been designed to easily accept a kit for powered rotation either with the initial order or at a later date. Crane-King® Motor Drive Packages are on page H.28.

See pages H.28 - H.29 for options.

Free Standing Jib Cranes

Model A360-1/4 - 1/4 Ton Capacity

SPECIFICATIONS

1/4 Ton Capacity*		Jib Arm Length - Span (feet)							
		8	10	12	14	16	18	20	
Height Under Jib Arm (feet)	8	Model Number A360-1/4-8/8	A360-1/4-8/10	A360-1/4-8/12	A360-1/4-8/14	A360-1/4-8/16	A360-1/4-8/18	A360-1/4-8/20	
	10	Pipe	<p>Do not use, see update PDF file</p> <p>Location P:\CatalogPDF-Files\MasterCatalog\MC-5_2014-2016</p> <p>file name 010_SEC_I_KK_- Pages 19-24 - 091918</p> <p>Do not use, see update PDF file</p>						
	12	Over							
	14	Flang							
	16	We							
	18	Mod							
	20	Pipe							
▲	Over								
	Flang	3 - vertical							
	We	* Total							
	▲ See	▲ See							
	Clear	Clear							

Complete hoist/trolley package information on pages H.36 and H.37.



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Model A360-1/2 - 1/2 Ton Capacity

SPECIFICATIONS

1/2 Ton Capacity*		Jib Arm Length - Span (feet)						
		8	10	12	14	16	18	20
Height Under Jib Arm (feet)	8	Model Number A360-1/2-8/8	A360-1/2-8/10	A360-1/2-8/12	A360-1/2-8/14	A360-1/2-8/16	A360-1/2-8/18	A360-1/2-8/20
	10	Model Number A360-1/2-10/8	A360-1/2-10/10	A360-1/2-10/12	A360-1/2-10/14	A360-1/2-10/16	A360-1/2-10/18	A360-1/2-10/20
	12	Model Number A360-1/2-12/8	A360-1/2-12/10	A360-1/2-12/12	A360-1/2-12/14	A360-1/2-12/16	A360-1/2-12/18	A360-1/2-12/20
	14	Model Number A360-1/2-14/8	A360-1/2-14/10	A360-1/2-14/12	A360-1/2-14/14	A360-1/2-14/16	A360-1/2-14/18	A360-1/2-14/20
	16	Model Number A360-1/2-16/8	A360-1/2-16/10	A360-1/2-16/12	A360-1/2-16/14	A360-1/2-16/16	A360-1/2-16/18	A360-1/2-16/20
	18	Model Number A360-1/2-18/8	A360-1/2-18/10	A360-1/2-18/12	A360-1/2-18/14	A360-1/2-18/16	A360-1/2-18/18	A360-1/2-18/20
	20	Model Number A360-1/2-20/8	A360-1/2-20/10	A360-1/2-20/12	A360-1/2-20/14	A360-1/2-20/16	A360-1/2-20/18	A360-1/2-20/20
▲ See page H.36 for details								
* Total height under jib arm includes height of jib arm and trolley.								
▲ See page H.37 for details								
Clearance required for jib arm and trolley.								

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Complete hoist/trolley package information on pages H.36 and H.37.

Free Standing Jib Cranes

Model A360-1 - 1 Ton Capacity

SPECIFICATIONS

1 Ton Capacity*		Jib Arm Length - Span (feet)								
		8	10	12	14	16	18	20		
Height Under Jib Arm (feet)	8	Model Number A360-1-8/8	A360-1-8/10	A360-1-8/12	A360-1-8/14	A360-1-8/16	A360-1-8/18	A360-1-8/20		
	10	Pipe O.D. (in.)	10.25	10.25	10.25	11	11	11	11	
		Overhead	Do not use, see update PDF file							
		Flange	Do not use, see update PDF file							
		Weight	Do not use, see update PDF file							
		12	Model Number	Location						
		Pipe O.D. (in.)	P:\CatalogPDF-Files\MasterCatalog\MC-5_2014-2016							
Overhead	file name									
14	Flange	010_SEC_I_KK_ - Pages 19-24 - 091918								
	Weight	Do not use, see update PDF file								
16	Model Number	Do not use, see update PDF file								
	Pipe O.D. (in.)	Do not use, see update PDF file								
18	Overhead	Do not use, see update PDF file								
	Flange	Do not use, see update PDF file								
20	Weight	Do not use, see update PDF file								
	Model Number	Do not use, see update PDF file								

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Complete hoist/trolley package information on pages H.36 and H.37.

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Model A360-2 - 2 Ton Capacity

SPECIFICATIONS

2 Ton Capacity*		Jib Arm Length - Span (feet)						
		8	10	12	14	16	18	20
Height Under Jib Arm (feet)	8	Model N Pipe O.D. Overall I Flange Wi Weight	Do not use, see update PDF file					
	10	Model N Pipe O.D. Overall I Flange Wi Weight	Do not use, see update PDF file					
	12	Model N Pipe O.D. Overall I Flange Wi Weight	Location P:\CatalogPDF-Files\MasterCatalog\MC-5_2014-2016					
	14	Model N Pipe O.D. Overall I Flange Wi Weight	file name 010_SEC_I_KK_- Pages 19-24 - 091918					
	16	Model N Pipe O.D. Overall I Flange Wi Weight	Do not use, see update PDF file					
	18	Model N Pipe O.D. Overall I Flange Wi Weight	Do not use, see update PDF file					
	20	Model N Pipe O.D. Overall I Flange Wi Weight	Do not use, see update PDF file					

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* Total w

▲ See p

Clearan

3" Vertical

Complete hoist/trolley package information on pages H.36 and H.37.

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Model A360-3 - 3 Ton Capacity

SPECIFICATIONS

3 Ton Capacity*		Jib Arm Length - Span (feet)							
		8	10	12	14	16	18	20	
Height Under Jib Arm (feet)	10	Model Number	A360-3-10/8	A360-3-10/10	A360-3-10/12	A360-3-10/14	A360-3-10/16	A360-3-10/18	A360-3-10/20
		Pipe O.D. (in.)	16	16	18	18	20	20	24
		Overall Height	11'0-1/2"	11'4-1/8"	11'4-1/8"	11'6-1/8"	11'6-1/8"	11'9"	12'0-1/2"
	12	<p style="text-align: center;">Do not use, see update PDF file</p> <p>Location P:\CatalogPDF-Files\MasterCatalog\MC-5_2014-2016 file name 010_SEC_I_KK_- Pages 19-24 - 091918</p> <p style="text-align: center;">Do not use, see update PDF file</p>							2/20
									2'
	14								4/20
	2'								
16	6/20								
	2'								
18	8/20								
	2'								
20	0/20								
	2'								

Free Standing Jib Cranes



Model A360-5 - 5 Ton Capacity

SPECIFICATIONS

5 Ton Capacity*		Jib Arm Length - Span (feet)						
		8	10	12	14	16	18	20
Height Under Jib Arm (feet)	10	Model Num Pipe O.D. (I Overall Hei Flange Width Weight (lb						
	12	Model Num Pipe O.D. (I Overall Hei Flange Width Weight (lb						
	14	Model Num Pipe O.D. (I Overall Hei Flange Width Weight (lb						
	16	Model Num Pipe O.D. (I Overall Hei Flange Width Weight (lb						
	18	Model Num Pipe O.D. (I Overall Hei Flange Width Weight (lb						
	20	Model Num Pipe O.D. (I Overall Hei Flange Width Weight (lb						

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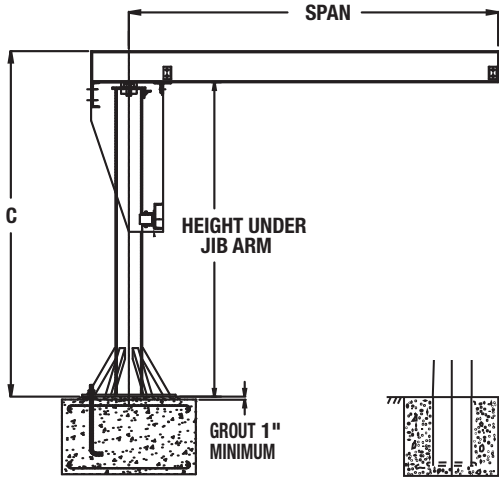
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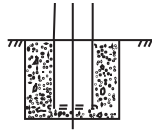
Clearance

Complete

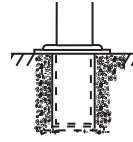
Jib Crane Application Evaluation



A360 - Base Mounted



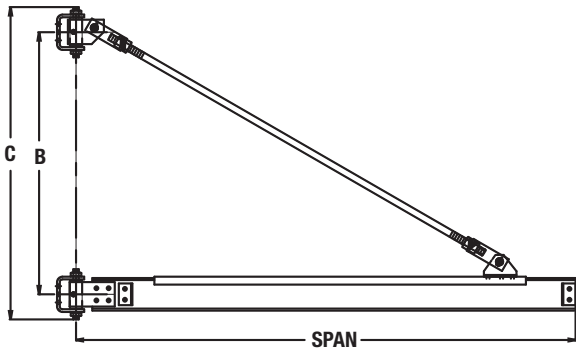
B360 - Foundation Mounted



C360 - Sleeve Mounted

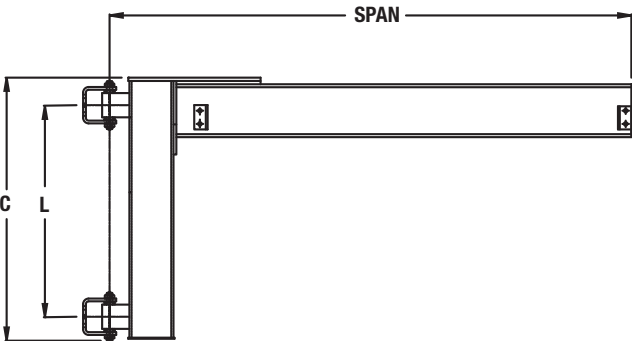
FLOOR MOUNTED JIB CRANE INFORMATION:

Model Required _____
 Capacity Required _____ (tons)
 Span _____ (ft.)
 Height Under Jib Arm _____ (ft.)
 C _____ (ft.)



TENSION BRACED JIB CRANE INFORMATION:

Capacity Required _____ (tons)
 Span _____ (ft.)
 B _____ (ft.)
 C _____ (ft.)



FULL CANTILEVER JIB CRANE INFORMATION:

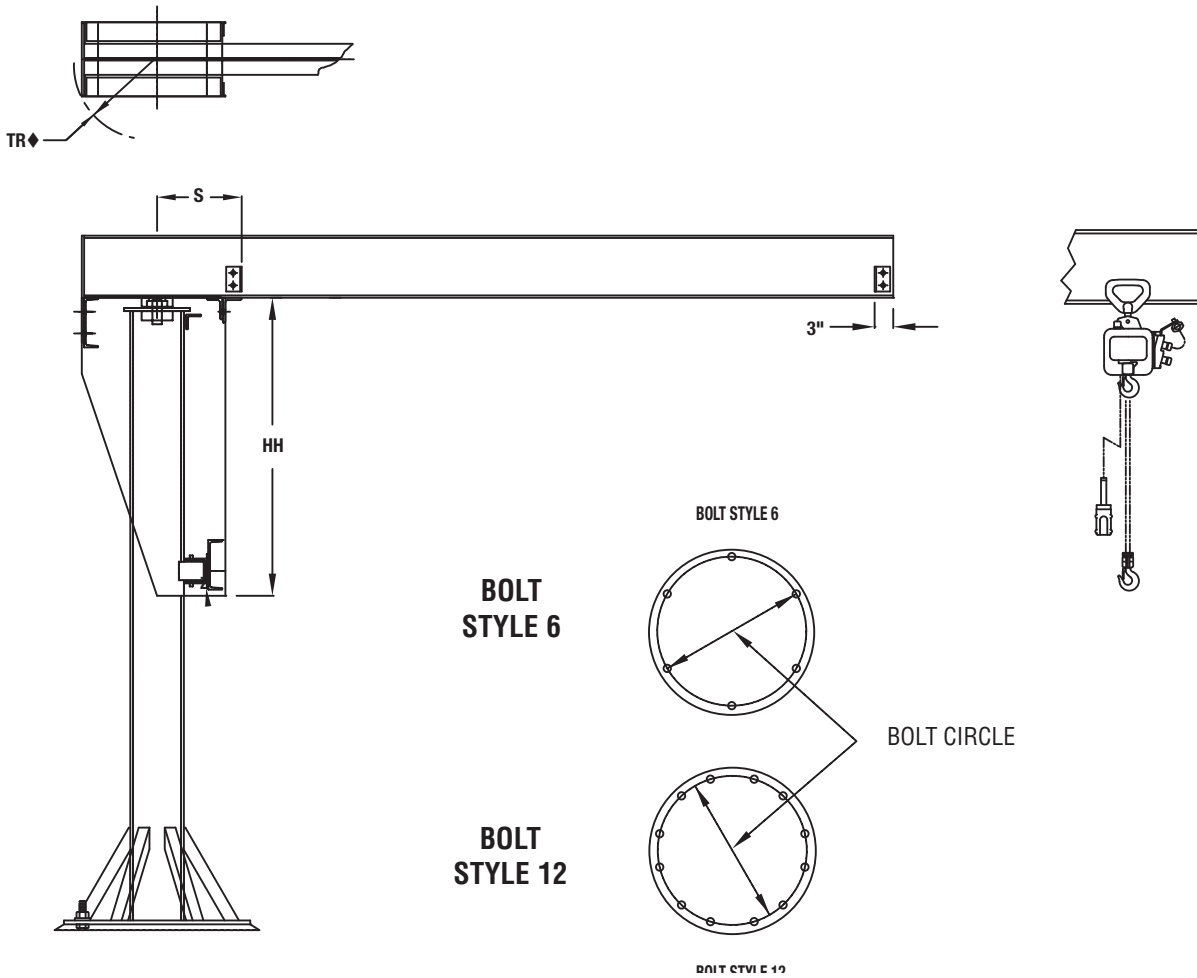
Capacity Required _____ (tons)
 Span _____ (ft.)
 C _____ (ft.)
 L _____ (ft.)

For a price quote on your specific application, please complete the above form and fax to The Caldwell Group at **815-229-5686** or you can complete this form online at www.caldwellinc.com/applications.

Contact: _____
 Company: _____
 Address: _____
 City, State, Zip: _____
 Phone: _____
 Fax: _____
 Email: _____

Free Standing Jib Cranes

Additional Dimensional Information



ADDITIONAL SPECIFICATIONS

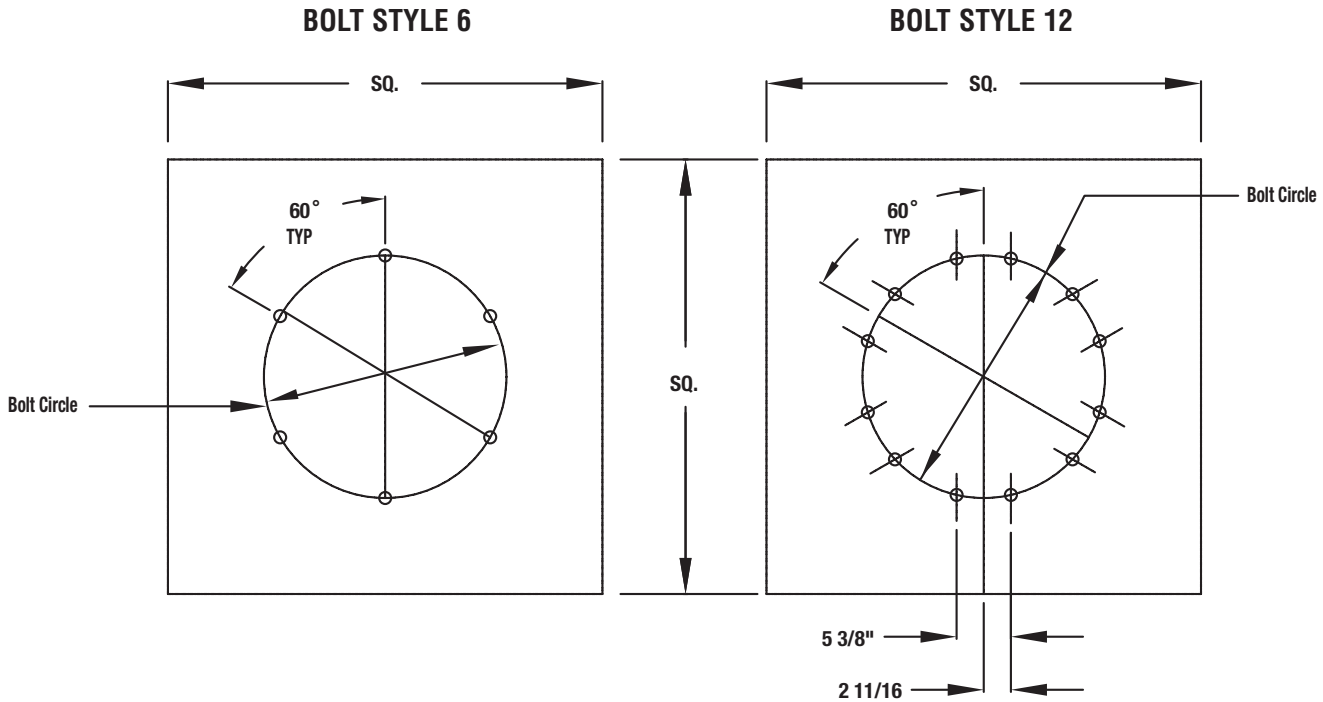
Pipe O.D. (in.)*	Foundation Dimensions					Jib Dimensions		
	Bolt Style	Bolt Circle (in.)	Base Plate	Anchor		S	HH	TR [◆]
				Dia. (in.)	P (in.)			
8-5/8	6	24	2'-6"	1	4-3/4	1' 1-5/8"	4'	1' 1-1/2"
12-3/4	6	30	3'-0"	1-1/4	5-1/2	1' 5-1/8"	4'-6"	1' 5-1/4"
14	6	36	3'-6"	1-1/4	5-1/2	1' 7-1/2"	4'-6"	1' 7-1/2"
16	12	42	4'-0"	1-1/4	5-1/2	1' 7-3/4"	5'	1' 7-3/4"
18	12	48	4'-6"	1-1/4	5-1/2	1' 9-1/2"	5'	1' 9-1/2"
20	12	54	5'-0"	1-1/4	5-1/2	1' 11-3/4"	5'	1' 11-3/4"
24	12	60	5'-6"	1-1/4	5-1/2	1' 3-1/4"	6'-5"	2' 3-1/4"
30	12	66	7'-0"	1-1/4	5-1/2	1' 7-1/2"	8'	2' 7-1/2"

* Pipe O.D. is noted in the specification charts on pages H.19 - H.25

◆ Turning Radius (clearance) of jib head.

Free Standing Jib Cranes

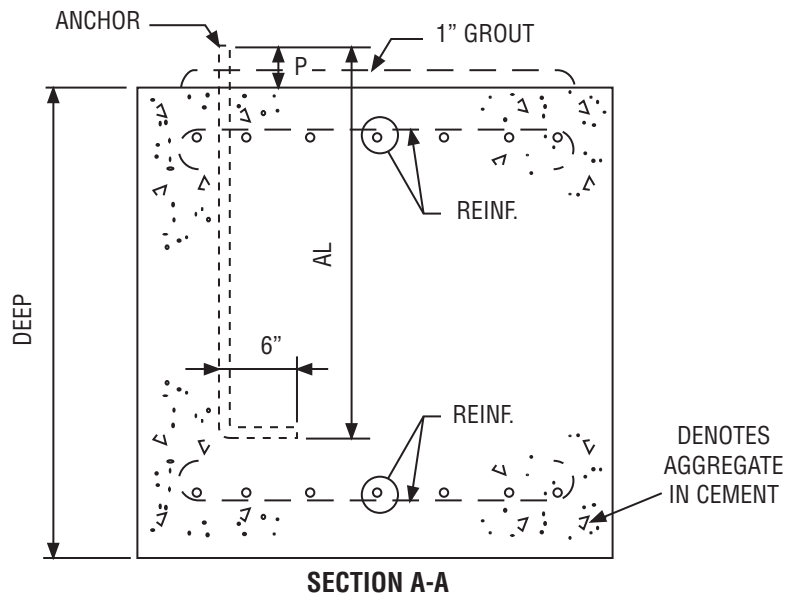
Foundation Dimensional Information



FOUNDATION TYPE

Type*	Foundation Dimensions		Anchors		See Additional Specification chart page H.26
	SQ (ft.)	Deep (ft.)	AL (in.)	P (in.)	
A	4	3	31-1/2	4-3/4	
B	4	4	40-1/2	5-1/2	
C	5	3	31-1/2	5-1/2	
D	5	4	40-1/2	5-1/2	
E	6	4	40-1/2	5-1/2	
F	7	4	40-1/2	5-1/2	
G	8	4	40-1/2	5-1/2	
H	9	4	40-1/2	5-1/2	
I	10	4	40-1/2	5-1/2	

* Get foundation type from specification chart according to capacity and span. (Pages H.19 - H.25)



These recommendations are subject to approval of local engineering as required.

Foundation requirements are based upon a soil pressure of 2500 lbs. per square foot and 3000 lbs. per square inch compressive concrete.

Reinforcing bars 5/8" diameter top, 3/4" diameter bottom on 12" center each way.

Anchor bolts are not supplied with crane but are available as an option.

Free Standing Jib Cranes

Motorized Rotation Options



BENEFITS:

- Rotate jib cranes into position with push-button controls.
- Safely position up to 5-ton loads with little operator effort.
- Reduce employee back strains and injuries.
- Accurately position loads by eliminating jib over-travel.
- Avoid machinery damage with precise boom control.
- Rotate jib booms easily in overcrowded areas.
- Improve efficiency during loading and unloading.
- Eliminate hoist side-loading with jib motorization.
- Position operators farther from jib crane loads.
- Position jib booms over hard to reach areas.

STANDARD FEATURES:

- Fits almost any free-standing jib crane.
- 1/2 RPM with fractional HP motor.
- CMAA Class C, indoor service 230/460 AC with 110 volt control.
- Dual spring loaded heavy duty rubber drive wheels.
- NEMA 1 panel with reversing contactor and soft start.
- Designed for either bolt-on or weld-on mounting.
- Available on new cranes or as a retrofit.

MR - Motorized Rotation Selection Chart

Capacity (tons)	Span (ft.)						
	8	10	12	14	16	18	20
1/4							
1/2							
1							
2							
3							
4							
5							
	MR-1				MR-2		

Model 359MR Limited Motorized Rotation Option

- Order either a Model 359MR-1 or 359MR-2.
- Standard features include a limit switch and rotation stops* that provide up to 359° rotation.
- Available as either factory installed (with new jib order), or as a kit to fit a variety of manufacturer's jib cranes.

* To be field located.

Model 360MR Continuous Motorized Rotation Option

- Order either a Model 360MR-1 or 360MR-2.
- Allows for 360° continuous rotation.
- Standard unit includes a top entry (power source from ceiling) collector ring.♦
- Available as either factory installed (with new jib order), or as a kit to fit a variety of manufacturer's jib cranes.

♦ If bottom entry collector rings are required, they must be ordered at the same time as the jib and are available as factory installed only.

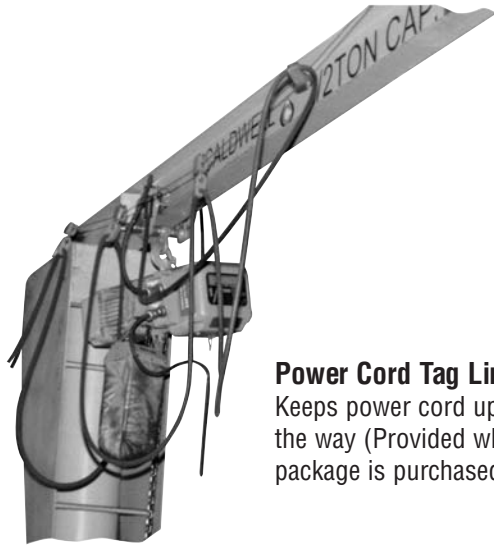
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Optional Features For Jib Cranes

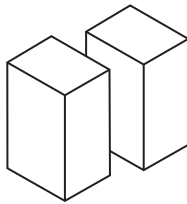


Power Cord Tag Line Kit -
Keeps power cord up and out of the way (Provided when hoist package is purchased).

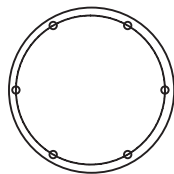
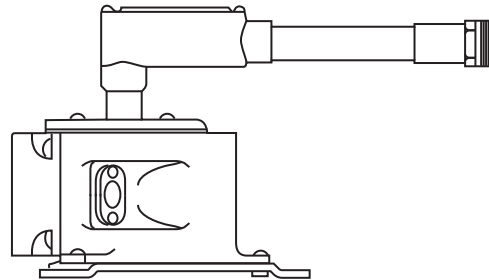
Anchor Bolts - J-type for mounting, provided complete with nuts and washers.



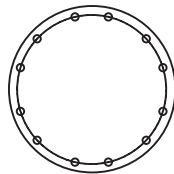
Rotational Stops - Prevents continuous rotation of jib. Steel stops to be field welded.



Top or bottom entry Electric Collector Rings -
Allows for continuous rotation by eliminating possible power cord damage.



**BOLT
STYLE 6**



**BOLT
STYLE 12**

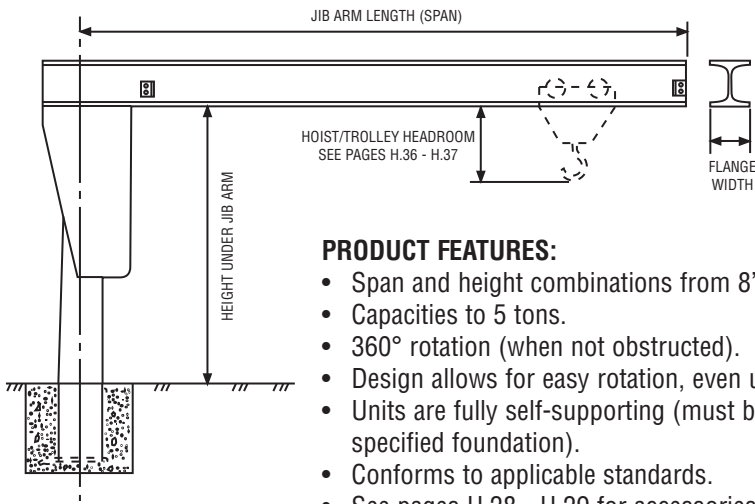
To Scale* Templates -
A full size paper template is available for exact bolt patterns.

* Reduced size drawing provided standard with jib.

Free Standing Jib Cranes

Model B360 - Foundation Mounted

This unit is selected when bottom base & gusset plates interfere with cranes placement.

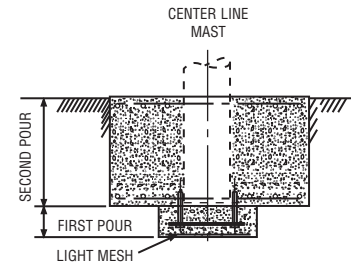
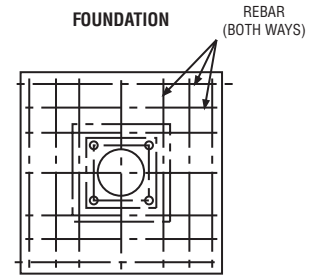


PRODUCT FEATURES:

- Span and height combinations from 8' - 20'.
- Capacities to 5 tons.
- 360° rotation (when not obstructed).
- Design allows for easy rotation, even under full load.
- Units are fully self-supporting (must be anchored to specified foundation).
- Conforms to applicable standards.
- See pages H.28 - H.29 for accessories.

CONSULT FACTORY:

Please fill out our application evaluation on page H.25 and our application specialists will review your request.

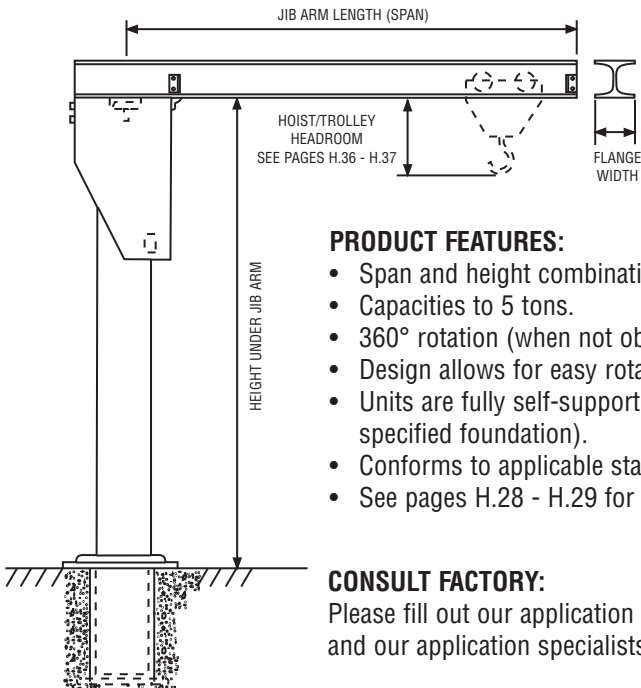


WARNING

All Jib Cranes must be installed so the mast center is exactly vertical. Because the Model B360 is set directly in the concrete, there is no corrective adjustment on this Jib after concrete has set. CRANE WILL NOT OPERATE PROPERLY IF MAST CENTER IS NOT EXACTLY VERTICAL.

Model C360 - Sleeve Mounted

This unit is selected if the cranes removal is an important factor.

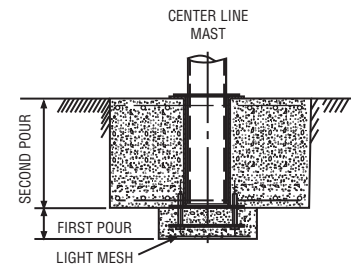
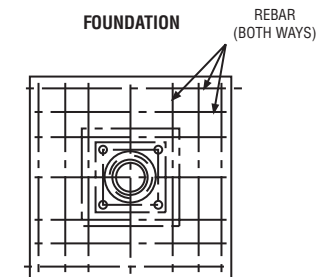


PRODUCT FEATURES:

- Span and height combinations from 8' - 20'.
- Capacities to 5 tons.
- 360° rotation (when not obstructed).
- Design allows for easy rotation, even under full load.
- Units are fully self-supporting (must be anchored to specified foundation).
- Conforms to applicable standards.
- See pages H.28 - H.29 for accessories.

CONSULT FACTORY:

Please fill out our application evaluation on page H.25 and our application specialists will review your request.



Tension & Cantilevered Jib Cranes



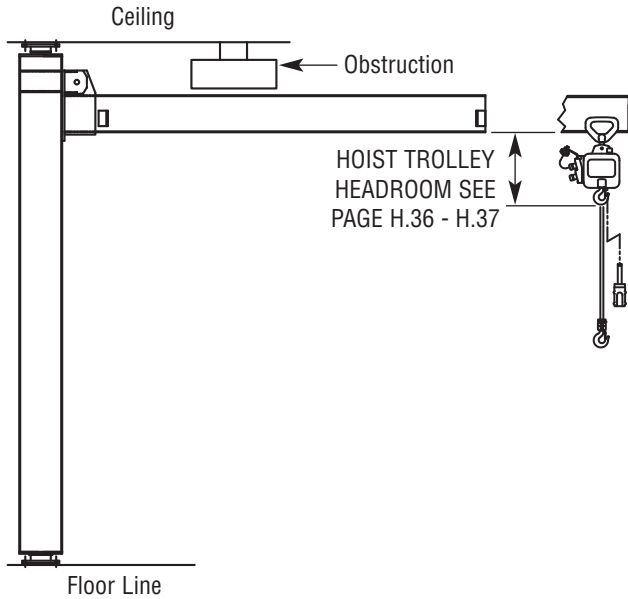
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Model F360 / G360 - Mast Type Jib Cranes

Model F360 Drop Boom Style

Allows for clearance from obstructions.



PRODUCT FEATURES:

- Low headroom design.
- Imposes less force than column mounted solutions.
- Span and height combinations from 8'-20'.
- Capacities to 5 tons.
- 360° rotation (when not obstructed).
- Simple four hole base plates for easy installation.
- Bolted connections.
- Very easily adjusted (if out of plum).
- Conforms to applicable standards.

Model Required _____

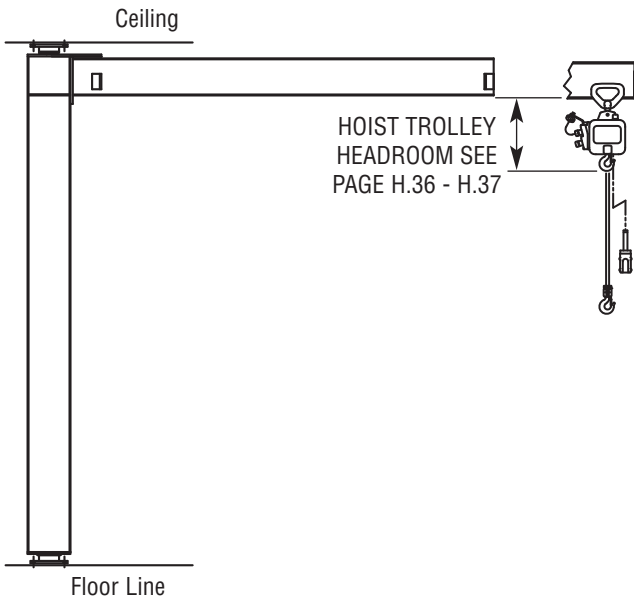
Capacity Required _____ (tons)

Span _____ (ft.)

Height Under Jib Arm _____ (ft.)

Model G360 - Full Cantilever Style

Provides the greatest hook height.



Contact: _____

Company: _____

Address: _____

City, State, Zip: _____

Phone: _____

Fax: _____

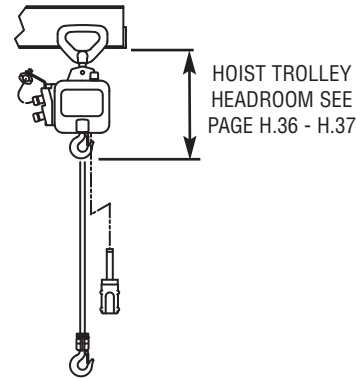
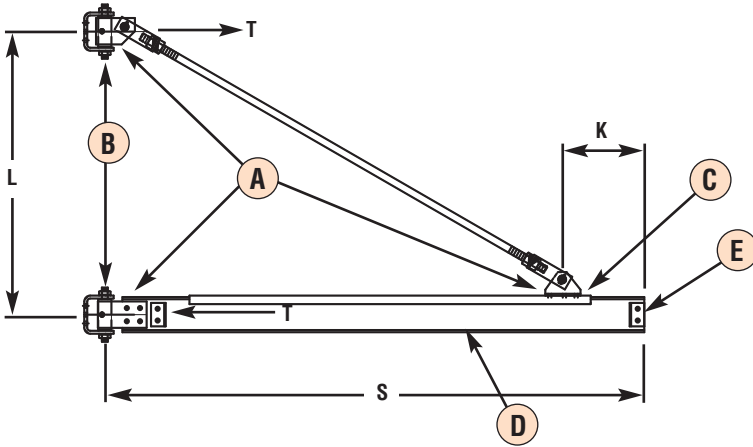
Email: _____

For a price quote on your specific application, please complete the above form and fax to The Caldwell Group at **815-229-5686** or you can complete this form online at www.caldwellinc.com/applications.

Tension & Cantilevered Jib Cranes

Model D180 - Tension Braced

This crane puts the economy back into this column mounted unit. This inexpensive jib crane provides a fast and easy to install solution to a localized material handling problem. Our unique design follows the same engineering criteria as all of our quality products. Easy to install fittings simply bolt to the column and beam. This "friction free" 180° rotating crane can also be pushed out of the way when not in use.



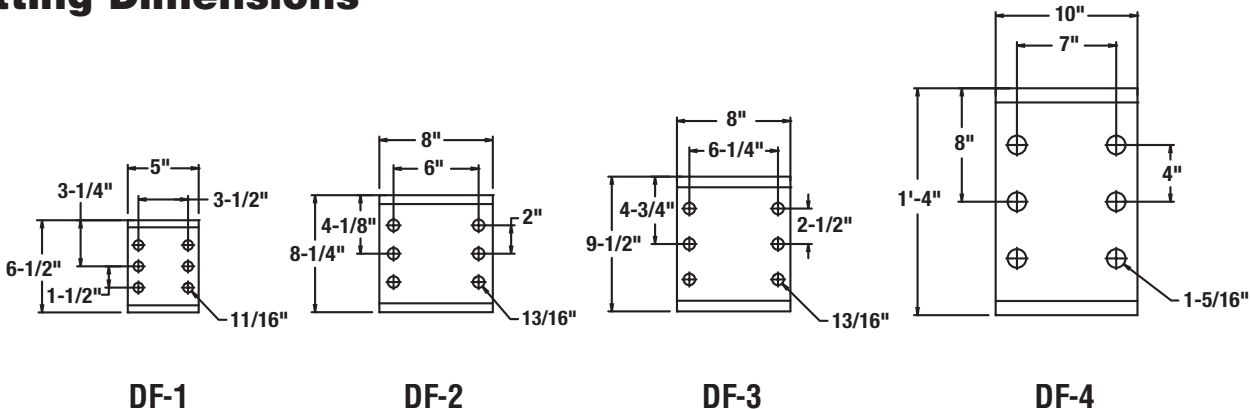
PRODUCT FEATURES:

- A** Fittings are heavy duty steel weldments, jig welded to insure proper bearing alignment.
- B** Axles are Grade 8 bolts with lock washers and nuts. Lubricated bronze shoulders bushings are used.
- C** Fitting is bolted to top flange of beam, which allows for single location "leveling down" of the beam if an adjustment is required.
- D** American Standard Wide Flange beams, selected to properly handle all imposed forces and loads.
- E** End stops provide a positive hoist / trolley stop allowing for the maximum in trolley travel.



Fitting Kits - To be used to build complete cranes in accordance with the information provided on page H.33. Kits include: 3 fittings and assembly instructions. Tension rod available upon request.

Fitting Dimensions



Tension & Cantilevered Jib Cranes

Model D180 - Tension Braced

SPECIFICATIONS

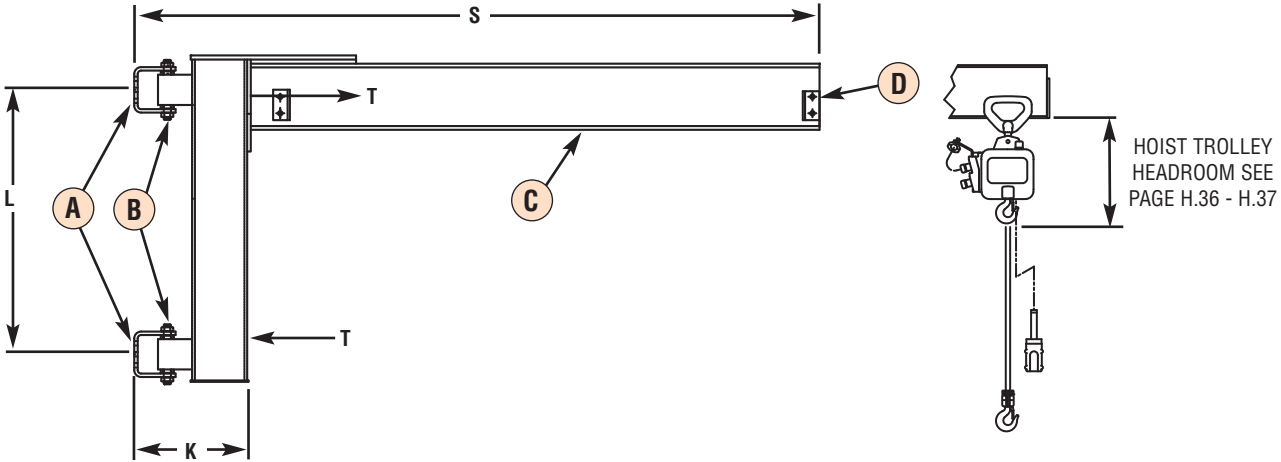
- * The total of hoist and trolley not to exceed 15% of rated capacity.
- ** This dimension must be held exactly.
- ◆ Thrust and Pull **MUST** be reviewed and approved prior to crane installation.
- C - Beam has additional strengthening cap.

Capacity* (tons)	Model Number	S Span (ft.)	Fitting Number	Boom Height (in.)	Flange Width (in.)	K (in.)	L**	T - Thrust & Pull (lbs.)◆	Unit Weight (lbs.)
1/2	D180-1/2-8	8	DF-1	6-1/4	4	15	2'9"	3930	205
	D180-1/2-10	10		6-1/4	4	18	3'	4550	240
	D180-1/2-12	12		6-1/4	4	21	3'9"	4400	275
	D180-1/2-14	14		6-1/4	4	24	4'6"	4325	312
	D180-1/2-16	16		6-1/4	4	24	5'6"	4075	347
	D180-1/2-18	18		8-1/4	5-1/4	24	6'	4320	433
	D180-1/2-20	20		8-1/4	5-1/4	27	6'6"	4565	540
	D180-1/2-22	22		8-1/4	5-1/4	27	7'	5060	842
	D180-1/2-24	24		8-1/4	5-1/4	30	7'6"	5315	913
	D180-1/2-26	26		10-3/8	5-3/4	30	8'	5795	1168
	D180-1/2-28	28		10-3/8	5-3/4	36	9'	5650	1251
D180-1/2-30	30	12-1/2	6-1/2	42	10'	6020	1641		
1	D180-1-8	8	DF-1	6-1/4	4	15	2'9"	7710	205
	D180-1-10	10		6-1/4	4	18	3'	8885	240
	D180-1-12	12		6-1/4	4	21	3'9"	8560	275
	D180-1-14	14		8-1/4	5-1/4	24	4'6"	8425	352
	D180-1-16	16		8-1/4	5-1/4	27	5'6"	7920	395
	D180-1-18	18		8-1/4	5-1/4	30	6'	8295	495
	D180-1-20	20		10-3/8	5-3/4	30	6'6"	8650	683
	D180-1-22	22		10-3/8	5-3/4	33	7'	9450	1004
	D180-1-24	24		10-3/8	5-3/4	33	7'6"	9740	1089
	D180-1-26	26		10-3/8	5-3/4	36	8'	10010	1168
	D180-1-28	28		12-1/2	6-1/2	42	9'	10145	1548
D180-1-30	30	12-1/2	6-1/2	42	10'	9920	1641		
2	D180-2-8	8	DF-2	8-1/4	5-1/4	15	2'9"	15345	363
	D180-2-10	10		8-1/4	5-1/4	18	3'	17640	420
	D180-2-12	12		8-1/4	5-1/4	21	3'9"	16990	480
	D180-2-14	14		8-1/4	5-1/4	24	4'6"	16580	536
	D180-2-16	16		10-3/4	5-3/4	27	5'6"	15720	706
	D180-2-18	18		10-3/4	5-3/4	27	6'	16290	780
	D180-2-20	20		12-1/2	6-1/2	30	6'6"	16980	985
	D180-2-22	22		12-1/2	6-1/2	30	7'	17970	1405
	D180-2-24	24		12-1/2	6-1/2	36	7'6"	18450	1520
	D180-2-26	26		12-1/2	6-1/2	42	8'	18890	1635
	D180-2-28	28		12-1/2-C	6-1/2	42	9'	18230	1745
	D180-2-30	30		12-1/2-C	6-1/2	36	10'	17720	1880
	3	D180-3-8		8	DF-3	8-1/4	5-1/4	15	2'9"
D180-3-10		10	8-1/4	5-1/4		18	3'3"	24285	445
D180-3-12		12	10-3/8	5-3/4		21	4'	23855	585
D180-3-14		14	10-3/8	5-3/4		24	4'9"	23515	655
D180-3-16		16	10-3/8	5-3/4		27	5'6"	23280	720
D180-3-18		18	12-1/2	6-1/2		27	6'3"	23290	905
D180-3-20		20	12-1/2	6-1/2		30	7'	23630	1295
D180-3-22		22	12-1/2	6-1/2		30	7'9"	23610	1405
D180-3-24		24	12-1/2 - C	6-1/2		36	8'6"	23620	1520
D180-3-26		26	12-1/2 - C	6-1/2		36	9'3"	23645	1895
D180-3-28		28	12-1/2 - C	6-1/2		36	10'	23690	2020
D180-3-30	30	12-1/2 - C	6-1/2	36	11'	23200	2140		
5	D180-5-8	8	DF-4	12-1/2	5-1/4	18	3'	35005	705
	D180-5-10	10		12-1/2	5-1/4	18	3'3"	40490	785
	D180-5-12	12		12-1/2	5-3/4	21	4'	39575	865
	D180-5-14	14		12-1/2	5-3/4	24	4'9"	38970	945
	D180-5-16	16		16-1/8	5-3/4	30	5'6"	38815	1205
	D180-5-18	18		16-1/8	6-1/2	36	6'3"	38550	1310
	D180-5-20	20		16-1/8	6-1/2	42	7'	38805	1680
	D180-5-22	22		16-1/8-C	6-1/2	42	7'9"	38720	1810
	D180-5-24	24		16-1/8-C	6-1/2	42	8'6"	38675	1940
	D180-5-26	26		16-1/8-C	6-1/2	42	9'3"	38665	2070
	D180-5-28	28		16-1/8-C	6-1/2	42	10'	38680	2615
	D180-5-30	30		16-1/8-C	6-1/2	42	11'	38835	2760

Tension & Cantilevered Jib Cranes

Model E180 - Full Cantilever

This crane puts the economy back into this column mounted unit. This inexpensive jib crane provides a fast and easy to install solution to a localized material handling problem. Our unique design follows the same engineering criteria as all of our quality products and is ideal for applications where headroom is limited. Easy to install fittings simply bolt to the column and beam. This "friction free" 180° rotating crane can also be pushed out of the way when not in use.



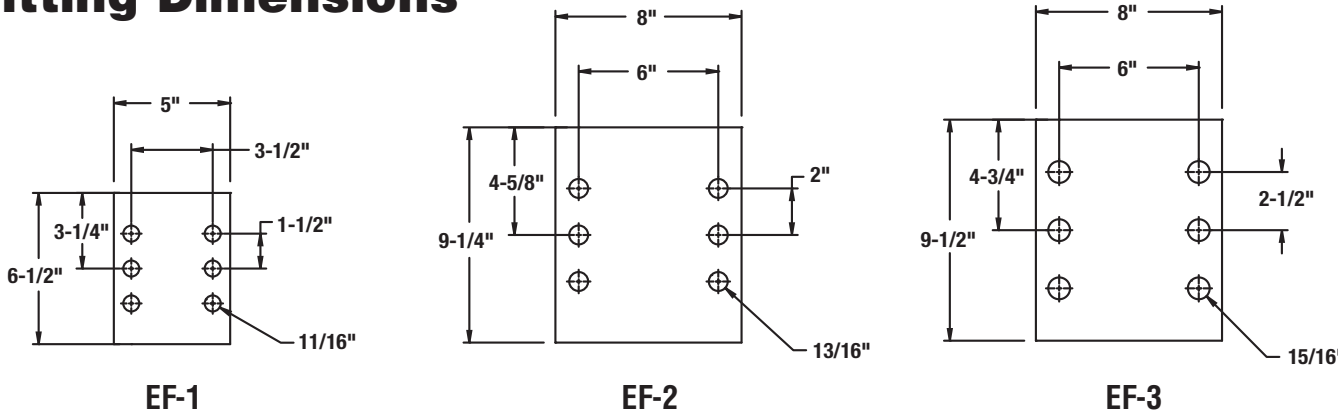
PRODUCT FEATURES:

- A** Fittings are heavy duty steel weldments, jig welded to insure proper bearing alignment.
- B** Axles are Grade 8 bolts with lock washers and nuts. Lubricated bronze shoulder bushings are used.
- C** American Standard Wide Flange beams, selected to properly handle all forces and loads imposed upon it.
- D** End stops provide a positive and permanent hoist / trolley stop allowing for the maximum in trolley travel.



Fitting Kits - To build complete cranes in accordance with the information provided on page H.35. Kits include: 2 fittings and assembly instructions.

Fitting Dimensions



Tension & Cantilevered Jib Cranes

Model E180 - Full Cantilever

SPECIFICATIONS

Capacity* (tons)	Model Number	S Span (ft.)	Fitting Number	Boom Height (in.)	Flange Width (in.)	K (in.)	L**	T - Thrust & Pull (lbs.) [◆]	Unit Weight (lbs.)
1/4	E180-1/4-8	8	EF-1	6-1/4	4	16	4'	1295	265
	E180-1/4-10	10		6-1/4	4	16	4'	1685	290
	E180-1/4-12	12		6-1/4	4	16	4'	2095	315
	E180-1/4-14	14		6-1/4	4	16	4'	2515	340
	E180-1/4-16	16		8-1/4	5-1/4	16	4'	2955	415
	E180-1/4-18	18		8-1/4	5-1/4	16	4'	3610	495
	E180-1/4-20	20		10-3/8	5-3/4	19	4'	4410	850
1/2	E180-1/2-8	8	EF-1	8-1/4	5-1/4	16	4'	2430	310
	E180-1/2-10	10		8-1/4	5-1/4	16	4'	3080	340
	E180-1/2-12	12		8-1/4	5-1/4	16	4'	3730	370
	E180-1/2-14	14		8-1/4	5-1/4	16	4'	4750	445
	E180-1/2-16	16		10-3/8	5-3/4	19	4'	5750	740
	E180-1/2-18	18		10-3/8	5-3/4	19	4'	6610	790
	E180-1/2-20	20		12-1/2	6-1/2	19	6'	5350	1080
1	E180-1-8	8	EF-1	8-1/4	5-1/4	16	4'	4745	335
	E180-1-10	10		10-3/8	5-3/4	19	5'	5000	645
	E180-1-12	12		10-3/8	5-3/4	19	5'	6040	695
	E180-1-14	14		10-3/8	5-3/4	19	5'	7080	745
	E180-1-16	16		12-1/2	6-1/2	19	6'	7330	950
	E180-1-18	18		16-1/8	7	19	6'	8645	1165
	E180-1-20	20		16-1/8	7	19	6'	9515	1250
2	E180-2-8	8	EF-2	12-1/2	6-1/2	21	4'	9455	585
	E180-2-10	10		12-1/2	6-1/2	21	4'	12210	650
	E180-2-12	12		12-1/2	6-1/2	21	4'	15000	715
	E180-2-14	14		16-1/8	7	23	5'	14500	1065
	E180-2-16	16		18-1/8	7-1/2	23	6'	14255	1375
	E180-2-18	18		18-1/8	7-1/2	23	6'	16300	1485
	E180-2-20	20		21	6-1/2	23	6'6"	17300	1870
3	E180-3-8	8	EF-3	16-1/8	7	22-1/2	4'	14105	775
	E180-3-10	10		16-1/8	7	22-1/2	4'	18210	865
	E180-3-12	12		16-1/8	7	22-1/2	6'	14925	1075
	E180-3-14	14		16-1/8	7	22-1/2	6'	17720	1165
	E180-3-16	16		18-1/8	7-1/2	30-1/2	6'6"	19210	1680
	E180-3-18	18		21	6-1/2	30-1/2	7'6"	19205	2060
	E180-3-20	20		24-1/2	9	30-1/2	9'6"	17400	2680
5	E180-5-8	8	EF-3	18-1/8	7-1/2	30-1/2"	6'6"	14400	1240
	E180-5-10	10		18-1/8	7-1/2	30-1/2"	6'6"	18550	1350
	E180-5-12	12		18-1/8	7-1/2	30-1/2"	6'6"	22730	1460
	E180-5-14	14		21	6-1/2	30-1/2"	7'6"	23500	1800
	E180-5-16	16		24-1/2	9	30-1/2"	9'6"	21720	2360

* The total of hoist and trolley not to exceed 15% of rated capacity.

** This dimension must be held exactly.

◆ Thrust and Pull MUST be reviewed and approved prior to crane installation.

Jib Cranes with an L dimension of 6'6" or less are welded and shipped as a one piece. Jibs Cranes with an L dimension of 7'6" or more are have a bolted connection and are shipped in two pieces.

Hoists



Model MM, ME, and EE - Standard Hoist Packages

- **Capacity Range:** 1/8 to 8 ton.
- **Power Supply:** 208-230/460V-3-60 (others are available).
- **Control Voltage:** 110V.
- **Classifications:** ASME H4, ISO-M5 or M4, FEM-2m or 1Am.

PRODUCT FEATURES:

- Heavy duty design.
- Upper and lower limit switch.
- Thermal protected fan cooled motor.
- Bottom swivel hook with safety latch.
- Chain container.
- Ergonomically designed push button station.

SPECIFICATIONS - When ordering please specify flange range A or B - for example: ME-3-10-A.

	Manual Trolley / Manual Hoist			Dimensions (in.)	Manual Trolley / Electric Hoist			Dimensions (in.)	Flange Range (in.)*	
									A	B
Capacity (tons)	1/4			D - 7.2 C - 0.7 G - 1.1	1/4			D - 7.2 C - 0.9 G - 1.1	Models MM and ME	
Lift (ft.)	10	15	20		10	15	20			
Model Number	MM-1/4-10	MM-1/4-15	MM-1/4-20		ME-1/4-10	ME-1/4-15	ME-1/4-20			
Weight (lbs.)	35	40	45		71	73	74			
Speeds	N/A		N/A		hoist 36 fpm					
Headroom (in.)	16.1			15.6						
Capacity (tons)	1/2			D - 7.2 C - 0.7 G - 1.1	1/2			D - 7.2 C - 0.9 G - 1.1	Models MM and ME	
Lift (ft.)	10	15	20		10	15	20			
Model Number	MM-1/2-10	MM-1/2-15	MM-1/2-20		ME-1/2-10	ME-1/2-15	ME-1/2-20			
Weight (lbs.)	35	40	45		82	85	88			
Speeds	N/A		N/A		hoist 15 fpm					
Headroom (in.)	16.1			16.3						
Capacity (tons)	1			D - 9.3 C - 0.9 G - 1.1	1			D - 9.3 C - 1.2 G - 1.2	Models MM and ME	
Lift (ft.)	10	15	20		10	15	20			
Model Number	MM-1-10	MM-1-15	MM-1-20		ME-1-10	ME-1-15	ME-1-20			
Weight (lbs.)	47	53	59		121	126	130			
Speeds	N/A		N/A		hoist 14 fpm					
Headroom (in.)	18.3			18.5						
Capacity (tons)	2			D - 11.0 C - 1.2 G - 1.4	2			D - 11.0 C - 1.7 G - 1.5	Models MM and ME	
Lift (ft.)	10	15	20		10	15	20			
Model Number	MM-2-10	MM-2-15	MM-2-20		ME-2-10	ME-2-15	ME-2-20			
Weight (lbs.)	78	87	96		190	198	206			
Speeds	N/A		N/A		hoist 14 fpm					
Headroom (in.)	24.8			20.5						
Capacity (tons)	3			D - 12.8 C - 1.5 G - 1.7	3			D - 12.8 C - 1.9 G - 1.7	Models MM and ME	
Lift (ft.)	10	15	20		10	15	20			
Model Number	MM-3-10	MM-3-15	MM-3-20		ME-3-10	ME-3-15	ME-3-20			
Weight (lbs.)	114	125	135		311	323	334			
Speeds	N/A		N/A		hoist 16 fpm					
Headroom (in.)	29.5			27.8						
Capacity (tons)	5			D - 13.7 C - 1.9 G - 1.8	5			D - 15.7 C - 2.2 G - 1.9	Model MM	
Lift (ft.)	10	15	20		10	15	20		4.92-7.02	7.03-12.00
Model Number	MM-5-10	MM-5-15	MM-5-20		ME-5-10	ME-5-15	ME-5-20		Model ME	
Weight (lbs.)	184	199	213		399	418	437			
Speeds	N/A		N/A		hoist 11 fpm				3.94-7.02	7.03-12.00
trolley 40 fpm	hoist 11 fpm		G - 1.9							
Capacity (tons)	8			D - 19.4	8			D - 18.9	Models MM and ME	
Lift (ft.)	10	15	20		10	15	20			
Headroom (in.)	27.7				35.4					
Headroom (in.)	33.1									
Capacity (tons)	8									
Lift (ft.)	10	15	20							
Headroom (in.)	10	15	20							

Top Hook Hoist for easy trolley mounting.
Hand chain with drop is 18" less than lift.

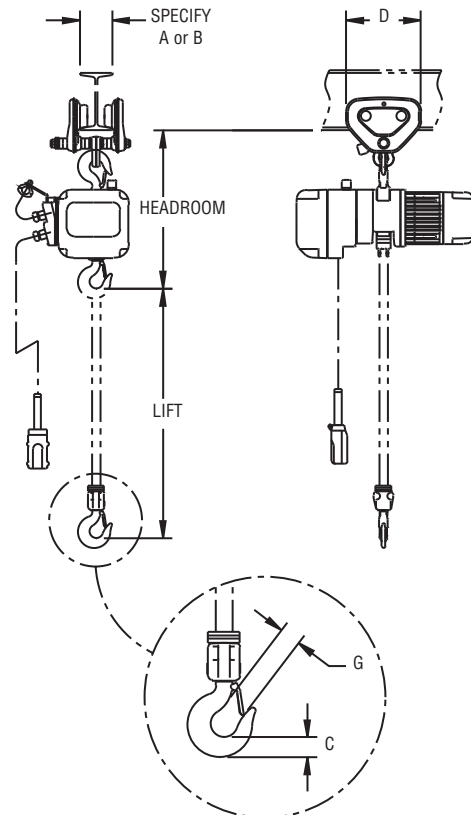
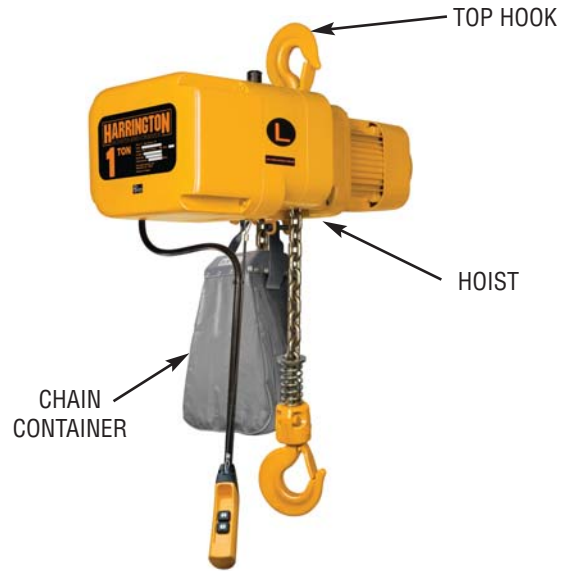
Top Hook Hoist for easy trolley mounting, includes push button pendant control (2 buttons) with 15ft. power cord standard on 1/4 to 5 ton models. 30 ft. power cord standard on 8 ton models with cable hangers every 5 ft.

Hoists

PRODUCT OPTIONS:

- **Additional Power Cord Length** - specify total length required.
- **Tag Line Kit** - for up to 30' beam length.
- **Tag Line Brackets**

QUICKSHIP PROGRAM



Electric Trolley / Electric Hoist			Dimensions (in.)	Flange Range (in.)*	
				A	B
1/4			D - 12.4 C - 0.9 G - 1.1	Model EE only	
10	15	20		2.28-5.00	5.01-6.02
EE-1/4-10	EE-1/4-15	EE-1/4-20			
128	130	131			
trolley 40 fpm	hoist 36 fpm				
14.8					
1/2			D - 12.4 C - 0.9 G - 1.1	Model EE only	
10	15	20		2.28-5.00	5.01-6.02
EE-1/2-10	EE-1/2-15	EE-1/2-20			
139	142	145			
trolley 40 fpm	hoist 15 fpm				
15.6					
1			D - 15.6 C - 1.2 G - 1.2	Model EE only	
10	15	20		2.28-5.00	5.01-6.02
EE-1-10	EE-1-15	EE-1-20			
170	175	179			
trolley 40 fpm	hoist 14 fpm				
17.1					
2			D - 12.8 C - 1.7 G - 1.5	Model EE only	
10	15	20		3.23-6.02	6.03-7.02
EE-2-10	EE-2-15	EE-2-20			
245	253	261			
trolley 40 fpm	hoist 14 fpm				
22.4					
3			D - 17.4 C - 1.9 G - 1.7	Model EE only	
10	15	20		3.23-6.02	6.03-7.02
EE-3-10	EE-3-15	EE-3-20			
362	374	385			
trolley 40 fpm	hoist 16 fpm				
25.4					
5			D - 15.8 C - 2.2	Model EE only	
10	15	20		3.94-7.01	7.02-7.60
EE-5-10	EE-5-15	EE-5-20			
443	462	481			
			Model EE only		
			5.50-8.66	8.67-12.00	

Includes push button pendant control (5 buttons) with 30 ft. power cord standard and cable hangers every 5 feet.

* When ordering please specify flange range A or B.

Hoists

Model HSN - Electric Chain Hoist

PRODUCT FEATURES:

- Heavy duty design.
- Extreme duty motor.
- Upper limit switch.
- Fan cooled motor.
- Lightweight aluminum body.

- **Capacity Range:** 1/4 to 3 ton.
- **Control Voltage:** 110V.
- **Power Supply:** 115/230-1-60.
- **Classifications:** ASME H4, ISO M5 or M4, FEM 2M or 1Am.

SPECIFICATIONS

Model Number	Capacity (lbs.)	Lift (ft.)	Speed (ft./min.)	Headroom (in.)	Weight (lbs.)
HSN-1/4-10-S	500	10	14	13.8	82
HSN-1/2-10-L	1000	10	7	14.0	84
HSN-1/2-10-S	1000	10	15	14.6	104
HSN-1-10-L	2000	10	7	16.1	110
HSN-1-10-S	2000	10	14	17.3	159
HSN-2-10-L	4000	10	7	22.6	174
HSN-3-10-C	6000	10	3.5	29.5	207

PRODUCT OPTIONS:

- **Extra Lift** - specify total lift required.
- **Additional Power Cord Length** - specify total length required.
- **Additional Pendant Length** - specify total length required.
- **Chain Container**



Hoists

Model HED - Electric Chain Hoist



Single Speed
with Standard
Chain Container

PRODUCT FEATURES:

- Low headroom design.
- Heavy duty motor.
- Double braking system.
- Lightweight aluminum body.
- Single chain fall, through 525 pounds.

- **Capacity Range:** 125 to 1050 pounds.
- **Control Voltage:** 120V direct.
- **Power Supply:** 120-1-60.
- **Classifications:** ASME H2.

SPECIFICATIONS - Single Speed

Model Number	Capacity (lbs.)	Lift (ft.)	Speed (ft./min.)	Headroom (in.)	Weight (lbs.)
HED-125-10-S	125	10	69	12.4	23
HED-220-10-S	220	10	43	12.4	23
HED-250-10-S	250	10	26	12.4	24
HED-350-10-S	350	10	66	13.0	33
HED-400-10-S	400	10	26	12.4	24
HED-525-10-S	525	10	44	13.0	33
HED-1050-10-S	1050	10	22	20.5	46



Dual Adjustable
Speed with Standard
Chain Container

SPECIFICATIONS - Dual Speed

Model Number	Capacity (lbs.)	Lift (ft.)	Speed (ft./min.)	Headroom (in.)	Weight (lbs.)
HED-125-10-DS	125	10	69/13	12.4	24
HED-220-10-DS	220	10	43/10	12.4	24
HED-250-10-DS	250	10	26/10	12.4	25
HED-350-10-DS	350	10	66/13	13.0	34
HED-400-10-DS	400	10	26/10	12.4	25
HED-525-10-DS	525	10	44/10	13.0	34
HED-1050-10-DS	1050	10	22/6	20.5	47

SPECIFICATIONS - Dual Adjustable Speed

Model Number	Capacity (lbs.)	Lift (ft.)	Speed (ft./min.)	Headroom (in.)	Weight (lbs.)
HED-125-6-DA	125	6	69/13	37.2	31
HED-220-6-DA	220	6	43/10	37.2	31
HED-250-6-DA	250	6	26/10	37.2	32
HED-350-6-DA	350	6	66/13	37.8	40
HED-400-6-DA	400	6	26/10	37.2	32
HED-525-6-DA	525	6	44/10	37.8	40

PRODUCT OPTIONS:

- **Extra Lift** - specify total lift required.
- **Additional Power Cord Length** - specify total length required.
- **Additional Pendant Length** - specify total length required.
- **Chain Container** - for longer lifts.

Hoists

Model HAH - Mini Air Hoist



Pendant Control
with Optional
Chain Container



Cord Control



Manipulator Control
with Standard
Chain Container

PRODUCT FEATURES:

- Unlimited duty cycle.
- High lifting speeds.
- Low noise levels.
- Lightweight and compact body.
- Disc motor brake system.
- Pendant, cord, or manipulator controlled.

- **Capacity Range:** 250 - 500 pounds.
- **Air Supply Required:** 19-34 CFM at 60-90 PSI.
- **Air Lubrication:** Minimum 10 to 15 drops of oil per minute.
- **Air Filtration:** Maximum 5 micron air filter or finer.
- **Air Inlet Port:** 3/8" NPT.

SPECIFICATIONS - Pendant Control

Model Number	Capacity (lbs.)	Lift (ft.)	at 90 psi				Headroom (in.)	Weight (lbs.)
			Speed Up (ft./min.)		Speed Down (ft./min.)			
			Full Load	No Load	Full Load	No Load		
HAH-1/8-10-P	250	10	42	55	48	43	12.0	19
HAH-1/4-10-P	500	10	29	55	53	43	12.0	19

SPECIFICATIONS - Cord Control

Model Number	Capacity (lbs.)	Lift (ft.)	at 90 psi				Headroom (in.)	Weight (lbs.)
			Speed Up (ft./min.)		Speed Down (ft./min.)			
			Full Load	No Load	Full Load	No Load		
HAH-1/8-10-C	250	10	47	61	51	45	12.0	15
HAH-1/4-10-C	500	10	32	61	56	45	12.0	15

SPECIFICATIONS - Manipulator Control

Model Number	Capacity (lbs.)	Lift (ft.)	at 90 psi				Headroom (in.)	Weight (lbs.)
			Speed Up (ft./min.)		Speed Down (ft./min.)			
			Full Load	No Load	Full Load	No Load		
HAH-1/8-10-M	250	6.5	41	54	47	42	33.0	24
HAH-1/4-10-M	500	6.5	29	54	53	42	33.0	24

PRODUCT OPTIONS:

- **Extra Lift** - specify total lift required.
- **Additional Pendant Length** - specify total length required.
- **Chain Container** - for pendant and cord control models.

Hoists

Model HTC - Air Hoist



Pendant Control

PRODUCT FEATURES:

- Unlimited duty cycle.
 - High lifting speeds.
 - Low noise levels.
 - Lightweight and compact body.
 - Disc motor brake system.
 - Pendant or cord controlled.
-
- **Capacity Range:** 250 - 2000 pounds.
 - **Air Supply Required:** 19-34 CFM at 60-90 PSI.
 - **Air Lubrication:** Minimum 10 to 15 drops of oil per minute.
 - **Air Filtration:** Maximum 5 micron air filter or finer.
 - **Air Inlet Port:** 3/8" NPT.

SPECIFICATIONS - Pendant Control

Model Number	Capacity (lbs.)	Lift (ft.)	at 90 psi				Headroom (in.)	Weight (lbs.)
			Speed Up (ft./min.)		Speed Down (ft./min.)			
			Full Load	No Load	Full Load	No Load		
HTC-1/4-10-P	500	10	121	207	197	125	16.3	42
HTC-1/2-10-P	1000	10	60	108	108	62	16.3	42
HTC-1-10-P	2000	10	30	54	54	31	17.9	55

SPECIFICATIONS - Cord Control

Model Number	Capacity (lbs.)	Lift (ft.)	at 90 psi				Headroom (in.)	Weight (lbs.)
			Speed Up (ft./min.)		Speed Down (ft./min.)			
			Full Load	No Load	Full Load	No Load		
HTC-1/4-10-C	500	10	121	207	197	125	16.3	40
HTC-1/2-10-C	1000	10	60	108	108	62	16.3	40
HTC-1-10-C	2000	10	30	54	54	31	17.9	53

Hoists

Model BFC - Beam Flange Clamps



OPTION LB
Large Bail



PRODUCT FEATURES:

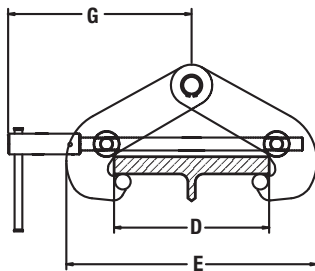
- Rated load capacities from 1 to 10 metric tons.
- Proof test with certificate.
- Lightweight and portable design.
- Left-hand thread and right-hand thread screw spindle allows for rapid clamping and unclamping.
- Lock nut prevents inadvertent loosening of clamp.
- Jaw opening adjusts to a wide range of beam types and flange widths.
- Use only for vertical loading.
- Built-in suspension pin provides lower headroom.
- Powder coated finish.
- Available with Large Bail option for oversized hoist hooks.
- 5:1 design factor meets portions of ASME B30.16.
- Complies with ASME B30.20 and BTH-1 standards.



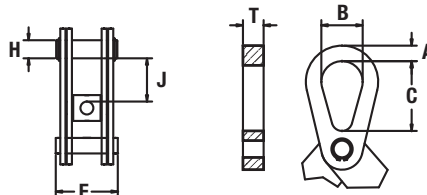
SPECIFICATIONS

Model Number	Rated Capacity (lbs.)	Dimensions (inches)													Weight (lbs.)
		D		E	F	G	H Diameter	J	Option LB				HR Headroom (in.)		
		Min.	Max.	Max.					A	B	C	T	@ Man. D	@ Mix. D	
BFC-1	2200	3.00	7.50	12.25	3.00	9.25	0.88	2.10	0.75	2.00	2.00	0.63	3	5	8
BFC-2	4400	3.00	7.50	12.25	3.00	9.25	0.88	2.10	0.75	2.00	2.00	0.63	3	5	9
BFC-3	6600	6.00	12.00	19.75	4.25	11.00	1.25	2.38	1.00	2.50	2.50	1.00	4.5	7.5	19
BFC-5	11000	6.00	12.00	19.75	4.25	11.00	1.25	2.38	1.00	2.50	2.50	1.00	4.5	7.5	22
BFC-10	22000	6.00	13.25	22.50	6.00	14.63	1.75	4.65	1.38	3.75	6.25	1.25	7.5	10.25	50

NOTE: Weights are for clamp only.



OPTION LB - Large Bail



Applications



Allows for the capability of hanging hoists or rigging from an overhead load bearing structure.

INSTALLATION

Jibs and Gantries shall be assembled and installed in accordance with the manufacturer's instructions, unless other specific arrangements have been approved in writing by manufacturer. All freestanding cranes need to be properly anchored to an adequately sized foundation. Caldwell's recommendations are based upon a soil pressure of 2,500 pounds per square foot and 3,000 pounds per square inch compressive concrete. Our recommendations are subject to approval of local engineering and building codes where required. All column and mast type cranes impose Thrust and Pull loadings on building structures. These loadings must be reviewed and approved prior to crane installation.

OPERATOR TRAINING

Jibs and Gantries shall be operated in accordance with manufacturer's instruction manual, and by personnel who have received instructions described in the "Operating Practices" section of these guidelines.

Training shall also include instructions regarding:

1. Details of the lifting cycle.
2. Application of the jib and gantry to the load including (according to the manufacturer's instructions) adjustments to the hoist, if any, to adapt it to various sizes and kinds of loads.
3. Instruction in any special operations or precautions that may be required.
4. Recognition of proper load configuration. For example, preferred operation requires an orderly pattern of stacking.
5. Before assuming responsibility for using the Jib or Gantry an operator shall demonstrate his understanding of the lifting procedure to the instructor. The instructor should record notes of operator's demonstrated ability.

INSPECTION

The Jib or Gantry shall be visually inspected by or under the direction of an appointed person on a daily or weekly schedule depending on the nature of the application and the severity of the service.

Details to look for include, but are not limited to:

1. Structural deformation.
2. Cracks in the structural frame, welds, attachment points, mechanically operating parts, any attached lifting devices, clevises and hooks.
3. Malfunctions during operation of mechanically operating parts.
4. Loose covers, fasteners and stops.
5. Faulty operation of push button controls.
6. Wear of hoist parts, travel path, load support beams.
7. Missing nameplates and markings. Contact Caldwell for replacement.

MAINTENANCE AND REPAIRS

1. A preventive maintenance program shall be established for each jib and gantry by a qualified person based on recommendations made by its manufacturer.
2. A qualified person should have responsibility for repairs. Dated records and details of repairs and parts replacement should be carefully maintained by a qualified person, and copies kept in your possession.
3. Replacement parts shall be at least equivalent to the original manufacturer's specifications.

OPERATING PRACTICES

DO'S

1. The operator shall receive, read and understand the manufacturer's instruction manual.
2. The operator shall watch carefully that the jib or gantry is performing properly during the lifting procedure.
3. The operator shall know the standard crane hand signals.
4. The operator shall only respond to signals from an appointed person. However, stop signals from anyone shall be obeyed.
5. The operator shall notify a designated person when he considers a load to be unsafe.
6. The operator shall inspect the jib or gantry before using. Any defect observed shall be examined by a qualified person to determine if it is a hazard.

DON'TS

1. The operator shall not operate a malfunctioning jib or gantry, or one with an "out of service" tag attached.
2. The operator shall not use the jib or gantry for any purpose(s) other than those designated by the manufacturer's instruction manual.
3. The operator shall not use the jib or gantry when the capacity, weight or safety labels are missing or not legible.
4. No one shall make alterations or modifications to the jib or gantry without consulting the manufacturer.
5. No one shall obscure or paint over the manufacturer's capacity, weight, or safety markings.
6. Loads shall not be lifted higher than necessary or be left suspended unattended.
7. The jib or gantry shall not lift a load that is not properly balanced for safe lifting.

HANDLING THE LOAD

1. The combined weight of the load shall not exceed the rated load of the jib/gantry or hoist.
2. The jib or gantry shall be applied to the load in accordance with the manufacturer's recommended operating procedure.
3. Hoist ropes and chains shall not be kinked, and multiple part lines shall not be twisted about each other.
4. The jib or gantry shall not touch obstructions during load movement.
5. The jib or gantry shall not be loaded with loose material that might fall during movement.
6. The operator or other personnel shall not place themselves or any part of their bodies beneath suspended loads.
7. The jib and gantry shall not be used for loads for which it is not designed.
8. If suspended loads are moved manually, they shall be pushed, not pulled.
9. A preliminary lift of a few inches shall be made to establish that the load is stable.
10. All loads shall be accelerated and decelerated smoothly and slowly.

Modifications or repairs performed on your lifting equipment without prior written approval from The Caldwell Group, Inc. voids your warranty. Refer to ASME standards for information regarding the liability of repaired or modified lifters.



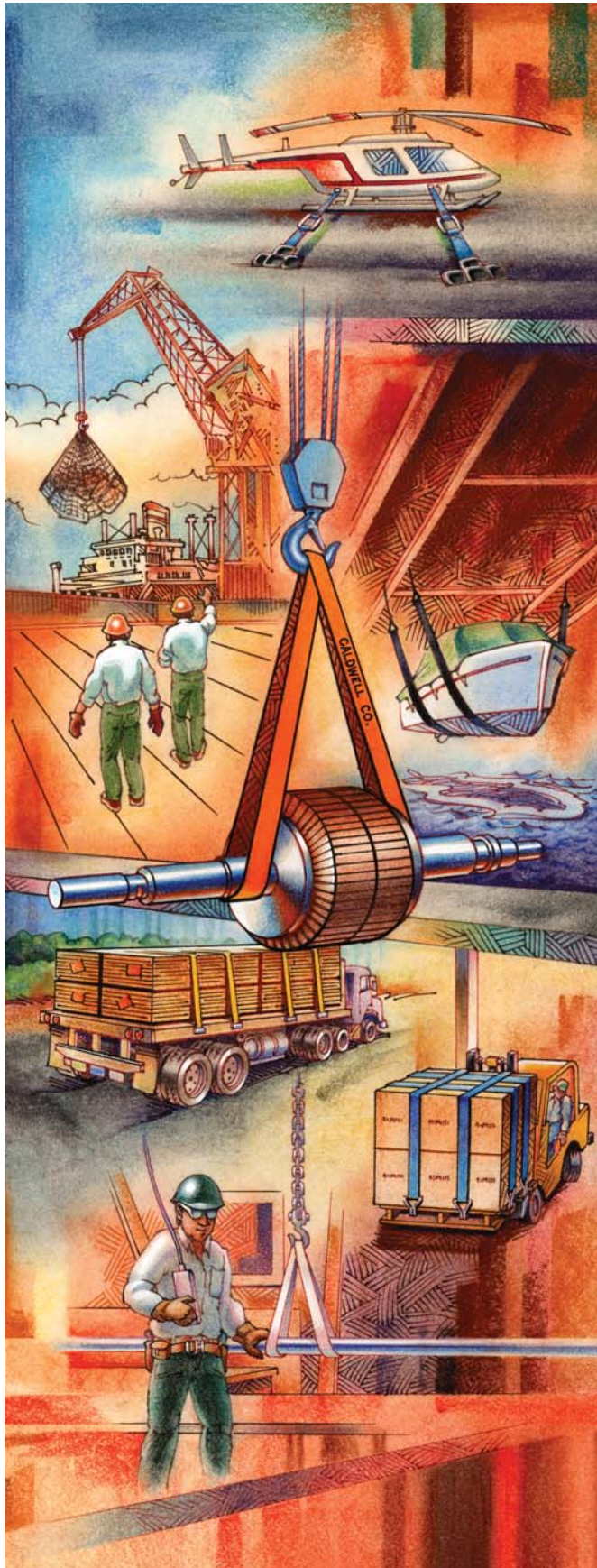
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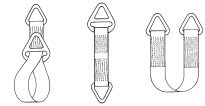
CALDWELL®

Slings & Tie Downs



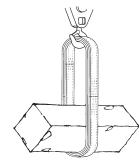
Standard Web Slings

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Special Application Web Slings

Pages I.10 - I.18



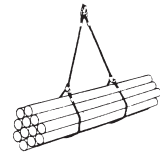
Roundslings

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Wire Rope Slings

Pages I.22 - I.25



Alloy Chain Slings

Pages I.26 - I.31



Wire Mesh Slings

Pages I.32 - I.33



Cargo Tie Downs

Pages I.34 - I.41



Introduction to Caldwell® Slings & Tie Downs

The Caldwell Group has been manufacturing quality lifting equipment since 1954. It is our goal to manufacture high quality, long lasting products that will safely increase productivity.

Lifts can be large or small; heavy or light; bulky or fragile, applications of lifting slings are truly unlimited. Our synthetic slings can lift items that require careful handling such as expensive machinery, highly finished parts, and fragile loads. Our Wire Mesh, Rope and Chain Slings can handle pipe, steel, wood or any item that is not finished.

How To Use This Section

Please take a few moments to read the following pages. The information contained in these pages will help you in selecting the best sling for your application. Our inside sales department is also available to aid in selecting the correct sling for the applications or answer any questions you may have.

Why Caldwell?

Product safety and reliability are important. This is why Caldwell slings meet or exceed current ASME, WSTDA, and OSHA standards.

All Caldwell® Lifting Slings Have:

- Care and use information provided with every sling.
- Registered Tags.
- Product Safety Labels.

Caldwell Standard Quality

Caldwell slings follow specific design criteria as required by ASME. See the specific sling type within this section for details on that specific type of sling. If you would like your sling proof tested and a test certificate issued, please specify at the time of order (there is a nominal charge).

Caldwell Delivery Programs

The Caldwell Group offers two quick delivery programs, INSTOCK and QUICKSHIP.



Look for the **green INSTOCK** logo on our standard products. The specific **INSTOCK** model number is shown in **green**. **INSTOCK** products ship in 48 hours.*



Look for the **red QUICKSHIP** logo on our standard products. The specific **QUICKSHIP** model number is shown in **red**. **QUICKSHIP** products ship in 7 to 10 days.*

* Excluding weekends and holidays.

Standard Web Slings - These lightweight and easy to use slings are best used in situations when the loads need to be protected from damage, or a flexible sling is required for easy rigging. Type 1 through 6, including Unilink®.

Special Application Slings - Each sling is designed for a specific application. Cargo Slings, Bridle Slings; Drum Handling, Pipe Lifting Slings, and Wheel Nets.

Roundslings - These lightweight synthetic slings are super flexible to conform to the shape of your load. Double jacket protection increases sling life. Color-coded by capacity for easy identification on the job site.

Wire Rope Slings - The most economical sling per ton of lift. Provides the strength and sturdiness required for lifting those tough loads. Used in industries where heavy loads and rugged conditions exist. Many configurations are available with a variety of end fittings.

Alloy Chain Slings - Superior strength slings, ease of handling and durability. Used in environments having severe lifting conditions such as foundries, steel mills, and heavy machining operations. Chain slings provide the longest sling life in conditions commonly seen in these environments.

Wire Mesh Slings - Widely used in metalworking machine shops and other industries where loads are abrasive, hot or have sharp edges, such as bar stock or plate steel. Mesh slings grip the load firmly without stretching, and the sling width greatly enhances load balancing.

Cargo Tie Downs - Can satisfy just about every cargo securing requirement. High strength webbing is available from 1" to 4" wide with a large assortment of end fittings, tighteners and optional accessories.



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Caldwell® Section
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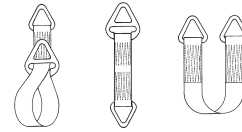
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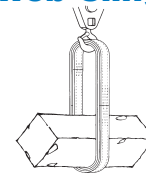
Standard Web Slings

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Special Application Web Slings

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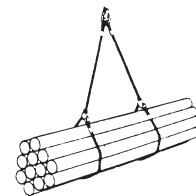
Roundslings

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Wire Rope Slings

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Alloy Chain Slings

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Wire Mesh Slings

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Cargo Tie Downs

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PRODUCT FEATURES

Shock Absorption

The stretching of web slings allows a cushion against sudden shock. When loaded at rated capacity, a nylon sling will stretch 6-8%. Slings will return to normal length when not loaded.

Registered Sling With Tag

Caldwell® Slings have a registered tag in accordance with industry standards indicating:

1. Manufacturer
2. Type Material—nylon or polyester
3. Serial No.
4. Rated Capacities

Caldwell® Web Slings are marked to show:


Rated Capacity (RC) by hitch

- Choker (C)
- Vertical (V)
- Basket (B)

5. Length of Sling

Warning Tag

Caldwell® Slings have a warning tag:



⚠ WARNING

Can fail if damaged, misused or overloaded. Inspect before use. Use only if trained. Observe rated load. Avoid sharp edges and exposure to acid, alkali, sunlight and temperatures over 194° F. DEATH OR INJURY can occur from improper use or care.

Certification Of Web Slings

1. A Caldwell letterhead certification guaranteeing rated capacities and/or adherence to specifications is available upon request at no additional charge.
2. Proof testing services are available upon request (there is a nominal charge).

SLING WEBBING

Web Material — Soft And Flexible

Web slings are made from nylon or polyester lifting yarn that is woven into various widths and thicknesses. Sling webbing has its surface yarns connected from side to side, which not only protects the core yarns, but positions all surface and tensile yarns to work together to support the load.

Webbing Strength

The WSTDA and ASME (standard B30.9) recognizes two strengths of webbing:

1. Heavy Duty —webbing possessing minimum certified tensile strength in accordance with industry standards.
2. Medium Duty —webbing possessing a minimum certified tensile strength in accordance with industry standards.

Warning Core

Colored yarns under the jacket yarn show when the sling is worn or cut through, indicating the sling shall be removed from service and destroyed. Hardware can be retained and reworked if still in acceptable condition.

Chemical Exposure

Many chemicals have an adverse effect on sling material.

	Acid	Alcohol	Aldehydes	Strong Alkalis	Bleaching Agents	Dry Cleaning Solvents	Ethers	Halogenated Hydrocarbons	Hydrocarbons	Ketones	Oil, Crude	Oil, Lubricating	Soaps, Detergents	Water, Seawater	Weak Alkalis
NYLON	NO	OK	OK	OK	NO	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
POLYESTER	*	OK	NO	**	OK	OK	NO	OK	OK	OK	OK	OK	OK	OK	OK

* Disintegrated by concentrated sulphuric acid.

** Degrade by strong alkalis at elevated temperatures.

Industry Standards That Affect Web Slings:

1. American Society of Mechanical Engineers - ASME B30.9 Standards for Slings.
2. Occupational Safety Health Administration - 1910.184 Standards for Slings.
3. Web Sling and Tie Down Association - Recommended Standard Specification for Synthetic Web Slings.

Standard Web Slings

How To Order Caldwell® Web Slings

SLING SELECTION

Select a sling having suitable characteristics for the type of load, hitch and environment to which it will be subjected.

1. Sling Capacity

Determine weight of the load.

2. Sling Type

Select a sling of suitable design for the type of hitch to be used. Where there is no reason to use another type, an endless type is recommended. The endless type is more economical and gives longer service life because of wear rotation.

3. Sling Width

If width is not a consideration because of load crushing or other reasons, use the narrowest sling that is rated to handle the load. Generally, a narrower sling is more economical.

4. Sling Length

Choker slings with metal end fittings must be of sufficient length to assure that choking action is on the webbing. Basket hitch slings must be of sufficient length to prevent overstressing of sling legs due to high sling leg angles.

5. Sling Body Ply

Body ply indicates the number of web thicknesses in the body of a sling. A rule of thumb is that for a given sling you can double the rated capacity by doubling the plies.

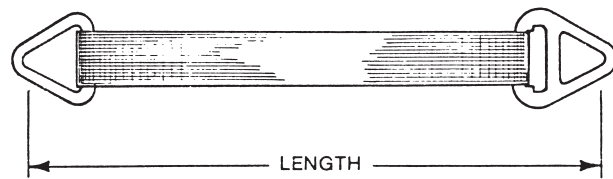
6. Accessories

Use accessories to solve specific sling problems. Refer to the table below and accessories on page I.17.

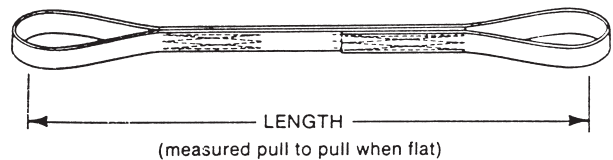
HOW TO ORDER

Specify:

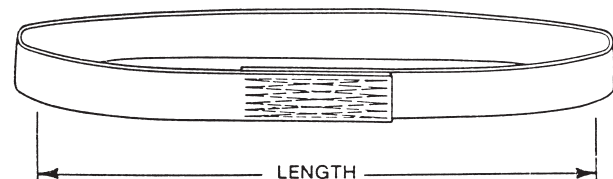
1. Model Number (see example below)
2. Length (pull to pull)
3. Accessories: (if applicable)
 - A. Accessory order code (if applicable)
 - B. Accessory length (if applicable)
 - C. Position on sling (if applicable)



Type I & II



Type III & IV

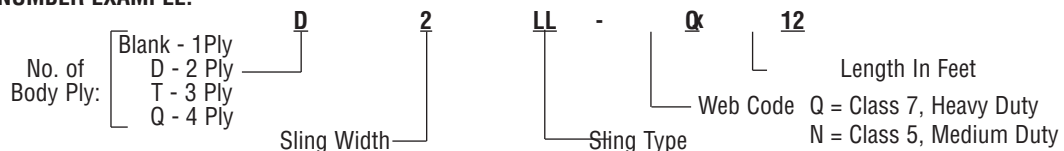


Type V

Trouble Spots	Suggestions
Wear in eyes of sling	A. Use Type I, II or Unilink® Slings B. Wear pad sewn in eye
Wear in body	A. Use Type VI sling B. If one particular spot-use wear pad C. If all over body use boot - may buy extra boots to save sling D. Sling Guard coating

Trouble Spots	Suggestions
Small cuts and wear on body edges	A. Use boot B. Use edgeguard
Slipping grip due to oil and grease and/or dirt penetrating fibers and causing degradation	A. Sling Guard coating

MODEL NUMBER EXAMPLE:



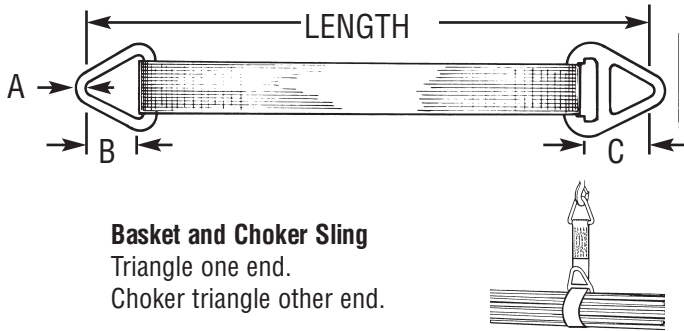
Standard Web Slings

Type I: Basket and Choker Slings

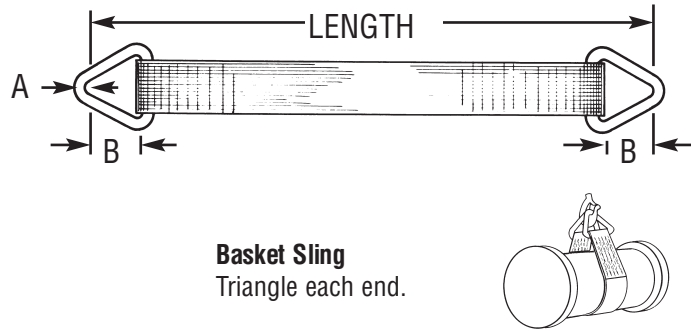
QUICKSHIP PROGRAM

Type II: Basket Slings

Type TC or UU



Type TT



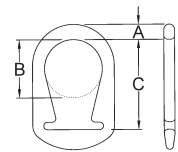
Unilink® Dimensions

End Fittings: Increase the life of web slings and fit on smaller crane hooks better than web eyes.

Standard Steel End Fittings: Plated, alloy steel end fittings are furnished on Type 1 or 2 slings.

Optional Aluminum End Fittings: Forged aluminum end fittings are available for single ply slings, widths 2" - 6".

Unilink® End Fittings: Functions as both triangle and choker.



NOTE: Chart below shows Model Number for Type I (TC) Slings. For Type II Slings, change TC to TT (triangle at each end).
Example: For Model No. 2TC-Q, change to 2TT-Q for a Type II Sling.

Sling Width Web (in.)	Min. Sling Length (ft.)	No. of Body Ply	Heavy Duty Nylon			Model No. (specify length)	Medium Duty Nylon			Model No. (specify length)	End Fitting Dimensions (inches)		
			Rated Capacity (lbs.) By Hitch				Rated Capacity (lbs.) By Hitch				Triangle		Choker
			Choker	Vertical	Basket		Choker	Vertical	Basket		A	B	C
2	3	1	2500	3200	6400	2TC-Q	1900	2400	4800	2TC-N	5/8	1-3/4	5
	3	2	5000	6400	12800	D2TC-Q	3800	4800	9600	D2TC-N			
3	3	1	3800	4800	9600	3TC-Q	2900	3600	7200	3TC-N	3/4	2	6-1/4
	3	2	6900	8600	17200	D3TC-Q	5200	6500	13000	D3TC-N			
4	4	1	5000	6400	12800	4TC-Q	3800	4800	9600	4TC-N	13/16	2-3/8	7
	4	2	9200	11500	23000	D4TC-Q	6900	8600	17200	D4TC-N			
6	4	1	7700	9600	19200	6TC-Q	5800	7200	14400	6TC-N	1-1/16	3-1/8	9-1/2
	4	2	13400	16800	33600	D6TC-Q	10100	12600	25200	D6TC-N			
8	5	1	10200	12800	25600	8TC-Q	--	--	--	--	1-1/4	4	11-1/4
	5	2	17900	22400	44800	D8TC-Q	--	--	--	--			
10	5	1	12800	16000	32000	10TC-Q	--	--	--	--	1-7/16	5	12-7/8
	5	2	22400	28000	56000	D10TC-Q	--	--	--	--			
12	6	1	15400	19200	38400	12TC-Q	--	--	--	--	1-3/4	5-1/2	14-1/2
	6	2	26800	33600	67200	D12TC-Q	--	--	--	--			

Type UU Unilink® Hardware Slings

2	3	1	2500	3200	6400	2UU-Q	1900	2400	4800	2UU-N	11/16	2	3-11/16
	3	2	5000	6400	12800	D2UU-Q	3800	4800	9600	D2UU-N			
3	3	1	3800	4800	9600	3UU-Q	2900	3600	7200	3UU-N	7/8	3	5-1/16
	3	2	6900	8600	17200	D3UU-Q	5200	6500	13000	D3UU-N			
4	4	1	5000	6400	12800	4UU-Q	3800	4800	9600	4UU-N	1	4	6-3/16
	4	2	9200	11500	23000	D4UU-Q	6900	8600	17200	D4UU-N			

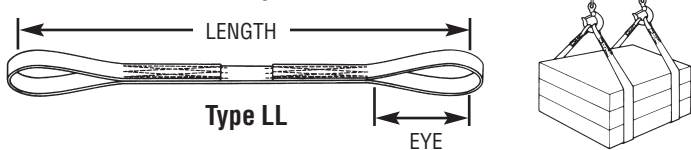
Standard Web Slings

Type III: Eye and Eye Slings

**QUICKSHIP
PROGRAM**

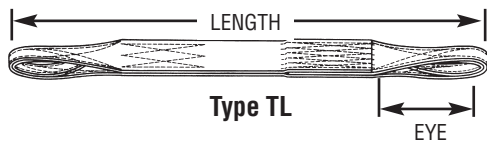
Type IV: Turned Eye Slings

An eye (or loop) at each end makes this type of sling ideal for use in a basket hitch. It can also be used in a choker hitch by passing one eye around the load and through the opposite eye. On multi-ply slings, the bodies are stitched full length.

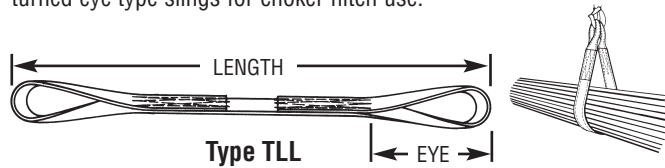


Eye and Eye Slings with Tapered Eyes

Tapered eyes permit the use of wide slings on small crane hooks. Eye lengths other than the standards listed here are available. Please specify.

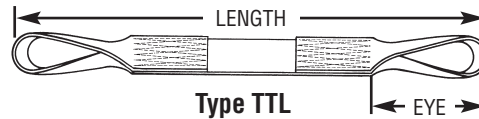


On slings with turned eye construction, the eye openings are on the same plane as the flat webbing. This design better adapts turned eye type slings for choker hitch use.



Turned Eye Slings with Tapered Eyes

Tapered eyes permit the use of wide slings on small crane hooks. Turned eye slings with tapered eyes are well adapted for both basket and choker hitches.



NOTE: Chart below shows Model Number for Type III (LL or TL) Slings. For Type IV Slings, change LL to TLL or change TL to TTL. Example: For Model No. 2LL-Q, change to 2TLL-Q for a Type IV Sling.

Tapering

As a standard practice, the eyes of Types III and IV slings are tapered to accommodate a crane hook on slings that are 3" and wider. Untapered eyes are available upon request.

SPECIFICATIONS

Sling Width (in.)	Eye Length Type (in.)	Minimum Sling Length (ft.)	No. of Body Ply	Heavy Duty Nylon				Medium Duty Nylon			
				Rated Capacity (lbs.) By Hitch			Model No. (specify length)	Rated Capacity (lbs.) By Hitch			Model No. (specify length)
				Choker	Vertical	Basket	Nylon Q Web	Choker	Vertical	Basket	Nylon N Web
1	8-1/2	3	1	1250	1600	3200	1LL-Q	950	1200	2400	1LL-N
	8-1/2	3	2	2500	3200	6400	D1LL-Q	1900	2400	4800	D1LL-N
	10	3	4	4000	5000	10000	Q1LL-Q	3400	4200	8400	Q1LL-N
2	10	4	1	2500	3200	6400	2LL-Q	1900	2400	4800	2LL-N
	10	3	2	5000	6400	12800	D2LL-Q	3800	4800	9600	D2LL-N
	12	3	4	8000	10000	20000	Q2LL-Q	6400	8000	16000	Q2LL-N
3	11	4	1	3800	4800	9600	3TL-Q	2900	3600	7200	3TL-N
	11	3	2	6900	8600	17200	D3TL-Q	5200	6500	13000	D3TL-N
	14	5	4	11900	14900	29800	Q3TL-Q	9600	12000	24000	Q3TL-N
4	12	4	1	5000	6400	12800	4TL-Q	3800	4800	9600	4TL-N
	12	4	2	9200	11500	23000	D4TL-Q	6900	8600	17200	D4TL-N
	16	5	4	15800	19800	39600	Q4TL-Q	12800	16000	32000	Q4TL-N
6	16	5	1	7700	9600	19200	6TL-Q	5800	7200	14400	6TL-N
	16	6	2	13000	16300	32600	D6TL-Q	9800	12200	24400	D6TL-N
	18	6	4	23800	29800	59600	Q6TL-Q	18800	23500	47000	Q6TL-N
8	20	6	1	10200	12800	25600	8TL-Q	--	--	--	--
	20	6	2	15400	19200	38400	D8TL-Q	--	--	--	--
	24	7	4	31700	39700	79400	Q8TL-Q	--	--	--	--
10	24	8	1	12800	16000	32000	10TL-Q	--	--	--	--
	24	7	2	17900	22400	44800	D10TL-Q	--	--	--	--
	24	8	4	39600	49600	99200	Q10TL-Q	--	--	--	--
12	24	8	1	15400	19200	38400	12TL-Q	--	--	--	--
	24	8	2	21500	26900	53800	D12TL-Q	--	--	--	--
	24	8	4	47600	59500	119000	T12TL-Q	--	--	--	--

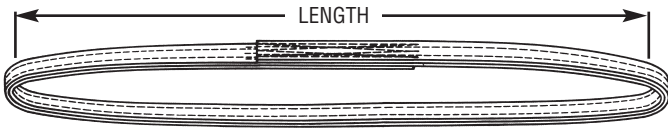
Standard Web Slings

TYPE V: Endless Slings

QUICKSHIP PROGRAM

Endless Type Slings

Endless Type Slings are one of the **most versatile** and widely used type because of their adaptability to numerous applications. They can be utilized in a choker, vertical or basket hitch. Sling life is prolonged because of rotation of the wear surfaces.

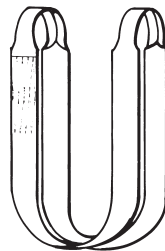


Type EE

NOTE: Sling length is measured from bearing point to bearing point.

Tapered Endless Sling

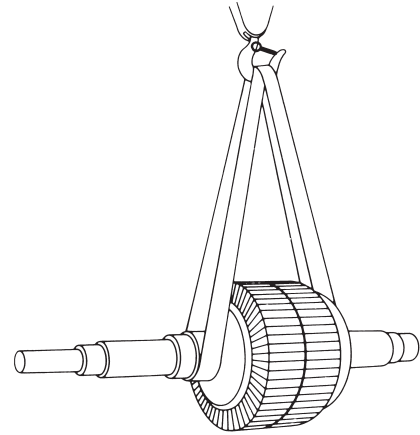
Two tapered points at opposite ends of the sling allow the use of wide slings on small crane hooks. However, the rotational feature of the sling is lost. Tapered points are for 1 & 2 ply slings only. Tapered points will be 1/3 sling width on medium duty and 1/2 sling width on heavy duty.



Type ET







CAUTION:

Web slings must be used with compatible fittings, hooks, and shackles. Bunching of webbing reduces capacity. Please order Tapered Endless Sling (ET) or other style sling to accommodate for lifting hardware.



NOTE: Chart below shows Model Number for Type EE Endless Slings. For Tapered Endless Slings, change EE to ET. Example: For Model No. 2EE-Q, change to 2ET-Q for a Tapered Endless Sling.

SPECIFICATIONS

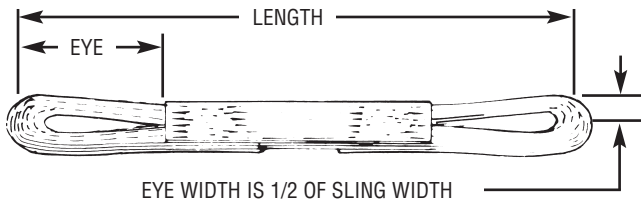
Sling Width (in.)	Minimum Sling Length (ft.)	No. Of Body Ply	Heavy Duty Nylon				Medium Duty Nylon			
			Rated Capacity (lbs.) By Hitch			Model No. (specify length)	Rated Capacity (lbs.) By Hitch			Model No. (specify length)
			 Choker	 Vertical	 Basket	Nylon Q Web	 Choker	 Vertical	 Basket	Nylon N Web
1	3	1	2500	3200	6400	1EE-Q	1900	2400	4800	1EE-N
	3	2	4900	6200	12400	D1EE-Q	3800	4800	9600	D1EE-N
	3	3	6400	8000	16000	T1EE-Q	4900	6200	12400	T1EE-N
2	3	1	5000	6400	12800	2EE-Q	3800	4800	9600	2EE-N
	3	2	9800	12200	24400	D2EE-Q	7700	9600	19200	D2EE-N
	3	3	12800	16000	32000	T2EE-Q	10000	12500	25000	T2EE-N
3	3	1	6900	8600	17200	3EE-Q	5200	6500	13000	3EE-N
	3	2	13000	16300	32600	D3EE-Q	9400	11700	23400	D3EE-N
	3	3	17200	21500	43000	T3EE-Q	13000	16300	32600	T3EE-N
4	3	1	9200	11500	23000	4EE-Q	6900	8600	17200	4EE-N
	3	2	16500	20700	41400	D4EE-Q	12400	15500	31000	D4EE-N
	3	3	23000	28700	57400	T4EE-Q	16400	20600	41200	T4EE-N
6	3	1	13000	16300	32600	6EE-Q	9800	12200	24400	6EE-N
	3	2	23000	28600	52200	D6EE-Q	18000	22500	45000	D6EE-N
	5	3	32500	40700	81400	T6EE-Q	23400	29300	58600	T6EE-N
8	4	1	15400	19200	38400	8EE-Q	--	--	--	--
	4	2	24500	30700	61400	D8EE-Q	--	--	--	--
	5	3	36800	46000	92000	T8EE-Q	--	--	--	--
10	4	1	17900	22400	44800	10EE-Q	--	--	--	--
	4	2	26800	33600	67200	D10EE-Q	--	--	--	--
	6	3	41200	51500	103000	T10EE-Q	--	--	--	--
12	4	1	21500	26900	53800	12EE-Q	--	--	--	--
	4	2	30000	37600	75200	D12EE-Q	--	--	--	--
	6	3	47300	59200	118400	T12EE-Q	--	--	--	--

Standard Web Slings

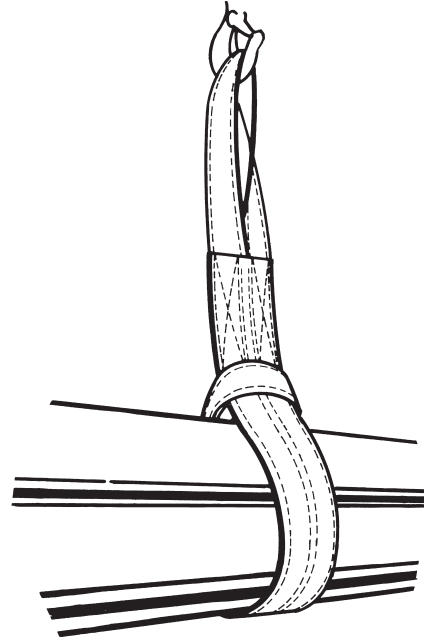
TYPE VI: Reverse Eye Slings

QUICKSHIP PROGRAM

Reverse Eye Slings have a texturized nylon wear pad on both sides which protect the main body from load abrasion, as well as adding significantly to sling life. Both eyes are open at 90° to sling body for ease of rigging. Reverse eyes can be used in basket or choker hitches. Eye lengths other than the standards listed are available, please specify.



TYPE RE
Reverse Eye Sling



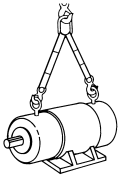
NOTE: On Reverse Eye Slings the eye width can be tapered to 1/4 of the sling width. This applies to 1 and 2 ply slings 4" in width or wider. For tapered eyes, add T to the Model Number. Example: For Model No. 6RE-N, change to 6TRE-N for Tapered Eyes. For Flat Eye Slings, change RE to FF. Example: For Model No. 4RE-Q, change to 4FF-Q.

SPECIFICATIONS

Sling Width (in.)	Eye Length (in.) RE	Minimum Sling Length (ft.)	No. of Body Ply	Heavy Duty Nylon				Medium Duty Nylon			
				Rated Capacity (lbs.)			Model No. (specify length)	Rated Capacity (lbs.)			Model No. (specify length)
				Choker	Vertical	Basket		Reverse Eye			
							Nylon Q Web			Nylon N Web	
2	10	4	1	3600	4500	9000	2RE-Q	2900	3600	7200	2RE-N
	10	4	2	5200	6500	13000	D2RE-Q	4200	5200	10400	D2RE-N
4	12	4	1	6200	7700	15400	4RE-Q	5400	6800	13600	4RE-N
	12	4	2	10400	13000	26000	D4RE-Q	8400	10500	21000	D4RE-N
	16	5	3	13100	16400	32800	T4RE-Q	11200	14000	28000	T4RE-N
6	16	5	1	8800	11000	22000	6RE-Q	6400	8000	16000	6RE-N
	16	5	2	16000	20000	40000	D6RE-Q	11500	14400	28800	D6RE-N
	18	6	3	20400	25500	51000	T6RE-Q	16000	20000	40000	T6RE-N

Leather wear pads (instead of textured nylon) are available. See accessories on page I.17.

Special Application Web Slings



Single Leg Bridle Slings

QUICKSHIP PROGRAM

Webbing Bridle Slings are lightweight and easier to handle when compared to wire rope and chain bridle slings. High quality forged fittings are selected to match the webbing rated capacities. Webbing Bridle Slings help absorb shock and **do not conduct electricity**. Standard slings are available in single, double, triple, or quadruple leg designs. Webbing Bridle Slings are particularly useful when fixed lifting points are available.

Single Leg Bridle Slings Type SOS



SPECIFICATIONS

Sling Width (in.)	Web Plies	Minimum Sling Length (ft.)	Rated Capacity (lbs.)		Sling Fitting Code		Model Number (specify length)
			90°		Top	Bottom	
1	1	3	1600		1	5	SOS-EE1-801
1	2	3	3000		1	6	SOS-EE2-801
2	1	3	3000		1	6	SOS-EE1-802
2	2	3	6000		2	7	SOS-EE2-802

Double Leg Bridle Slings

Double Leg Bridle Slings Type DOS



SPECIFICATIONS

Sling Width (in.)	Web Plies	Minimum Sling Length (ft.)	Rated Capacity (lbs.)			Sling Fitting Code		Model Number (specify length)
			60°	45°	30°	Top	Bottom	
1	1	3	2700	2200	1600	1	5	DOS-EE1-801
1	2	3	5100	4200	3000	2	6	DOS-EE2-801
2	1	3	5100	4200	3000	2	6	DOS-EE1-802
2	2	3	10300	8400	6000	3	7	DOS-EE2-802

SPECIFICATIONS - Oblong Links

Link Code	Stock Diameter A (in.)	Inside Width B (in.)	Inside Length C (in.)	Unit Weight (lbs.)
1	1/2	2-1/2	5	.81
2	5/8	3	6	1.63
3	3/4	2-3/4	5-1/2	2.10
4	1	3-1/2	7	4.60
5	1-1/4	4-3/8	8-3/4	9.20

Special Application Web Slings

Three Leg Bridle Slings

Three Leg Bridle Sling Type TOS



SPECIFICATIONS

Sling Width (in.)	Web Plies	Minimum Sling Length (ft.)	Rated Capacity (lbs.)			Sling Fitting Code		Model Number (specify length)
			60°	45°	30°	Top	Bottom	
1	1	4	4100	3300	2400	2	5	TOS-EE1-801
1	2	4	7700	6300	4500	2	6	TOS-EE2-801
2	1	4	7700	6300	4500	2	6	TOS-EE1-802
2	2	4	15500	12700	9000	3	7	TOS-EE2-802

Four Leg Bridle Slings

Four Leg Bridle Slings Type QOS



SPECIFICATIONS

Sling Width (in.)	Web Plies	Minimum Sling Length (ft.)	Rated Capacity (lbs.)			Sling Fitting Code		Model Number (specify length)
			60°	45°	30°	Top	Bottom	
1	1	4	5500	4500	3200	3	5	QOS-EE1-801
1	2	4	10300	8400	6000	3	6	QOS-EE2-801
2	1	4	10300	8400	6000	3	6	QOS-EE1-802
2	2	4	20700	16900	12000	4	7	QOS-EE2-802

SPECIFICATIONS - Latch Hooks

Hook Code	Alloy Hook Size (tons)	Dimensions (in.)	
		O	K
5	1-1/2	1	.98
6	3	1-1/16	1.16
7	5	1-1/4	1.53

Special Application Web Slings



The Caldwell Group • 800-628-4263 • www.caldwellinc.com

Caldwell® Section
2014-2016 Master Catalog

Model QC - Quick Choke™ Pipe Lifting Sling With G-Link™

QUICKSHIP PROGRAM

PRODUCT FEATURES:

- Quick and easy rigging.
- Sling wraps around pipe and hooks on itself.
- Pipe can be handled quickly and efficiently when properly balanced.
- Use in pairs for added stability.
- Complies with ASME standards.

SPECIFICATIONS

Model Number	Rated Capacity (lbs.)	Web Sling	
		Width (in.)	Length (ft.)
QC-2	4000	2	10
QC-3	7000	3	12
QC-4	9000	4	14

NOTE: For different lengths, please specify.



Fitting Detail
Patent No. 5,651,573



Operation



Special Application Web Slings

Model PS - Quick Disconnect Pipe Lifting Sling With Quick Disconnect Buckle

**QUICKSHIP
PROGRAM**



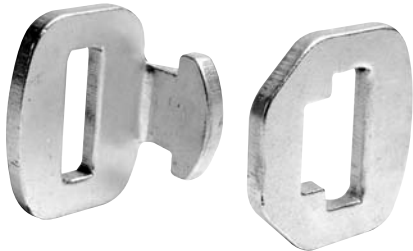
PRODUCT FEATURES:

- Quick and easy rigging.
- Sling wraps around pipe and buckles together eliminating the need to remove sling from hook.
- Pipe can be handled quickly and efficiently when properly balanced.
- Use in pairs for added stability.
- Complies with ASME standards.

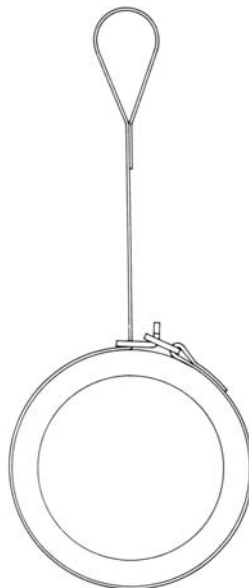
SPECIFICATIONS

Model Number	Rated Capacity (lbs.)	Web Sling		Weight (lbs.)
		Width (in.)	Length (ft.)	
D2-PS-Q x 12'	2500	2	12	7
D3-PS-Q x 12'	3750	3	12	12

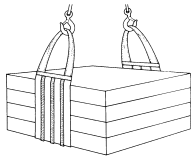
NOTE: For different lengths, please specify.



Operation



Special Application Web Slings



Cargo Type Slings

Wide load slings support the load over a wide area to offer better balance for large loads – whether heavy or light. Wide bearing area reduces marring of soft load surfaces. Stiffeners are used at the base of the eyes to deter the body webbing from folding down the middle. Use only in a basket hitch.

SPECIFICATIONS

Body Width (in.)	Eye Length (in.)	Min. Sling Length (in.)	No. of Body Ply	Rated Capacity (lbs.)	Model Number (specify length)
6	9	40	1	15400	WL1-806
			2	28600	WL2-806
8	12	45	1	20400	WL1-808
			2	38000	WL2-808
12	18	60	1	30800	WL1-812
			2	57200	WL2-812
16	24	72	1	38000	WL1-816
			2	75000	WL2-816
20	30	88	1	45000	WL1-820
			2	90000	WL2-820
24	36	100	1	52000	WL1-824
			2	110000	WL2-824
30	45	120	1	45000	WL1-830
			2	90000	WL2-830
36	54	144	1	45000	WL1-836
			2	90000	WL2-836

Continuous Eye Wide Load Slings



SPECIFICATIONS

Body Width (in.)	Eye Length (in.)	Min. Sling Length (in.)	No. of Body Ply	Rated Capacity (lbs.)	Model Number (specify length)
6	10	50	1	5000	WLA1-806
			2	10000	WLA2-806
8	10	50	1	5000	WLA1-808
			2	10000	WLA2-808
10	12	54	1	5000	WLA1-810
			2	10000	WLA2-810
12	12	56	1	5000	WLA1-812
			2	10000	WLA2-812
16	12	56	1	10000	WLA1-816
			2	18000	WLA2-816
20	18	68	1	10000	WLA1-820
			2	18000	WLA2-820
24	18	72	1	10000	WLA1-824
			2	18000	WLA2-824
30	18	72	2	18000	WLA2-830
36	22	88	2	18000	WLA2-836
48	30	122	2	18000	WLA2-848

Attached Eye Wide Load Slings



⚠ WARNING

Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to Load Angle Charts, page I.18.

Special Application Web Slings

Wheel Nets

Fast loading, of most sized vehicles, is possible because of the lightweight, soft flexibility and tremendous strength made possible by using nylon of various sizes.

Available in a wide range of lifting capacities, these wheel nets can be worked in a tight hold by hand folding the net into a bundle. Easily attach to the load by laying the Wheel Nets out and rolling the vehicle on or off the nets - no need for time consuming jacking. Steel links are at the lifting points for wear resistance.



Wheel Nets are used in matched pairs.

Vehicle Lift Slings and Spreader Bars in capacities of 5-ton, 17-ton and 30-ton are available upon request.



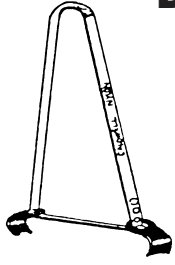
SPECIFICATIONS

Model Number	WLL* (lbs.)	Wheel Net Size (ft.)	Link Size (in.)	Weight Per Pair (lbs.)
WN 5.0	10000	3 x 14	5/8	31
WN 12.0	24000	4 x 16	7/8	108
WN 17.0	34000	4 x 16	1	125
WN 21.6	43200	4 x 16	1-1/4	170
WN 30.0	60000	5 x 24	1-3/8	250

* Work Load Limit (WLL) is based on a pair of wheel nets with one of the pair lifting up to 75% of the load and a design factor of 5:1.

Special Application Web Slings

Drum Handling Slings



Versatile Drum Handling Sling

This sling allows for easy handling of various sizes of steel drums and barrels, and has a 1,000 lb. capacity. It is light in weight, high in strength, and is resistant to oil.

PRODUCT FEATURES:

- Lightweight - weighs only 4 lbs.
- Versatile - lifts drums either vertically or horizontally.
- Self-tightening grip - sliding drum hooks tighten grip on load as drum is lifted.
- Tough - resistant to alkalis, ultra violet rays, rot and mildew.

SPECIFICATIONS

Model Number	Rated Capacity (lbs.)	Headroom - HR (in.)		Drum Hook Width (in.)
		30 Gallon	55 Gallon	
1HB2-N x 3'	1000	24	20	2-7/8
1HB2-N x 5'	1000	36	32	2-7/8

NOTE: For use on closed-head metal drums.

INSTOCK PROGRAM



Type HB

Ratchet Type Drum Handling Sling

- Easily lift standing drums for transport.
- Tilt suspended drums to pour from open top or spigot.
- Use with ribbed steel drums, the ratcheting belly band tightens securely below the first rib.
- Standard wear pad for added protection.
- Ratchet tightens securely.
- Free end of ratchet strap sewn to stay properly threaded.
- Vertical legs sewn to belly band to maintain proper position.

QUICKSHIP PROGRAM

SPECIFICATIONS

Rated Capacity (lbs.)	Model Number (specify diameter)	Drum Hook Width (in.)
300	DSV601	1 WEB
850	DSV602	2 WEB

Final size determined by drum diameter, please specify.



Type DSV

Special Application Web Slings

Sling Accessories

The number one cause of synthetic sling failure is cutting. When slings are cut, property damage and personal injury or death can result. Wear Pads can help to reduce this problem by acting as a buffer between the load edge and the slings.

Sling protection accessories are available in a wide variety of materials.

P - A high density synthetic felt - 5/16" thick
 W - Heavy nylon sling webbing - 3/16" thick
 HL - Heavy leather - 5/32" thick

TN - Abrasion and cut resistant webbing - 3/32" thick
 BN - Wear resistant fabric great for bundling - 1/16" thick
 PVC - Non-absorbent - 1/8" thick



Flat Quick Sleeves - specify length.

Web Width* (in.)	Model Number For Materials Available			
	P	W	HL	TN
1	3FQS-P	3FQS-W	3FQS-HL	3FQS-TN
2	4FQS-P	4FQS-W	4FQS-HL	4FQS-TN
3	5FQS-P	-	5FQS-HL	5FQS-TN
4	6FQS-P	6FQS-W	6FQS-HL	6FQS-TN
6	8FQS-P	8FQS-W	8FQS-HL	-
8	10FQS-P	10FQS-W	10FQS-HL	-
10	12FQS-P	12FQS-W	12FQS-HL	-



Flat Sewn Sleeve† - specify length.

Web Width* (in.)	Model Number For Materials Available			
	P	W	HL	TN
1	3SS-P	3SS-W	3SS-HL	3SS-TN
2	4SS-P	4SS-W	4SS-HL	4SS-TN
3	5SS-P	-	5SS-HL	5SS-TN
4	6SS-P	6SS-W	6SS-HL	6SS-TN
6	8SS-P	8SS-W	8SS-HL	-
8	10SS-P	10SS-W	10SS-HL	-
10	12SS-P	12SS-W	12SS-HL	-



Tubular Quick Attach Sleeves - specify length.

Sleeve Width* (in.)	Model Number For Materials Available		
	P	W	HL
4	-	4TQS-W	4TQS-HL
5	-	-	5TQS-HL
6	-	6TQS-W	6TQS-HL
8	-	8TQS-W	8TQS-HL
10	-	10TQS-W	10TQS-HL
12	12TQS-P	12TQS-W	12TQS-HL
14	14TQS-P	14TQS-W	14TQS-HL
16	16TQS-P	16TQS-W	16TQS-HL
18	18TQS-P	18TQS-W	18TQS-HL
20	20TQS-P	20TQS-W	20TQS-HL
22	22TQS-P	22TQS-W	22TQS-HL
24	24TQS-P	24TQS-W	24TQS-HL
26	26TQS-P	26TQS-W	26TQS-HL
30	30TQS-P	30TQS-W	30TQS-HL
34	34TQS-P	-	34TQS-HL



Sewn-On Wear Pads† - specify length.

Web Sling Width* (in.)	Model Number For Materials Available				
	P	W	HL	TN	PVC
1	1WP-P	1WP-W	1WP-HL	1WP-TN	1WP-PVC
2	2WP-P	2WP-W	2WP-HL	2WP-TN	2WP-PVC
3	3WP-P	3WP-W	3WP-HL	3WP-TN	3WP-PVC
4	4WP-P	4WP-W	4WP-HL	4WP-TN	4WP-PVC
6	6WP-P	6WP-W	6WP-HL	6WP-TN	6WP-PVC
8	8WP-P	8WP-W	8WP-HL	-	8WP-PVC
10	10WP-P	10WP-W	10WP-HL	-	10WP-PVC
12	12WP-P	12WP-W	12WP-HL	-	12WP-PVC



Protective Edgeguard† - specify length & location of edgeguard.

Sling Plies	Model Number
1	EG1-TN
2	EG2-TN
3 & 4	EG3-TN

* Single & double ply only, for three and four ply slings go to next larger size.

† Above options are factory installed only.

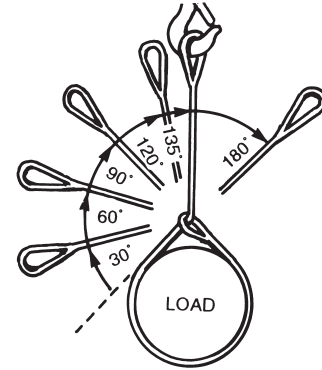
Standard & Special Application Web Slings

Rated Capacity - Load Angle Charts

Angle factor must be applied to calculate the reduced sling capacity when lifting force is not at 90° to the plane of the load.

The rated capacities of the slings in this catalog are given in the charts on the following pages. Since the capacity depends on how the slings are used, separate ratings are given for vertical, choker, and basket hitch lifts.

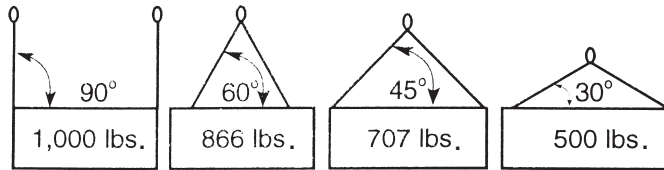
When selecting a sling to carry a given load, it is important to consider the angle at which the sling will be used. As the angle of the sling to the load changes, so does the capacity. For example: A sling rated at and lifting 1,000 pounds will be damaged - and could break suddenly - when the lifting angle is less than 30° at which angle the slings capacity is reduced to only 500 pounds. Please use the following formula to calculate the actual capacity of the sling being used for your specific application.



Basket Hitch

Angle 'A' Degrees	Cap. Reduction Factor
30	.500
35	.574
40	.643
45	.707
50	.766
55	.819
60	.866
65	.906
70	.940
75	.966
80	.985
85	.996
90	1.000

$$\text{ACTUAL CAPACITY OF HITCH} = \text{Rated Capacity} \times \text{Capacity Reduction Factor}$$



Choker Hitch

Angles Of Choke	Capacity Reduction Factor
90 - 119	.87
60 - 89	.74
30 - 59	.62

Care & Use of Caldwell® Web Slings

USE:

- Check weight of load.
- Check sling rated load for type of lift, angle of loading (see load angle chart).
- Sling shall not be twisted, tied into knots or joined by knotting.
- Sling shall always be protected from being cut by sharp corners, sharp edges, protrusions or abrasive surfaces.
- Center load on base (bowl) of hook unless hook is designed for point loading.
- Balance load.
- Maintain load control.
- Avoid jerking the load.
- Be alert for snagging of load.
- Avoid dragging sling over rough surfaces and from under load.
- Choker hitch must choke on webbing never on fitting.
- Stand clear of load at all times.
- No person allowed beneath the load.
- Persons are not to ride on sling or load.
- If sling is to be used in a chemical environment, contact manufacturer for specific recommendations.
- Web slings must be used with compatible fittings, hooks, and shackles. Bunching of webbing reduces capacity.

INSPECTION:

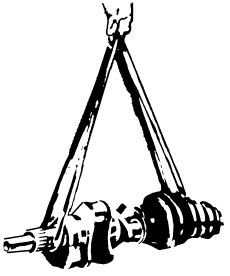
- Check tag for rated load adequate for the lift.
- Remove from service and replace if the following exists:
 - Core yarn is visible.
 - Webbing is cut, frayed, melted, charred or chemical damage is visible.
 - Webbing has holes, tears, snags, or abrasions.
- Remove from service and repair if ID tag is missing or illegible.
- Frequent inspection shall be performed by a qualified person before each lift.
- Periodic inspection shall be performed by a qualified person at least annually and written records maintained.

CARE: Store in a cool, dry, dark area away from sun and any ultraviolet light source.

REPAIR: Only the sling manufacturer or qualified person shall make repairs.

Roundslings

Roundslings



PRODUCT FEATURES:

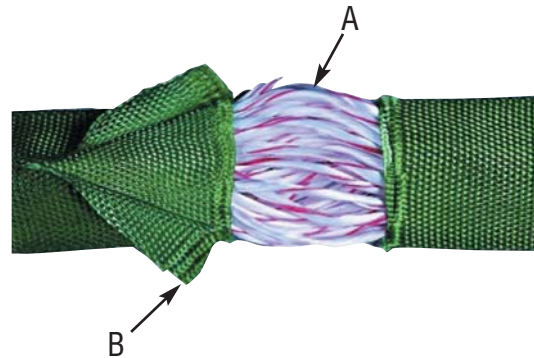
- Saves time, money and promotes safety in the workplace.
- Super flexible, conforms to shape of load, flattens and grabs the load securely.
- Soft cover won't mar painted or polished surfaces or cut hands.
- Lightweight and pliable for easy rigging and storage.
- Resistant to acids, ultra violet rays, rot and mildew.
- Good up to 194° F.
- Red striped, white core yarns allow for easy identification of damaged slings.

Sling Construction Details

Roundslings are constructed of a continuous, or endless loop of 100% polyester fiber (A). The multiple fiber construction makes the round sling soft and flexible – conforming easily to almost any load surface.

The double-polyester fabric cover (B) protects the internal fibers. Sling replacement is not necessary until the red striped white core yarns can be seen through holes in the jacket. When core yarns are visible, sling must be removed from service.

In addition, the endless roundslings can be constantly rotated, further extending the wear life of the protective covering and the sling.



How To Order Caldwell® Roundslings

Specify:

1. Sling Model Number.
2. Sling length (bearing to bearing).
3. Quantity of slings.
4. Any additional information required to adequately describe order.

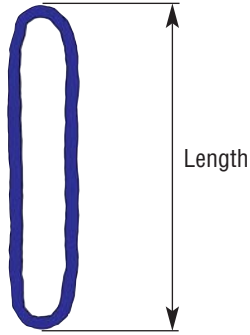
WARNING

Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to Load Angle Charts, page I.18.

Roundslings

Endless Roundslings

All the basic Roundsling features plus... Endless Roundslings can be rotated to extend wear life.



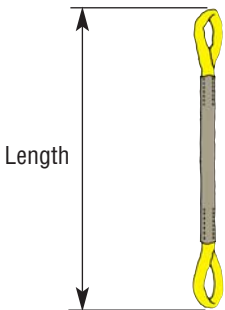
Endless Type EN

SPECIFICATIONS

Model Number	Color	Rated Capacity (lbs.) By Hitch			Relaxed Body Diameter (in.)	Body Width At Load (in.)	Minimum Length (ft.)
		Choker	Vertical	Basket			
EN30	Purple	2100	2600	5200	5/8	1-1/8	1-1/2
EN60	Green	4200	5300	10600	7/8	1-1/2	1-1/2
EN90	Yellow	6700	8400	16800	1-1/8	1-7/8	3
EN120	Tan	8500	10600	21200	1-1/8	2-1/8	3
EN150	Red	10600	13200	26400	1-3/8	2-1/4	3
EN180	White	13400	16800	33600	1-3/8	2-1/2	3
EN240	Blue	17000	21200	42400	1-3/4	3	3
EN360	Grey	24800	31000	62000	2-1/4	3-3/4	3
EN600	Brown	42400	53000	106000	2-3/4	4-5/8	8
EN800	Olive	52800	66000	132000	3-1/8	5-1/4	8
EN1000	Black	72000	90000	180000	3-5/8	6	8

Eye and Eye Roundslings

All the basic Roundsling features plus... Additional jacket can help extend sling life if sling body abrasion has caused excessive wear in the past.



Eye and Eye Type EE

SPECIFICATIONS

Model Number	Color	Rated Capacity (lbs.) By Hitch			Body Width At Load (in.)	Standard Eye Length (in.)	Minimum Length (ft.)
		Choker	Vertical	Basket			
EE30	Purple	2100	2600	5200	2-1/4	10	4
EE60	Green	4200	5300	10600	2-1/2	10	4
EE90	Yellow	6700	8400	16800	2-1/2	12	4
EE120	Tan	8500	10600	21200	3-1/2	12	5
EE150	Red	10600	13200	26400	3-1/2	14	5
EE180	White	13400	16800	33600	3-1/2	16	7
EE240	Blue	17000	21200	42400	4-1/4	16	7
EE360	Grey	24800	31000	62000	6	20	7
EE600	Brown	42400	53000	106000	7	24	8
EE800	Olive	52800	66000	132000	8	30	9
EE1000	Black	72000	90000	180000	9	36	10

Roundslings

Care & Use of Caldwell® Roundslings

CARE: Store in a cool, dry, dark area away from sun and any ultraviolet light source.

USE:

- Check weight of load.
- Check sling rated load for type of lift, angle of loading (see Load Angle Charts, page I.18).
- Sling shall not be twisted, tied into knots or joined by knotting.
- Sling shall always be protected from being cut by sharp corners, sharp edges, protrusions or abrasive surfaces.
- Center load on base (bowl) of hook unless hook is designed for point loading.
- Balance load.
- Maintain load control.
- Avoid shock loading.
- Be alert for snagging of load.
- Avoid dragging sling over rough surfaces and from under load.
- Choker hitch must choke on webbing never on fitting.
- Stand clear of load at all times.
- No person allowed beneath the load.
- Persons are not to ride on sling or load.
- If sling is to be used in a chemical environment, contact manufacturer for specific recommendations.
- Roundslings must be used with compatible fittings, hooks, and shackles. Bunching of webbing reduces capacity.

INSPECTION:

- Check tag for rated load adequate for the lift.
- Remove from service and replace if the following exists:
 - Core yarn is visible.
 - Webbing is cut, frayed, melted, charred or chemical damage is visible.
 - Webbing has holes, tears, snags, or abrasions.
- Remove from service and repair if ID tag is missing or illegible.
- Frequent inspection shall be performed by a qualified person before each lift.
- Periodic inspection shall be performed by a qualified person at least annually and written records maintained.

REPAIR: Only the sling manufacturer or qualified person shall make repairs.

ENVIRONMENTAL CONSIDERATIONS:

- Nylon and polyester are seriously degraded at temperatures above 194° F and below -40° F.
- Many chemicals have an adverse effect on nylon and polyester. This chart is a general guide. For specific temperature, concentration and time factors, please consult Caldwell prior to purchase or use.

	Acid	Alcohol	Aldehydes	Strong Alkalis	Bleaching Agents	Dry Cleaning Solvents	Ethers	Halogenated Hydrocarbons	Hydrocarbons	Ketones	Oil, Crude	Oil, Lubricating	Soaps, Detergents	Water, Seawater	Weak Alkalis
NYLON	NO	OK	OK	OK	NO	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
POLYESTER	*	OK	NO	**	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

* Disintegrated by concentrated sulphuric acid.

** Degrade by strong alkalis at elevated temperatures.

NOTE: Sizes 360 through 1000 have a polyester core and nylon jacket.

WARNING: This product may contain chemicals known to the State of California to cause cancer and/or birth defects or other reproductive harm.

⚠ WARNING

Can fail if damaged, misused or overloaded. Inspect before use. Use only if trained. Observe rated load. Avoid sharp edges and exposure to acid, alkali, sunlight and temperatures over 194°F.

Wire Rope Slings

Wire Rope Slings are the most common and lowest cost per ton of lift of all slings. Caldwell® Wire Rope Slings provide the strength and sturdiness required for lifting those tough loads. Used in the construction industry and other industries where heavy loads and rugged conditions exist. Available in many configurations with a variety of end fittings, Caldwell® Wire Rope Slings can be the solution to your load lifting requirements.

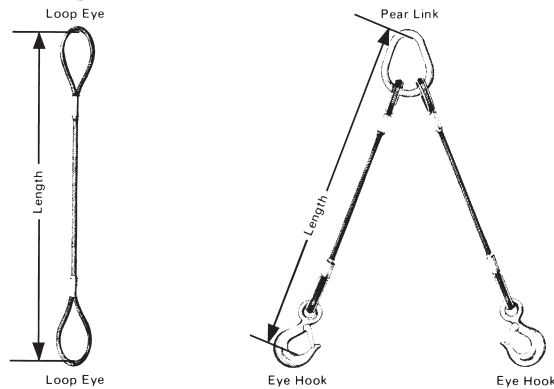
How to Order Caldwell® Wire Rope Slings

Specify:

1. Rope Diameter (inches)
2. Sling Length
3. Rope Construction
4. Number of Legs:
 - 1—Single Leg
 - 2—Double Leg
 - 3—Triple Leg
 - 4—Quad Leg
 } NOTE: For details consult factory
5. Attachments: Use 1 time for one end, 2 times for both ends
 - E—Loop Eye (no end fittings)
 - T—Extra Heavy Thimble
 - ST—Slip-Thru Thimble
 - TH—Thimble With Eye Hook
 - SCH—Choker Hook
 - CT—Crescent Thimble
 - OL—Oblong Link

Examples:

Rope Diameter	Sling Length	Rope Construction	Number Of Legs	Attachments
1/2	7	619	2	OL/T/TH



1/2-5-619-1-E/E

Standard Combinations



Eye & Eye (E/E)



Eye & Thimble (E/T)



Eye & Hook With Thimble (E/TH)



Eye & Crescent Thimble (E/CT)



Eye & Slip-Thru Thimble (E/ST)



Thimble & Thimble (T/T)



Thimble & Hook With Thimble (T/TH)



Thimble & Crescent Thimble (T/CT)



Thimble & Slip-Thru Thimble (T/ST)



Crescent Thimble & Hook With Thimble (CT/TH)



Crescent Thimble & Crescent Thimble (CT/CT)



Slip-Thru Thimble & Hook With Thimble (ST/TH)



Slip-Thru Thimble & Slip-Thru Thimble (ST/ST)

Sliding Choker



Eye & Eye (E/E/SCH)



Eye & Thimble (E/T/SCH)

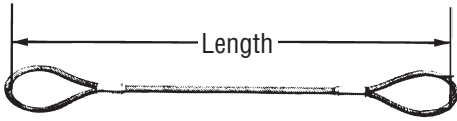
Wire Rope Slings

Wire Rope Slings

Caldwell® Wire Rope Slings are economical, general purpose, material handling slings which may be manufactured with a variety of fittings for use in many different configurations. The slings are manufactured with the flemish eye technique, giving the sling added strength should the swaged sleeve become damaged during use.

PRODUCT FEATURES:

- Reserve strength - integrity of eyes not solely dependent upon steel sleeves.
- Independent wire rope core resists crushing.
- When specified, thimble eyes protect wire rope from wear for increased life.
- Good abrasion resistance for longer life.



QUICKSHIP PROGRAM

SPECIFICATIONS

Rope Dia. (in.)	EIP, IWRC Rated Capacity (tons)			Minimum Sling Length	Standard Eye Size (in.) W x L	Thimble Eye Size (in.) W x L	Eye Hook Cap. (tons)	Crescent Thimble Eye Size (in.) W x L	Slip Thru Thimble Eye Size (in.) W x L	Sliding Choker Hook (in. / Cap.*)
	Choker	Vertical	Vertical Basket							
6 x 19 Extra Improved Plow, Independent Wire Rope Core										
1/4	.48	.65	1.3	1' - 6"	2 x 4	7/8 x 1-5/8	1	2 x 4	2-1/8 x 4-1/8	3/8
5/16	.74	1.0	2.0	1' - 9"	2-1/2 x 5	1-1/16 x 1-7/8	1	2 x 4	2-1/8 x 4-1/8	3/8
3/8	1.1	1.4	2.9	2' - 0"	3 x 6	1-1/8 x 2-1/8	1-1/2	2 x 4	2-1/8 x 4-1/8	3/8
7/16	1.4	1.9	3.9	2' - 3"	3-1/2 x 7	1-1/4 x 2-1/4	2	2 x 5	2-3/8 x 4-3/8	1/2
1/2	1.9	2.5	5.1	2' - 6"	4 x 8	1-1/2 x 2-3/4	3	2-1/4 x 6	2-3/8 - 4-3/8	1/2 1.7*
9/16	2.4	3.2	6.4	2' - 9"	4-1/2 x 9	1-1/2 x 2-3/4	5	2-1/4 x 7	2-3/8 x 4-3/8	5/8
5/8	2.9	3.9	7.8	3' - 0"	5 x 10	1-3/4 x 3-1/4	5	2-3/4 x 7	3-3/8 x 6-5/8	5/8 2.5*
3/4	4.1	5.6	11	3' - 6"	6 x 12	2 x 3-3/4	7	3-1/4 x 8-1/2	3-3/8 x 6-5/8	3/4 4.0*
7/8	5.6	7.6	15	4' - 0"	7 x 14	2-1/4 x 4-1/4	11	4-1/2 x 10	3-3/4 x 7-1/8	7/8
1	7.2	9.8	20	4' - 6"	8 x 16	2-1/2 x 4-1/2	11	4-1/2 x 11-1/2	3-3/4 x 7-1/8	1
1-1/8	9.1	12	24	5' - 0"	9 x 18	2-7/8 x 5-1/8	15	4-7/8 x 13	4-3/8 x 8-3/8	1-1/8
6 x 37 Extra Improved Plow, Independent Wire Rope Core										
1-1/4	11	15	30	5' - 6"	10 x 20	3-1/2 x 6-1/2	15	5-1/2 x 14-1/2	4-3/8 x 8-3/4	1-1/4
1-3/8	13	18	36	6' - 0"	11 x 22	3-1/2 x 6-1/4	22	6 x 16	5 x 9-1/2	1-3/8
1-1/2	16	21	42	7' - 0"	12 x 24	3-1/2 x 6-1/4	22	6 x 17-1/2	5 x 9-1/2	1-1/2 15*
1-3/4	21	28	57	8' - 0"	14 x 28	4-1/2 x 9	30	7 x 20	6-3/4 x 11-3/4	-
2	28	37	73	9' 0"	16 x 32	6 x 12	37	7 x 23-1/2	8 x 14-1/2	-
2-1/4	35	44	89	10' - 0"	18 x 36	7 x 14	45	8-1/2 x 26	8 x 15-1/2	-
2-1/2	42	54	109	11' - 0"	20 x 40	-	-	8-1/2 x 29-1/2	-	-

NOTE: Larger diameter slings available. Basket ratings are based on a minimum D/d of 25, see page I.25.

* When using the designated sliding choker hooks, the slings rated capacity (tons) is reduced to the capacity (tons) noted above.

⚠ WARNING

Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to Load Angle Charts, page I.18.

Wire Rope Slings

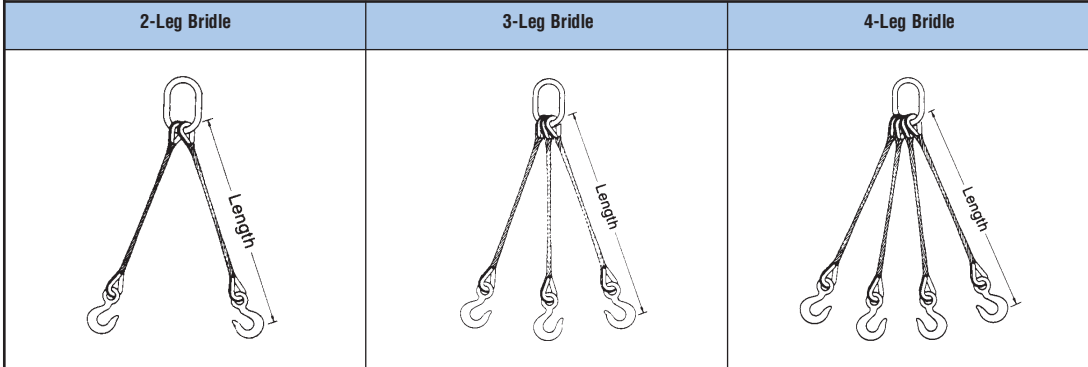
Bridle Slings

PRODUCT FEATURES:

- Bridles provide better load control and balance.
- Independent wire rope core resists crushing.
- Alloy steel hooks and links assure long life.
- Thimble eyes protect wire rope from wear for increased life.
- Reduces load damage by using fixed points on load.
- Easier rigging provided when hooking into fixed lifting points.

QUICKSHIP PROGRAM

SPECIFICATIONS



Rope Dia. (in.)	Min. Sling Length*	Eye Hook Cap. (tons)	Rated Capacity (tons)*				Oblong Link Stock Dia. (in.)	Rated Capacity (tons)*				Oblong Link Stock Dia. (in.)	Rated Capacity (tons)*				Oblong Link Stock Dia. (in.)						
			60°			45°			30°				60°			45°			30°				
			60°	45°	30°	60°		45°	30°	60°	45°		30°	60°	45°	30°		60°	45°	30°			
6 x 19 Extra Improved Plow, Independent Wire Rope Core																							
1/4	1' - 3'	1	1.1	.91	.65	1/2	1.7	1.4	.97	1/2	2.2	1.8	1.3	1/2									
5/16	1' - 6"	1	1.7	1.4	1.0	1/2	2.6	2.1	1.5	3/4	3.5	2.8	2.0	3/4									
3/8	1' - 8"	1-1/2	2.5	2.0	1.4	3/4	3.7	3.0	2.2	3/4	5.0	4.1	2.9	1									
7/16	1' - 10"	2	3.4	2.7	1.9	3/4	5.0	4.1	2.9	1	6.7	5.5	3.9	1									
1/2	2'	3	4.4	3.6	2.5	3/4	6.6	5.4	3.8	1	8.8	7.1	5.1	1-1/4									
9/16	2' - 2"	5	5.5	4.5	3.2	1	8.3	6.8	4.8	1	11	9.0	6.4	1-1/4									
5/8	2' - 4"	5	6.8	5.5	3.9	1	10	8.3	5.9	1-1/4	14	11	7.8	1-1/4									
3/4	2' - 9"	7	9.7	7.9	5.6	1-1/4	15	12	8.4	1-1/2	19	16	11	1-3/4									
7/8	3' - 3"	11	13	11	7.6	1-1/4	20	16	11	1-1/2	26	21	15	1-3/4									
1	3' - 6"	11	17	14	9.8	1-1/2	26	21	15	1-3/4	34	28	20	2-1/4									
1-1/8	4'	15	21	17	12	1-3/4	31	26	18	2	42	34	24	2-3/4									
6 x 37 Extra Improved Plow, Independent Wire Rope Core																							
1-1/4	4' - 6"	15	26	21	15	1-3/4	38	31	22	2-1/4	51	42	30	2-3/4									
1-3/8	5'	22	31	25	18	2	46	38	27	2-3/4	-	-	-	-									
1-1/2	5' - 6"	22	37	30	21	2-1/4	55	45	32	2-3/4	-	-	-	-									
1-3/4	6' - 6"	30	49	40	28	2-3/4	-	-	-	-	-	-	-	-									
2	8'	37	63	52	37	2-3/4	-	-	-	-	-	-	-	-									

NOTE: Length Tolerances - standard length tolerance is plus or minus two rope diameters or plus or minus 0.5% of the sling length, whichever is greater. The legs of bridle slings or matched slings are normally held to within one rope diameter.

* Minimum length based on thimble eye and eye hook.

⚠ WARNING

Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to Load Angle Charts, page I.18.

Wire Rope Slings

Care & Use of Caldwell® Wire Rope Slings

Tests have shown that whenever a sling body is bent around a diameter, the strength of the sling is decreased. D/d ratio is the ratio of the diameter around which the sling is bent divided by the body diameter of the sling.

The capacities in this catalog are based on the minimum D/d ratios that appear below each of the capacity tables. For more severe bending conditions, contact Caldwell for revised capacities.

CARE:

- Store in a clean, dry place and protect from mechanical damage, extreme heat, corrosion or kinking.
- Keep sling lubricated.

USE:

- Check weight of load.
- Check sling rated load for type of lift, and angle of loading (see Load Angle Charts, page I.18.).
- Sling shall always be protected from being cut by sharp corners, sharp edges, protrusions or abrasive surfaces.
- Center load on base (bowl) of hook unless hook is designed for point loading.
- Balance load.
- Avoid shock loading.
- Maintain load control.
- Be alert for snagging of load.
- Avoid dragging sling over rough surfaces and from under load.
- Restrict use to temperatures below 400° F and above -40° F.

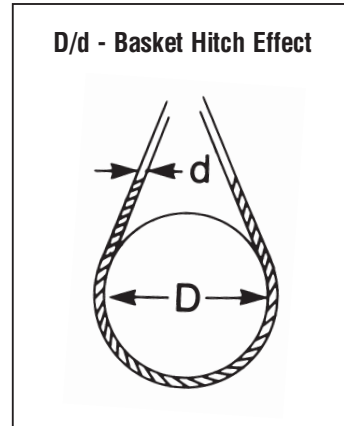
INSPECTION:

Remove sling from service if any of the following are visible:

- Ten broken wires in one rope lay or five wires in one strand in one rope lay.
- Wear or other loss of one-third of the original diameter of the individual wires.
- Evidence of heat damage or corrosion of rope (internal and external) or attachments.
- Kinking, crushing, bird caging, or any other damage resulting in distortion of the rope structure.
- End attachments, including hooks, that are cracked, deformed or obviously worn.

DO NOT inspect a sling by passing bare hands over the wire rope.

WARNING: These products may contain chemicals known to the State of California to cause cancer and/or birth defects or other reproductive harm.



Examples of Wire Rope Sling Abuse



Broken Wires



Worn Wires



Corroded



Bird Caging



Kinked and Crushed



Worn and Deformed Attachments

Alloy Chain Slings

Alloy Chain Slings – Superior strength slings, ease of handling and durability. Used in environments having severe lifting conditions such as foundries, steel mills, and heavy machining operations. Chain slings provide the longest sling life in the conditions commonly seen in these environments.



PRODUCT FEATURES:

- Registered metal tag attached for identification and traceability.
- Long service life when used properly.
- Can be used in high temperature environments.



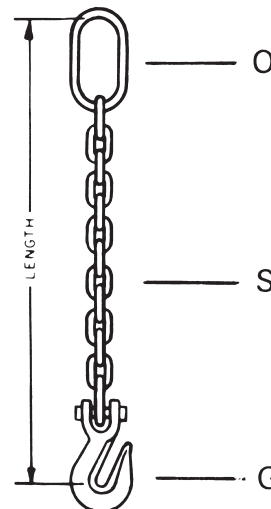
NOTE: Caldwell® Alloy Chain Slings are constructed using the best quality alloy steel, as designated by ASME. A **Registered Identification Tag** is attached to each chain sling. This tag serves as a permanent identification for the life of the sling. Each tag is stamped with the grade, size, reach, type, work load (at a specific angle of lift), and a register number corresponding to the information supplied with the sling invoice. This provides the needed information for user compliance with OSHA requirements, and that all persons involved in the purchase and use of Caldwell® Alloy Chain Slings are aware of the specifications. All chain and component parts are proof tested to twice the catalog working load limit.

How to Order Caldwell® Alloy Steel Chain Slings

Specify:

1. Grade of chain - 80 or 100
2. Chain size - Inches
3. Number of legs -
 - Single - (S)
 - Double - (D)
 - Triple - (T)
 - Quad - (Q)
 - Choker - (C)
4. Master Link - Oblong (O)
 - or Specials -
 - Endless - (E)
 - Adjustable - (A)
 - Basket - (B)
5. Bottom Attachments -
 - Sling Hook With Latch - (SL)
 - Grab Hook - (G)
 - Foundry Hook - (F)
 - Latch Hook - (L)
6. Length of Assembly - Feet
(Bearing point to bearing point)

Grade	Chain Size	Number Of Legs	Master Link	Bottom Attachments	Length
100	1/2	S	O	G	10



Alloy Chain Slings

Grade 80 & 100 - Alloy Chain Slings

PRODUCT FEATURES:



Grade 80

- Proven reliability.
- Available in welded or mechanically assembled slings.
- Widest range of sizes and styles.

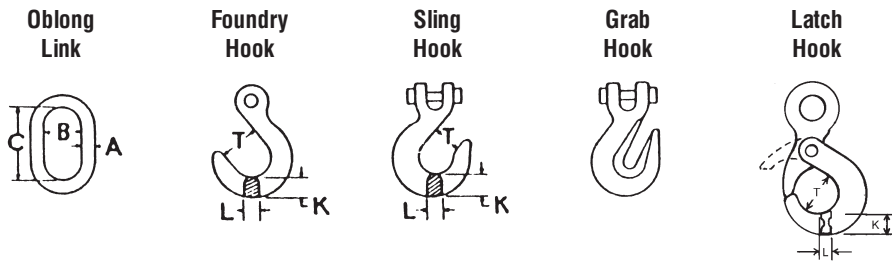
Grade 100

- Higher capacity per chain size.
- Extreme abrasion resistance.
- Shot blasted & oil finished for corrosion resistance & uniformed appearance.

SPECIFICATIONS

Chain Size		Rated Capacity (lbs.)							Nominal Dimensions (in.)		Approx. No. of Links (lbs.)	Approx. Weights per 100 ft.	
		90°	60°	45°	30°	60°	45°	30°					
(in.)	(mm)	Single Chain @ 90°	Double Chain Slings			Triple & Quad Chain Slings			Length	Inside Width	Inside per ft.		
Grade 100													
7/32	5.5	2700	4700	3800	2700	7000	5700	4000	.670	.284	17.9	45	
9/32	7.0	4300	7400	6100	4300	11200	9100	6400	.868	.380	13.8	73	
3/8	10.0	8800	15200	12400	8800	22900	18700	13200	1.181	.512	9.8	148	
1/2	13.0	15000	26000	21200	15000	39000	31800	22500	1.535	.688	8.5	255	
5/8	16.0	22600	39100	32000	22600	58700	47900	33900	1.890	.819	6.9	383	
3/4	20.0	35300	61100	49900	35300	91700	47900	53000	2.362	1.024	5.5	625	
Grade 80													
9/32	7.0	3500	6100	4900	3500	9100	7400	5200	.868	.395	13.8	74	
3/8	10.0	7100	12300	10000	7100	18400	15100	10600	1.222	.572	9.8	146	
1/2	13.0	12000	20800	17000	12000	31200	25500	18000	1.404	.720	8.5	258	
5/8	16.0	18100	31300	25600	18100	47000	38400	27100	1.733	.845	6.9	387	
3/4	20.0	28300	49000	40000	28300	73500	60000	42400	2.160	1.052	5.5	622	
7/8	22.0	34200	59200	48400	34200	88900	72500	51300	2.250	1.137	5.3	776	
1	26.0	47700	82600	67400	47700	123900	101200	71500	2.664	1.248	4.5	995	
1-1/4	32.0	72300	125200	102200	72300	187800	153400	108400	3.250	1.656	3.7	1,571	

Hardware Shapes - Dimensions



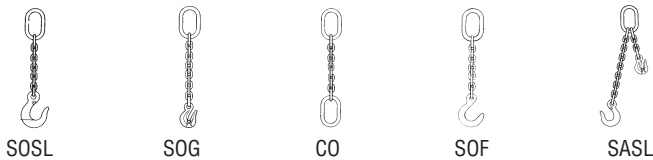
Standard configurations shown in charts, other configurations available, please consult factory.

⚠ WARNING

Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to Load Angle Charts, page I.18.

Alloy Chain Slings - Grade 100

Single Chain Slings



QUICKSHIP PROGRAM

SPECIFICATIONS

Chain Size (in.)	Rated Cap. Vertical (lbs.)	Approx. Wt. 5 Foot Reach Type SOS (lbs.)	Oblong Link (in.)			Foundry Hook (in.)			Sling Hook With Latch (in.)		
						Throat	Width	Depth	Throat	Width	Depth
			A	B	C	T	L	K	T	L	K
9/32	4300	5	1/2	2-1/2	5	2.50	1.00	1.23	1.06	.73	1.05
3/8	8800	10	3/4	3	6	3.00	1.27	1.50	1.31	.95	1.28
1/2	15000	18	1	4	8	3.50	1.50	1.75	1.56	1.17	1.66
5/8	22600	27	1	4	8	4.00	1.81	2.03	1.75	1.44	2.19
3/4	35300	44	1-1/4	4-3/8	8-3/4	4.50	2.20	2.56	2.19	1.69	2.51

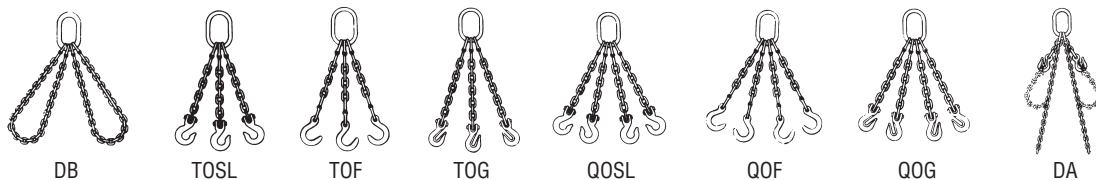
Double Chain Slings



SPECIFICATIONS

Chain Size (in.)	Rated Cap. @ 60° (lbs.)	Approx. Wt. 5 Foot Reach Type DOS (lbs.)	Oblong Link At Top (in.)			Foundry Hook (in.)			Sling Hook With Latch (in.)		
						Throat	Width	Depth	Throat	Width	Depth
			A	B	C	T	L	K	T	L	K
9/32	7400	10	1/2	2-1/2	5	2.50	1.00	1.23	1.06	.73	1.05
3/8	15200	17	3/4	3	6	3.00	1.27	1.50	1.31	.95	1.28
1/2	26000	32	1	4	8	3.50	1.50	1.75	1.56	1.17	1.66
5/8	39100	51	1-1/4	4-3/8	8-3/4	4.00	1.81	2.03	1.75	1.44	2.19
3/4	61000	74	1-1/2	5-1/4	10-1/2	4.50	2.20	2.56	2.19	1.69	2.51

Triple and Quadruple Chain Slings



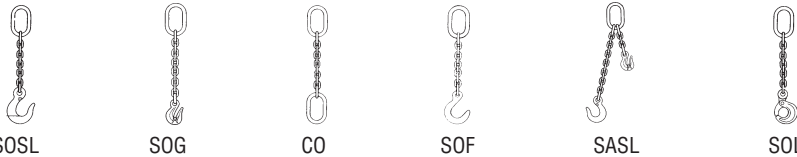
SPECIFICATIONS

Chain Size (in.)	Rated Cap. @ 60° (lbs.)	Approx. Wt. 5 Foot Reach Type TOS (lbs.)	Approx. Wt. 5 Foot Reach QSOS (lbs.)	Oblong Link (in.)			Foundry Hook (in.)			Sling Hook With Latch (in.)		
							Throat	Width	Depth	Throat	Width	Depth
				A	B	C	T	L	K	T	L	K
9/32	11200	16	19	3/4	2-3/4	5-1/2	2.50	1.00	1.23	1.06	.73	1.05
3/8	22900	28	36	1	4	8	3.00	1.27	1.50	1.31	.95	1.28
1/2	39000	53	63	1-1/4	4-3/8	8-3/4	3.50	1.50	1.75	1.56	1.17	1.66
5/8	58700	81	100	1-1/2	5-1/4	10-1/2	4.00	1.81	2.03	1.75	1.44	2.19
3/4	91700	116	140	1-3/4	6	12	4.50	2.20	2.56	2.19	1.69	2.51

Other configurations available, consult factory.

Alloy Chain Slings - Grade 80

Single Chain Slings



QUICKSHIP PROGRAM

SPECIFICATIONS

Chain Size (in.)	Rated Cap. Vertical (lbs.)	Approx. Wt. 5 Foot Reach Type SOS (lbs.)	Oblong Link (in.)			Foundry Hook (in.)			Sling Hook With Latch (in.)			Locking Latch Eye Hook (in.)		
						Throat	Width	Depth	Throat	Width	Depth	Throat	Width	Depth
			A	B	C	T	L	K	T	L	K	T	L	K
9/32	3500	5	1/2	2-1/2	5	2.50	1.00	1.23	1.06	.73	1.05	1.38	.81	1.00
3/8	7100	10	3/4	3	6	3.00	1.27	1.50	1.31	.95	1.28	1.75	.63	1.14
1/2	12000	18	1	4	8	3.50	1.50	1.75	1.56	1.17	1.66	2.25	1.38	1.38
5/8	18100	27	1	4	8	4.00	1.81	2.03	1.75	1.44	2.19	2.44	1.75	1.75
3/4	28300	44	1-1/4	4-3/8	8-3/4	4.50	2.20	2.56	2.19	1.69	2.51	2.44	1.75	1.75
7/8	34200	58	1-1/2	5-1/4	10-1/2	5.00	2.25	2.78	2.38	1.94	2.84	-	-	-
1	47700	79	1-3/4	6	12	5.50	2.59	3.03	2.78	2.14	3.09	-	-	-
1-1/4	72300	121	2	7	14	6.00	3.17	3.81	3.41	2.62	3.89	-	-	-

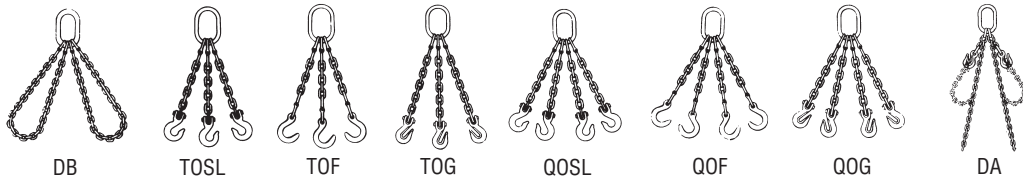
Double Chain Slings



SPECIFICATIONS

Chain Size (in.)	Rated Cap. @ 60° (lbs.)	Approx. Wt. 5 Foot Reach Type DOS (lbs.)	Oblong Link At Top (in.)			Foundry Hook (in.)			Sling Hook With Latch (in.)			Locking Latch Eye Hook (in.)		
						Throat	Width	Depth	Throat	Width	Depth	Throat	Width	Depth
			A	B	C	T	L	K	T	L	K	T	L	K
9/32	6100	10	1/2	2-1/2	5	2.50	1.00	1.23	1.06	.73	1.05	1.38	.81	1.00
3/8	12300	17	3/4	3	6	3.00	1.27	1.50	1.31	.95	1.28	1.75	.63	1.14
1/2	20800	32	1	4	8	3.50	1.50	1.75	1.56	1.17	1.66	2.25	1.38	1.38
5/8	31300	51	1-1/4	4-3/8	8-3/4	4.00	1.81	2.03	1.75	1.44	2.19	2.44	1.75	1.75
3/4	49000	74	1-1/2	5-1/4	10-1/2	4.50	2.20	2.56	2.19	1.69	2.51	2.44	1.75	1.75
7/8	59200	99	1-3/4	6	12	5.00	2.25	2.78	2.38	1.94	2.84	-	-	-
1	82600	134	2	7	14	5.50	2.59	3.03	2.78	2.14	3.09	-	-	-
1-1/4	125200	211	2-1/4	8	16	6.00	3.17	3.81	3.41	2.62	3.89	-	-	-

Triple and Quadruple Chain Slings



SPECIFICATIONS

Chain Size (in.)	Rated Cap. @ 60° (lbs.)	Approx. Wt. 5 Foot Reach Type TOS (lbs.)	Approx. Wt. 5 Foot Reach QSOS (lbs.)	Oblong Link (in.)			Foundry Hook (in.)			Sling Hook With Latch (in.)		
							Throat	Width	Depth	Throat	Width	Depth
				A	B	C	T	L	K	T	L	K
9/32	9100	16	19	3/4	2-3/4	5-1/2	2.50	1.00	1.23	1.06	.73	1.05
3/8	18400	28	35	1	4	8	3.00	1.27	1.50	1.31	.95	1.28
1/2	31200	53	63	1-1/4	4-3/8	8-3/4	3.50	1.50	1.75	1.56	1.17	1.66
5/8	47000	81	100	1-1/2	5-1/4	10-1/2	4.00	1.81	2.03	1.75	1.44	2.19
3/4	73500	116	140	1-3/4	6	12	4.50	2.20	2.56	2.19	1.69	2.51
7/8	88900	154	187	2	7	14	5.00	2.25	2.78	2.38	1.94	3.84
1	123900	209	250	2-1/4	8	16	5.50	2.59	3.03	2.78	2.14	3.09
1-1/4	187800	358	406	2-3/4	9	16	6.00	3.17	3.81	3.41	2.62	3.89

Other configurations available, consult factory.

Alloy Chain Slings

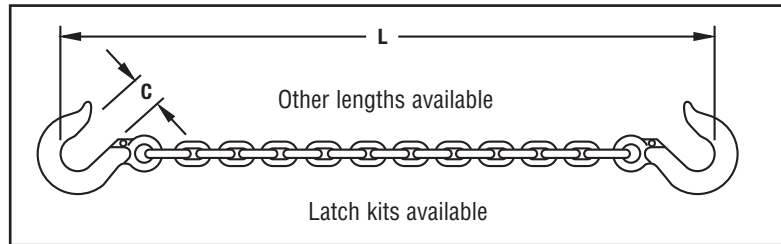
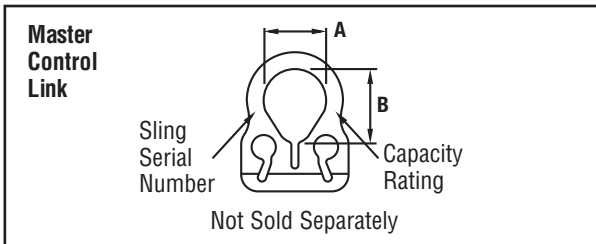
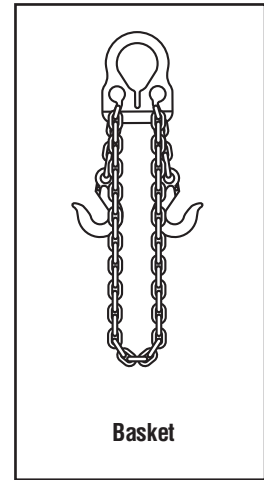
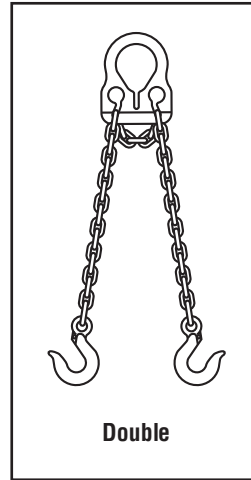
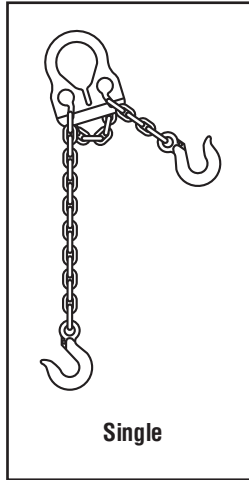
Adjust-A-Link



PRODUCT FEATURES:

- Versatile assembly does many jobs.
- Easily adjustable to accommodate a wide range of applications.
- Heat-treated alloy steel construction.
- Powder coating of Master Control Link helps prevent rust.
- Plate is permanently stamped with capacity and serial number.

QUICKSHIP PROGRAM



SPECIFICATIONS

Model Number	Rated Cap. (lbs.)		Chain Size (in.)	Dimensions (in.)				Weight (lbs.)
	Single @ 90°	Double @ 60°		A	B	C	L	
CAAL-7/32-6 CAAL-7/32-10	2700	4700	7/32	2-3/16	2-11/16	15/16	6 10	5 7
CAAL-9/32-6 CAAL-9/32-10	4300	7400	9/32	2-7/8	3-1/2	1-1/16	6 10	8 11
CAAL-3/8-10 CAAL-3/8-14	8800	15200	3/8	3-3/4	4-5/8	1-9/16	10 14	19 25
CAAL-1/2-10 CAAL-1/2-14	12000	20800	1/2	4-3/8	4-3/8	2	10 14	42 52

Never substitute another chain or exceed the rated capacity. The load bearing chain must be seated at the base of adjusting slot of the Master Control Link. The Alloy Chain and Master Control Link shall not be used separately for general purpose lifting.

7/32, 9/32, and 3/8 Master Control Link uses Grade 100 Chain.

1/2" Master Control Link uses Grade 80 Chain.

WARNING
Minimum rigging angle is 45°.

Alloy Chain Slings

Care & Use of Caldwell® Alloy Chain Slings

CARE:

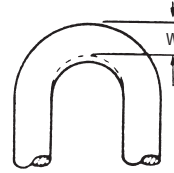
- Store on a rack in a clean, dry place.
- Oil prior to prolong use.
- Do not anneal (temper) alloy chain, connecting links or hook(s). Hot galvanizing requires chain manufacturers advice.

USE:

- Check weight of load.
- Check sling rated load for type of lift, angle of loading (See Load Angle Charts, page I.18.).
- Avoid twists, knots or kinks.
- Center load on base (bowl) of hook unless hook is designed for point loading.
- Balance load.
- Avoid shock loading.
- Be alert for snagging of load.
- Maintain load control.
- Pad sharp corners.
- Keep load off sling.
- Avoid dragging sling over rough surfaces and from under the load.
- Stand clear of the load at all times.
- No person allowed beneath the load.
- Persons are not to ride on sling or load.
- When shortening chain, use only the manufacturer's recommended alloy components.
- For use in temperatures over 400° see chart for capacity reduction.

CHAIN WEAR ALLOWANCE

Determine wear by measuring cross section at link ends. If worn to less than the minimum thickness allowable, chain should be removed from service.



WEAR ALLOWANCE TABLE

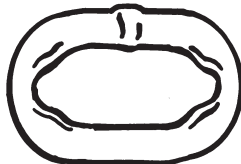
Chain Size (in.)	Minimum Allowable Thickness - W (in.)
9/32 (.281)	.239
3/8 (.375)	.335
1/2 (.500)	.435
5/8 (.625)	.536
3/4 (.750)	.669
7/8 (.875)	.744
1 (1.00)	.870
1-1/4 (1.25)	1.091

Temperature of Chain (°F)	Reduction of Working Temperature		Permanent Reduction of Working Load Limit After Exposure to Temperature	
	Grade 80	Grade 100	Grade 80	Grade 100
Below -40	Do Not Use	Do Not Use	None	None
Below -20	None	Do Not Use	None	None
400	10%	15%	None	None
500	15%	25%	None	5%
600	20%	30%	5%	15%
700	30%	40%	10%	20%
800	40%	50%	15%	25%
900	50%	60%	20%	30%
1000	60%	70%	25%	35%
Over 1000	REMOVE FROM SERVICE			

Examples Of Chain Sling Abuse/Wear Remove Sling From Service...

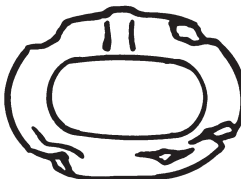
Worn Links

Excessive wear, especially at the bearing points, seriously weakens the chain.



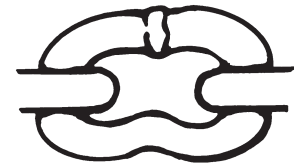
Gouged Links

Damaged by a heavy object being dragged over or dropped on the chain.



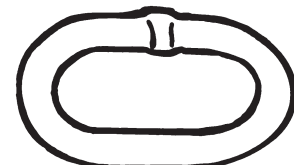
Bent Links

Usually caused by bending over sharp edges of a load.

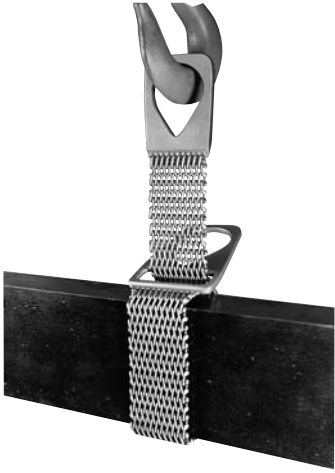


Stretched Links

Indicates the chain has been extremely overloaded or subjected to shock loading. These links would not hinge freely with adjacent links.



Wire Mesh Slings

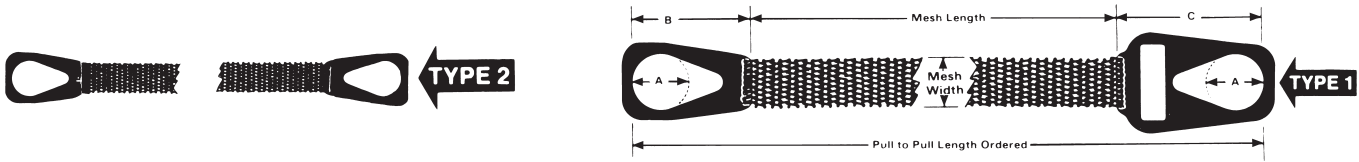


QUICKSHIP PROGRAM

PRODUCT FEATURES:

- Resists abrasion and cutting for greater sling life.
- Low stretch and good flexibility reduce load damage.
- Wide bearing area distributes load to help avoid load damage.
- Alloy steel end fittings - plated for long life.
- Wire mesh is zinc plated - resists corrosion.
- Each sling permanently stamped with capacity and serial number.
- Each sling proof tested and certified.
- Width of mesh helps control and balance load.
- Repairable - thus very cost effective.

Specifications



SPECIFICATIONS

Mesh Width (in.)	Rated Capacities (lbs.)		End Fitting Dimensions (in.)			Model Number			Weight Per (lbs.)	
	Choker	Basket	A	B	C	Gage-Width	Length	Type	3 Ft.	Extra Ft.
2	2300	4600	2	3-7/8	5-5/8	10-2	Specify Pull to Pull Length	Specify Type 1 or 2	6	1.3
3	3500	7000	2-1/4	4-3/8	6-1/4	10-3			8	1.9
4	4800	9600	3	5	6-3/4	10-4			10	2.5
6	7200	14400	3-1/2	5-5/8	7-3/4	10-6			14	3.9
8	9600	19200	4-1/2	7-1/2	9	10-8			19	5.1
10	12000	24000	4-3/4	8	10-7/8	10-10			25	6.4
12	14400	28800	5	8-5/8	11-3/8	10-12			29	7.6
14	16800	33600	5	8-3/4	12-3/4	10-14			38	8.9
16	19200	38400	5-1/4	9-1/8	14-1/4	10-16			50	10
18	21600	43200	5-1/2	9-3/4	15-3/4	10-18			70	11
20	24000	48000	5-3/4	10-1/8	17	10-20	77	13		

Applications



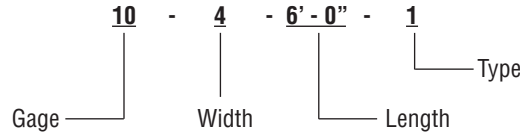
Wire Mesh Slings

How To Order Caldwell® Wire Mesh Slings

Specify:

1. Sling Model Number.
2. Sling length (pull to pull).
3. Specify type (1 or 2).
4. Quantity of slings.
5. Any additional information required to adequately describe order.

Example:



Care & Use of Caldwell® Wire Mesh Slings

CARE:

- Store in a clean dry area to avoid corrosive action.
- Do not use at temperatures above 550° F or below -20° F.

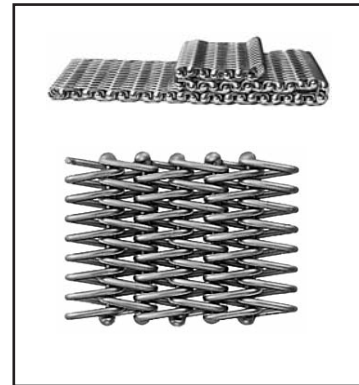
USE:

- Check weight of load.
- Check sling rated load for type of lift, and angle of loading (See Load Angle Charts, page I.18).
- Pad sharp corners .
- Balance load.
- Maintain load control.
- Avoid shock loading.
- Be alert for snagging of load.
- The choker fitting must not be positioned against a load edge or directly on the triangle fitting.
- Stand clear of load at all times.
- Do not lift over people.

INSPECTION CRITERIA: Before each use - check that rated loads are marked on end fittings. Remove the sling from service if any of the following are visible:

- Broken weld or brazed joint along the sling edge.
- Broken wire in any part of the mesh.
- Reduction in wire diameter of 25% due to abrasion or 15% due to corrosion.
- Lack of flexibility due to distortion of the mesh.
- Visible distortion, wear, or cracks in either end fitting.

10 Gage - Heavy Duty



Repair Service Available



WARNING

Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to Load Angle Charts, page I.18.

Cargo Tie Downs

Web Strap Systems

- IN PLANT
- VEHICLES/TRAILERS
- FLATBED TRUCKS

Your Assurance of a Secure Cargo

Caldwell® Cargo Tie-Downs can satisfy just about every cargo-securing requirement whether your cargo is heavy or lightweight, bulky or small... whether it is transported by truck, rail, airplane or ship for long hauls or by forklift just around the corner. High-strength webbing is available in a number of widths from 1" to 4" and tensile strengths from 1,000 to 20,000 lbs. With our large assortment of end fittings, tighteners and optional accessories, binding tasks are quick and easy, usually enabling one person to tie down the payload. Rugged Caldwell® Cargo Tie-Downs are resistant to rotting and mildew, and are non-marring, providing reliability and long service life that your cargo-securing demands.

Properties

1. Web Material

Web straps are soft, flexible and nonconductive. Straps are made from polyester and nylon yarn, which is woven into various widths and thicknesses.

2. Coating Treatment Of Web Straps

Nylon and polyester straps are latex treated for surer grip and resistance to wear and abrasion.

3. Strength

Working Load Limit: The maximum load that may routinely be applied to an assembly or component in straight tension.

Ultimate Strength: The load at which an assembly or component will fail in testing.

A CARGO TIE-DOWN ASSEMBLY STRENGTH IS RATED AT THE LOWEST COMPONENT IN THE STRAP ASSEMBLY.

4. Metal Components

The various tighteners and end fittings making up the assembly have been treated to prevent rust.

5. Accessories - Protective Boots - Ratchet Pads And Corner Protectors

Protective Boots - fit over the webbing to prevent cutting and wear by the edges of the cargo. Boots slide on the webbing to allow proper placement of boot in relation to the cargo edges. See page I.17 for details.

Ratchet Pad - prevents the metal ratchet from marring the cargo. The pad attaches directly to the underside of the metal ratchet. Add RP to order code.

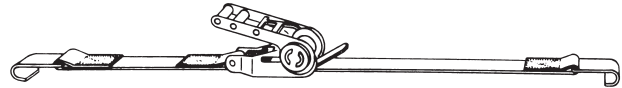
Corner Protectors - movable rust proof copolymer. Protects tie downs from sharp corners. Add CP to order code.

Strap Types

STRAP ASSEMBLY — TYPE I

Consists of a Tightener and Webbing plus End Fittings at each end.

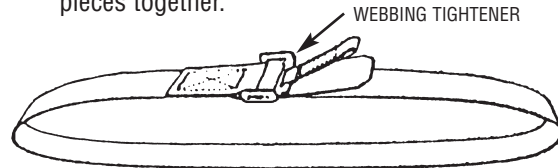
Application: Used to attach at two different hold down points and is tightened down over cargo.



LOOP STRAP — TYPE II

Consists of a Tightener and Webbing.

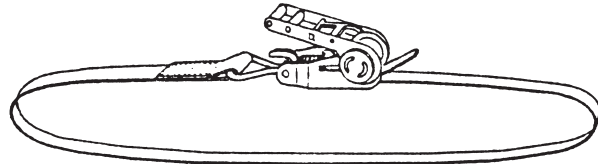
Application: Used to go around cargo and hold pieces together.



LOOP ASSEMBLY — TYPE III

Consists of a Tightener and Webbing plus End Fitting at one end.

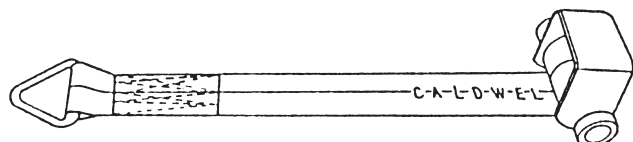
Application: Used to go around cargo and attach to one hold down point or attach fitting to tightener.



WINCH SYSTEMS — TYPE IV

Consists of a Winch and Webbing plus End Fitting at one end.

Application: Used on flat bed trucks; winch is secured to truck; end fitting hooks into attachment point and webbing is tightened down over cargo.



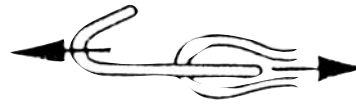
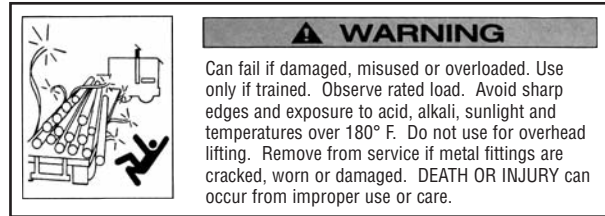
Cargo Tie Downs

Care & Use of Caldwell® Tie-Downs

CARE: Store in a cool, dry dark area away from sun and any ultraviolet light source.

USE:

- Check weight of load.
- Check tie down working load limit.
- Never exceed rated capacities.
- Tie down shall not be twisted, tied into knots, or joined by knotting.
- Tie down shall always be protected from coming in contact with rough or sharp edges.
- Load should be securely blocked and stabilized before tensioning the straps.
- Re-tighten tie downs periodically during run.
- All hardware must be in line with direction of pull to achieve full strength.
- Never use assemblies for anything other than securing cargo. Do not use for lifting loads or towing vehicles.
- Tie downs are not rated for overhead lifting.
- Proper tie down methods should be used in accordance with federal and applicable state regulations.



INSPECTION:

Tiedown inspection records shall be established by the user.

Types Of Inspection:

1. **Initial** - Before any Tie-Down is placed in service it shall be inspected to insure that the correct tiedown is being used as well as to determine that the tiedown meets the requirements of this specification.
2. **Frequent** - Inspection should be made by a qualified person each day before each shift.
3. **Periodic** - Inspection shall be conducted by a qualified person. Frequency of inspection should be based on:
 - A. Frequency of use.
 - B. Severity of service conditions.
 - C. Experience gained on the service life of tie-downs used in similar applications.
 - D. Inspection should be conducted at least monthly.

REMOVE FROM SERVICE:

A tiedown shall be removed from service if any of the following are visible:

- Acid or alkali burns.
- Melting, charring, or weld spatter on any part of the webbing.
- Holes, tears, cuts, snags or embedded particles.
- Broken or worn stitching in load bearing sew patterns.
- Excessive abrasive wear.
- Knots in any part of the webbing.
- Distortion and excessive pitting or corrosion or broken fittings.
- Other apparent defects which cause doubt as to the strength of the tie down.

Cargo Tie Downs

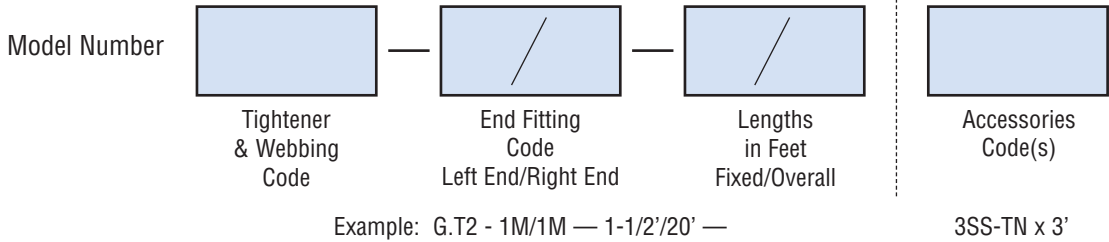
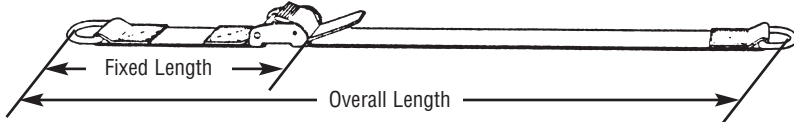
Light Duty 1" Web Strap Systems

Strength 1,000-3,000 lbs.

Caldwell's Light Duty Straps provide an ideal reusable strap for in-plant hold-down applications, at an economical cost. Examples: securing stacked boxes on pallets, binding together or segregating loose bars or bundles, securing cylinders upright, securing a ladder against falling.

CHOOSE STRAP TYPE

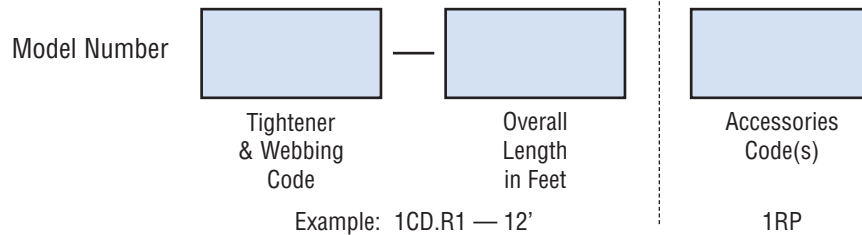
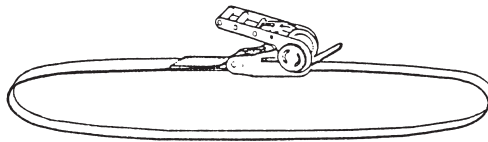
TYPE I-STRAP ASSEMBLY
consists of a TIGHTENER and WEBBING plus END FITTINGS at each end.



HOW TO ORDER:

1. Choose TIGHTENER/WEBBING combination.
2. Choose END FITTINGS.
3. Determine LENGTHS in feet.
 - A. Fixed (Standard 1-1/2')
 - B. Overall
4. Accessories.

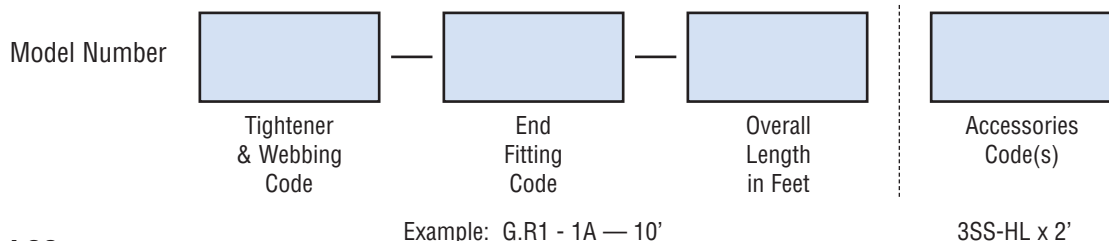
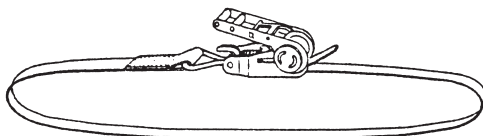
TYPE II-LOOP STRAP
consists of a TIGHTENER and WEBBING.



HOW TO ORDER:

1. Choose TIGHTENER/WEBBING combination.
2. Determine OVERALL LENGTH in feet.
3. Accessories.

TYPE III-LOOP ASSEMBLY
consists of a TIGHTENER and WEBBING plus one END FITTING.



HOW TO ORDER:

1. Choose TIGHTENER/WEBBING combination.
2. Choose END FITTING.
3. Determine OVERALL LENGTH in feet.
4. Accessories.

Cargo Tie Downs

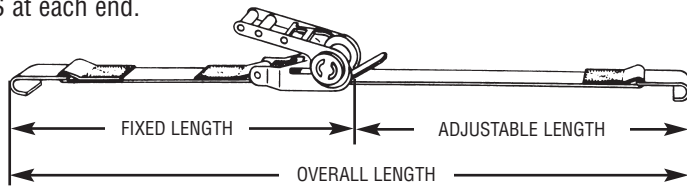
Medium Duty 2" Web Strap Systems

Strength 2,000-5,000 lbs.

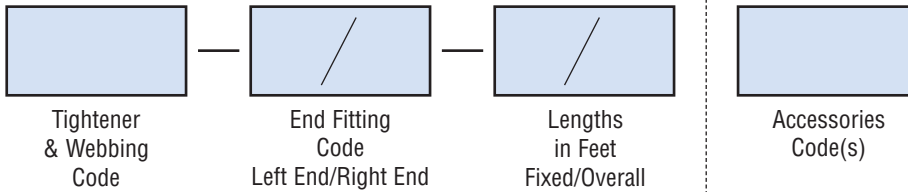
Caldwell's Medium Duty Straps are used for the heavy moves, such as machinery or where movement can generate a substantial force against the tie-downs, as on a vehicle.

CHOOSE STRAP TYPE

TYPE I-STRAP ASSEMBLY consists of a TIGHTENER and WEBBING plus END FITTINGS at each end.



Model Number



Example: K.R5 - 2A/2X — 1-1/2'/12'

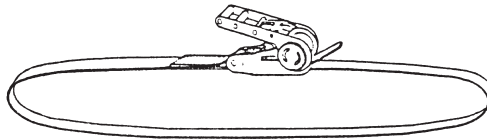
RP

HOW TO ORDER:

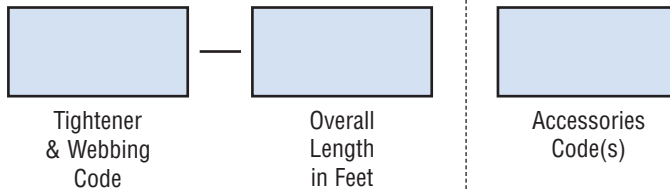
1. Choose TIGHTENER/WEBBING combination.
2. Choose END FITTINGS.
3. Determine LENGTHS in feet.
 - A. Fixed (Standard 1-1/2')
 - B. Overall
4. Accessories.

TYPE II-LOOP STRAP

consists of a TIGHTENER and WEBBING.



Model Number



Example: 2CD.CB — 12'

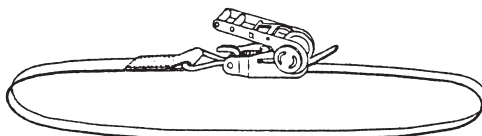
4SS-TN x 1'

HOW TO ORDER:

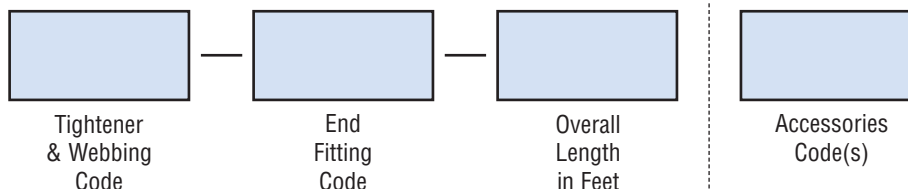
1. Choose TIGHTENER/WEBBING combination.
2. Determine OVERALL LENGTH in feet.
3. Accessories.

TYPE III-LOOP ASSEMBLY

consists of a TIGHTENER and WEBBING plus one END FITTING.



Model Number



Example: K.R5 - 2X — 10'

4SS-W x 3'

HOW TO ORDER:

1. Choose TIGHTENER/WEBBING combination.
2. Choose END FITTING.
3. Determine OVERALL LENGTH in feet.
4. Accessories.

Cargo Tie Downs



Heavy Duty & Flat Bed Truck Tie Down Systems

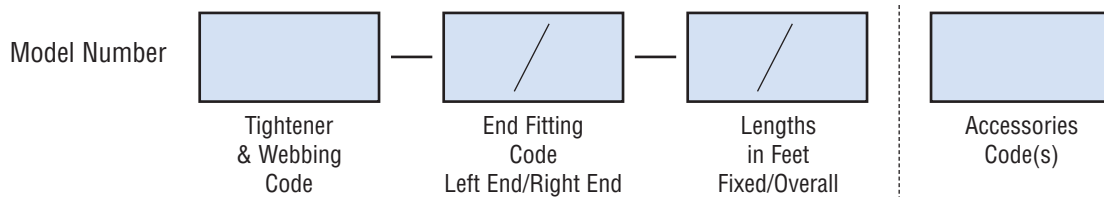
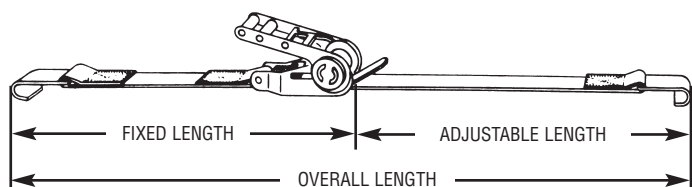
Polyester Web Strap Ratchet & Winch Assemblies

Caldwell® Polyester Straps secure loads efficiently, do not mar, and stretch less than nylon straps. Straps are highly visible yellow and conform to California and Federal specifications. Polyester Straps are available with multiple end fitting configurations.

Ratchet Systems

HOW TO ORDER:

1. Choose TIGHTENER/WEBBING combination.
2. Choose END FITTINGS.
3. Determine LENGTHS in feet.
A. Fixed (Standard 1-1/2')
4. Accessories.



Example: 2P.R10W - 2D/2D — 1-1/2'/20'

EXAMPLES:



2P.R10W-2D/2D-1-1/2'/8'

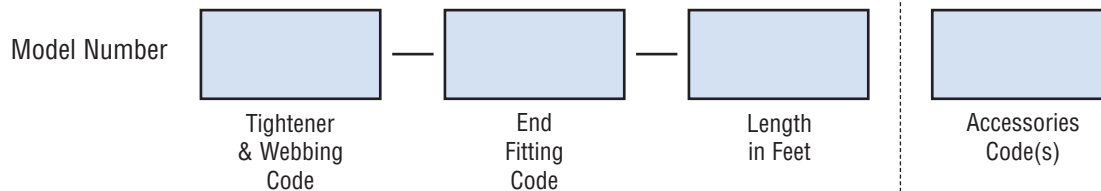
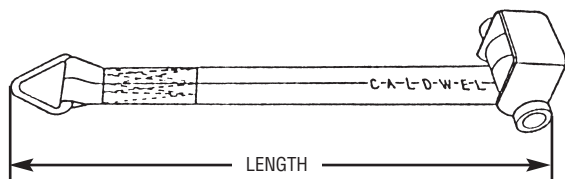


2P.R10W-2Z/2Z-1-1/2'/7'

Winch Systems & Replacement Straps

HOW TO ORDER:

1. Choose TIGHTENER/WEBBING combination.
2. Choose END FITTING.
3. Determine LENGTH in feet.
4. Accessories.



Example: 4P.WS - 4T — 27'

EXAMPLES:



4P.WS-4T-8'



4P.WP-3C-9'








Cargo Tie Downs











The Caldwell Group • 800-628-4263 • www.caldwellinc.com 2014-2016 Master Catalog Caldwell® Section

Heavy Duty & Flat Bed Truck Tie Down Systems

QUICKSHIP PROGRAM

Item	Tighteners				Webbing		
	Type	Ultimate Strength (lbs.)	Working Load Limit (lbs.)	Code	2" Polyester Strength 10000 lbs. Code	3" Polyester Strength 15000 lbs. Code	4" Polyester Strength 20000 lbs. Code
	Ratchet	10000	3333	R10W	2P.R10W	N/A	N/A
	EXAMPLES:  2P.R10W-2Z/2Z-1-1/2'7'						
	Ratchet	15000	5000	R15	N/A	3P.R15	N/A
	EXAMPLES:  3P.R15-2E/2E-3/28'						
	Winch	20000	6666	WS - STANDARD WP - PORTABLE	N/A	N/A	4P.WS 4P.WP
	EXAMPLES:  4P.WS-4T-8'  4P.WP-3C-9'						

End Fittings

Item	Type	Ultimate Strength (lbs.)	Working Load Limit (lbs.)	Code
	Flat Hook	10000	3333	2D
	Heavy Duty Flat Hook	15000	5000	2E
	Turned Snap Hook	10000	3333	2N
	Delta Ring	10000	3333	2Z
	Chain Anchor 12"	16200	5400	3B
	Chain Anchor 18"	16200	5400	3C
	Grab Hook	16200	5400	3G
	Heavy Duty Delta Ring	16200	5400	4T

The assembly system working load limit (WLL) is determined by the component with the lowest rated WLL, whether it is the anchor point or the synthetic web tie down.

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