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Lifting Beams



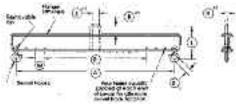
Below the Hook Lifting

Model AHB - Adjustable Hook Lifting Beam

The Adjustable Hook Lifting Beam is an ideal solution for lifting off center loads or varying load lengths where headroom is critical.

Top and bottom flange stiffeners are added to strengthen the beam laterally in case of sideward movement caused by shifting of the load.

All lifters are proof tested exceeding ANSI/ASME B30.20 standards and test certificate issued. Painted safety yellow and clearly marked on both sides with rated capacity to conform to OSHA standards.



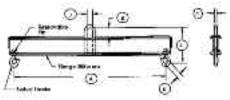
- 1 Maximum stock diameter refers to the size of material that will fit into the swivel hook opening.
- ² All loads must be centered under the lifting bail.
- ³ Please verify that the lifting bail size will suit crane hook.
- ⁴ Other capacities and lengths available upon request.

Model FHB - Fixed Hook Lifting Beam

The Fixed Hook Lifting Beam is an ideal solution for lifting loads where headroom is critical.

Top and bottom flange stiffeners are added to strengthen the beam laterally in case of sideward movement caused by shifting of the load.

All lifters are proof tested exceeding ANSI/ASME B30.20 standards and test certificate issued. Painted safety yellow and clearly marked on both sides with rated capacity to conform to OSHA standards.



- Maximum stock diameter refers to the size of material that will fit into the swivel hook opening.
- All loads must be centered under the lifting bail.
 Blaces verify that the lifting bail size.
- ³ Please verify that the lifting bail size will suit crane hook.
 ⁴ Other capacities and lengths avail-
- able upon request.

Capacity ⁴ (lbs)	Length (in)	Min. Dist. Between Hooks (in)	Total Height (in)	Hook Space (in)	Bail ^{2,3} Size (in)	Max. ¹ Stock Dia. (in)	Approx. Lifter Wt. (lbs)	Model Number
	Α	В	L	М	НЈК	S		
1,000 1,000 1,000 1,000 1,000	36 60 72 96 120	12 24 36 48 48	11-1/2 11-1/2 11-1/2 12-1/2 12-1/2	4 6 8 12	3/4 x 2 x 4 3/4 x 2 x 4	1-1/32 1-1/32 1-1/32 1-1/32 1-1/32	42 67 80 123 148	AHB-1-36-12 AHB-1-60-24 AHB-1-72-36 AHB-1-96-48 AHB-1-120-48
2,000 2,000 2,000 2,000 2,000 2,000	36 60 72 96 120	12 24 36 48 48	12-1/2 12-1/2 13-1/2 13-1/2 14-1/2	4 6 8 12	3/4 x 2 x 4 3/4 x 2 x 4	1-1/32 1-1/32 1-1/32 1-1/32 1-1/32	50 78 111 145 207	AHB-2-36-12 AHB-2-60-24 AHB-2-72-36 AHB-2-96-48 AHB-2-120-48
4,000 4,000 4,000 4,000	48 72 96 120	24 36 48 48	14 15 16 17	4 6 8 12	1 x 2 x 4 1 x 2 x 4 1 x 2 x 4 1 x 2 x 4 1 x 2 x 4	1-1/16 1-1/16 1-1/16 1-1/16	82 132 201 279	AHB-4-48-24 AHB-4-72-36 AHB-4-96-48 AHB-4-120-48
6,000 6,000 6,000 6,000	48 72 96 120	24 36 48 48	17-3/4 17-3/4 18-3/4 19-3/4	4 6 8 12	1-1/2 x 4 x 6 1-1/2 x 4 x 6 1-1/2 x 4 x 6 1-1/2 x 4 x 6 1-1/2 x 4 x 6	1-1/16 1-1/16 1-1/16 1-1/16	135 180 258 358	AHB-6-48-24 AHB-6-72-36 AHB-6-96-48 AHB-6-120-48
8,000 8,000 8,000 8,000	60 96 120 144	36 48 48 72	21 22 22 25-7/8	6 8 12 18	1-1/2 x 4 x 8 1-1/2 x 4 x 8 1-1/2 x 4 x 8 1-1/2 x 4 x 8 1-1/2 x 4 x 8	1-7/32 1-7/32 1-7/32 1-1/2	177 294 359 618	AHB-8-60-36 AHB-8-96-48 AHB-8-120-48 AHB-8-144-72
10,000 10,000 10,000 10,000	96 120 180 240	48 48 72 132	27-7/8 27-7/8 29-3/4 32-3/4	8 12 18 18	1-3/4 x 4 x 10 1-3/4 x 4 x 10 1-3/4 x 4 x 10 1-3/4 x 4 x 10 1-3/4 x 4 x 10	1-1/2 1-1/2 1-1/2 1-7/8	436 551 1,085 1,572	AHB-10-96-48 AHB-10-120-48 AHB-10-180-72 AHB-10-240-132
15,000 15,000 15,000 15,000	96 120 180 240	48 48 72 132	30-1/8 30-1/8 33-1/8 36-1/8	8 12 18 18	1-3/4 x 5 x 10 1-3/4 x 5 x 10 1-3/4 x 5 x 10 1-3/4 x 5 x 10 1-3/4 x 5 x 10	1-7/8 1-7/8 1-7/8 1-7/8	588 750 1,213 1,977	AHB-15-96-48 AHB-15-120-48 AHB-15-180-72 AHB-15-240-132
20,000 20,000 20,000 20,000	96 120 180 240	48 48 72 132	33-1/8 33-1/8 36 36	8 12 18 18	1-3/4 x 5 x 10 1-3/4 x 5 x 10 1-3/4 x 5 x 10 1-3/4 x 5 x 10 1-3/4 x 5 x 10	1-7/8 1-7/8 1-7/8 1-7/8	735 875 1,515 1,969	AHB-20-96-48 AHB-20-120-48 AHB-20-180-72 AHB-20-240-132
40,000 40,000 40,000	120 180 240	48 72 132	46 46 46	12 18 18	1-3/4 x 6 x 18 1-3/4 x 6 x 18 1-3/4 x 6 x 18	2-1/2 2-1/2 2-1/2	1,032 1,829 2,719	AHB-40-120-48 AHB-40-180-72 AHB-40-240-132
60,000 60,000 60,000	120 180 240	48 72 132	50-1/2 50-1/2 50-1/2	12 18 18	2 x 6 x 18 2 x 6 x 18 2 x 6 x 18 2 x 6 x 18	3-3/8 3-3/8 3-3/8	1,447 2,328 3,336	AHB-60-120-48 AHB-60-180-72 AHB-60-240-132
Capacity ⁴	Leng	th Total	Height	Bail Siz	e ^{2,3} Max St	ock ¹ Appr	ox. Lifter	Model

	Capacity ⁴	Length	Total Height	Bail Size ^{2,3}	Max Stock ¹	Approx. Lifter	Model
	(lbs)	(in)	(in)	(in)	Dia. (in)	Wt. (lbs)	No.
		Α	L	нјк	S		
	1,000	36	11-1/2	3/4 x 2 x 4	1-1/32	47	FHB-1-36
	1,000	60	11-1/2	3/4 x 2 x 4	1-1/32	74	FHB-1-60
	1,000	72	11-1/2	3/4 x 2 x 4	1-1/32	87	FHB-1-72
	1,000	96	12-1/2	3/4 x 2 x 4	1-1/32	136	FHB-1-96
	1,000	120	12-1/2	3/4 x 2 x 4	1-1/32	168	FHB-1-120
	2,000	36	12-1/2	3/4 x 2 x 4	1-1/32	56	FHB-2-36
	2,000	60	12-1/2	3/4 x 2 x 4	1-1/32	88	FHB-2-60
	2,000	72	131/2	3/4 x 2 x 4	1-1/32	121	FHB-2-72
	2,000	96	13-1/2	3/4 x 2 x 4	1-1/32	158	FHB-2-96
	2,000	120	14-1/2	3/4 x 2 x 4	1-1/32	227	FHB-2-120
	4,000	48	14	1 x 2 x 4	1-1/16	88	FHB-4-48
	4,000	72	15	1 x 2 x 4	1-1/16	142	FHB-4-72
	4,000	96	16	1 x 2 x 4	1-1/16	214	FHB-4-96
	4,000	120	17	1 x 2 x 4	1-1/16	299	FHB-4-120
	6,000	48	17-3/4	1-1/2 x 4 x 6	1-1/16	128	FHB-6-48
2	6,000	72	17-3/4	1-1/2 x 4 x 6	1-1/16	178	FHB-6-72
	6,000	96	18-3/4	1-1/2 x 4 x 6	1-1/16	256	FHB-6-96
	6,000	120	19-3/4	1-1/2 x 4 x 6	1-1/16	355	FHB-6-120
	8,000	60	21	1-1/2 x 4 x 8	1-7/32	175	FHB-8-60
	8,000	96	22	1-1/2 x 4 x 8	1-7/32	292	FHB-8-96
	8,000	120	22	1-1/2 x 4 x 8	1-7/32	356	FHB-8-120
	8,000	144	25-7/8	1-1/2 x 4 x 8	1-1/2	610	FHB-8-144
	10,000	96	27-7/8	1-3/4 x 4 x 10	1-1/2	437	FHB-10-96
	10,000	120	27-7/8	1-3/4 x 4 x 10	1-1/2	543	FHB-10-120
	10,000	180	29-3/4	1-3/4 x 4 x 10	1-1/2	1,069	FHB-10-180
	10,000	240	32-3/4	1-3/4 x 4 x 10	1-7/8	1,556	FHB-10-240
	15,000	96	30-1/8	1-3/4 x 5 x 10	1-7/8	584	FHB-15-96
	15,000	120	30-1/8	1-3/4 x 5 x 10	1-7/8	745	FHB-15-120
	15,000	180	33-1/8	1-3/4 x 5 x 10	1-7/8	1,192	FHB-15-180
	15,000	240	36-1/8	1-3/4 x 5 x 10	1-7/8	1,961	FHB-15-240
	20,000	96	33-1/8	1-3/4 x 5 x 10	1-7/8	702	FHB-20-96
	20,000	120	33-1/8	1-3/4 x 5 x 10	1-7/8	861	FHB-20-120
	20,000	180	36	1-3/4 x 5 x 10	1-7/8	1,499	FHB-20-180
	20,000	240	36	1-3/4 x 5 x 10	1-7/8	1,958	FHB-20-240
	40,000	120	46	1-3/4 x 6 x 18	2-1/2	1,034	FHB-40-120
	40,000	180	46	1-3/4 x 6 x 18	2-1/2	1,859	FHB-40-180
	40,000	240	46	1-3/4 x 6 x 18	2-1/2	2,738	FHB-40-240
	60,000	120	50-1/2	2 x 6 x 18	3-3/8	1,425	FHB-60-120
	60,000	180	50-1/2	2 x 6 x 18	3-3/8	2,378	FHB-60-180
	60,000	240	50-1/2	2 x 6 x 18	3-3/8	3,384	FHB-60-240



Lifting Beams

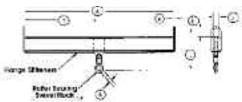
Below the Hook Lifting

Model TBB - Twin Bail Beam For Two Hoist

The Twin Bail Beam is an ideal solution for utilizing two hoists to increase lifting capacity. The roller bearing swivel hook allows the load to be rotated at the next manufacturing location and pivots to prevent binding when one end of the beam is raised or lowered more rapidly than the other.

Top and bottom flange stiffeners are added to strengthen the beam laterally in case of sideward movement caused by shifting of the load.

All lifters are proof tested exceeding ANSI/ASME B30.20 standards and test certificate issued. Painted safety yellow and clearly marked on both sides with rated capacity to conform to OSHA standards.



¹ Maximum stock diameter refers to the size of material that will fit into the swivel hook opening.

² All loads must be centered under the lifting bail.

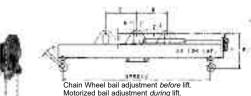
³ Please verify that the lifting bail size will suit crane hook. ⁴ Can be supplied with roller bearing swivel hook or standard swivel hook.

⁵ Other capacities and lengths available upon request.

Model 26 - Load Leveler Lifting Beam

- · Ideal for infinite adjustment of bail.
- · Adjustable spread options available.
- · Swivel hooks with hook latches standard.
- · Motorized adjustable bail available.
- Wide range of sizes and capacities available.
- · Designed and manufactured to ASME B30.20.

Capacity ⁴	Length	Total Height	Bail Size ^{2,3}	Max. Stock ^{1,5}	Approx. Lifter	Model
(lbs)	(in)	(in)	(in)	Dia. (in)	Wt. (Ibs)	No.
	Α	L	нјк	S		
4,000	72	21-7/16	1 x 2 x 4	1-11/32	164	TBB-4-72
4,000	96	22-7/16	1 x 2 x 4	1-11/32	239	TBB-4-96
4,000	120	23-7/16	1 x 2 x 4	1-11/32	326	TBB-4-120
6,000	72	24-7/16	1 x 4 x 6	1-11/32	202	TBB-6-72
6,000	96	25-7/16	1 x 4 x 6	1-11/32	291	TBB-6-96
6,000	120	26-7/16	1 x 4 x 6	1-11/32	372	TBB-6-120
8,000 8,000 8,000 8,000	60 96 120 144	28-15/16 29-15/16 29-15/16 32-15/16	1 x 4 x 8 1 x 4 x 8 1 x 4 x 8 1 x 4 x 8 1 x 4 x 8	1-11/16 1-11/16 1-11/16 1-11/16	206 327 391 644	TBB-8-60 TBB-8-96 TBB-8-120 TBB-8-144
10,000 10,000 10,000 10,000	96 120 180 240	34-15/16 34-15/16 34-15/16 37-15/16	1 x 4 x 10 1 x 4 x 10 1 x 4 x 10 1 x 4 x 10 1 x 4 x 10	1-11/16 1-11/16 1-11/16 1-11/16	482 583 1,099 1,599	TBB-10-96 TBB-10-120 TBB-10-180 TBB-10-240
15,000 15,000 15,000 15,000	96 120 180 240	38-1/8 38-1/8 41-1/8 44-1/8	1-1/4 x 5 x 10 1-1/4 x 5 x 10 1-1/4 x 5 x 10 1-1/4 x 5 x 10 1-1/4 x 5 x 10	2-1/16 2-1/16 2-1/16 2-1/16 2-1/16	632 793 1,248 2,017	TBB-15-96 TBB-15-120 TBB-15-180 TBB-15-240
20,000 20,000 20,000 20,000	96 120 180 240	44-3/32 44-3/32 47-3/32 44-3/32	1-1/2 x 5 x 10 1-1/2 x 5 x 10 1-1/2 x 5 x 10 1-1/2 x 5 x 10 1-1/2 x 5 x 10	2-1/4 2-1/4 2-1/4 2-1/4	857 993 1,669 2,128	TBB-20-96 TBB-20-120 TBB-20-180 TBB-20-240
40,000	120	61-1/16	1-1/2 x 6 x 18	3-5/8	1,346	TBB-40-120
40,000	180	61-1/16	1-1/2 x 6 x 18	3-5/8	2,171	TBB-40-180
40,000	240	61-1/16	1-1/2 x 6 x 18	3-5/8	3,050	TBB-40-240
60,000	120	63-3/8	1-3/4 x 6 x 18	3-3/4	1,869	TBB-60-120
60,000	180	63-3/8	1-3/4 x 6 x 18	3-3/4	2,822	TBB-60-180
60,000	240	63-3/8	1-3/4 x 6 x 18	3-3/4	3,828	TBB-60-240



Capacity	Catalog # Head Room (in)				8	pread (in Fee	t)						Other Dimensions	
(tons)	Wt. (lbs)	4' 6'		8'	10'	12'	14'	16'	18'	20'	24'	(in)		
2 2 2	CAT. H.R.(in) WT.(lbs)	26-2-4 15-1/8 135	26-2-6 15-1/8 177	26-2-8 16-1/8 248	26-2-10 17-1/8 329	26-2-12 17-1/8 377	26-2-14 18-1/8 481	26-2-16 18-1/8 538	26-2-18 19-1/8 680	26-2-20 19-1/8 750	26-2-24' 20-1/8 1,265	A=1-1/2 B=3 C=5	T=5/8 0=1	
5 5 5	CAT. H.R.(in) WT.(lbs)	26-5-4 20-1/2 166	26-5-6 21-1/2 270	26-5-8 22-1/2 382	26-5-10 23-1/2 475	26-5-12 25-1/2 681	26-5-14 25-1/2 777	26-5-16 25-1/2 869	26-5-18 28-1/2 1,455	26-5-20 28-1/2 1,603	26-5-24 28-1/2 2,345	A=2 B=4 C=7	T=1 0=1-11/32	
10 10 10	CAT. H.R.(in) WT.(lbs)	26-10-4 25-3/4 257	26-10-6 28-3/4 493	26-10-8 28-3/4 602	26-10-10 31-3/4 849	26-10-12 31-3/4 1,094	26-10-14 31-3/4 1,243	26-10-16 31-3/4 1,388	26-10-18 34-3/4 1,875	26-10-20 34-3/4 2,056	26-10-24 34-3/4 2,560	A=2 B=4 C=7	T=1-1/4 0=2-1/16	
15 15 15	CAT. H.R.(in) WT.(lbs)	26-15-4 30-1/2 376	26-15-6 33-1/2 565	26-15-8 33-1/2 622	26-15-10 33-1/2 972	26-15-12 36-1/2 1,319	26-15-14 36-1/2 1,418	26-15-16 36-1/2 1,513				A=2-1/2 B=5 C=9	T=-1-1/2 0=2-1/16	
20 20 20	CAT. H.R.(in) WT.(lbs)	26-20-4 34 445	26-20-6 37 798	26-20-8 37 900	26-20-10 37 997	26-20-12 37 1,353						A=2-1/2 B=5 C=9	T=1-1/2 0=2-1/4	
Bail Ad	justment (in)	D=8	D=12	D=16	D=20	D=24	D=28	D=32	D=36	D=40	D=48			

HOW TO SPECIFY BEAMS

Some beams are stocked for quick delivery but most are made to order. We stock many of the component parts such as hooks, shackles, hoist hook attachment loops and removable "Faspins." However, structural components are cut to length as required. Therefore, for lowest initial cost and operating savings, specify a lifter that meets your particular requirements exactly as to capacity, length, hook adjustment, etc. Deliveries for customer specified beams are the same as for non-stock catalog items.

For odd shaped loads, please provide the following:

- 1 Max. weight lbs
- 2 Shape of load. Is the load a box, drum or other cylinder, assembly of machines mounted

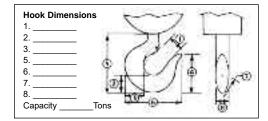
on a rectangular sub-base, bundle, or irregularly-shaped object? Submit a sketch for complex loads

- 3 Where is the center of gravity?
- a Horizontal distance from one end
- b Horizontal distance from one side
- c Vertical distance from bottom

(If there are several different loads, give dimensions a, b and c for each.)

- 4 Give locations and dimensions of holes. lugs or openings to be used for lifting. Location of these with respect to outline dimensions and center of gravity location is important.
- 5 Are there parts of the object that will be

- damaged by contact with slings?
- 6 Give size and location of spacing materials under the load.
- 7 Is it necessary to tilt or change the angle of the load before setting down?





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Below the Hook Lifting

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Lifting Beams

Model 22 - Heavy Duty Twin Basket Sling Lifting Beam

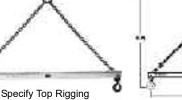
- Designed to be used with slings in a basket hitch.
- Specially designed hooks with hook latches minimize
- Two sets of fixed hooks are standard in all lengths over 4'.
- The inner set of hooks are 1/2 the overall spread.
- Extra spreads available upon request.
- Designed and manufactured to ASME B30.20.

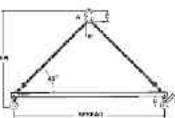
Capacity	Catalog# Head Room (in)	Spread (in Feet)										Othe Dimens			
(tons)	Wt. (lbs)	3'	4'	6'	8'	10'	12'	14'	16'	18'	20'	24'	30'	(in	
1/2 1/2 1/2	CAT. H.R.(in) WT.(lbs)	22-1/2-3 8-1/2 50	22-1/2-4 8-1/2 65	22-1/2-6 8-1/2 110	22-1/2-8 8-1/2 150	22-1/2-10 9-1/2 200	22-1/2-12 9-1/2 220	22-1/2-14 10-1/2 298	22-1/2-16 10-1/2 331	22-1/2-18 11-1/2 424	22-1/2-20 11-1/2 463	22-1/2-24 12-1/2 627	22-1/2-30 13-1/2 855	A=1-1/2 B=3 C=5	T=5/8 0=2
1 1 1	CAT. H.R.(in) WT.(Ibs)	22-1/3 8-1/2 50	22-1-4 8-1/2 65	22-1-6 9-1/2 145	22-1-8 9-1/2 210	22-1-10 10-1/2 230	22-1-12 11-1/2 290	22-1-14 11-1/2 338	22-1-16 12-1/2 390	22-1-18 13-1/2 539	22-1-20 13-1/2 588	22-1-24 15-1/2 907	22-1-30 15-1/2 1,150	A=1-1/2 B=3 C=5	T=5/8 0=2
2 2 2	CAT. H.R.(in) WT.(Ibs)	22-2-3 9-1/2 70	22-2-4 10-1/2 90	22-2-6 101/2 160	22-2-8 11-1/2 225	22-2-10 12-1/2 300	22-2-12 12-1/2 375	22-2-14 13-1/2 447	22-2-16 14-1/2 515	22-2-18 15-1/2 725	22-2-20 15-1/2 815	22-2-24 17-1/2 1,221	22-2-30 20-1/2 2,272	A=1-1/2 B=3 C=5	T=5/8 0=3
5 5 5	CAT. H.R.(in) WT.(lbs)	22-5-3 13-1/2 90	22-5-4 14-1/2 160	22-5-6 15-1/2 275	22-5-8 16-1/2 350	22-5-10 16-1/2 450	22-5-12 17-1/2 500	22-5-14 19-1/2 722	22-5-16 19-1/2 835	22-5-18 22-1/2 1,398	22-5-20 22-1/2 1,556	22-5-24 22-1/2 2,144	22-5-30 25-1/2 3,119	A=2 B=4 C=7	T=1 0=3
7-1/2 7-1/2 7-1/2	CAT. H.R.(in) WT.(Ibs)	22-7 1/2-3 14-1/2 155	22-7 1/2-4 15-1/2 180	22-7 1/2-6 16-1/2 330	22-7 1/2-8 17-1/2 410	22-7 1/2-10 19-1/2 500	22-7 1/2-12 19-1/2 700	22-7 1/2-14 22-1/2 1,162	22-7 1/2-16 22-1/2 1,300	22-7 1/2-18 22-1/2 1,468	22-7 1/2-20 22-1/2 1,606	22-7 1/2-24 25-1/2 2,354	22-7 1/2-30 25-1/2 2,877	A=2 B=4 C=7	T=1-1/4 0=3-1/2
10 10 10	CAT. H.R.(in) WT.(lbs)	22-10-3 15-1/2 150	22-10-4 16-1/2 200	22-10-6 17-1/2 320	22-10-8 19-1/2 500	22-10-10 19-1/2 590	22-10-12 22-1/2 700	22-10-14 22-1/2 1,147	22-10-16 25-1/2 1,299	22-10-18 25-1/2 1,741	22-10-20 25-1/2 1,943	22-10-24 25-1/2 2,335	22-10-30 25-1/2 2,962	A=2 B=4 C=7	T=1-1/4 0=3-1/2
15 15 15	CAT. H.R.(in) WT.(lbs)	22-15-3 18-1/2 397	22-15-4 19-1/2 471	22-15-6 21-1/2 553	22-15-8 21-1/2 12,40	22-15-10 24-1/2 1,256	22-15-12 24-1/2 1,980	22-15-14 24-1/2 2,065	22-15-16 27-1/2 2,108	22-15-18 27-1/2 2,391	22-15-20 27-1/2 2,584	22-15-24 27-1/2 4,045		A=2-1/2 B=5 C=9	T=1-1/2 0=4
20 20 20	CAT. H.R.(in) WT.(Ibs)	22-20-3 19-1/2 253	22-20-4 21-1/2 328	22-20-6 21-1/2 910	22-20-8 24-1/2 1,240	22-20-10 24-1/2 1,581	22-20-12 24-1/2 1,740	22-20-14 27-1/2 1,494	22-20-16 27-1/2 1,898	22-20-18 27-1/2 2,050	22-20-20 27-1/2 2,247			A=2-1/2 B=5 C=8	T=1-1/2 0=4

Spreader Beams

Model 30 - Fixed Spreader Beams

- Ideal where headroom is not limited.
- · Adds stability to lift.
- \bullet Available with chain, wire rope or Adjust-A-Leg $^{\circ}$ top rigging options.
- Available with off center load adjustment.
- Wide range of additional sizes and capacities available.
- Designed and manufactured to ASME B30.20.
- NOTE: Weight = Beam & hooks only (no top rigging).





Capacity	Catalog # Head Room (in)					Spread in Fee	t			Other Dimensions		
(tons)	Wt. (lbs)	4'	6'	8'	10'	12'	16'	20'	24'	(in)		
2 2 2	CAT. H.R. (in) WT. (lbs)	30-2-4 33 45	30-2-6 45 60	30-2-8 57 82	30-2-10 70 95	30-2-12 82 115	30-2-16 106 225	30-2-20 132 408	30-2-24 156 445	A=1/2 B=2-1/2 C=5	F=4-1/2 O=31-32	
5 5 5	CAT. H.R. (in) WT. (lbs)	30-5-4 37 62	30-5-6 49 78	30-5-8 61 100	30-5-10 73 117	30-5-12 85 168	30-5-16 109 305	30-5-20 133 435	30-5-24 158 661	A=1 B=3-1/2 C=7	F=6 O=1-11/32	
10 10 10	CAT. H.R. (in) WT. (lbs)	30-10-4 41 100	30-10-6 53 122	30-10-8 65 156	30-10-10 77 180	30-10-12 89 240	30-10-16 113 380	30-10-20 137 532	30-10-24 163 915	A=1-1/4 B=4-3/8 C=8-3/4	F=8-1/8 O=1-11/16	
15 15 15	CAT. H.R. (in) WT. (lbs)	30-15-4 43 126	30-15-6 55 155	30-15-8 67 185	30-15-10 80 242	30-15-12 92 270	30-15-16 116 415	30-15-20 141 665	30-15-24 167 953	A=1-1/2 B=5-1/4 C=10-1/2	F=9-1/4 O=2-1/16	
20 20 20	CAT. H.R. (in) WT. (lbs)	30-20-4 45 170	30-20-6 57 200	30-20-8 69 233	30-20-10 82 315	30-20-12 94 350	30-20-16 118 460	30-20-20 143 775	30-20-24 170 1,341	A=1-3/4 B=6 C=12	F=9-3/4 O=2-1/4	
30 30 30	CAT. H.R. (in) WT. (lbs)		30-30-6 62 285	30-30-8 74 402	30-30-10 87 440	30-30-12 100 530	30-30-16 125 888	30-30-20 150 1,390		A=2 B=7 C=14	F=13 O=3	
40 40 40	CAT. H.R. (in) WT. (lbs)		30-40-6 64 563	30-40-8 76 695	30-40-10 89 781	30-40-12 102 1,058	30-40-16 127 1,364			A=2 B=7 C=14	F=13 O=3	

Top Rigging Options

Option C - Chain top rigging from beam to crane hook.

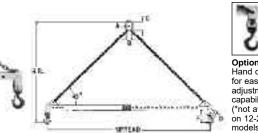
Option W - Wire rope top rigging from beam to crane hook.

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

- · Ideal where headroom is not limited.
- · Adds stability to lift.
- · Telescopic adjustable spread standard.
- Available with chain, wire rope or Adjust-A-Leg[®] top rigging options.
- Available with off center load adjustment.
- Wide range of additional sizes and capacities available.
- Designed and manufactured to ASME B30.20.
- NOTE: Weight = Beam & hooks only (no top rigging).





Model 76

Model 76 E

Head Capacity	Catalog# Room (in)					Spre	ad in Fee	t (Adjustments i	n 1" Incre	ments)				Other Dimensions	
(tons)	Wt. (lbs)		Min.	Max.		Min.	Max.		Min.	Max.		Min.	Max.	(ii	
2 2 2	CAT. H.R.(in) WT.(lbs)	32-2-4/6 65	4'-0 57	6'-0 43	32-2-6/10 93	6'-0 89	10'-0 67	32-2-8/14 188	8'-0 121	14'-0 91	32-2-12-20* 300	12'-0 165	20'-0 127	A=1/2 B=2-1/2 C=5	F=7-1/2 0=1
5 5 5	CAT. H.R.(in) WT.(lbs)	32-5-4/6 96	4'-0 59	6'-0 45	32-5-6/10 150	6'-0 91	10'-0 69	32-5-8/14 195	8'-0 123	14'-0 93	32-5-12-20* 325	12'-0 167	20'-0 129	A=1 B=3-1/2 C=7	F=9 0=1-11/32
10 10 10	CAT. H.R.(in) WT.(lbs)	32-10-4/6 145	4'-0 61	6'-0 47	32-10-6/10 190	6'-0 93	10'-0 71	32-10-8/14 350	8'-0 125	14'-0 95	32-10-12-20* 520	12'-0 169	20'-0 131	A=1-1/4 B=4-3/8 C=8-3/4	F=11-1/2 0=1-11/16
15 15 15	CAT. H.R.(in) WT.(lbs)	32-15-4/6 195	4'-0 63	6'-0 49	32-15-6/10 235	6'-0 95	10'-0 73	32-15-8/14 515	8'-0 127	14'-0 96	32-15-12-20* 710	12'-0 171	20'-0 133	A=1-1/2 B=5-1/4 C=10-1/2	F=13 0=2-1/16

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-Leq[®] sling top rigging for off center load adjustment (not included in Quickship Program).

Model 76 Series - Fiberglass Spreader Beams

Used for applications that require a non-conductive beam such as lifting industrial fork lift truck batteries.

Caldwell Battery Lifting Beams provide a convenience in battery handling. The beams are non-conductive, light weight and very easy to handle, making them ideal for moving batteries to and from forklift trucks or from one storage location to another.

- Lightweight only weighs 14-18 lbs. 70% lighter than other beams.
- Models are available for handling batteries of equal length or of different lengths.
- Heavy duty 4800 lb. and 7000 lb. capacities. Non-conductive fiberglass beam construction. Acid-resistant, coated polyester straps and hooks.

Model 76 - Fixed (Batteries of Equal Length)

Model	Rated Capacity	Std. Spread		D	imensions (in)			Wt.				
No.	(lbs.)	(in)	Α	A B C D E F									
76-2.4 76-3.5	4,800 7,000	36 36	5/8 3/4	3 2-3/4	6 5-1/2	11 12	27/32 1	21/32 1	14 16				

For battery beams other than standard spread. Measure distance between lifting points. Specify Model 76 with beam spread (in even inches) equal to length measured.

Model 76E - Adjustable (Batteries of Different Length)

Model	Rated Capacity	Std. Spread		D	imensions (in)			Wt.
No.	(lbs.)	(in)	Α	A B C D				E F	
76E-2.4 76E-3.5	4,800 7,000	36 36	5/8 3/4	3 2-3/4	6 5-1/2	21 22-1/2	1 1-1/8	1 1-1/8	16 18

For battery beams other than standard spread. Take average of shortest and longest batteries, and specify Model 76E with beam spread (in even inches) equal to average lengths. Battery length must be within 12 inches, shortest to longest.

NOTE: For Model 76E lifting beams, battery length cannot differ more than 6 inches from length of beam spread.

NEW SAFETY STANDARD AVAILABLE

Hazards in using Below Hook Lifters cannot be overcome solely by mechanical means. It is absolutely necessary that the lifter operator himself exercise intelligence, care, common sense and experience to anticipate motions that may occur as the load is lifted. It is essential that the lifter operator be trained in the safe operation of lifters and be alert and competent.

We strongly recommend that users obtain a copy of the new ANSI Safety/Standard Belowthe-Hook Lifting Devices. The standard covers marking, inspection, testing, maintenance and safe operation of all types of below-the-hook lifters. It can be ordered for \$40.00 plus shipping and includes 5 years of addendi service. It is \$32.00 for ASME members who furnish their name and ASME number. The standard can be ordered from:

Enter: Apresd. Rev. 15

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Renau .

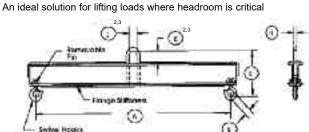
ASME Order Dept: 22 Law Dr., Fairfield, NJ 07007-2300 Phone: 1-201-882-1167 or 1-800-THE-ASME **Custom Lifters**



Below the Hook Lifting

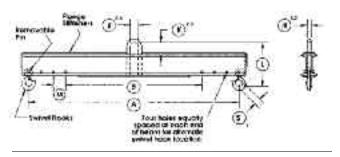
Custom Lifting Beams

Model FHB - Fixed Hook Lifting Beam



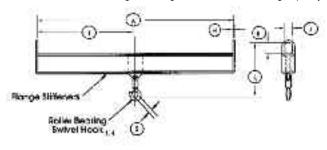
Model AHB - Adjustable Hook Lifting Beam

An ideal solution for lifting off center loads or varying load lengths where headroom is critical



Model TBB - Twin Bail Lifting Beam

An ideal solution for utilizing two lifting hoists to increase lifting capacity



Model FHB

Consister

Model AHB Model TBB lle e

Capacity	IDS.
Α	_ Max. Distance Between Hooks
В	_ Min. Distance Between Hooks
*H	_ Bail Thk.
*J	_ Bail Width
*K	_ Bail Height
*L	_ Total Height
Μ	Hook Space
*S	_ Max. Stock Diameter
*T	_ Distance to Hook
* Optional Data	
1 Mary stanly dispersion unformated	بالمتحد والمتعادية والالتبار ومعاولا والمتعاوم والمتعاد والمتعاد والمتعاد والمتعاد والمتعاد والمتعاد

¹ Max, stock diameter refers to the size of material that will fit into the swivel hook opening.

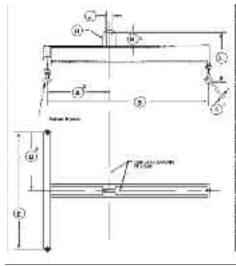
² All loads must be centered under the lifting bail.

³ Please verify that the lifting bail size will suit the crane hook.

⁴ Standard swivel Hook Optional.

Additional Information:

Custom Three Point Lifter



3-Point Lifting Frame An ideal solution to

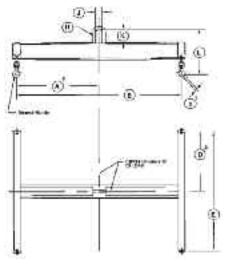
Model TLP -

handle large loads requiring multiple pick points. Lifting bail can be designed to handle off center loads.

13

Below the Hook Lifting

Custom Four Point Lifter



Model FPL -**4-Point Lifting** Frame

An ideal solution to handle large loads requiring multiple pick points. Lifting bail can be designed to handle off center loads.

Model TPL Model FPL

- Capacity ____ lbs.
- Distance to Bail Α Overall Length в
- D Distance to Bail
- Overall Length Е
- **Bail Thickness** *H
- Bail Width *J
- *K Bail Height
- *L Total Height *S
 - Maximum Stock Dia.
- * Optional Data

WWW.HANESSUPPLY.COM

- ¹ Max. stock diameter refers to the size of material that will fit into the swivel hook opening.
- ² All loads must be centered under the lifting bail.

³ Please verify that the lifting bail size will suit the crane hook.

Additional Information:



areas.

3

Below the Hook Lifting

Below the Hook Lifting

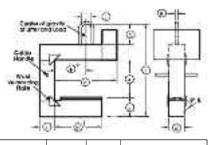
C-Hook Lifters

Model TLC - Tubular Low Cost C-Hooks

The Tubular Low Cost C-hook has a longer upper arm and a smaller counterweight to produce a lighter weight lifter.

The tubular design is a cost saving option for capacities not exceeding 20,000 lbs.. External weld reinforcing plates strengthens both the weld and tube at critical stress

All lifters are proof tested exceeding ANSI/ASME B30.20 standards and test certificate issued. Painted safety yellow and clearly marked on both sides with rated capacity to conform to OSHA standards.



	Coil V	Vidth	Vertical Clear	Dist. to Center of Gravity	Upper Arm Length	Lift Arm Length	Lift Arm Depth	Vertical Post Depth	Lift Arm Width	Bail Size ³	Total Height	Approx. Lifter		
Capacity ⁴	Max.	Min.	A	B	C	D	Ė	Ė	G	HJK	L	Wt.	Model	
(lbs)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	(Ibs)	No.	
1,000 1,000 1,000 2,000 2,000	12 24 36 48 24 36	8 16 22 30 16 22	12 12 12 12 12 16 16	6 12 18 24 12 18	12 23 33 43 23 33	10 20 29 39 20 29	3-1/2 3-1/2 3-1/2 3-1/2 4-3/4 4-3/4	3 3 3 3 4 4	3 3 3 4 4	3/4 x 2 x 4 3/4 x 2 x 4	22-1/2 22-1/2 22-1/2 22-1/2 28-3/4 28-3/4 28-3/4	78 74 93 111 118 145	TLC-1-12-8-12 TLC-1-24-16-12 TLC-1-36-22-12 TLC-1-48-30-12 TLC-2-24-16-16 TLC-2-36-22-16	¹ Lifting arm length allows minimum coil width to be handled w/o protrusion of lift arm past
2,000 4,000 4,000 4,000 6,000	48 24 36 48 36	30 16 22 30 22	16 20 20 20 24	24 12 18 24 18	43 23 33 44 34	39 20 29 39 29	4-3/4 6-5/8 6-5/8 6-7/8 6-7/8	6 6 6 8	4 4 6 6	3/4 x 2 x 4 1 - 1/4 x 4 x 6	28-3/4 36-5/8 36-5/8 36-7/8 42-7/8	193 183 213 299 320	TLC-2-48-30-16 TLC-4-24-16-20 TLC-4-36-22-20 TLC-4-48-30-20 TLC-6-36-22-24	 edge of coil. 2 All coils must be centered under the lift-
8,000 6,000 8,000 8,000 8,000	36 48 36 48 60	22 30 22 30 36	24 24 26 26 26	18 24 18 24 30	34 44 34 44 54	29 39 29 39 48	9-3/8 9-3/8 9-3/8 9-3/8	8 8 8 8 8	6 8 8 8	$\begin{array}{c} 1-1/4 \times 4 \times 6 \\ \hline 1-1/4 \times 4 \times 6 \\ \hline 1-1/2 \times 4 \times 8 \\ 1-1/2 \times 4 \times 8 \\ \hline 1-1/2 \times 4 \times 8 \\ \hline 1-1/2 \times 4 \times 8 \end{array}$	42-7/8 46-7/8 51-3/8 51-3/8 51-3/8	320 395 441 604 670	TLC-6-38-22-24 TLC-6-48-30-24 TLC-8-36-22-26 TLC-8-48-30-26 TLC-8-60-36-26	ing bail. ³ Please verify that the lifting bail size will suit crane
10,000	36	22	26	18	34	29	9-3/8	8	8	1-1/2 x 4 x 10	53-3/8	450	TLC-10-36-22-26	hook.
10,000	48	30	26	24	44	39	9-3/8	10	8	1-1/2 x 4 x 10	53-3/8	684	TLC-10-48-30-26	⁴ Other capaci-
10,000	60	36	26	30	54	48	11-3/8	10	8	1-1/2 x 4 x 10	57-3/8	814	TLC-10-60-36-26	ties and
15,000	36	22	28	18	34	29	9-3/8	10	8	1-3/4 x 5 x 10	55-3/8	637	TLC-15-36-22-28	lengths avail-
15,000	48	30	28	24	44	39	12-1/8	10	10	1-3/4 x 5 x 10	60-1/8	879	TLC-15-48-30-28	able upon
15,000	60	36	28	30	54	48	12-1/8	10	10	1-3/4 x 5 x 10	60-1/8	1340	TLC-15-60-36-28	request.
20,000	36	22	30	18	34	29	12-3/8	10	10	1-3/4 x 5 x 10	62-3/8	862	TLC-20-36-22-30	
20,000	48	30	30	24	44	39	12-3/8	10	10	1-3/4 x 5 x 10	62-3/8	1284	TLC-20-48-30-30	
20,000	60	36	30	30	56	48	12-3/8	14	10	1-3/4 x 5 x 10	62-3/8	1580	TLC-20-60-36-30	

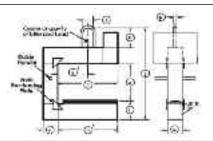
Model TCS - Tubular Close Stacking C-Hooks

The Tubular Close Stacking C-hook has a shorter upper arm for handling various coil widths flush against a vertical surface.

The tubular design is a cost saving option for capacities not exceeding 20,000 lbs.

External weld reinforcing plates strengthens both the weld and tube at critical stress areas.

All lifters are proof tested exceeding ANSI/ASME B30.20 standards and test certificate issued. Painted safety yellow and clearly marked on both sides with rated capacity to conform to OSHA standards.



	Coil \	Nidth	Vertical Clear	Dist. to Center of Gravity	Upper Arm Length	Lift Arm Length	Lift Arm Depth	Vertical Post Depth	Lift Arm Width	Bail Size ³	Total Height	Approx. Lifter		
Capacity ⁴	Min.	Max.	A	B	C	D	E	F	G	H J K	L	Wt.	Model	
(lbs)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	(lbs)	No.	
1,000 1,000 1,000 1,000	12 24 36 48	8 16 22 30	12 12 12 12 12	6 12 18 24	10 20 29 39	10 20 29 39	3-1/2 3-1/2 3-1/2 3-1/2	3 3 3 3	3 3 3 3	3/4 x 2 x 4 3/4 x 2 x 4 3/4 x 2 x 4 3/4 x 2 x 4 3/4 x 2 x 4	22-1/2 22-1/2 22-1/2 22-1/2 22-1/2	79 88 109 123	TCS-1-12-8-12 TCS-1-24-16-12 TCS-1-36-22-12 TCS-1-48-30-12	¹ Lifting arm length allow minimum co
2,000	24	16	16	12	20	20	4-3/4	4	4	3/4 x 2 x 4	28-3/4	142	TCS-2-24-16-16	width to be
2,000	36	22	16	18	29	29	4-3/4	4	4	3/4 x 2 x 4	28-3/4	170	TCS-2-36-22-16	handled w/o
2,000	48	30	16	24	39	39	4-3/4	6	4	3/4 x 2 x 4	28-3/4	218	TCS-2-48-30-16	protrusion o
4,000 4,000 4,000	24 36 48	16 22 30	20 20 20	12 18 24	20 29 39	20 29 39	6-5/8 6-5/8 6-7/8	6 6 6	4 4 6	1 x 2 x 4 1 x 2 x 4 1 x 2 x 4 1 x 2 x 4	36-5/8 36-5/8 36-7/8	228 258 350	TCS-4-24-16-20 TCS-4-36-22-20 TCS-4-48-30-20	lift arm past edge of coil ² All coils mus be centered
6,000	36	22	24	18	29	29	6-7/8	8	6	1-1/4 x 4 x 6	42-7/8	413	TCS-6-36-22-24	under the lit
6,000	48	30	24	24	39	39	8-7/8	8	6	1-1/4 x 4 x 6	46-7/8	465	TCS-6-48-30-24	
8,000	36	22	26	18	29	29	9-3/8	8	8	1-1/2 x 4 x 8	51-3/8	566	TCS-8-36-22-26	³ Please verif
8,000	48	30	26	24	39	39	9-3/8	8	8	1-1/2 x 4 x 8	51-3/8	719	TCS-8-48-30-26	that the liftir
8,000	60	36	26	30	48	48	9-3/8	8	8	1-1/2 x 4 x 8	51-3/8	789	TCS-8-60-36-26	bail size wil
10,000	36	22	26	18	29	29	9-3/8	8	8	1-1/2 x 4 x 10	53-3/8	590	TCS-10-36-22-26	suit crane
10,000	48	30	26	24	39	39	9-3/8	10	8	1-1/2 x 4 x 10	53-3/8	839	TCS-10-48-30-26	hook.
10,000	60	36	26	30	48	48	11-3/8	10	8	1-1/2 x 4 x 10	57-3/8	979	TCS-10-60-36-26	4 Other capad
15,000	36	22	28	18	29	29	9-3/8	10	8	1-3/4 x 5 x 10	55-3/8	845	TCS-15-36-22-28	ties and
15,000	48	30	28	24	39	39	12-1/8	10	10	1-3/4 x 5 x 10	60-1/8	1,075	TCS-15-48-30-28	lengths ava
15,000	60	36	28	30	48	48	12-1/8	10	10	1-3/4 x 5 x 10	60-1/8	1,617	TCS-15-60-36-28	able upon
20,000	36	22	30	18	29	29	12-3/8	10	10	1-3/4 x 5 x 10	62-3/8	1,199	TCS-20-36-22-30	request.
20,000	48	30	30	24	39	39	12-3/8	10	10	1-3/4 x 5 x 10	62-3/8	1,575	TCS-20-48-30-30	
20,000	60	36	30	30	48	48	12-3/8	14	10	1-3/4 x 5 x 10	62-3/8	2,072	TCS-20-60-36-30	

rm allows m coil be l w/o ion of past coil.

must ered he liftverify lifting



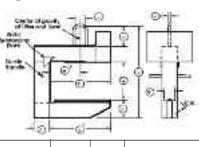
C-Hook Lifters

Model TCF - Tubular Close Stacking C-Hooks with Flame Cut Lift Arm

The Tubular Close Stacking C-hook has a shorter upper arm for handling various coil widths flush against a vertical surface and a flame cut high strength alloy steel lift arm allowing for direct loading and unloading.

External weld reinforcing plates strengthens both the weld and tube at critical stress areas.

All lifters are proof tested exceeding ANSI/ASME B30.20 standards and test certificate issued. Painted safety yellow and clearly marked on both sides with rated capacity to conform to OSHA standards.



	Coil	Width	Vertical Clear	Dist. to Center of Gravity	Upper Arm Length	Lift Arm Length	Lift Arm Depth	Vertical Post Depth	Lift Arm Width	Bail Size ³	Total Height	Approx Lifter		
Capacity ²	⁴ Max.	Min.	A	B	C	D	E	F	G	HJK	L	Wt.	Model	
(lbs)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	(lbs)	No.	
1,000 1,000 1,000 1,000	12 24 36 48	8 16 22 30	12 12 12 12	6 12 18 24	10 20 29 39	10 20 29 39	2-5/8 3-1/8 3-5/8 4-1/8	3 3 3 3	3 3 3 3	3/4 x 2 x 4 3/4 x 2 x 4 3/4 x 2 x 4 3/4 x 2 x 4 3/4 x 2 x 4	21-5/8 22-1/8 22-3/8 23-1/8	86 95 119 133	TCF-1-12-8-12 TCF-1-24-16-12 TCF-1-36-22-12 TCF-1-48-30-12	¹ Lifting arm length allows minimum coil width to be
2,000	24	16	16	12	20	20	4-1/8	4	3	3/4 x 2 x 4	28-1/8	154	TCF-2-24-16-16	handled w/o
2,000	36	22	16	18	29	29	3-1/2	4	3	3/4 x 2 x 4	27-1/2	184	TCF-2-36-22-16	protrusion of
2,000	48	30	16	24	39	39	4-5/8	6	3	3/4 x 2 x 4	28-5/8	238	TCF-2-48-30-16	lift arm past
4,000 4,000 4,000	24 36 48	16 22 30	20 20 20	12 18 24	20 29 39	20 29 39	4-5/8 5 5-5/8	6 6 6	4 4 4	1 x 2 x 4 1 x 2 x 4 1 x 2 x 4 1 x 2 x 4	34-5/8 35 35-5/8	247 280 380	TCF-4-24-16-20 TCF-4-36-22-20 TCF-4-48-30-20	edge of coil. ² All coils must be centered
6,000	36	22	24	18	29	29	5-7/8	8	4	1-1/4 x 4 x 6	41-7/8	448	TCF-6-36-22-24	under the
6,000	48	30	24	24	39	39	4-3/4	8	4	1-1/4 x 4 x 6	42-3/4	504	TCF-6-48-30-24	lifting bail.
8,000 8,000 8,000	36 48 60	22 30 36	26 26 26	18 24 30	29 39 48	29 39 48	4-3/4 5-1/2 6	8 8 8	4 4 4	1-1/2 x 4 x 8 1-1/2 x 4 x 8 1-1/2 x 4 x 8	46-3/4 47-1/2 48	614 780 856	TCF-8-36-22-26 TCF-8-48-30-26 TCF-8-60-36-26	³ Please verify that the lift- ing bail size will suit crane
10,000	36	22	26	18	29	29	5-3/8	8	4	1-1/2 x 4 x 10	49-3/8	640	TCF-10-36-22-26	4 Other capaci-
10,000	48	30	26	24	39	39	6	10	4	1-1/2 x 4 x 10	50	910	TCF-10-48-30-26	
10,000	60	36	26	30	48	48	6-5/8	10	4	1-1/2 x 4 x 10	52-5/8	1,062	TCF-10-60-36-26	
15,000	36	22	28	18	29	29	6	10	4	1-3/4 x 5 x 10	52	917	TCF-15-36-22-28	lengths avail-
15,000	48	30	28	24	39	39	6-3/4	10	4	1-3/4 x 5 x 10	54-3/4	1,166	TCF-15-48-30-28	able upon
15,000	60	36	28	30	48	48	7-1/2	10	4	1-3/4 x 5 x 10	55-1/2	1,755	TCF-15-60-36-28	request.
20,000	36	22	30	18	29	29	6-3/4	10	4	1-3/4 x 5 x 10	56-3/4	1,301	TCF-20-36-22-30	
20,000	48	30	30	24	39	39	7-3/4	10	4	1-3/4 x 5 x 10	57-3/4	1,705	TCF-20-48-30-30	
20,000	60	36	30	30	48	48	8-1/2	14	4	1-3/4 x 5 x 10	58-1/2	2,247	TCF-20-60-36-30	

Model LCC - Low Cost C-Hooks, High Strength Steel

The Low Cost C-hook has a longer upper arm and a smaller counterweight to produce a lighter weight lifter.

Integral lifting bail saves headroom and minimizes inspection normally associated with welded lifting balls.

High strength alloy steel reduces the physical size of the lift arm allowing movement into confined areas for direct crane loading and unloading.

All lifters are proof tested exceeding ANSI/ASME B30.20 standards and test certificate issued. Painted safety yellow and clearly marked on both sides with rated capacity to conform to OSHA standards.

	Coil V	Vidth	Vertical Clear	Dist. to Center of Gravity	Upper Arm Length	Lift Arm Length	Lift Arm Depth	Vertical Post Depth	Lift Arm Width	Bail Size ³	Total Height	Approx. Lifter		
Capacity ⁴ (lbs)	Max. (in)	Min. (in)	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	G (in)	H J K (in)	L (in)	Wt. (Ibs)	Model No.	
1,000	36	24	16 24	18	35	30	5-1/4	8	4	1-1/2 x 4 x 10	34-5/8 42-5/8	360 403	LCC-10-36-24-16 LCC-10-36-24-24	¹ Lifting arm
1,000	48	30	16 24	24	44	39	6-1/8	8-3/4	4	1-1/2 x 4 x 10	35-1/2 43-1/2	504 552	LCC-10-48-30-16 LCC-10-48-30-24	length allows
1,000	60	36	16 24	30	56	48	6-7/8	9-1/2	4	1-1/2 x 4 x 10	35-7/8 43-7/8	632 689	LCC-10-60-36-16 LCC-10-60-36-24	width to be
2,000	36	24	24 30	18	35	30	7-1/4	9-5/8	4	1-3/4 x 4 x 10	44-1/4 50-1/4	617 737	LCC-20-36-24-24 LCC-20-36-24-30	handled w/o
2,000	48	30	24 30	24	47	39	7-7/8	9-7/8	4	1-3/4 x 4 x 10	44-7/8 50-7/8	834 897	LCC-20-48-30-24 LCC-20-48-30-30	 protrusion of lift arm past
2,000	60	36	16 24	30	56	48	8-3/4	11-3/4	4	1-3/4 x 4 x 10	37-3/4 45-3/4	993 1.087	LCC-20-60-36-16 LCC-20-60-36-24	edge of coil.
2,000	72	42	16 24	36	65	57	10-1/8	13-5/8	4	1-3/4 x 4 x 10	38 46	1,246 1,439	LCC-20-72-42-16 LCC-20-72-42-24	² All coils must
3,000	48	30	24 30	24	47	39	8-7/8	11-1/4	4	2 x 5 x 10	46-7/8 52-7/8	1,134 1,220	LCC-30-48-30-24 LCC-30-48-30-30	be centered
3,000	60	36	24 30	30	56	48	10	12-1/4	4	2 x 5 x 10	48 54	1,462 1,560	LCC-30-60-36-24 LCC-30-60-36-30	 under the lifting bail.
3,000	72	42	24 30	36	65	57	11	13-1/4	4	2 x 5 x 10	49	1,806 2,007	LCC-30-72-42-24 LCC-30-72-42-30	³ Please verify
4,000	48	30	30 36	24	47	39	9-5/8	12-1/4	4	2-1/4 x 6 x 14	58-1/8 64-1/8	1,511 1,618	LCC-40-48-30-30 LCC-40-48-30-36	that the lift-
4,000	60	36	24 30	30	56	48	10-3/4	13-3/8	4	2-1/4 x 6 x 14	53-1/4 59-1/4	1,827 1,951	LCC-40-60-36-24 LCC-40-60-36-30	 ing bail size will suit crane
4,000	72	42	24 30	36	65	57	11-7/8	14-3/8	4	2-1/4 x 6 x 14	54-3/8 60-3/8	2,244 2,381	LCC-40-72-42-24 LCC-40-72-42-30	hook.
5,000	48	30	30 36	24	47	39	10-7/8	13-3/4	4	2-1/2 x 6 x 18	63-7/8 69-7/8	1,761	LCC-50-48-30-30 LCC-50-48-30-36	⁴ Other capaci-
5,000	60	36	28 34	30	56	48	12	15	4	2-1/2 x 6 x 18	63 69	2,261 2,524	LCC-50-60-36-28 LCC-50-60-36-34	ties and
5,000	72	42	24 32	36	67	57	12-1/2	15-1/4	4	2-1/2 x 6 x 18	59-1/2 67-1/2	2,678 2,890	LCC-50-72-42-24 LCC-50-72-42-32	 lengths avail- able upon
6,000	60	36	28 34	30	58	48	12-3/8	15-5/8	4-1/2	2-1/2 x 6 x 18	63-3/8 69-3/8	2,549 2,709	LCC-60-60-36-28 LCC-60-60-36-34	request.
6,000	72	42	28 34	36	67	57	13-5/8	16-3/4	4-1/2	2-1/2 x 6 x 18	64-5/8 70-5/8	3,107 3,525	LCC-60-72-42-28 LCC-60-72-42-34	-
8,000	72	42	38 44	36	69	57	15-1/8	18-3/4	5	3 x 7 x 20	79-1/8 85-1/8	4,587 4,820	LCC-80-72-42-38 LCC-80-72-42-44	-
10,000	84	46	38 44	42	84	65	15-7/8	19-1/4	5	4 x 7 x 20	79-1/2 85-1/2	6,594 6,886	LCC-100-84-46-38 LCC-100-84-46-44	-

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C-Hook Lifters

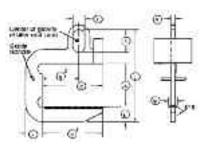
Model CSC - Close Stacking C-Hooks, **High Strength Steel**

The Close Stacking C-hook has a shorter upper arm for handling various coil widths flush against a vertical surface.

Integral lifting bail saves headroom and minimizes inspection normally associated with welded lifting bails.

High strength alloy steel reduces the physical size of the lift arm allowing movement into confined areas for direct crane loading and unloading.

All lifters are proof tested exceeding ANSI/ASME B30.20 standards and test certificate issued. Painted safety yellow and clearly marked on both sides with rated capacity to conform to OSHA standards.



	Coil V	Vidth	Vertical Clear	Dist. to Center of Gravity	Upper Arm Length	Lift Arm Length	Lift Arm Depth	Vertical Post Depth	Lift Arm Width	Bail Size ³	Total Height	Approx.		
Capacity ⁴ (lbs)	Min. (in)	Max. (in)	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	G (in)	H J K (in)	L (in)	Wt. (lbs)	Model No.	
1,000	36	24	16 24	18	30	30	5-1/4	8	4	1-1/2 x 4 x 10	34-5/8 42-5/8	432 489	CSC-10-36-24-16 CSC-10-36-24-24	¹ Lifting arm
1,000	48	30	16 24	24	39	39	6-1/8	8-3/4	4	1-1/2 x 4 x 10	35-1/2 43-1/2	527 642	CSC-10-48-30-16 CSC-10-48-30-24	length allows
1,000	60	36	16 24	30	48	48	6-7/8	9-1/2	4	1-1/2 x 4 x 10	35-7/8 43-7/8	749 823	CSC-10-60-36-16 CSC-10-60-36-24	minimum coil width to be
2,000	36	24	24 30	18	30	30	7-1/4	9-5/8	4	1-3/4 x 4 x 10	44-1/4 50-1/4	744 959	CSC-20-36-24-24 CSC-20-36-24-30	handled w/o
2,000	48	30	24 30	24	39	39	7-7/8	9-7/8	4	1-3/4 x 4 x 10	44-7/8 50-7/8	1,083 1,176	CSC-20-48-30-24 CSC-20-48-30-30	protrusion of
2,000	60	36	16 24	30	48	48	8-3/4	11-3/4	4	1-3/4 x 4 x 10	37-3/4 45-3/4	1,222	CSC-20-60-36-16 CSC-20-60-36-24	lift arm past edge of coil.
2,000	72	42	16 24	36	57	57	10-1/8	13-5/8	4	1-3/4 x 4 x 10	38 46	1,482 1,730	CSC-20-72-42-16 CSC-20-72-42-24	² All coils must
3,000	48	30	24 30	24	39	39	8-7/8	11-1/4	4	2 x 5 x 10	46-7/8 52-7/8	1,486 1,612	CSC-30-48-30-24 CSC-30-48-30-30	be centered
3,000	60	36	24 30	30	48	48	10	12-1/4	4	2 x 5 x 10	48 54	1,831	CSC-30-60-36-24 CSC-30-60-36-30	under the lifting bail.
3,000	72	42	24 30	36	57	57	11	13-1/4	4	2 x 5 x 10	49 55	2,175 2,508	CSC-30-72-42-24 CSC-30-72-42-30	³ Please verify
4,000	48	30	30 36	24	39	39	9-5/8	12-1/4	4	2-1/4 x 6 x 14	58-1/8 64-1/8	2,017 2,175	CSC-40-48-30-30 CSC-40-48-30-36	that the lift-
4,000	60	36	24 30	30	48	48	10-3/4	13-3/8	4	2-1/4 x 6 x 14	53-1/4 59-1/4	2,307 2,590	CSC-40-60-36-24 CSC-40-60-36-30	ing bail size
4,000	72	42	24 30	36	57	57	11-7/8	14-3/8	4	2-1/4 x 6 x 14	54-3/8 60-3/8	2,816 3.004	CSC-40-72-42-24 CSC-40-72-42-30	will suit crane hook.
5,000	48	30	30 36	24	39	39	10-7/8	13-3/4	4	2-1/2 x 6 x 18	63-7/8 69-7/8	2,364 2,706	CSC-50-48-30-30 CSC-50-48-30-36	⁴ Other capaci-
5,000	60	36	28 34	30	50	48	12	15	4	2-1/2 x 6 x 18	63 69	2,933 3,279	CSC-50-60-36-28 CSC-50-60-36-34	ties and
5,000	72	42	24 32	36	59	57	12-1/2	15-1/4	4	2-1/2 x 6 x 18	59-1/2 67-1/2	3,403 3,704	CSC-50-72-42-24 CSC-50-72-42-32	lengths avail- able upon
6,000	60	36	28 34	30	51	48	12-3/8	15-5/8	4-1/2	2-1/2 x 6 x 18	63-3/8 69-3/8	3,047 3,258	CSC-60-60-36-28 CSC-60-60-36-34	request.
6,000	72	42	28 34	36	61	57	13-5/8	16-3/4	4-1/2	2-1/2 x 6 x 18	64-5/8 70-5/8	3,517 4,011	CSC-60-72-42-28 CSC-60-72-42-34	
8,000	72	42	38 44	36	64	57	15-1/8	18-3/4	5	3 x 7 x 20	79-1/8 85-1/8	5,025 5,290	CSC-80-72-42-38 CSC-80-72-42-44	
10,000	84	46	38 44	42	76	65	15-7/8	19-1/4	5	4 x 7 x 20	79-1/2 85-1/2	7,275 7,617	CSC-100-84-46-38 CSC-100-84-46-44	

is necessary. These drawings indicate some of

the procedures for the the use of below-hook

lifters. They also indicate the results caused by

improper procedures in the use of below-hook

PROPER USE OF HOOK-LIFTERS

The very fact that the use of a lifter is required usually means that a considerable amount of weight is involved. Because this weight can fall and cause damage, more than normal caution

General Information

Lifters should only

be used by trained

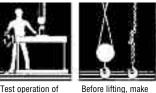
operators

Before Lifting

lifters with moving

parts at the begin

ning of each shift.



Before lifting, make sure hoist rope or chain is free from kinks. Multiple part lines should not be twisted around each other

Make a preliminary Make sure the load lift of a few inches to make sure the heavy for the lifter. load is balanced.

is not too big or too

Make sure the com-Do not pick up hot loads unless the bined weight of the lifter and the load lifter is specifically does not exceed the designed for capacity of the high temperature crane service

shown or not shown.

If you are worried about safety **REFLISE** to make the lift until safety has been assured

Moving a Load

Pay attention to

what you're doing.



Make sure there is room for the load to move.

Stay out from under the load. Make sure other people stay out from under the load.



Never ride on lifters.



Guide loads by pushing. CAUTION! With sheet lifters be sure to keep load level. Tilting the lifter could cause the load to slide off the lifter.

Don't lift the load any higher than necessary. The higher they are the harder they fall.

lifters. No responsibility for the safety of the

operator is suggested or implied by Hanes

Supply, resulting from an improper procedure

Avoid sudden starts and stops. Resulting shock load can stress system far beyond its capability

Always set down load before leaving lifter.

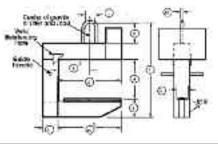
Store the empty lifter in its prope place. They are big & heavy & can cause a lot of damage if they fall over.



Custom C-Hook Lifters

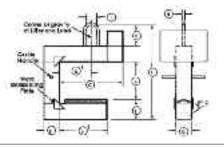
Custom Tubular Style C-Hooks

Model TCF - Close Stacking with flame Cut Lift Arm Flame cut lift arm allows movement into confined areas



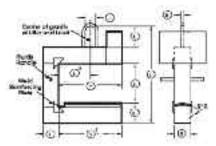
Model TLC - Low Cost C-Hook

Longer upper arm reduces counterweight for a lighter weight lifter



Model TCS - Close Stacking C-Hook

Shorter upper arm for handling coils flush against vertical surface



Model TLC

Model TCF 🗖

Model TCS 🛛

Capacity	Ibs.
Α	Vertical Clearance
В	1/2 of Max. Coil Width
С	Upper Arm Length
D	Lift Arm Length
*E	Lift Arm Depth
*F	Vertical Post Depth
G	Lift Arm Width
*H	Bail Thk.
*J	Bail Width
*K	Bail Height
*L	Total Height
* Optional Data	

¹ Lifting arm length allows min. coil width to be handled w/o protrusion of lift arm past edge of coil.

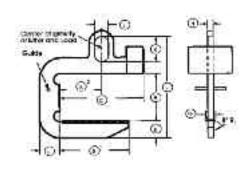
² All coils must be centered under the lifting bail.
³ Please verify that the lifting hook bail size will suit crane hook.

Additional Information:

Custom Plate Style C-Hooks

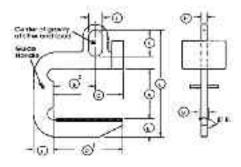
Model LCC - Low Cost C-Hook

Longer Upper Arm reduces counter weight for a lighter weight lifter.



Model CSC - Close Stacking C-Hook

Shorter upper arm for handling coils flush against vertical surface.



Model LCC Model CSC

Capacity _____ lbs.

- A
 Vertical Clearance

 B
 1/2 of Max. Coil Width

 C
 Upper Arm Length
- D _____ Lift Arm Length
- *E _____ Lift Arm Depth
- *F _____ Vertical Post Depth
- G _____ Lift Arm Width
- *H _____ Bail Thk. *J Bail Width
- *J_____ Bail Width *K_____ Bail Height
- *L Total Height

* Optional Data

¹ Lifting arm length allows min. coil width to be handled w/o protrusion of lift arm past edge of coil.

² All coils must be centered under the lifting bail.

³ Please verify that the lifting hook bail size will suit crane hook.

Additional Information:

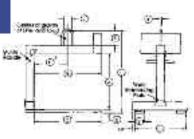


Model FCF - Fixed Crane Fork

The Fixed Crane Fork converts an overhead crane into a maintenance-free low cost fork lift truck that is counterbalanced to hang level for easy insertion under the load.

External weld reinforcing plates strengthens both the weld and tube at critical stress areas.

All lifters are proof tested exceeding ANSI/ASME B30.20 standards and test certificate issued. Painted safety yellow and clearly marked on both sides with rated capacity to conform to OSHA standards.



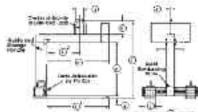
- ¹ Fork length is equal to the max. load length.
- ² All loads must be centered under the lifting bail.
- ³ Please verify that the lifting bail size will suit crane hook.
- ⁴ Other capacities and load lengths available upon request.

Model ACF -Adjustable Crane Forl

The Adjustable Crane Fork converts an overhead crane into a low cost fork lift truck that can handle various widths and is counterbalanced to hang level for easy insertion under the load.

External weld reinforcing plates strengthens both the weld and tube at critical stress areas.

All lifters are proof tested exceeding ANSI/ASME B30.20 standards and test certificate issued. Painted safety yellow and clearly marked on both sides with rated capacity to conform to OSHA standards.



¹ Fork length is equal to the max. load length.

² All loads must be centered under the lifting bail.
³ Please verify that the lifting bail size w

³ Please verify that the lifting bail size wis suit crane hook.
⁴ Other capacities and load lengths

 Other capacities and load lengths available upon request.

Capacity ⁴ (lbs)	Max. Load Length (in)	Vertical Clear A (in)	Dist. to Center of Gravity B (in)	Fork Length C (in)	Lift Fork Size D E (in)	Outside Width F (in)	Arm Upper Length G (in)	Bail Size ³ H J K (in)	Total Height L (in)	Approx. Lifter Wt. (Ibs)	Model No.
1,000	30	48	15	30	1-1/4 x 4	24	30	3/4 x 2 x 4	56-1/4	231	FCF-1-30-48
1,000	36	48	18	36	1-1/4 x 4	24	36	3/4 x 2 x 4	56-1/4	252	FCF-1-36-48
1,000	42	48	21	42	1-1/4 x 4	24	42	3/4 x 2 x 4	56-1/4	271	FCF-1-42-48
1,000	48	48	24	48	1-1/4 x 4	24	48	3/4 x 2 x 4	56-1/4	355	FCF-1-48-48
2,000	30	48	15	30	1-1/2 x 4	24	30	3/4 x 2 x 4	57-1/2	318	FCF-2-30-48
2,000	36	48	18	36	1-1/2 x 4	24	36	3/4 x 2 x 4	57-1/2	340	FCF-2-36-48
2,000	42	48	21	42	1-1/2 x 4	24	42	3/4 x 2 x 4	57-1/2	363	FCF-2-42-48
2,000	48	48	24	48	1-1/2 x 4	24	48	3/4 x 2 x 4	57-1/2	450	FCF-2-48-48
3,000	36	48	18	36	1-3/4 x 4	24	36	1 x 2 x 4	59-3/4	452	FCF-3-36-48
3,000	42	48	21	42	1-3/4 x 4	24	42	1 x 2 x 4	59-3/4	478	FCF-3-42-48
3,000	48	48	24	48	1-3/4 x 4	24	48	1 x 2 x 4	59-3/4	505	FCF-3-48-48
4,000	36	48	18	36	1-3/4 x 4	24	36	1 x 2 x 4	59-3/4	519	FCF-4-36-48
4,000	42	48	21	42	1-3/4 x 4	24	42	1 x 2 x 4	59-3/4	544	FCF-4-42-48
4,000	48	48	24	48	1-3/4 x 4	24	48	1 x 2 x 4	59-3/4	571	FCF-4-48-48
6,000	36	48	18	36	1-3/4 x 4	26	36	1-1/2 x 4 x 6	61-3/4	606	FCF-6-36-48
6,000	42	48	21	42	2 x 4	26	42	1-1/2 x 4 x 6	64	683	FCF-6-42-48
6,000	48	48	24	48	2 x 4	26	48	1-1/2 x 4 x 6	64	712	FCF-6-48-48
6,000	60	60	30	60	2-1/2 x 4	32	60	1-1/2 x 4 x 6	76-1/2	1,057	FCF-6-60-60
8,000	42	48	21	42	2 x 4-1/2	28	42	1-1/2 x 4 x 8	66	799	FCF-8-42-48
8,000	48	48	24	48	2-1/2 x 4	28	48	1-1/2 x 4 x 8	66-1/2	889	FCF-8-48-48
8,000	60	60	30	60	2-1/2 x 4	32	60	1-1/2 x 4 x 8	78-1/2	1,214	FCF-8-60-60
8,000	72	72	36	72	2-1/2 x 5	36	72	1-1/2 x 4 x 8	92-1/2	1,654	FCF-8-72-72
10,000	48	48	24	48	2-1/2 x 4	32	48	1-3/4 x 4 x 10	68-1/2	1,219	FCF-10-48-48
10,000	60	60	30	60	2-1/2 x 5	32	60	1-3/4 x 4 x 10	82-1/2	1,514	FCF-10-60-60
10,000	72	72	36	72	2-1/2 x 6	36	72	1-3/4 x 4 x 10	94-1/2	1,893	FCF-10-72-72
15,000	48	48	24	48	2-3/4 x 5	32	48	1-3/4 x 5 x 10	70-3/4	1,453	FCF-15-48-48
15,000	60	60	30	60	2-3/4 x 6	32	60	1-3/4 x 5 x 10	82-3/4	2,117	FCF-15-60-60
15,000	72	72	36	72	2-3/4 x 7	36	72	1-3/4 x 5 x 10	94-3/4	2,539	FCF-15-72-72
20,000	48	48	24	48	2-3/4 x 6	32	48	1-3/4 x 5 x 10	70-3/4	1,913	FCF-20-48-48
20,000	60	60	30	60	2-3/4 x 8	32	60	1-3/4 x 5 x 10	82-3/4	2,991	FCF-20-60-60
20,000	72	72	36	72	2-3/4 x 10	36	72	1-3/4 x 5 x 10	98-3/4	3,744	FCF-20-72-72
30,000	72	72	36	72	4 x 8-3/4	42	72	1-3/4 x 6 x 14	106	4,894	FCF-30-72-72
40,000	72	72	36	72	4 x 10-1/2	42	72	1-3/4 x 6 x 14	106	5,950	FCF-40-72-72
50,000	72	72	36	72	4 x 13	42	72	2 x 6 x 18	110	6,978	FCF-50-72-72

ork		Max. Load	Vertical Clear	Dist. to Center of Gravity	Length	Lift Fork Size	Wi	side dth F	Arm Upper Length	Bail Size ³	Total Height	Approx. Lifter	
erts	Capacity ⁴ (lbs)	Length (in)	A (in)	B (in)	C (in)	D ∣ E (in)	Min. (in)	Max. (in)	G (in)	HJK (in)	L (in)	Wt. (Ibs)	Model No.
ost rious	1,000	30	48	15	30	1-1/4 x 4	14	36	30	3/4 x 2 x 4	56-1/4	249	ACF-1-30-48
D	1,000	36	48	18	36	1-1/4 x 4	14	36	36	3/4 x 2 x 4	56-1/4	272	ACF-1-36-48
der	1,000 1,000	42 48	48 48	21 24	42 48	1-1/4 x 4 1-1/4 x 4	14 15	36 36	42 48	3/4 x 2 x 4 3/4 x 2 x 4	56-1/4 56-1/4	293 383	ACF-1-42-48 ACF-1-48-48
101	,	-	40	15	40 30		15	36	40 30		57-1/2		ACF-2-30-48
	2,000 2,000	30 36	48 48	15	30 36	1-1/2 x 4 1-1/2 x 4	15	36	30 36	3/4 x 2 x 4 3/4 x 2 x 4	57-1/2	343 367	ACF-2-30-48 ACF-2-36-48
	2,000	42	40	21	42	$1-1/2 \times 4$ $1-1/2 \times 4$	15	36	42	3/4 x 2 x 4	57-1/2	392	ACF-2-30-48
ube	2,000	48	48	24	48	1-1/2 x 4	15	36	48	3/4 x 2 x 4	57-1/2	486	ACF-2-48-48
	3,000	36	48	18	36	1-3/4 x 4	15	38	36	1 x 2 x 4	59-3/4	488	ACF-3-36-48
ding	3,000	42	48	21	42	1-3/4 x 4	15	38	42	1 x 2 x 4	59-3/4	516	ACF-3-42-48
and	3,000	48	48	24	48	1-3/4 x 4	15	38	48	1 x 2 x 4	59-3/4	548	ACF-3-48-48
afety	4,000	36	48	18	36	1-3/4 x 4	15	38	36	1 x 2 x 4	59-3/4	565	ACF-4-36-48
oth	4,000	42	48	21	42	1-3/4 x 4	17	38	42	1 x 2 x 4	59-3/4	595	ACF-4-42-48
orm	4,000	48	48	24	48	1-3/4 x 4	17	38	48	1 x 2 x 4	59-3/4	624	ACF-4-48-48
	6,000	36	48	18	36	1-3/4 x 4	17	38	36	1-1/2 x 4 x 6	61-3/4	660	ACF-6-36-48
	6,000	42	48	21	42	2 x 4	17	38	42	1-1/2 x 4 x 6	64	734	ACF-6-42-48
	6,000	48	48 60	24	48	2 x 4	17	38	48	1-1/2 x 4 x 6	64	771	ACF-6-48-48
	6,000	60		30	60	2-1/2 x 4	20	42	60	1-1/2 x 4 x 6	76-1/2	1,141	ACF-6-60-60
1	8,000	42 48	48 48	21 24	42 48	2 x 4-1/2 2-1/2 x 4	20 20	42 42	42 48	1-1/2 x 4 x 8 1-1/2 x 4 x 8	66 66-1/2	863 963	ACF-8-42-48 ACF-8-48-48
÷	8,000 8,000	40 60	40 60	24 30	40 60	2-1/2 x 4 2-1/2 x 4	20 20	42	40 60	1-1/2 x 4 x 8	78-1/2	1,340	ACF-8-60-60
	8,000	72	72	36	72	2-1/2 x 4 2-1/2 x 5	20	48	72	1-1/2 x 4 x 8	92-1/2	1,780	ACF-8-72-72
	10.000	48	48	24	48	2-1/2 x 4	20	42	48	1-3/4 x 4 x 10	68-1/2	1,316	ACF-10-48-48
in the second se	10,000	60	60	30	60	2-1/2 x 4	22	48	60	1-3/4 x 4 x 10	82-1/2	1.642	ACF-10-60-60
	10,000	72	72	36	72	2-1/2 x 6	26	48	72	1-3/4 x 4 x 10	94-1/2	2,044	ACF-10-72-72
-	15.000	48	48	24	48	2-3/4 x 5	24	48	48	1-3/4 x 5 x 10	70-3/4	1.570	ACF-15-48-48
	15,000	60	60	30	60	2-3/4 x 6	26	48	60	1-3/4 x 5 x 10	82-3/4	2,297	ACF-15-60-60
	15,000	72	72	36	72	2-3/4 x 7	28	54	72	1-3/4 x 5 x 10	94-3/4	2,742	ACF-15-72-72
	20,000	48	48	24	48	2-3/4 x 6	26	48	48	1-3/4 x 5 x 10	70-3/4	2,066	ACF-20-48-48
	20,000	60	60	30	60	2-3/4 x 8	30	48	60	1-3/4 x 5 x 10	82-3/4	3,229	ACF-20-60-60
	20,000	72	72	36	72	2-3/4 x 10	33	54	72	1-3/4 x 5 x 10	98-3/4	4,044	ACF-20-72-72
vill	30,000	72	72	36	72	4 x 8-3/4	33	54	72	1-3/4 x 6 x 14	106	5,280	ACF-30-72-72
	40,000	72	72	36	72	4 x 10-1/2	36	54	72	1-3/4 x 6 x 14	106	6,426	ACF-40-72-72
	50,000	72	72	36	72	4 x 13	45	60	72	2 x 6 x 18	110	7,566	ACF-50-72-72

Crane Forks

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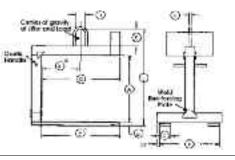
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Custom Crane Forks

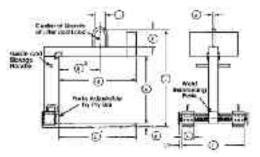
Model FCF - Fixed Crane Fork

Converts an overhead crane into a low-cost fork lift truck



Model ACF - Adjustable Crane Fork

Adjustable forks allows handling of various size bundles



Custom Crane Forks

Model FCF 🛛 🛛 Model ACF 🖵

Capacity Ibs. Vertical Clearance 1/2 of Max. Pallet Length в C _____ Fork Length D Fork Thickness *E Fork Width Outside Width *F Upper Arm Length G *H Bail Thk. Bail Width *J *K Bail Height *L Total Height

* Optional Data

¹ Fork length is equal to the max. pallet load length.

² All loads must be centered under the lifting bail.

³ Please verify that the lifting bail size will suit crane hook.

Additional Information:

Sheet Lifters

Max Width

in Closed

Position

G

(in)

70

82

70

82

99

70

82

99

87

99

87

99

Total

Height

(in)

38

38

40

40

40

40

40

40

46

46

46

46

Approx

Lifter

Wt

(lbs)

1055

1108

1094

1150

1421

1254

1317

1960

2102

2410

2372

2795

Model

No.

TSL-6-60-20-16

TSL-6-72-24-16

TSL-10-60-20-16

TSL-10-72-24-16

TSL-10-96-36-16

TSL-20-60-20-16

TSI -20-72-24-16

TSL-20-96-36-16

TSL-30-72-24-18

TSL-30-96-36-18

TSL-40-72-24-18

TSL-40-96-36-18

Support

Width

р

(in)

3-1/8

3-1/8

3-1/8

3-1/8

5-5/8

3-1/8

3-1/8

5-5/8

5-1/2

5-1/2

5-1/2

5-1/2

Model TSL Telescoping Sheet Lifter

We offer a versatile sheet lifter that can handle bundles of sheet metal, crates, palletized products and more with few modifications to its structure.

Drive system consists of worm and worm gear assembly to prevent side forces from opening the legs when loaded.

Our telescoping sheet lifter has a heavy duty construction to withstand rugged conditions and provide years of service with very low maintenance.

All lifters are proof tested exceeding ANSI/ASME B30.20 standards and test certificate issued. Painted safety yellow and clearly marked on both sides with rated capacity to conform to OSHA standards.

Vertical

Clear.

Δ

(in)

16

16

16

16

16

16

16

16

18

18

18

18

Bail Size2

нјк

(in)

1-1/4 x 4 x 8

1-1/4 x 4 x 8

1-1/4 x 4 x 10

1-3/4 x 6 x 14

Bundle

Width

Min

(in)

20

24

20

24

36

20

24

36

24

36

24

36

Е

Max

(in)

60

72

60

72

96

60

72

96

72

96

72

96

Capacity

(lbs)

6000

6000

10000

10000

10000

20000

20000

20000

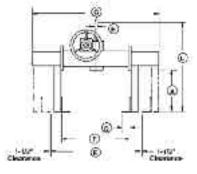
30000

30000

40000

40000

Center of of URar or (Sar Re	arting -		0w)
Ê−		8	-01
	1.1		1
	DC" Glandary		



Custom Telescoping Sheet Lifter

Model TSL
Capacity _____ lbs.



¹ All loads must be centered under the lifting bail.

request.

Additional Information:

² Please verify that the lifting bail size will suit crane hook.
 ³ Modifications and other accessories are available upon

¹ All loads must be centered under the lifting bail.

² Please verify that the lifting bail size will suit crane hook.

³ Modifications and other accessories are available upon request.



Coil Lifters

Model NAC - Narrow Aisle Coil Lifter

Vertical

Bail Size²

(in)

1-1/4 x 4 x 8

1-1/4 x 4 x 8

1-1/4 x 4 x 8

1-1/2 x 4 x 10

1-1/2 x 4 x 10

1-1/2 x 4 x 10

1-3/4 x 5 x 10

2 x 6 x 14

2-1/4 x 6 x 14

2-1/2 x 6 x 14

н JK Support

Length

n

(in)

8

8

8

8

8

8

10

10

10

10

10

10

10

10

10

10

10

10

10

Support

Depth

Ġ

(in)

4

4

4

4-1/4

4-1/4

4-1/4

4-1/2

4-1/2

4-1/2

4-1/2

4-3/4

4-3/4

4-3/4

4-3/4

5

5

5

5

5-1/2

Adjust.

Spacing

F

(in)

2

2

2

3

3

3

3

3

3

3

3

3

3

3

3

3

3

3

3

Our narrow aisle coil lifter is the ideal solution to handling and positioning coils close together. Coils can be handled with aisles as narrow as 18"

Integral lifting bail saves headroom and minimizes inspection normally associated with welded lifting bails. Upper beam and down legs are made of high strength alloy steel reducing the physical size of the lifter.

Marked notches and built-in parking stand on upper beam allows for easy adjustment of down

Clear

A

(in)

24

24

28

28

32

32

32

34

34

34

34

36

Coil Width

F Min

> 20 24

24

24

20 28

24

20

24

24

24 32

24 34

24

36

24 34

24 34

24

36 34

24

Max

(in) (in)

48

60

72

48

60

72 24

48

60

72

84

60

72 24

84

96

60

72

84

96

72

Capacity (lbs)

20,000

20.000

20.000

30.000

30,000

30,000

40.000

40 000

40.000

40,000

50,000

50.000

50.000

50,000

60,000

60,000

60.000

60,000

80.000

legs for specific coil widths.

The edges of the down legs have a radius for easy maneuvering of legs into inside of coil. Lifting bail has a radius on the upper portion to prevent damage to the crane hook.

All lifters are proof tested exceeding ANSI/ASME B30.20 standards and test certificate issued. Painted safety yellow and clearly marked on both sides with rated capacity to conform to OSHA standards.

Approx.

Lifter

Wt.

(lbs)

378

454

515

492

577

661

680

767

890

932

887

1.006

1.046

1,180

1,066

1,217

1.310

1.546

1.514

Model

No.

NAC-20-48-20-24

NAC-20-60-24-24

NAC-20-72-24-24

NAC-30-48-20-28

NAC-30-60-24-28

NAC-30-72-24-28

NAC-40-48-20-32

NAC-40-60-24-32

NAC-40-72-24-32

NAC-40-84-24-32

NAC-50-60-24-34

NAC-50-72-24-34 NAC-50-84-24-34

NAC-50-96-36-34

NAC-60-60-24-34

NAC-60-72-24-34

NAC-60-84-24-34

NAC-60-96-36-34

NAC-80-72-24-36

NAC-80-96-36-36

Total

Height

(in)

62

62

62

69-7/8

69-7/8

69-7/8

79-1/2

79-1/2

79-1/2

79-1/2

83-3/4

83-3/4

83-3/4

83-3/4

89-1/4

89-1/4

89-1/4

89-1/4

94-5/8

~	* 1	,®		9-F-
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Å	Genter of Genty Professionalis	s.F		品
1 80	2	8		
5		10	i i i i i i i i i i i i i i i i i i i	95

Custom Narrow Aisle Coil Lifter

Model NAC 🛛	Capacity lbs	•
Α	Vertical Clearance	
*D	Support Length	
E ¹	Max. Coil Width	
E ²	Min. Coil Width	
*F	Adjustable Spacing	
*G	Support Depth	
*H	Bail Thickness	
*J	Bail Width	
*K	Bail Height	
*L	Total Height	
* Optional Data		
Additional Informati	ion:	

Additional Information:

36 2-1/2 x 6 x 14 94-5/8 80,000 96 36 10 5-1/2 3 1,710 1 All loads must be centered under the lifting bail. ² Please verify that the lifting bail size will suit crane hook.

³ Modifications and other accessories are available upon request

Model H - Dixon Coil Hook

- · Easy horizontal to vertical up-ending of coils.
- · Pivoting wedge for easy tilting of stacked
- coils. · Wedge acts as retainer.
- · Efficient and easy to use.
- · Popular for use with small, light weight coils.
- · For use where overhead clearance is limit-
- ed. Specially designed heat treated pivoting wedge
- Designed and manufactured to ASME B30.20

			Diameter (in)							
Capacity (Tons)	Catalog No.	Max. Width. W	Max. Radial R	Min. I.D.	А	в	с	D	Wt. (Ibs)	
1/2	H10-6-13	6	13	9	2	2-3/4	3-1/2	6	10	
1/2	H10-12-13	12	13	13	2	2-3/4	3-1/2	6	20	
1	H20-8-16	8	16	10	2	2-3/4	3-1/2	6	22	
2	H40-10-18	10	18	12-1/2	2-1/2	3-1/2	2	6-3/4	45	
3-1/2	H70-12-20	12	20	14-1/2	3-1/4	5	2-1/2	7-3/4	65	
Other sizes available, call Hanes Sup										

Easy Horizontal to vertical movement. Do Not use for vertical to horizontal movement

Coil is in vertical posi-

from its pallet. The weight of the coil

holds the pivoting wedge in the vertical

position during trans portation.





Providing spacer blocks between stacked coils permits easy insertion of the wedge. Light weight and pivoting wedge makes it easy to position the hook



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

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The grab is placed on the coil near the binding strap where the wedge can easily enter and separate the coils. As soon as the lift begins the jaws close on the coil automatically

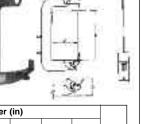








When stacking coils. the T-pin for changing the suspension point is positioned so the coil hangs at an angle for lowering to a horizontal position



Model G - Dixon Coil Grab

- horizontal movement. Clamp and lock onto all four sides of coil.
- Wedge separates stacked coils
- (do not need spacer blocks) T-pins for changing suspension point for
- wider coils to hang level.
- Compact and lightweight.
- Convenient handling of narrow coils. One man operation.
- · Prevents coil damage when lifting
- Locking feature holds grab open when positioning.

Designed and manufactured to ASME B30.20

Diameter (in) Coil Specs Width Capacity Catalog Radial Wt. С (Tons) No. Range Range Α в (lbs) G10-4-13 3-1/2 - 13 1-3/4 1/2 1 - 4 3-1/2 42 28 G20-9-12 2-1/2 - 9 3-1/2 - 12 1-3/4 3-1/2 48 30 1

Horizontal to vertical or vertical to horizontal movement



Horizontal to vertical and vertical to



Tong Grabs

Grabs

LARGE, SMALL, SHORT OR LONG... materials having symmetrical sides may be lifted and transported by one of the Bushman Mechanical type tongs.

COILS OF STEEL, ALUMINUM, BRASS, ETC... paper rolls, bars, ingots and bales are typical examples of materials for which tong grabs are readily designed.

VARIATIONS OF STYLES... gripping ratios and grip pad material are specifically designed to suit the numerous varieties and sizes of materials.

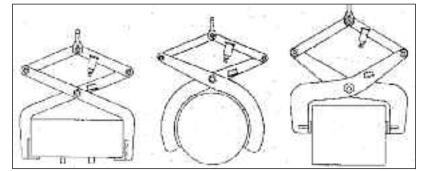
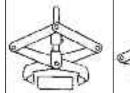


Fig. I. SUPPORTING TONG Material elevated to allow grab to support load. Fig. II GRIPPING TONG Material gripped in the tong yet Outside diameter supported below center for additional holding advantage. Fig. III PRESSURE TONG Maximum gripping ratio required to maintain safe hold on vertical sides during lift.

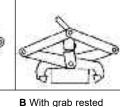
Supporting tong shown in Figure I is limited to constant sizes of material to maintain a horizontal plane of the lifting feet.

Gripping Tong shown in **Figure II** is designed to lift such typical products as coils. rolls, tube etc. The diameter range may vary by approximately 25%. The length variation is almost unlimited as the tong Is specifically designed to suit.

Pressure Tong shown in **Fig. III** is special in its requirement of grip ratios and pad material to properly suit the material to be lifted. Ingots, bales and other straight sided materials require a sufficient coefficient of friction between the material and grip pads to be safely lifted. Grip pad material may be rubber, steel, belting, points etc.



A Latch has grab locked In open position.



on material and

automatically dis-

hoist tension

relieved. latch

engages from locked position.

C Raise hoist to allow grab pads to close onto material.

D To release load, lower grab and material to ground or stack. Allow hoist to lower and again relieve tension. Latch will automatically relock grab in open Position.

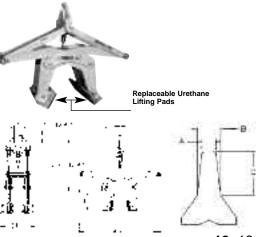
Model 73 & 74 - Barrier Grabs

- Hands-off operation. No need to attach and secure lifting chains or slings.
- The barrier suffers far less damage when moving. This means longer barrier life and less cost.
- The grab is able to move barriers quicker and easier than manual methods, resulting in less man-hours.
- There is no need to drill holes in the barriers to accommodate chains or slings.
- Replaceable urethane lifting pads are standard.
- Designed and manufactured to ASME B30.20.

Model	Rated Capacity	Wt.				
No.	(Ibs)	(Ibs)				
"Jersey" barrier - 6" (nominal) width at top						
73 – 4-1/4	8,500	215				
73 – 7-1/4	14,500	260				
"Southern" barr	"Southern" barrier - 11" (nominal) width at top					
74 – 4-1/4	8,500	270				
74 – 7-1/4	14,500	310				

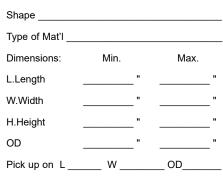
Note 1: "Southern" barrier - states of GA & TN. use exclusively.

Note 2: States of CA, OR & WA may require special grips with steel "Dog Points" in lieu of standard pads. Specify "Dog Points" with order. • Always supply dimensions A, B & C to insure proper lift.



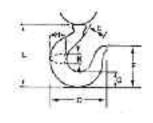
Required Information

Object Data:



Hoist Hook Data:

Dim. D	 "
Dim. E	 . "
Dim. F	 . "
Dim. G	 - "
Dim. H	 - "
Dim. K	 . "
Dim. L	







Tongs, Pipe & Container Lifters

Barrier-Lift

Now available with Automatic Actuator

The Barrier-Lift is now available in a fully automatic mode that allows for hands-free barrier movement. The ratcheting-cam action locks the lifter in the open position. When the Barrier-Lift is set on the barrier, the ratcheting-cam turns 90 degrees and allows the lifter to grip the barrier.

The Barrier-Lifter:

13

Below the Hook Lifting

- · Provides for easy, safe and efficient placement of concrete median barriers.
- · Can be used in inclement weather including rain.
- · Exclusive custom-made gripper pads made of elastomer molded to steel plate will outperform all other pad surfaces currently in use.
- The custom-made gripper pads provide:
- Excellent wear/abrasion resistance
- Superior gripping ability
- Full surface contact without scratching or damaging concrete
- Barriers won't slip even when wet

This Barrier-Lift is the largest, most powerful barrier lifter on the market. Intentionally overbuild to withstand the rigors of the toughest highway construction site. When you're ready to move barriers... get the strongest, most durable barrier lifter available anywhere.

Model	Weight	Capacity	Usage
No.	(lbs)	(lbs)	
KL 1500	200	1,500	Concrete Curbing
KL 9000	600	9,000	10' - 16' Barrier Wall
KL 12000	800	12,000	16' - 20' Barrier Wall
KL 15000	1,100	15,000	20' - 30' Barrier Wall
KL 20000	1,400	20,000	30' - 40' Barrier Wall
KL 40000	4,000	40,000	30' - 40' Custom Wall

Model 111 - Beam Tongs

- · Tong leverage exerts an ever tightening grip on the beam flange.
- · Tong provided with lifting shackle.
- · Load must be balanced and controlled when lifting.
- · May be used in pairs in conjunction with a spreader beam.
- · Designed and manufactured to ASME B30.20.

	Rated	Dimensions (in)					
Model No.	Cap (Tons)	Beam Width Min Max.	A	Wt. (Ibs)			
111-1	1	5 - 6	17	15			
111-2	2	6-1/2 - 8	19	18			
111-3	3	7-1/2 - 10	19	21			

Model 172 - Slab Tongs

- · Designed for lifting heavy slabs of concrete, stone or highly polished metal sheets that must be protected from scratching or marring.
- · Can be used in construction work to position slabs.
- The curved pads give proper contact for gripping smooth surfaces and handling a large range of sizes.
- · Urethane gripping surfaces of the tongs are standard.
- · Semi-automatic latch is standard and serves as an aid in positioning the tongs for pickingup the load.
- · Designed and manufactured to ASME B30.20.

Model No.	Rated Cap. (Ibs)	Load Width (in)	Dim. A (in)	Wt. (Ibs)
172-1	1,000	6 - 10	24	50
172-2	1,500	8 - 12	28	70
172-3	1,500	10 - 14	32	90
172-4	1,500	14 - 18	36	120
172-5	1,500	18 - 22	40	150





Model 109 - Rail Tongs

- · Rail Tongs are designed to handle all standard size rails.
- · Tongs are provided with non-slip machined diamond face gripping pad.
- · Load must be balanced and controlled when lifting.
- · Designed and manufactured to ASME B30 20

Model	Rated Cap.	A	B	Wt.	
No.	(tons)	(in)	(in)	(Ibs)	
109-1	1	3	18	15	
109-2	2	5	20	18	



Model 77 - Bale Lifting Tongs

- · Lifts bales of paper, cotton, and other materials.
- · Wide gripping surface for load stability. · Includes auto-latching mechanism for
- one person operation.
- Designed and manufactured to ASME B30.20.



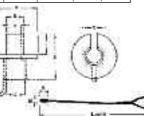
Model No.	Rated Cap. (tons)	Bail Width	Unit Height	Pad Dim's Width	Height	Wt. (Ibs.)
77-1/2-36	1/2	36	40	18	9	80
77-1/2-48	1/2	48	46	18	9	85
77-1-36	1	36	40	18	9	90
77-1-48	1	48	46	18	9	95

Model PC - "Tea Cup" Pipe Carrier

- · An efficient way to handle concrete, water & sewer pipers.
- · The Caldwell "Tea Cup" Carrier will save you time & money.
- Three sizes available, to handle from 3/4" to 1-1/2" cable, and lift up to 15 tons.
- · Designed & manufactured to ASME B30.20 & B30.9.

PC	Sling	Rated	Dimensions (in)						
Model No.	Dia. (in)	Capacity (tons)	Α	в	с	D	Е	F	G
PC-3/4	3/4 7/8	4.9	5-9/16	2	2-1/8	1-1/8	4-11/16	1-7/8	1-1/8
PC-1	1 1-1/8 1-1/4	8.5	6	2-1/2	2-5/8	1-3/8	5-5/8	2	1-3/8
PC-1-1/2	1-1/2	15.0	8	3	3-1/4	1-5/8	7-5/8	3	1-5/8

LS Model	Sling Dia.	Std. Length	After S Dim.	Swage (in)
No.	(in)	(tons)	Α	В
LS-3/4	3/4	5	3.25	1.55
LS-7/8	7/8	5	3.86	1.80
LS-1	1	5	4.36	2.05
LS-1-1/8	1-1/8	5	4.81	2.30
LS-1-1/4	1-1/4	5	5.42	2.56
LS-1-1/2	1-1/2	5	6.52	3.00



Tea Cup Lifting Sling Option-LS





ing sling through hole in pipe.





cup" pipe carrier into lifting sling.



WWW.HANESSUPPLY.COM



.

"A

Use Angle

(°)

45

45

30

30

45

45/30

PC3

Lift Lug

416000B-YPA

416000B-YPA

416000B-YPA

416000B-YPA

416000B-YPA

416000B-YPA

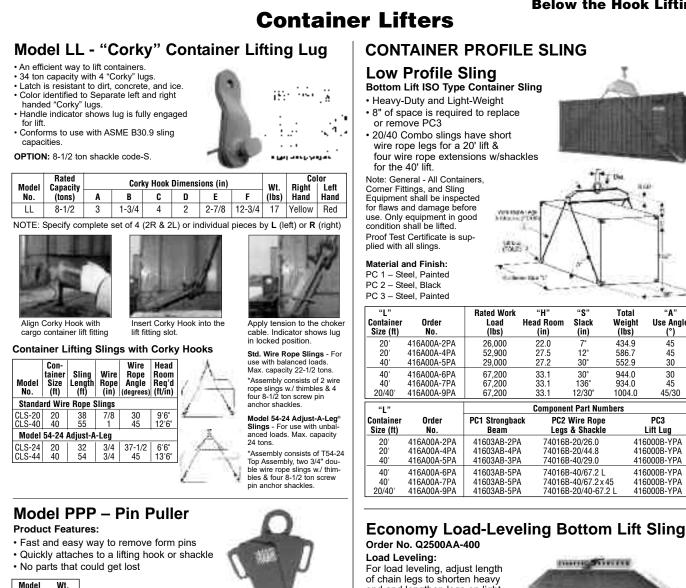
The Allov Steel Top left Shackle has a

stock Dia. of 1.50 and a 3.88" Inside Dia.

42.00 REF.

99.00 REE

Below the Hook Lifting



Wt.

23

(lbs)

No

PPP-1

end and lengthen legs on light

end. Always leave slack in

chain length that ends up between the two PC4 hooks to allow the two hooks to swing to their natural use angle. Adjust side to side leveling by moving

PC7 toward heavy side.

Top Strongback can be adjust-

22.95

REF

٠

Wt. (lbs)

1440

ed longitudinally more than plus or minus 25% of container length from center line.

Slings also available for 20'

WLL (Long Ton)

30 LT

Q2500AA-299 - 20' container sling also available

Call for complete

specifications Order No.

Q2500AA-400

Container Lifters/Vacuum Lifters

Two-Way Load Leveling Sling

Available For Any ISO Container

New Sliding Shackle Design Saves Time When Adjusting! After placing sling in position shown, insert rotary lugs into side holes of the four ISO 1161 Corner Fittings & Twist Lock. If center of gravity is known, unlock chain sprocket wheels and pull on the chain legs to be made longer.

Lock sprocket wheels when length desired is attained. The top shackle can be moved when it is not under load and is swung to horizontal. The action of swinging it back to vertical locks it for use. If center of gravity is not known, it must be determined by estimation and trial. Before lifting, rotary lugs and sprocket wheels must be locked in correct position. Proof Tested and Certified

Below the Hook Liftir

Hook

WILL 30'LT Spreader . Beam Moves Longitudinally According to Leg Lengths Adjust Leg Lengths to Achieve **FT1055** and American Al Alation allocative Clumpt Annument on Sale (Longitudinal Adjustment)

Incorporates TANDEMLOC

Rotating Lift Lugs

Abrading of container side on sling is minimized and line of lift is kept closest to container side with top clevis of Lift Lug.

Model No.	Desc.	WLL (Long Ton)	Weight Each (lbs)			
K1000AA-200	For 20 ft. (long)	30 LT	1520			
K1000AA-300	For 40 ft. (long)	30 LT	1689			
Longer opening available – call for details						

Top Lift Lug Assembly (Vertical Lift)

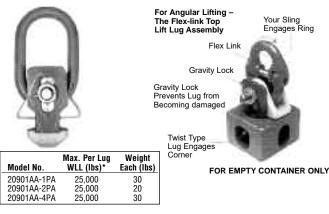
The Most Specified Top Lift Lug!

20901AA-1PA - Complete Assembly with Master Link

20901AA-2PA - Without Master Link

20901AA-4PA - With Flex-Link for Angular Lifting of empty containers

- · Remove jammed and damaged containers in cells
- · Use as conventional lift for containers
- · Lift pontoons wit lift lugs in ISO type sockets



Rotating Lift Lug for **Bottom Lifting**

416000B-YPA

- · For Sling Angles From Vertical To 30 degrees Direct connection to sling wire - no shackle
- required. · Fits Right or Left Hand Corner Fittings
- Painted Safety Yellow

Model No.	WLL (lbs)*	Wt. (lbs)
416000B-YPA	33,600	18.2
* Set of 4 Require	d Per Container	

VACUUM LIFTERS

Technical & Operating Information

CMCI Vacuum Lifters are of a modular design (most often configured from four components)

Vacuum Power Pack, is in a self contained cabinet that mounts to the top of the load beam and is powered by either:

Shop Air (venturi unit)

- V-12 vacuum generator operates on 80 PSI shop air, no electric service required. Explosion proof for hazardous applications.
- V-24 same specifications as V-12. Reduces attach time in larger capacity units.

Electric Motor Driven Pumps

- PUP-330 vacuum generator 1/3 H.P., oil-less, 4 C.FM., rotary vane pump, power supply - 115V, PH, 60HZ.
- PUP-1500 vacuum generator 1-1/2 H.P., lubricated, 21 C.F.M., rotary vane pump, power supply - 230/460-3-60.
- PUP-1000 (optional D.C. power-consult factory), vacuum generator, 1 H.P., lubricated, 17 C.F.M., rotary vane pump, power supply - 230 D.C.

Load Beam is structural steel rectangular tubing, that also serves as a reserve tank on electric units. Lengths are available to meet your application.

Cross Arm Beams are structural channel and mount to load beam. Cross arm beams are adjustable for various size materials to be lifted.

PADS are available in different sizes (capacities) and material; neoprene - standard under +200°F, **silicone** - (200° to 600°F), and **mold on** (glass applications). Pad size (diameter of pad) and number of pads will determine capacity. Pad diameters range from 5" to 23".

Standard Neoprene Pads

Pad Code	S 4	S6	V8	V10	V12	V16	V20	
Pad Size Dia. (in.)	5	7-1/4	10-5/8	12-1/4	14-1/4	19	23	
Silicone pads are the same size as neoprene.								

Standard Mold-On Pads

Pad Code	M5	M8
Pad Size Dia. (in.)	6-7/8	9-1/4

Features of Vacuum Lifters

ELECTRIC AND SHOP AIR (VENTURI) UNITS:

- · Standard units available to handle a wide range of material types, sizes, shapes and weights.
- · Ball mounted vacuum pads.
- · Brass fittings.
- · Push lock hose (designed for 250 psi)
- · Individual slide valve for each vacuum pad allows manual isolation of vacuum pads not needed for attachment.
- · Muffler is spin on type for easy change out.

ELECTRIC UNITS ONLY:

- · Vacuum reserve tank maintains holding power temporarily in the event of a power failure.
- · Push button 10' pendant and power plug to user power supply.
- · Power cabinet has gull wing covers for easy access.
- Red/green indicator lites.
- Power supply available 115 volt AC or 230/460 volt AC (DC available).
- Filter is spin on type for easy change out.
- · Control valves are of the plug in type.
- · Circuit breakers for electrical overload protection.

SHOP AIR (VENTURI) UNITS ONLY:

- · Visual indicator gauges.

INSPECTION

The lifter 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 lifter and the severity of the service.

- 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.
- continues –



Vacuum Lifters

Vacuum Lifters - Technical & Operating Information (continued)

- 4. Missing name plates and markings.
 - A Daily Perform filter and muffler check. Perform proof load test.
 - Check seal rings, hoses and fittings. Check for loose bolts B. Weekly: and nuts, as well as for structural dam-age. Test vacuum gauge reading. Test vacuum switch setting.
- C. Quarterly: Clean vacuum pump. Check vacuum gauge. Check Red and Green indicator lights.

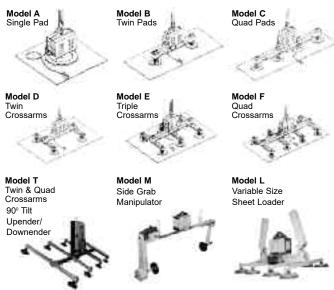
OPERATING PRACTICES

- 1. The operator should watch carefully that the lifter is performing properly during the lifting procedure.
- 2. The operator should be familiar with the standard crane directing hand signals.
- The operator should respond to signals from an appointed person only. 3. However, stop signals from anyone shall be obeyed.
- The operator should notify a designated person when he considers a 4. load to be unsafe.
- The operator should observe the lifter before using. A defect observed shall be examined by a qualified person to determine if it is a hazard.
- 6. Make sure proper electrical power or shop air supply is present.
- 7. Turn unit on, the red indicator light should light.
- 8. Position vacuum pads to support the load properly.
- 9. Make sure hand operated shut off valves are in proper position.
- 10. Lower unit onto load and activate Vacuum.
- 11. When Green light comes on lift load.

HANDLING THE LOAD

- 1. The lifter should not be loaded in excess of its rated load.
- 2. The combined weight of the lifter and load should not exceed the rated load of the crane or hoist.
- 3. The lifter should be applied to the load in accordance with the manufacturer's recommended operating procedure.
- 4. The lifter should not touch obstructions during load movement.
- 5. The lifter should not be loaded with loose material that might fall during movement.
- 6. The operator or other personnel should not ride suspended loads or enter restricted spaces adjacent to them.
- 7. The operator or other personnel should not place themselves or any part of their bodies beneath suspended loads.
- 8. The load or lifter should not be used on the floor or other surface.
- 9. The lifter should not be used for loads for which it is not designed.
- 10. If suspended loads are moved manually, they should be pushed, not pulled.
- 11. A preliminary lift of a few inches should be made to establish that the load is stable.
- 12. All loads should be accelerated and decelerated smoothly.

Index to CMCI Vacuum Lifters



Model Code Breakdown

Model Type	Vacuum Power	Capacity (lbs)	Pad Code	Load Beam Length (ft)	No. of Crossarm Beams	Crossarm Beam Length (ft)
A - F, T	A (Shop air) E (Electric)	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 Crossed Arm w./4 pads
- Е = Electric Power
- = 1200 lbs. capacity 12
- V8 Neoprene pad, 10-5/8" in diameter = = Load beam length 5 feet 5
- D Two cross arms
- 3 = Cross arm beam length 3 feet

Selection Guide

Basic Configuration of Vacuum Lifters and their uses

SINGLE PAD UNIT - used to lift relatively small square sheets of a fairly rigid material. The operator must place the unit in the center of the load. MULTIPLE PAD IN-LINE UNIT - used to lift rectangular sheets that tend to be fairly rigid and narrow in width.

MULTIPLE PAD, MULTIPLE ROWS MOUNTED ON CROSS ARMS UNIT used as most flexible lifter, for thin sheets where more support is required or very large lifts where support and capacity are required.

Selection: Use size & weight of sheet. If multiple sheets are to be lifted with the same lifter, make a calculation from a composite of the different sheets. Use the greatest width and length; and the thinness size. Choose a capacity greater than the heaviest sheet to be lifted.

- 1. INFORMATION REQUIRED
- A. Material (TYPE)
- □ Steel □ Aluminum □ Glass □ Other (consult Hanes Supply)
- B. Weight in Ibs
- C. Thickness (inches or gauge)
- D. Width (inches)
- E. Length (inches)
- F. Power Available for vacuum lifter
- □ Shop Air □ Electric □ 230/460V □ 230V 80 ÞSI 115V AC DC
- 2. Using thickness and material type determine max. Overhang Distance* from Overhang Distance Chart.

*Overhang distance is the maximum distance between the edge of material and center of closest pad that will not cause a deflection (or droop) to exceed two (2) inches at any point on the load for safety reasons. The load should remain as flat as possible during the lift to prevent it from peeling away from the pads.

- 3. Use width & length to determine number of pads for sheet dimensions. a. Divide width by 2 times the overhang distance. This will equal the
- number of pads in width dimension. (round up to nearest whole number).

b. Divide length by 2 times the overhang distance. This will equal the number of pads in length dimension (round up to nearest whole number).

	÷ =	
length	overhang	# pads
•	distance x 2	length

C. The number of pads width & length give you a vacuum lifter configuration. # pads width

pads length

by **(either 1, 2,3 or 4) **(either 1 or 2)

**Call factory if configuration does not meet standard # pads.

NOTE: Always space pads evenly along width and length to insure that - continues -



Vacuum Lifters/Lifting Magnets

Vacuum Lifters - Selection Guide (continued)

each pad will carry its share of the load.

- 4. Use sheet size and number of pads to determine load beam length and (if applicable) crossarm beam length.
 - a. Load beam length is sheet length divided by the of pads in length dimension times # of pads in length minus 1.

sheet length (in.)	+ #pads length	=x	#pads length minus 1	= Load Beam length (convert to ft. min_4')
				min. 4')

b. Crossarm beams (if applicable) is sheet width divided by the # of pads in width dimension times # of pads in width minus 1.

	÷	=	Х		=
sheet	#pads			#pads	Crossarm
length	width			width	beams
(in.)				minus 1	length
. ,					(convert to
					ft. min. 3')

- **5.** Refer to the index on opposite page and match up your pad configuration with standard model.
- 6. At the model page:
- a. Select your power type. (Shop air Venturi or Electric)
- b. Choose the capacity of the unit.

c. For models B-F and T, model code needs beam lengths to complete. NOTE:

1. CAUTION: DO NOT exceed rated capacity.

- Check when using a single row of pads, load width should not exceed five (5) times the pads diameter (see specifications for pad diameter).
- 3. Call for more information on options as well as non-standard models.

OVERHANG DISTANCE CHART

Gauge or Thickness	Decimal	Max. Overhang Distance (in) for 2" Deflection		
(in)	Equivalent	Steel & Alum.	Glass	
26	.0179	14	7	
24	.0239	17	8	
22	.0299	19	9	
20	.0359	20	10	
18	.0478	24	12	
16	.0598	26	13	
14	.0747	30	15	
13	.0897	32	16	
12	.1096	35	17	
11	.1196	37	18	
1/8	.1250	38	19	
10	.1345	40	20	
8	.1644	44	22	
7	.1793	46	23	
3/16	.1875	47	23	
1/4	.2500	54	27	
5/16	.3125	60	30	
3/8	.3750	66	33	
7/16	.4375	72	36	
1/2	.5000	77	38	
9/16	.5625	81	40	
5/8	.6250	86	43	
11/16	.6875	90	45	
3/4	.7500	94	47	
7/8	.8750	101	50	
1	1.000	108	54	

Advantages and Applications for Vacuum Lifters

Venturi (Shop Air)

CMCI's Vacuum Lifters adhere to the highest quality standards in the industry. CMCI engineered its standard horizontal units to an industry leading 3 to 1 vacuum safety factor (5 to 1 on the structural components). On CMCI upenders/downenders the vacuum safety factor is 6 to 1 in the horizontal position and 3 to 1 in the vertical position. While CMCI has standard models, its engineers are always available to custom design a unit to your specific application... including pick and place automated transfer systems. All units conform to ASME B30.20 and OSHA standards.

– continues –

Vacuum Lifters - Quality & Engineering in Every Lift (continued)

CMCI Vacuum Lifters are designed for efficient one person operation in lifts of semi-porous and non-porous material. Vacuum units will not mark or scratch material surfaces or edges, as magnets and edge grabs will do

Additionally, CMCI vacuums will lift thin sheets (under 1/4") one at a time or nonferrous metals, unlike magnets.

Air Powered

Venturi (Shop Air)

Electric Powered

115v or 230/460v

Whenever materials need to be stacked, stored, loaded unloaded or transferred... think CMCI Vacuum Lifters.

Vacuum Lifters

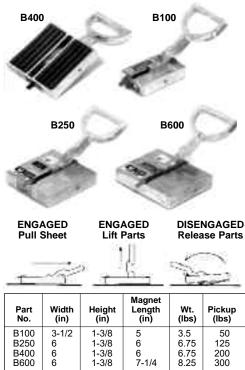
- Increase productivity reducing cost.
- Are single operator run.
- Eliminate material damage.
- Make precision handling easy.Allow versatile handling of most
- materials.
- Improve storage space.
- Provide a low maintenance lifter.
 Increase safety to operator and
- Machinery.Are durable for long lasting
- service.
- Have rated capacities and safety warnings displayed on both sides of equipment. Lettering is clearly visible from floor.
- Are registered with metal tags attached to each lifter.

Industry users

CMCI Vacuum Lifters are applicable to most industries. A short list of industries CMCI has served is primary metal, metal fabricators, aircraft, glass, plastics, automotive, paper, instruments, electrical equipment, construction machinery, and nuclear.

Sheet Handlers

- · Handle sheets stacked horizontally or vertically.
- · Increase production time.
- Protect workers from cuts, slivers, nicks, and burns.
- Handle steel sheets, plates, hot or oily parts.
- · No electricity required.



Holding values are stated at 50% of the actual value.



Lifting Magnets

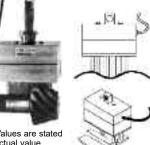
Conform-A-Lift

IMI's electromagnetic Conform-A-Lift is an ideal lifting device for odd or difficult shaped metal objects. The Conform-A-Lift is designed to automatically adjust its pole pieces to the shape of the part to be lifted.

Sprockets, gears, corrugated surfaces, domes, rebar bundles, etc., are no longer difficult to lift with a magnet. For simplified loading or unloading of bulk crates, handling steel items in receiving and shipping areas, and for fast transferring of steel sheets, plates, bar stock, angles and rounds, whatever the orientation of the

part, use a Conform-A-Lift.

- · Self adjusting magnetic poles to match part contour
- Strong 1" I.D. eye lug
- · Long life welded stainless
- steel construction • 12. 24 or 110 volt DC
- 6 foot cord



Note: Holding Values are stated at 50% of the actual value.

12 VDC Part No.	24 VDC Part No.	Height (in)	Width (in)	Length (in)	Weight (Ibs)	Watts	Pickup (lbs.)
CL1-03X06E	CL2-03X06E	4	3-5/8	6-1/4	11	75	58
CL1-05X08E	CL2-05X08E	5	5	8-1/4	30	150	123
CL1-09X11E	CL2-09X11E	6	9	11-1/2	138	225	200
CL1-13X16E	CL2-13X16E	7	13	16-1/2	206	350	390

Creative Lift

IMI's Permanent Creative Lift magnets are ideal for handling steel plate, forgings, die castings and similar items in machine shops, warehouses and industrial processing plants.

In the handling of thick, non-flexing ferrous items, IMI Creative Lift magnets eliminate

the need for slings, clamping devices or chains. Time and labor savings are realized because one person can perform operations previously

calling for two or more people.

IMI Creative Lift magnets are the proven solution to simplified machine loading and unloading, for handling steel items in receiving and shipping areas and the fast stacking, destacking and transfer of steel sheets, plates, bar stock, angles and rounds.

- · No damaging parts
- · Quick release on/off
- · Safety of permanent lift

· Strong eye bolt life

Part	Name	Height	Width	Length	Weight	Pickup
No.		(in)	(in)	(in)	(lbs)	(Ibs.)
5C1382	Mighty Mite	2-11/16	3-1/2	6-1/2	12	400
5C1383	Junior	2-3/4	5	8-1/2	28	1,000
5C1384	Tuffy	2-3/4	6-1/2	10-1/2	42	1,500
5C1385	Long John	2-3/4	4-1/2	16	49	1,250
5C1386	Big Daddy	3-3/16	10	15-3/4	105	3,000

Note: Holding Values are stated at 50% of the actual value.

CAUTION: Never stand under load being lifted. Always use extra caution. Only use lifts on thick material that does not flex or bend

No-Mar Lifting

IMI's permanent NO-MAR lift magnets are ideal for handling steel plates, forgings, die castings, pipes and other thick non-flexing items, without marring the product surface.

When On, a magnetic field is driven down through the pole shoes for

the lifting operation, and an automatic device locks the operating lever into place to prevent accidental deactivation.

When Off, the reversible core is rotated 180°, and the magnetic field is contained within itself, releasing the part. The rotating On/Off arm is mounted on ball bearings and has no physical contact during arm rotation.

- · No damaging parts
- Permanent magnet
- · Quick release on/off
- · No electricity needed

· Ideal for flat or round parts



	Overall	Magnet	Magnet		Pickup Capacity			
Part No.	Height (in)	Width (in)	Length (in)	Weight (lbs)	Flat (Ibs)	Round (lbs)		
TPL0440	9-7/8	5-1/2	7-7/8	35	440	220		
TPL1100	12-13/16	8-1/4	11	110	1,100	550		
TPL2200	16-3/4	11-5/8	13-3/16	220	2,200	1,100		
TPL4400	19-11/16	16-1/8	17-3/4	662	4,400	2,200		

Note: Holding Values are stated at 50% of the actual value.

CAUTION: Never stand under load being lifted. Always use extra caution. Only use lifts on thick material that does not flex or bend.

Permanent Lift Magnets for Flat Material Handling

CM-100, CM-800 Toters

The TOTER is a compact, self-contained, lifting magnet which uses permanent magnets that maintain holding power indefinitely. Within the steel housing are powerful ceramic magnets whose field is controlled by the "on-off" position of the handle. Because no electric power is required, TOTERS can operate completely free of the restriction of power cords, and can be used where electric power is not readily available.



Standard Features

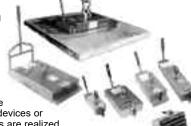
- · High strength steel bail
- · Operating mechanism moves on bearings for ease of operation
- · Specially shaped pole shoes ensure the full magnetic field is directed into work piece
- · Operating handle plunger must be fully depressed to prevent accidental operation
- · Handle locks in "On or Off" positions to prevent unintentional operation
- Meets all the requirements of ANSI/ASME B30.20 (safety standard)
- Supplied with manual, pull test certificate, video, and safety poster. **Recommended Applications**

Permanent lifting magnets require good surface conditions to achieve maximum lifting. The TOTER is ideally suited for in-plant handling, loading, and unloading machine tools, and is commonly found in industrial plants, machine shops and warehouses.When greater holding capacity is required, refer to our battery magnets or our circular electric magnets.

Rated Lift Capacity

The maximum rated lift is based upon lifting clean, smooth, flat, low-carbon steel plate, 1-1/2" or thicker with the full area of the magnet's lifting surface in contact with the load. Derating is required for plates with rust or scale, plates thinner than 1-1/2" and alloy steels. More detailed ratings are contained in the OPERATOR'S MANUAL AND SAFETY INSTRUCTIONS.

Model No.	L (in)	W (in)	Height to Crane Hook (in)	Net Wt. (Ibs)	Ship Wt.	Performance Ratings on ANSI 1020 Steel Rated Lift (Ibs)
CM-400	7.64	5.67	12.4	72.6	80	0-880
CM-800	10.95	7.56	15.55	169.4	175	0-1760





Circular Electric Lift Magnets for Flat Material Handling

CER Series

A CER magnet, pound for pound, is the least costly, but most powerful magnet available. Due to the deep penetration of the magnetic field, it is less susceptible to adverse surface conditions than any other self-contained magnet.

Standard Features

- · High strength steel bail
- Recessed "ON-OFF-RELEASE" switch is protected against accidental operation
- · Low-carbon steel body for maximum magnetic performance
- · Heavy-duty, fully moisture-protected coils would for 50% duty cycle
- Operating light indicates "ON" condition of magnet
- · Built-in solid state rectifier permits operation from 115 volt AC outlet
- · Coiled cord and twist lock adapter for quick connection to AC supply

· Mating twist lock receptacle provided for your installation convenience

Recommended Applications

CER magnets are ideally suited for in-plant handling of steel plate, flat stock, castings, forgings, or machined components in all types of industrial plants, machine shops, and steel warehouses. Handling of loose parts such as nuts or bolts is also a popular application.

Rated Lift Capacity

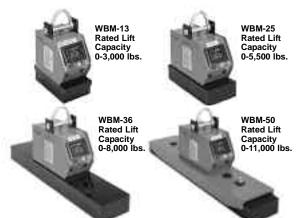
The maximum rated lift is based upon lifting clean, smooth, flat, low-carbon steel plate of ample thickness with the full area of the magnet's lifting surface in contact with the load.Derating is required for plates with rust or scale, thin plates, and alloy steels. More detailed ratings are contained in the OPERATOR'S MANUAL AND SAFETY INSTRUCTIONS

Sizes available from 600 to 10.500 lbs. rated lift and from 5-1/8 to 20 inches diameter. Contact for detailed specs and pricing.

Model No.	Power Required @ 115/1/60 supply (watts)	Net Wt. (Ibs)	Dia. A (in)	Height to Hook H ² (in)	Performance Ratings AISI 1020 Steel Rated Lift (Ibs)
CER-5	62	23	5-1/8	9-3/4	0-600
CER-7	83	43	6-3/4	11-1/4	0-1,200
CER-9	135	94	9	11-3/4	0-2,400
CER-12	345	142	12	13-5/8	0-4,000
CER-16	545	320	16	14-1/2	0-7,250
CER-20	1,050	560	20	15	0-10,500

Lifting Magnets

Local and Cordless Remote Controlled Battery Powered Lift Magnets for Flat Material Handling WBM-13, WBM-25, WBM-36, WBM-50



These Walker Lift Magnets are compact, mobile, self-contained battery powered units. Operating on their own power sources, they are free of restricting cords and wires and have the further advantage of being usable in areas where electric power is not available. The WBM-13 is a new, compact model for general utility lifting. The WBM-36 has a special shoe design for plate lifting, but it has almost universal capability. WBM-13, WBM-25 and WBM-36 are all single units. The WBM-50 is two magnets on an adjustable spreader beam operated from a single battery pack.

Standard Features

- Pocket for IR Remote Transmitter*
- · Removable cover allows inspection of battery.
- Temperature compensated: built-in automatic cut-off charger prevents over-charging of battery.
- For safety, magnet can not be turned "ON" if battery charge is too low.
- · Interlock prevents magnet de-energization when suspended in air.
- · Audible Warning Alarm and flashing light indicate low battery
- Lighted display indicates battery charge level.
- · 110V AC cord and plug for built-in battery charger
- Uses "Deep Discharge" type low maintenance Gel Cell Battery.

*One IR Remote Transmitter Supplied with each WBM - WBP Magnet

- Dual push button release
- · Clip allows operator to attach to belt or pocket
- · Single push button lift
- · Additional remote control units available at nominal cost

Recommended Applications

These versatile Walker magnets have widespread

application for handling of plates, die blocks, machined components, smooth castings, and forgings. These Battery Powered Magnets are extremely useful throughout the plant - around the yard, receiving and shipping areas, storeroom, cut-off saws, burning and welding tables, and machine tools such as grinders, millers, shapers, drill presses, etc.

Batteries not included.

Rated Lift Capacity

The maximum rated lift is based upon lifting clean, smooth, flat, low-carbon steel plate, 2" or thicker with the full area of the magnet's lifting surface in contact with the load. Derating is required for plates with rust or scale, plates thinner than 2", and alloy steels. More detailed ratings are contained in the OPERATOR'S MANUAL AND SAFETY INSTRUCTIONS.

Model No.	Length (in)	Width (in)	Height to Crane Hook (in)	Net Wt. (Ibs)	Ship Wt. (Ibs)	Performance Rating on AISI 1020 Steel
WBM-13	16.3	8.6	22.4	165	175	0-3,000
WBM-25	21	9.6	22.6	295	310	0-5,500
WBM-36	48	9.6	22.8	530	550	0-8,000
WBM-50	60	12	23	640	690	0-11,000



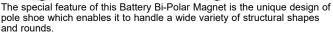


Lifting Magnets

Local and Cordless Remote Controlled Bi-Polar Series Battery Powered Lift Magnets for Flat, Rounds and Shapes WBP-7, WBP-15



WBP-7 Rated Lift Capacity Rounds 0-1,665 lbs. WBP-15 Rated Lift Capacity Rounds 0-3,330 lbs.



Powered by its own battery, it is free of restricting cords and wires, and can also operate in areas where electric power is not readily accessible.

*One IR Remote Transmitter Supplied with each WBM - WBP Magnet

Dual push button release

· Clip allows operator to attach to belt or pocket

Single push button lift

• Additional remote control units available at nominal cost.

Recommended Applications

This unique magnet is ideally suited for handling pipe, tubing, bar stock, billets, I beams, H beams, angles, channels, Tees, Zees, and pilings. Although specially designed to handle structural shapes and rounds, the Bi-Polar configuration also lifts plate, forgings and castings.

Batteries not included.

Rated Lift Capacity:

The maximum rated lift is based upon lifting clean, smooth, flat, low-carbon steel, 2" or thicker with the magnet's lifting surface in full contact with the load. Derating is required for plates or other loads with rust or scale, loads thinner than 2" and alloy steels. Please consult the OPERATOR'S MANUAL AND SAFETY INSTRUCTIONS for more detailed ratings.

Model	Length	Width	Height to	Net Wt.
No.	(in)	(in)	Hook (in)	(lbs)
WBP-7	18-1/2	9-1/2	27.8	370
WBP-15	30	10-1/2	30	736

The maxium rated lift is based upon lifting clean, smooth, flat, low-carbon steel, 2" or thicker with the magnet's lifting surface in full contact with the load. Derating is required for plates or other loads with rust or scale, loads thinner than 2" or alloy steels. Please consult the OPERATOR'S MANUAL AND SAFETY INSTRUCTIONS for more details.

Material Lifting Magnets -Utilizing Neodymium Magnet Material

NEO-250, NEO-500, NEO-1000

The new NEO-250, NEO-500, NEO-1000 Series Material Lifting Magnets are used in steel supply, machine, and die shops where heavy steel objects must be moved rapidly and safely.



Features: • High lift capacity

- Ease of operation
- Lase of operation
- Low weight... easy to move
- No power consumption
- \bullet Handle locks in "On or Off" positions to prevent unintentional operation
- Meets all the requirements of ANSI/ASME B30.20 (safety standard)
- · Supplied with manual, pull test certificate, video and safety poster.

- continues -

Material Lifting Magnets -

Utilizing Neodymium Magnet Material (continued)

jj		•	,						
Model #	NEO-250	NEO-500	NEO-1000						
Length (in)	5.94	9.69	12.44						
Width (in)	3.94	4.72	5.79						
Height (in)	4.06	4.06	4.88						
Weight (lbs)	22	42	80						
Cap. on Rounds (lbs)	0-275	0-550	0-1,100						
Cap. on Plate (lbs)	0-550	0-1,100	0-2,200						
NEO-250		Ideal for loads with a thickness of 1/4" or greater and diameters between 2 3/8" and 7".							
NEO-500		ls with a thickn diameters betwe	ess of 1/4" or een 2 3/4" and 10".						
NEO-1000	Ideal for loads with a thickness of 3/8" or greater and diameters between 3" and 11".								
Performance Rating o	n AISI 1020 Si	teel							

Permanent Magnetic Lifting Magnets for Vertical Loading Onto Machine Centers and Lathes

NEO-HV Series

These NEOHV lifting magnets are designed to lift loads from the horizontal position into the vertical and vice-versa.

Imagine you have a plate lying on a pallet and you want to put it onto your horizontal machining center.

Operators have to do this many times a day and they usually have to struggle with clamps, slings or chains, often needing two people, to turn and keep the component in position.

Three standard models are available: NEOHV -250, NEOHV-500 & NEOHV-1000 with maximum lifting capacities of 550, 1100 and 2200 lbs, on flat AISI 102

550, 1100 and 2200 lbs. on flat AISI 1020 steel.

NEOHV lifting magnets are adjustable to accommodate a range of flat plates & flat circular disks.

Lifting arms, HV-250, HV-500 and HV-1000 can be purchased separately and retrofitted to a NEO-250, NE0-500 or NE0-1000 lifting magnet.

Standard Features

- Uses Standard NEO-250, NEO-500 or NEO-1000 lifting magnet
- Detachable lifting arm HV-250, HV-500 and HV-1000
- Meets all the requirements of ANSI/ASME B30.20 (safety standard)

• Supplied with manual, pull test certificate, video and safety poster.

Recommended Applications

The NEO series permanent lifting magnets requires good surface conditions to achieve maximum lifting capacity. Thanks to Neodymium magnets they perform quite well on flat non-machined surfaces with some rust or scale. The NEOHV model is ideally suited for in-plant handling, loading und unloading machine tools with a horizontal spindle and for plate handling in warehouses.

Workload Limit (Rated Lift Capacity)

The maximum lifting capacity is based upon lifting clean, smooth, flat, lowcarbon (AISI 1020) steel plate, 3 inches or thicker with the full area of the magnet's poles in contact with the load. Derating is required for plates or flat material with rust or scale, non-machined or uneven surface, plates thinner than 3 inches and alloy steels. Refer to the operator's manual for more detailed workload limits.

Description	NEO-HV 250	NEO-HV 500	NEO-HV 1000	HV 250	HV 500	HV 1000						
Rated Lifting	0 - 550	0-1100	0-2200	0-550	0-1100	0-2200						
Capacity												
Length (in)	37.7	45.6	47.7	37.7	45.6	47.7						
Width (in)	8.3	10.8	13.6	8.3	8.3	8.3						
Height (in)	10 10	12.2	10	10	12.2							
Weight (lbs)	60	86	158	38	44	73						
Performance	Performance Rating on AISI 1020 Steel											





Material Handling/Lifting

Flip-Rite[™]

The FLIP-RITE[™] Material Handling System allows you to raise, lower, rotate and level large, bulky or oddly-shaped objects up to 100 tons. The FLIP-RITE™ is engineered and built for optimal performance when attached to your crane hook. Each FLIP-RITE™ unit is customengineered to your application. It's the only way we work ... it's the reason for our leadership in the field.

Welding-Fabrication

Engineered Systems Using the FLIP-RITE[™] in a welding/fabrication environment increases the productivity, safety and quality of your workers' performance by providing a material handling system that positions the workpiece for efficient operations-at a greater



savings than a floor-mounted welding positioner. FLIP-RITE[™] allows the operator to position the piece in a way that may help reduce on the job injuries, and maximizes weld quality by allowing all welds to be made down-hand. And, with the 5-1 safety factor built into each FLIP-RITE™, operators' performance and comfort level increases with the knowledge that safety is the pivotal design element behind every system.

Suspended Personnel Platforms

CAUTION: Platforms are to be used only in

The Man Cages are designed, engineered,

all existing Federal and State codes, Title

compliance with federal rules and regulations.

manufactured, and certified to meet or exceed

29CFR Part 1926.550(g), Crane and Derrick

Suspended Personnel Platform. Inspection,

oad test and certification documents furnished.

Machining

Machining operations reap much of the same benefits through the use of the FLIP-RITE[™] system. The ability to handle and manipulate ... raise, lower, level, and rotate any object... up to 100 tons. allows a never-before realized flexibility in the machine shop. A FLIP-RITE[™] equipped



with the "powered leveling device" gives the operator full control over placing the workpiece on the machining bed.

Time saved in positioning can result in substantial dollar savings during the work week. Daily plans to handle workpieces are also minimized

Assembly & Manipulation

The FLIP-RITE[™] is an excellent tool for large assembly operation. With the FLIP-RITE™ positioning of workpieces is simplified for easy assembly, thus encouraging maximum productivity through safe handling.

ITNAC's experienced design staff can custom-tai-lor a FLIP-RITE™ to meet the needs of almost any assembly application



Man Cage

Man Cages can be ordered in any size, shape or material to meet your specific applications. We also manufacture non-personnel, medical evacuation, and welding equipment Super cages. Ask about our Man Cage DFA (Direct Fixed Attached) personnel platforms (cages) which attach directly to the end of the boom on most cranes. DFA models do not require a bridle assembly or anti-two block device when used in this manner.



Model S-100 48"x48"x88

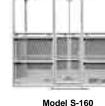


36" O.D. x 88'

Model S-60 36"x60"x88'



36"x36"x88'



48"x96"x88

Model	Din	nensior	ns (in)	SWL* Capacity	Test Wt. Optional
No.	L	w	н	(lbs)	(lbs)
S-30	30	30	44/88	500	625
S-36	36	36	44/88	750	938
S-50	36	48	44/88	750	938
S-60	36	60	44/88	750	938
S-75	48	48	44/88	750	938
S-100	48	48	44/88	1,000	1,250
S-125	48	54	44/88	1,250	1,563
S-150	48	60	44/88	1,500	1,875
S-160	48	96	44/88	1,500	1,875
S-170	48	108	44/88	1,500	1,875
S-200	48	72	44/88	2,000	2,500
S-400	72	144	44/88	4,000	5,000
S-1000	84	84	96	10,000	12,500
S-R5	18	DIA	88	300	375
S-R7	36	DIA	88	500	625
S-AL1	36	36	44/88	500	625
S-AL2	48	48	44/88	1,000	1,250
S-NP60	60	60	72	1,000	N/A
S-NP603	60	60	60	3,000	N/A

*SWL = Safe Working Load

NOTE: 5 of the 20 available models shown here. Call Hanes Supply for more information regarding all your lifting needs.

Load Indicator Devices

LLX Series w/Microprocessor - Dynafor®

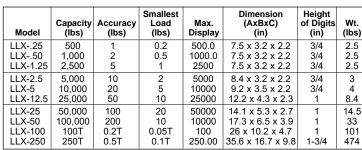
The new DYNAFOR® LLX range of load indicating devices are accurate, compact instruments for measuring tensile forces and loads. Designed for use on tough job site conditions, the DYNAFOR LLX load indicators can be used for the following applications:

- Avoiding the overload of man-riding platforms · Under hook check weighing for mobile and
- overhead cranes
- Testing of material handling equipment
- · On-hook weighing of goods during manufacturing
- · Check weighing in shipping and receiving
- operations
- · Weighing loads on multi-point lifts

Technical Features

- · Lightweight aluminum alloy construction
- Microprocessor based operations
- · Push-button operation and programming
- · Automatic zero when unit turned on Multiple units of measure (Lbs., Tons.
- Metric Tonne, Kg, DaN, kaN) · Output for display or connection to a
- personal computer
- 13-22

- Up to 7 DYNAFOR units may be connected to a personal computer at one time Ambient temperature range: -15°F to 120°F
- (-10°C to +50°C)
- Accuracy: ± 0.2% of capacity
- · Up to 250 hours of operation with 3 AA alkaline batteries
- · Auto shut-off for extended life
- Weatherproof and dust proof: IP 65

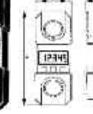




Remote readout for IIX and MWX available Hand held with .71 in. (LCD) digits

WWW.HANESSUPPLY.COM









battery power.

Features:

struction

Model

MWX-2.5

MWX-12.5

MWX-5

Load Indicator Devices

matic shutdown after 20 minutes to save

· Choice of unit of measurement: kg, tonnes, lbs,

short tons, daN or kN, displayed on the LCD.

· Overload displayed to help prevent overload-

· Output for connection to hand held display and

controls, to P.C. or interface for processing or

Variable response rate, to save battery power.

· Reliable operation, compact and rugged con-

Ambient temperature range -14° F to +104° F

Accuracy

(lbs)

10

20

50

Smallest

I oad

(lbs)

2

5

10

Test

I oad

(tons)

5

10

25

ing the equipment and systems.

· Automatic zero when switched on.

printing the information.

· Accuracy to ±0.2% of capacity.

Capacity

(lbs)

5,000

10,000

25,500

Call for complete dimensional information.

MWX Series w/Microprocessor - Dynafor®

The DYNAFOR MWX MINI WEIGHER range of load indicating devices with large 1-3/4" (44 mm) LCD are highly accurate instruments for load checking goods and materials, for check-weighing and measuring tensile forces. They are suitable for many check-weighing uses in industry, on job sites, in laboratories or on test benches.

The DYNAFOR principle is the movement of a material within its elastic limit, using bonded strain gauges to give an electrical signal under strain, relative to the load applied, and displayed on the LCD.

DYNAFOR the new shape of check-weighing and load measurement today!

DYNAFOR MWX MINI WEIGHERS: microprocessor based electronics with new standard functions and systems.

Functions:

- · Operation and set up by 3 push button controls: ON/OFF, 100% tare, with return to total load applied, and peak hold, to show the maximum load applied.
- · Up to 700 hours operation before battery change, with low battery indicator and auto-

Model MSI-4300 Porta-Weight Plus

Standard Product Specifications

Accuracy: Plus or minus 0.1% of applied load Display:

- 6 digit, 1.6 in /40 mm high numeric LCD (upper)
- 8 digit, 0.8 in./20 mm high numeric LCD (lower)
- Annunciators for measurement modes
- · Photocell activated electroluminescent backlighting
- Filtering: Low, Medium or High selectable Display Contrast: Adjustable
- Pounds Kilograms Tons Metric Tons: Switch selectable

Power: 8 disposable "D" size alkaline cells **Operating Time:**

· Maximum 2000 hours (no backlight)

 Minimum 250 hours (operating time will vary with on/off duty cycle and with use of backliaht)

Operating Temperature Range: 14° to +140° F (-10° to +60° C)

Enclosure: NEMA IV, alodined cast aluminum Safe Overload: 200% of rated capacity

Ultimate Overload: 500% of rated capacity

(except as noted)

Hook: Crosby thrust bearing swivel hook or equivalent

Standard Function Switches

POWER: Turns unit ON or OFF

ZERO: Zeros applied load up to 100% of capacity (limited range with NTEP or OIML option) NET/GROSS:Switches unit between NET and GROSS

TARE: Tares applied load and displays weight in Net mode

TEST: Provides on-demand functional test

Optional 7 Key Configuration

Includes all of the above, plus:

TOTAL: Accumulates weighments (automatically or manually)

VIEW: Displays current total value

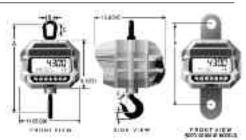
SETUP: Menu of selectable operating parameters (includes Set Points)

CLEAR: Dispose of previously entered values SELECT: Controls menu of selectable parameters

ENTER: Entry of numeric values and selectable operating parameters

PEAK HOLD: Captures and holds maximum load

TARE MEMORY: Stores up to 10 tare values



Wt.

(lbs.)

15.43

18.74

46.29

Options & Accessories

(-10° C to + 40° C).

proof.

body.

Options:

peak hold).

peak hold).

Max

Display

(lbs)

5,000

10,000

25,000

tom hook

· Weatherproof and clust-

· Large top shackle and bot-

Lightweight aluminum alloy

Model (MWX-IR) with infra

red controls (OFF, tare,

Hand held display, with

integrated push-button controls (ON/OFF, tare,

Height

of Digits

(in)

1.75

1.75

1.75

- 7 Key configuration
- NTEP and OIML approved for use in commercial trade (Contact factory for U.S. and International specs Class III & IIIL)
- · Full function remote controller
- · Substitute shackle for bottom swivel hook (possible headroom loss reduction)
- · Oversized top lifting eye or shackle • AC/DC input power 115/230 VAC and 12 - 250 VDC (Specify required voltage)
- RS232 data output
- Audible alarm
- 1. The MSI-4300 Porta-Weigh Plus crane scale is an ideal unit for heavy-duty applications in severe environments.
- For heavy-duty applications requiring remote radio telemetry display and/or computer interface, MSI recommends specifying MSI-6260 Trans-Weigh.

								Dimensions								App	rox.			
Capa	city	Resolu	ution**	l A	۸*	E	3*		C*		C* D*		E*		F			Eye Nut or	Ship	Wt.
(lbs)	(kg)	(lbs)	(kg)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	Hook	Shackle	(lbs)	(kg)	
500 2,000 5,000	250 1,000 2,500	0.2 1 1	0.1 0.5 0.5	18.3 18.3 20.5	465 465 521	2.25 2.25 2.50	57.1 57.1 64.0	3.06 3.06 3.50	77.7 77.7 89.0	1.44 1.44 1.81	37.0 37.0 46.0	1.34 1.34 1.69	34.0 34.0 42.9	- - -		3 ton swivel 3 ton swivel 5 ton swivel	CR#7 Eye Nut CR#7 Eye Nut CR#8 Eye Nut	53 53 62	24 24 28	
10,000 20,000 30,000	5,000 10,000 15,000	2 5 10	1 2 5	20.5 28.5 30.0	521 724 762	2.50 4.00 4.00	64.0 101.6 101.6	3.50 6.25 6.25	89.0 159 159	1.81 2.59 3.00	46.0 65.8 76.2	1.69 2.25 3.00	42.9 57.2 76.2	- - -		5 ton swivel 10 ton swivel 15 ton swivel	CR#8 Eye Nut CR#11 Eye Nut CR#11Eye Nut	62 105 125	28 47 55	
50,000	25,000	10	5	41.0	1041	5.00	127	6.00	152	3.66	93.0	3.63	92.0	15.0	381	25 ton swivel***	CR 25 ton Shackle #2130	235	106	
70,000	35,000	20	10	43.2	1097	5.00	127	6.00	152	4.56	116	3.75	95.0	15.0	381	35 ton swivel****	CR 40 ton Shackle #2140	270	121	
100,000	50,000	20	10	52.1	1324	5.75	146	6.65	169	5.06	129	4.25	108	16.25	413	CR 45 ton S1 Swivel*****	CR 50 ton Shackle #2140	420	189	

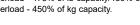
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CR = Crosby or equivalent.

These dimensions also apply to 50/70/100,000 lb. models with hook & shackles. ** Resolution subject to change for NTEP & OIML approved units.

Ultimate overload - 490% of kg capacity **** Ultimate overload - 475% of lb capacity/430% of kg capacity.

***** Ultimate overload - 450% of kg capacity.



Below the Hook Lifting

Below the Hook Lifting

