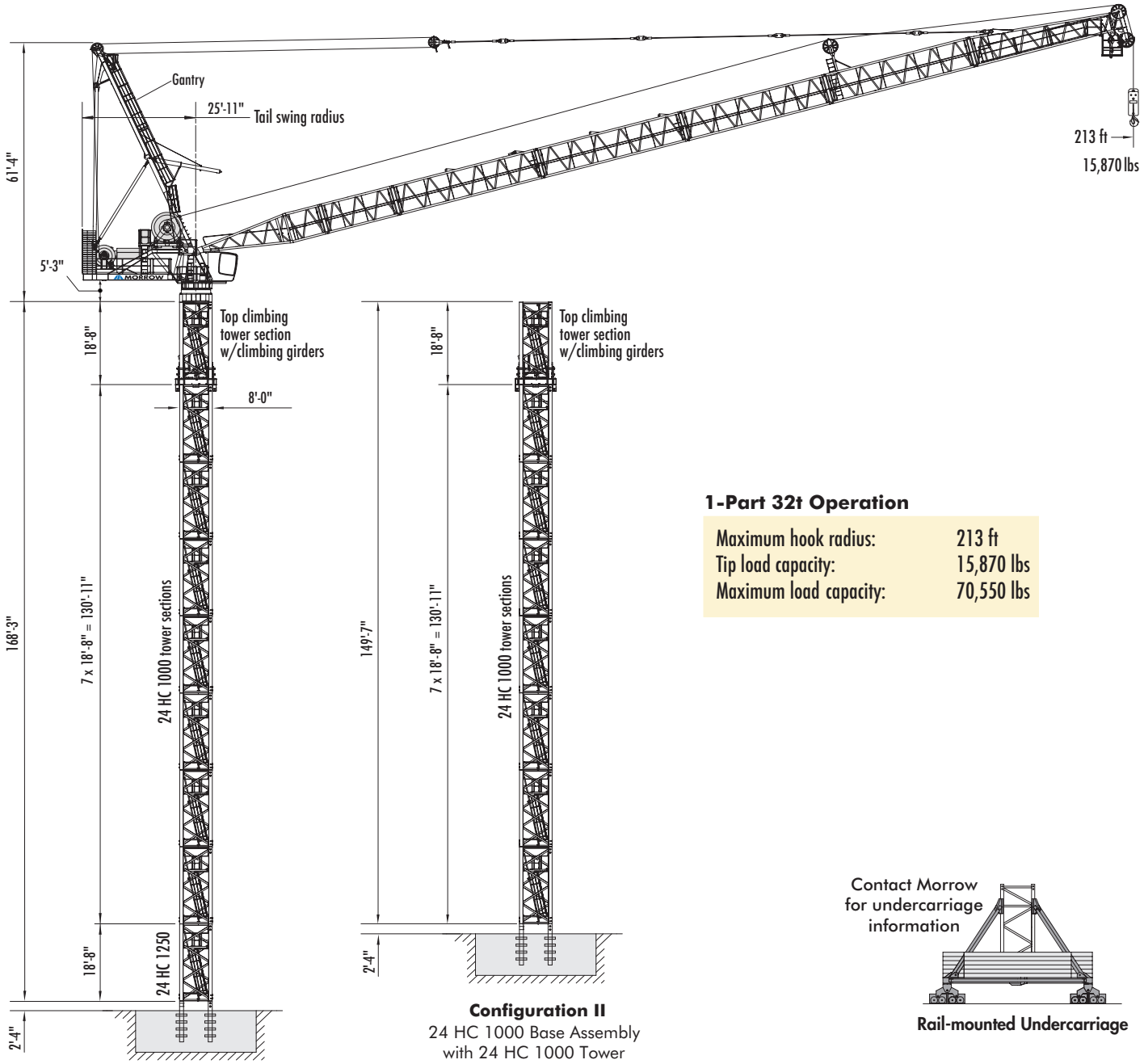
710 HC-L 32/64 Litronic®

LIEBHERR Luffing Boom Tower Crane

Configurations



Configuration I
24 HC 1250 Base Assembly
with 24 HC 1000 Tower
on concrete footing.

Configuration II
24 HC 1000 Base Assembly
with 24 HC 1000 Tower
on concrete footing.

1-Part 32t Operation

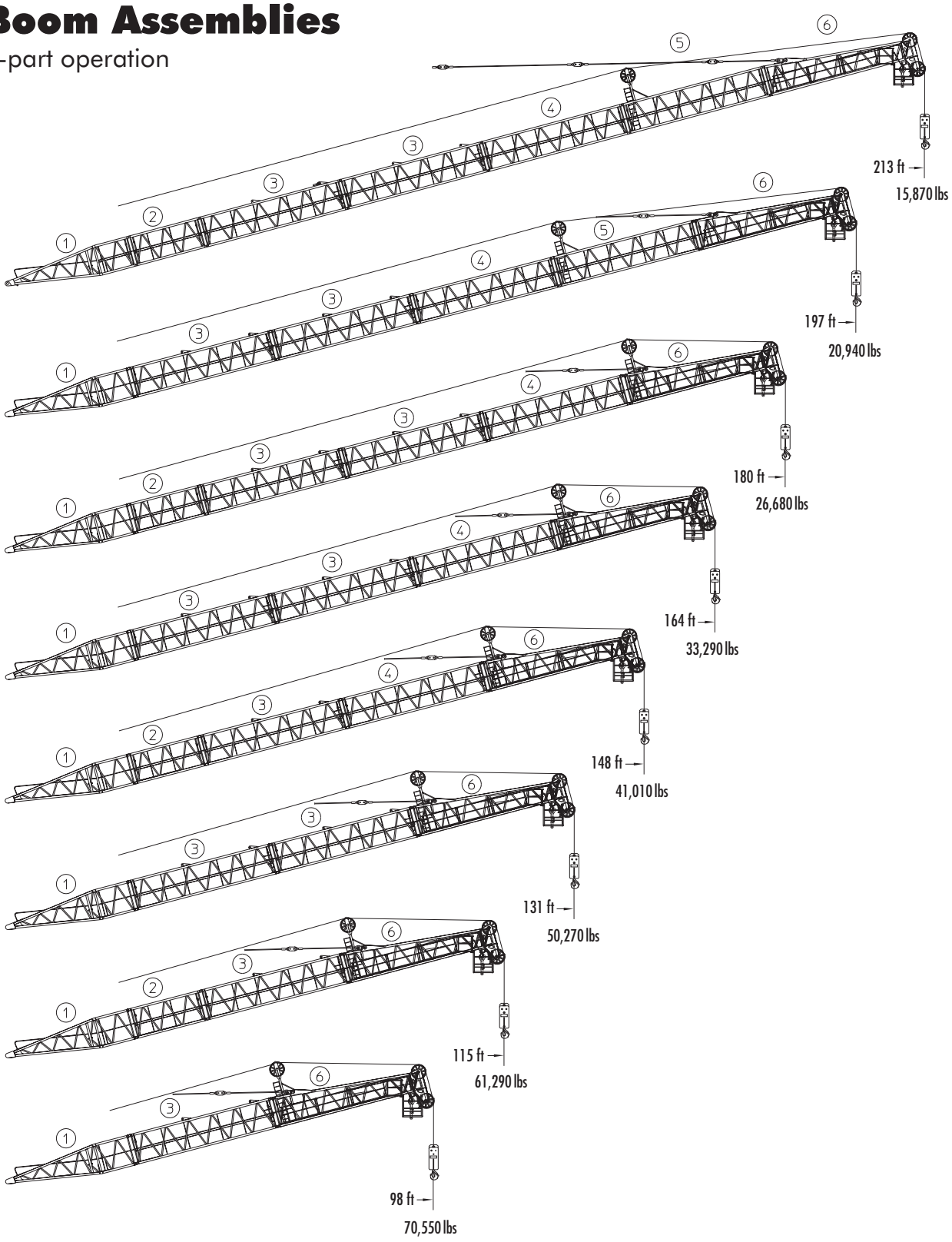
Maximum hook radius:	213 ft
Tip load capacity:	15,870 lbs
Maximum load capacity:	70,550 lbs

Contact Morrow for undercarriage information

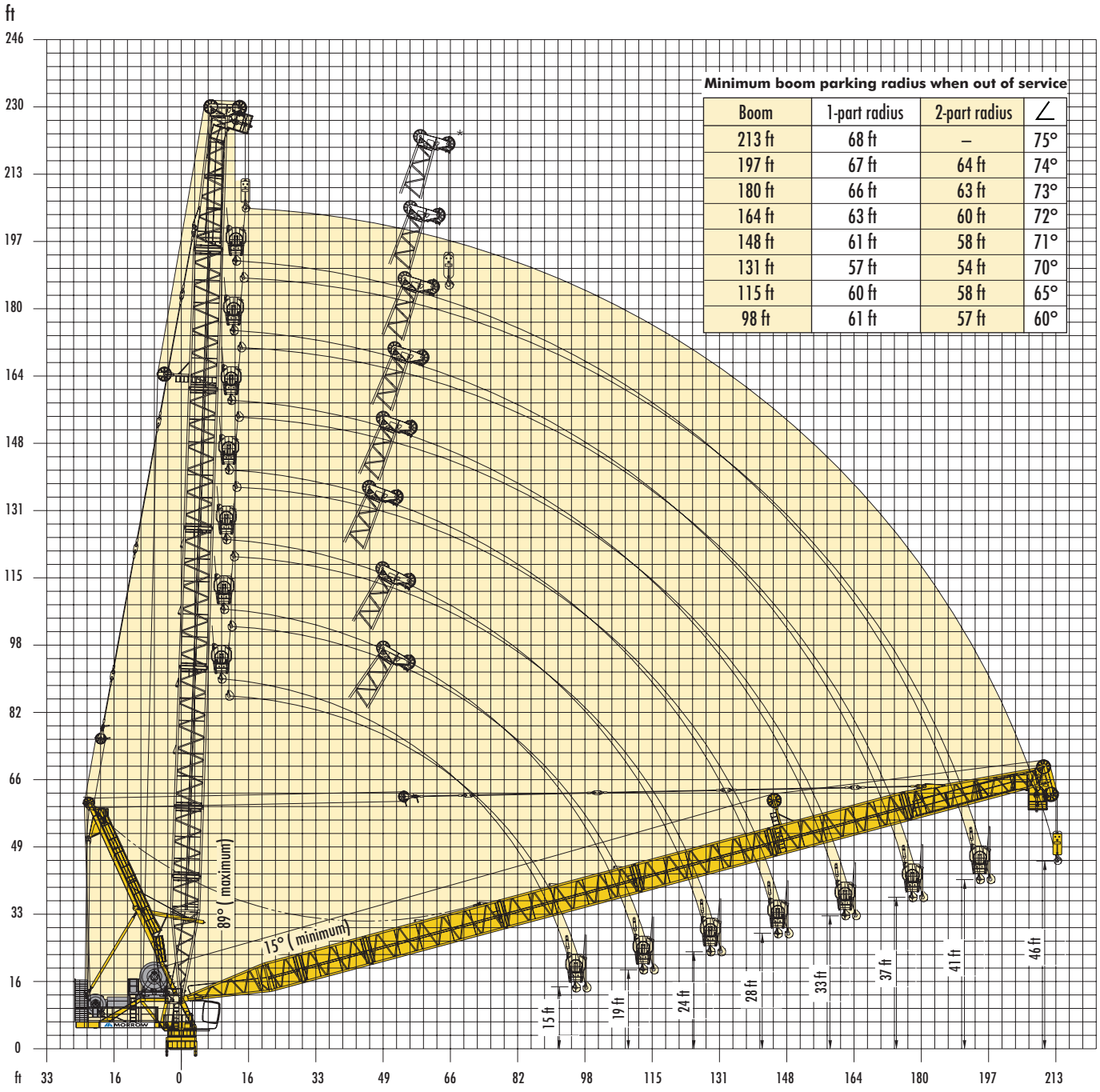
Rail-mounted Undercarriage

Boom Assemblies

1-part operation



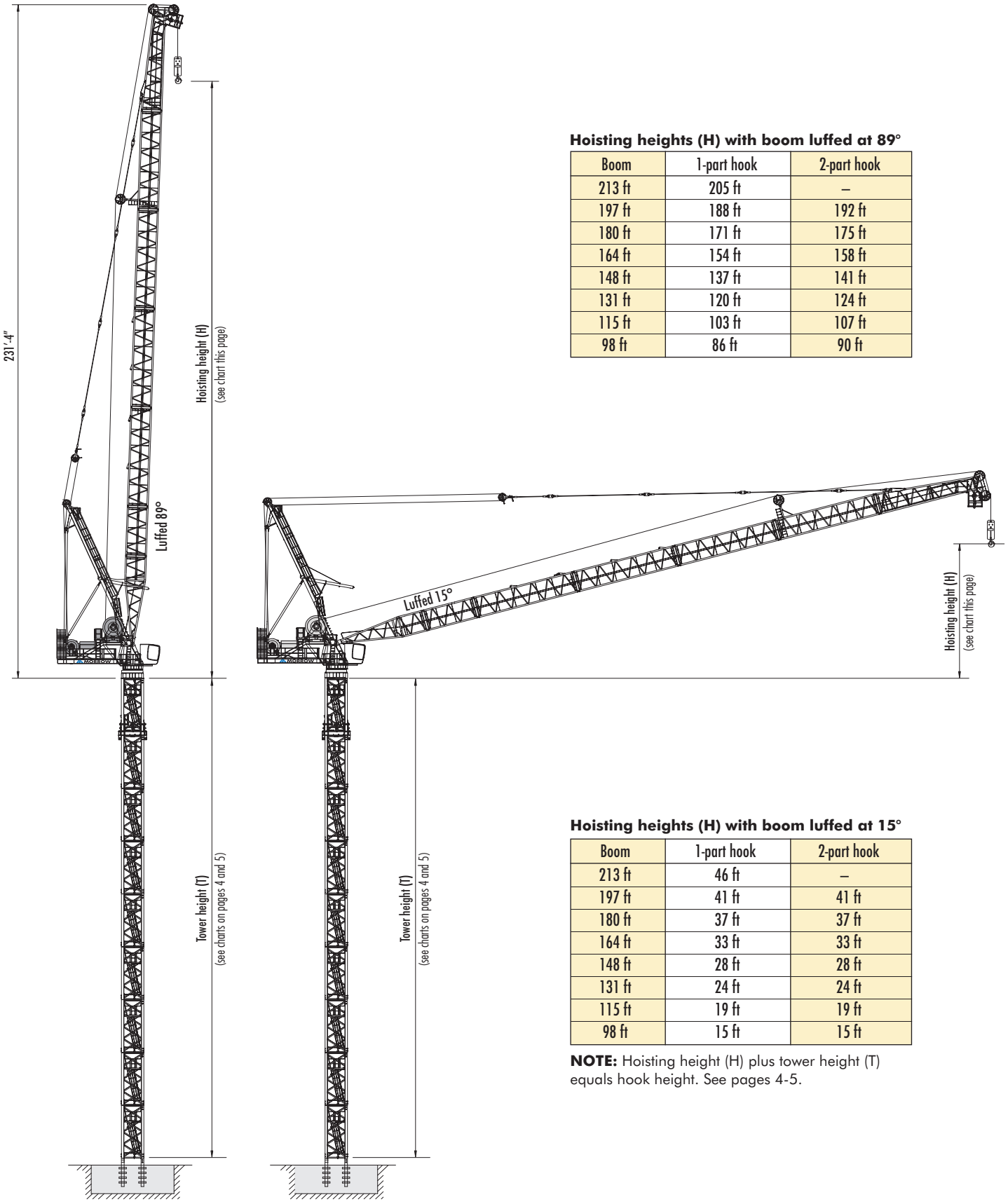
Radius and Hoisting Heights



Minimum boom parking radius when out of service

Boom	1-part radius	2-part radius	∠
213 ft	68 ft	–	75°
197 ft	67 ft	64 ft	74°
180 ft	66 ft	63 ft	73°
164 ft	63 ft	60 ft	72°
148 ft	61 ft	58 ft	71°
131 ft	57 ft	54 ft	70°
115 ft	60 ft	58 ft	65°
98 ft	61 ft	57 ft	60°

NOTE: Hoisting height (H) plus tower height (T) equals hook height. See pages 4-5.



Hoisting heights (H) with boom luffed at 89°

Boom	1-part hook	2-part hook
213 ft	205 ft	–
197 ft	188 ft	192 ft
180 ft	171 ft	175 ft
164 ft	154 ft	158 ft
148 ft	137 ft	141 ft
131 ft	120 ft	124 ft
115 ft	103 ft	107 ft
98 ft	86 ft	90 ft

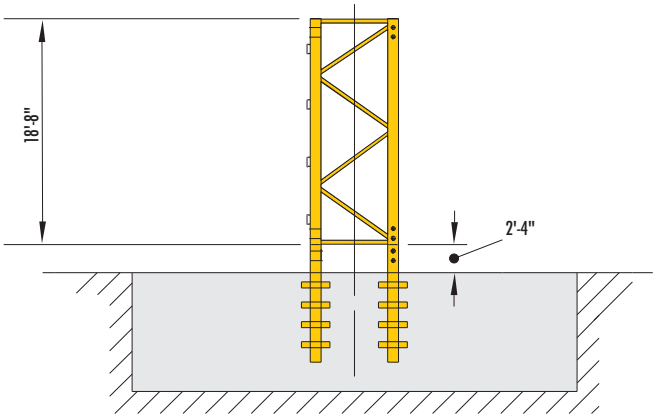
Hoisting heights (H) with boom luffed at 15°

Boom	1-part hook	2-part hook
213 ft	46 ft	–
197 ft	41 ft	41 ft
180 ft	37 ft	37 ft
164 ft	33 ft	33 ft
148 ft	28 ft	28 ft
131 ft	24 ft	24 ft
115 ft	19 ft	19 ft
98 ft	15 ft	15 ft

NOTE: Hoisting height (H) plus tower height (T) equals hook height. See pages 4-5.

Tower Heights on Concrete Footing

197 ft Boom 24 HC 1000	
No. of Sections	**Tower Height**
1	21 ft
2	40 ft
3	58 ft
4	77 ft
5	96 ft
6	115 ft
7	133 ft
8	152 ft
9*	171 ft



213 ft Boom 24 HC 1000/24 HC 1250	
No. of Sections	**Tower Height**
1	21 ft
2	40 ft
3	58 ft
4	77 ft
5	96 ft
6	115 ft
7	133 ft
8*	152 ft
9*	171 ft [1]

98 ft Boom 24 HC 1000/24 HC 1250	
No. of Sections	**Tower Height**
1	21 ft
2	40 ft
3	58 ft
4	77 ft
5	96 ft
6	115 ft
7	133 ft
8	152 ft
9	171 ft
10	189 ft
11*	208 ft
12*	227 ft [2]
13*	245 ft [3]

115 ft and 131 ft Boom 24 HC 1000/24 HC 1250	
No. of Sections	**Tower Height**
1	21 ft
2	40 ft
3	58 ft
4	77 ft
5	96 ft
6	115 ft
7	133 ft
8	152 ft
9	171 ft
10	189 ft
11*	208 ft [2,4]
12*	227 ft [3]
–	–

148 ft and 164 ft Boom 24 HC 1000/24 HC 1250	
No. of Sections	**Tower Height**
1	21 ft
2	40 ft
3	58 ft
4	77 ft
5	96 ft
6	115 ft
7	133 ft
8	152 ft
9	171 ft
10*	189 ft
11*	208 ft [2]
–	–
–	–

180 ft Boom 24 HC 1000/24 HC 1250	
No. of Sections	**Tower Height**
1	21 ft
2	40 ft
3	58 ft
4	77 ft
5	96 ft
6	115 ft
7	133 ft
8	152 ft
9*	171 ft
10*	189 ft [1]
–	–
–	–
–	–

***NOTE:** Top climbing unit must be lowered to base of tower prior to crane being put into operation. Alternate tower combinations possible. Contact Morrow for information.

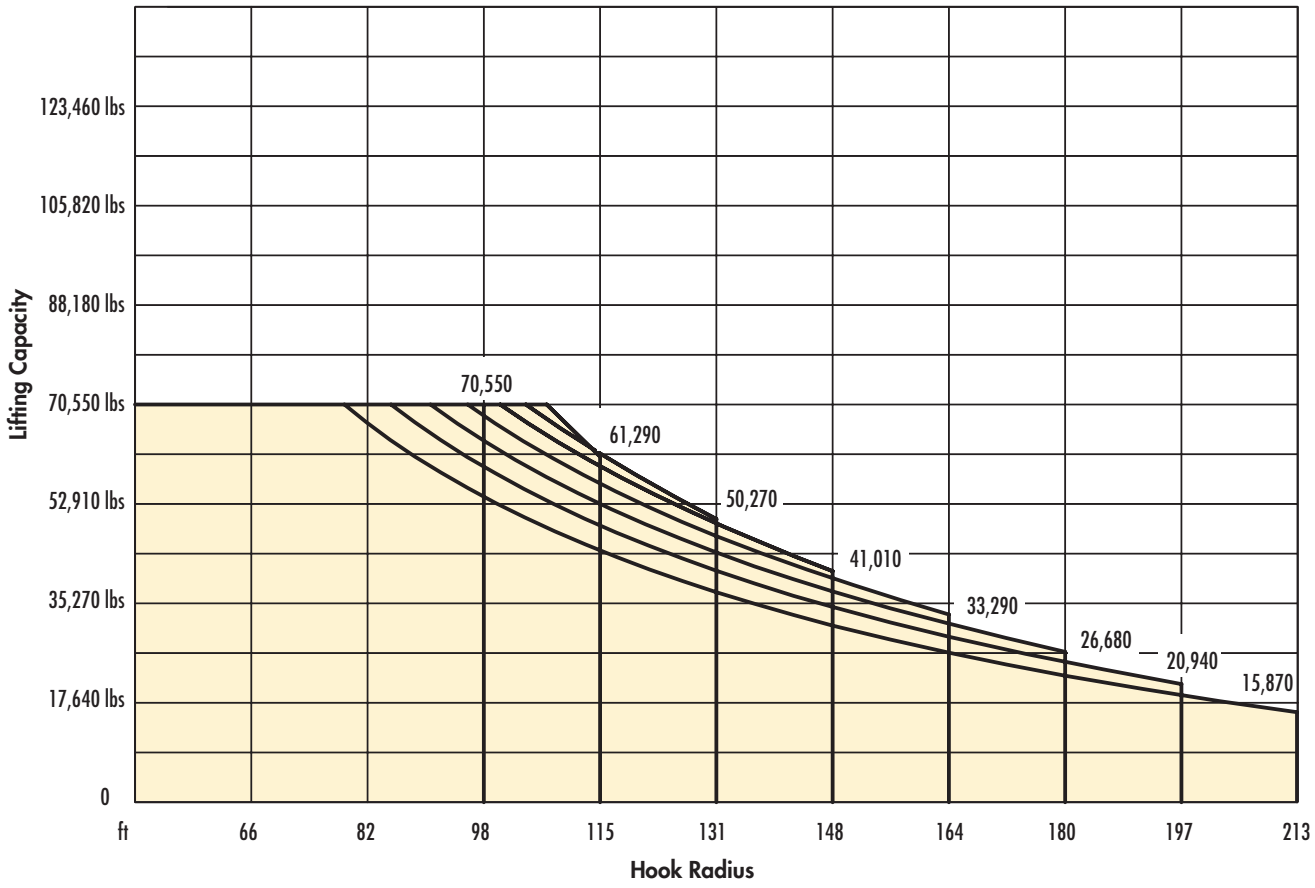
[1] One (1) 24 HC 1250 base tower.
[2] Two (2) 24 HC 1250 base towers.
[3] Three (3) 24 HC 1250 base towers.
[4] No 24 HC 1250 base towers required for 115 ft Boom and two (2) 24 HC 1250 base towers required for 131 ft Boom.

Radius and Capacities

1-part 32t operation

Boom Assembly	Maximum Capacity – Radius	Min. Hook Radius	ft	66	82	98	115	131	148	164	180	197	213
213 ft	70,550 lbs – 79 ft	16 ft	lbs	70,550	67,330	54,230	44,620	37,240	31,350	26,520	22,470	19,000	15,870
197 ft	70,550 lbs – 85 ft	15 ft	lbs	70,550	70,550	59,550	49,100	41,050	34,610	29,340	24,890	20,940	
180 ft	70,550 lbs – 91 ft	14 ft	lbs	70,550	70,550	64,150	52,930	44,290	37,370	31,660	26,680		
164 ft	70,550 lbs – 96 ft	14 ft	lbs	70,550	70,550	68,560	56,500	47,180	39,710	33,290			
148 ft	70,550 lbs – 101 ft	13 ft	lbs	70,550	70,550	70,550	59,570	49,450	41,010				
131 ft	70,550 lbs – 104 ft	13 ft	lbs	70,550	70,550	70,550	61,840	50,270					
115 ft	70,550 lbs – 107 ft	12 ft	lbs	70,550	70,550	70,550	61,290						
98 ft	70,550 lbs – 98 ft	12 ft	lbs	70,550	70,550	70,550							

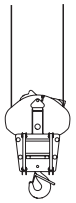




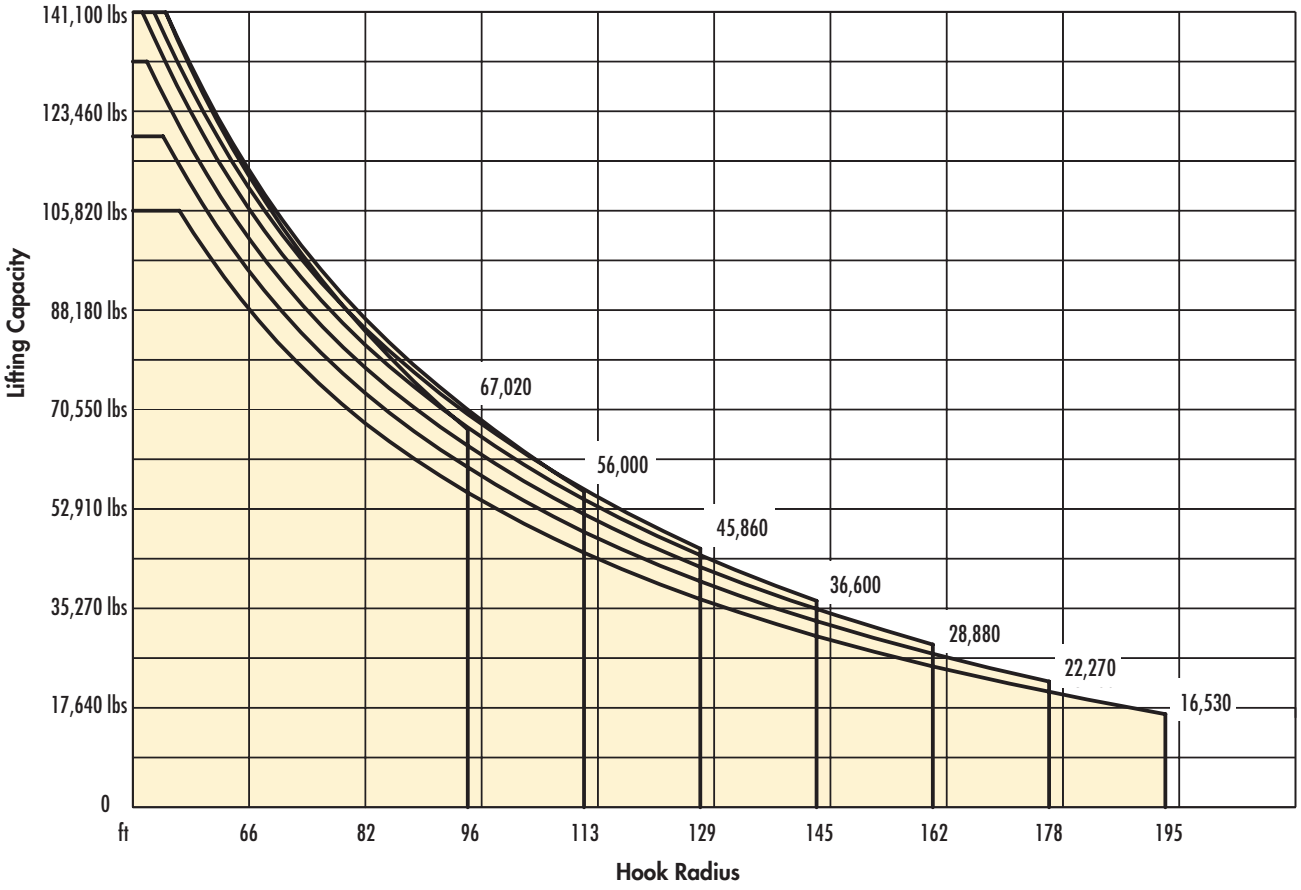
Radius and Capacities

2-part 64t operation

Boom Assembly	Maximum Capacity – Radius	Min. Hook Radius	ft	66	82	96	113	129	145	162	178	195
197 ft	105,820 lbs – 56 ft	14 ft	lbs	88,360	68,100	54,170	43,870	35,940	29,560	24,320	19,910	16,530
180 ft	119,050 lbs – 53 ft	13 ft	lbs	95,080	73,410	58,490	47,490	38,980	32,140	26,500	22,270	
164 ft	132,280 lbs – 51 ft	12 ft	lbs	100,860	77,980	62,190	50,550	41,510	34,240	28,880		
148 ft	141,100 lbs – 50 ft	11 ft	lbs	106,110	82,010	65,370	53,090	43,500	36,600			
131 ft	141,100 lbs – 52 ft	11 ft	lbs	109,830	84,880	67,640	54,830	45,860				
115 ft	141,100 lbs – 54 ft	10 ft	lbs	112,990	86,620	68,300	56,000					
98 ft	141,100 lbs – 54 ft	9 ft	lbs	111,930	84,420	67,020						



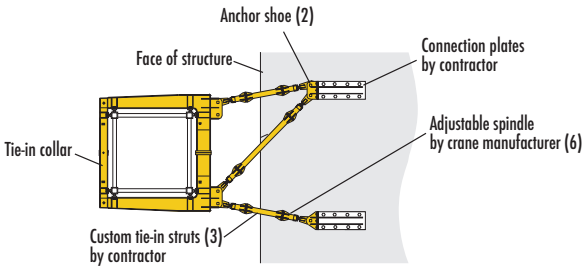
NOTE: The 213 ft boom is NOT available when using 2-part 64t operation. Contact MORROW for information.



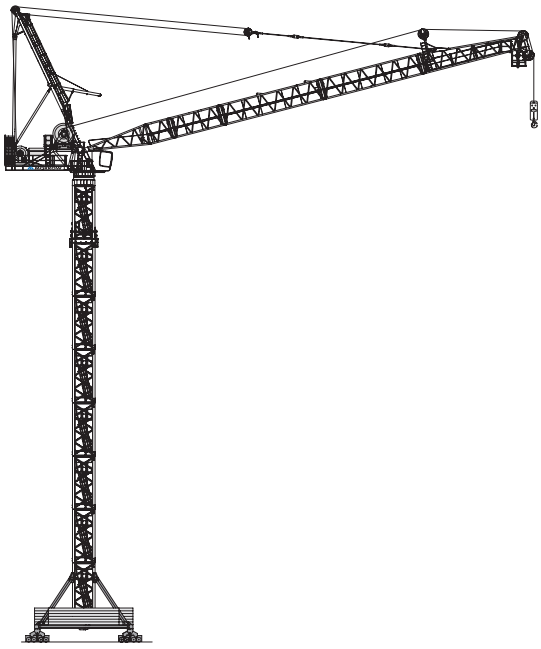
Configurations

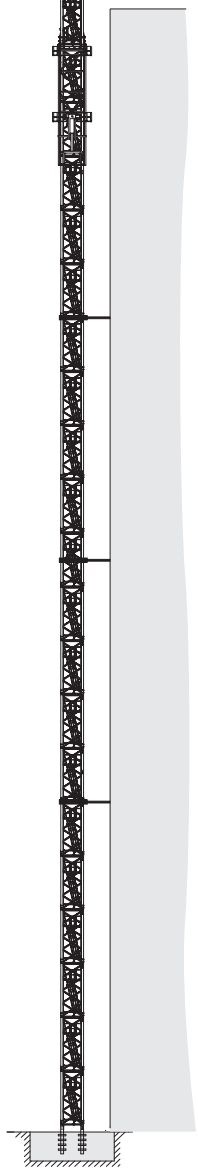
IMPORTANT: Configurations shown on this page are for illustrative purposes only. Actual configuration dependent on job site specific criteria. See 710 HC-L 32/64 Instruction Manual or contact MORROW for additional information.





TIE-IN ASSEMBLY
(Top climbing tied to structure)





BOTTOM CLIMBING

Bottom (internal) climbing configuration is used primarily when crane is situated within a structure. Crane climbs as floors are added to the structure.

RAIL TRAVELING OR STATIC UNDERCARRIAGE

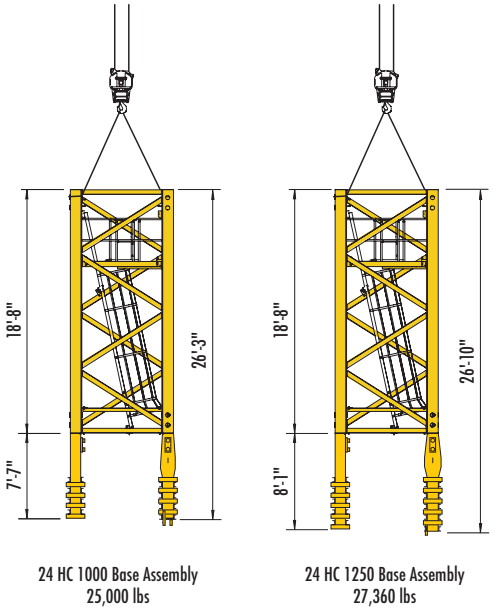
Rail traveling crane configuration offers greater hook coverage on job site.

TOP CLIMBING

Freestanding or tied to structure.

Foundation Details

(on concrete footing and anchors)

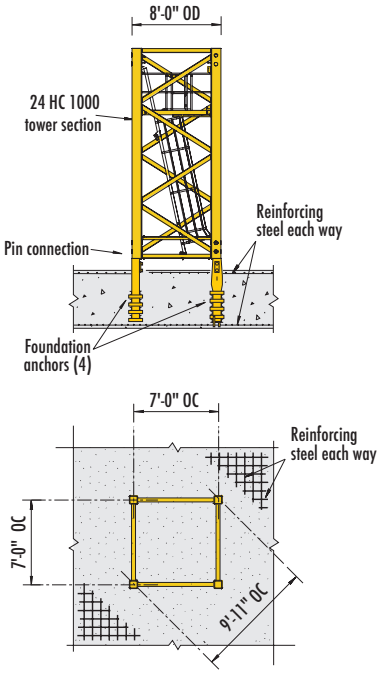


24 HC 1000 Base Assembly
25,000 lbs

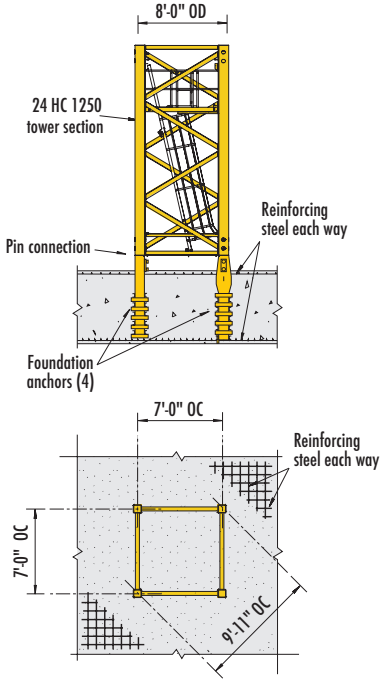
24 HC 1250 Base Assembly
27,360 lbs

BASE ASSEMBLY TOWER SECTION WITH ANCHORS

(Including connecting material)



24 HC 1000 BASE ASSEMBLY



24 HC 1250 BASE ASSEMBLY

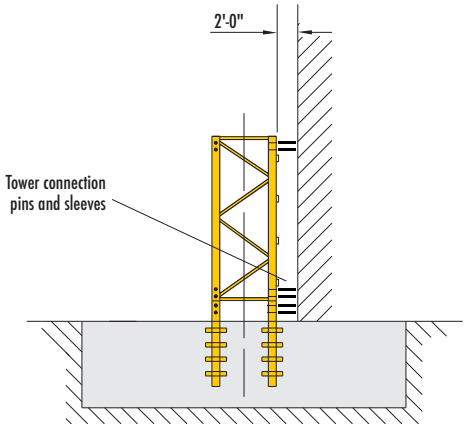
Counterweights

(Steel)

Boom Assembly	213' - 115'	98'
Counterweights	18 x A + 1 x B	17 x A + 1 x B
Total weight	170,860 lbs	161,820 lbs

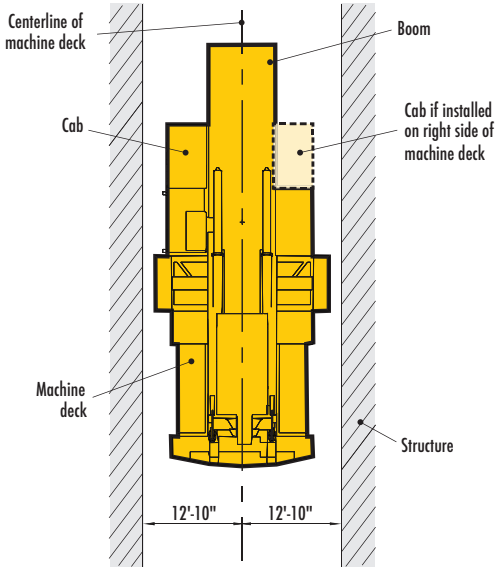
NOTE: Counterweight figures displayed in the chart above are for crane with hoist unit WiW 330 WZ 402. If alternate hoist unit is installed, refer to the 710 HC-L 32/64 Instruction Manual or contact MORROW for information.

Clearance Requirements



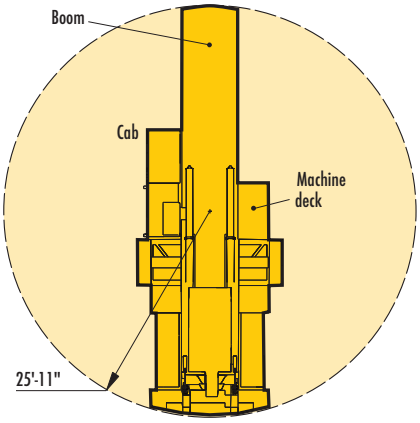
TOWER PIN REMOVAL

View showing minimum clearance needed to remove tower connection pins/sleeves from all sides of tower section.



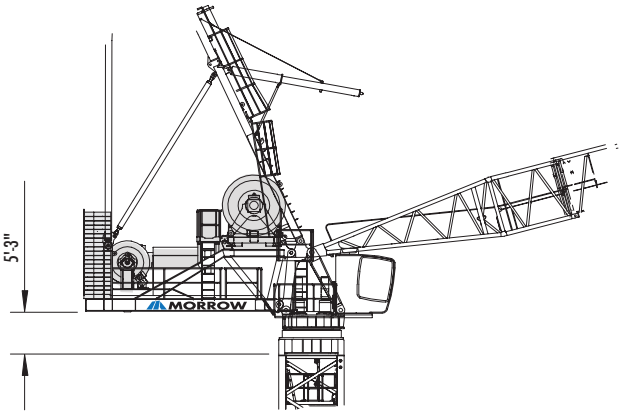
TOP CLIMBING ADJACENT TO STRUCTURE

NOTE: Allow for clearance between crane and any adjacent structure when climbing crane up or down. These views illustrate minimum crane-to-structure clearances.



TAIL SWING RADIUS

Views showing tail swing radius for crane configuration using steel counterweights.



COUNTERJIB TO TOP OF TOWER

Hoist Speed and Capacity

Hoist Drive WiW 330 WZ 402	1-Part Operation		
2x 147 hp [294 hp] AC hoist unit 2x 110 kW [220 kW] Variable frequency drive (VFD) 2-speed SD.Shift 4 layers	**Speed**	**Capacity**	**Hook Speed**
	1	up to 70,550 lbs up to 17,200 lbs	@ 115 fpm @ 374 fpm
	2	up to 31,970 lbs up to 6,170 lbs	@ 233 fpm @ 637 fpm
	2-Part Operation		
	1	up to 141,100 lbs up to 38,140 lbs	@ 59 fpm @ 187 fpm
1P - 4L350 2P - 4L175	2	up to 66,140 lbs up to 19,180 lbs	@ 118 fpm @ 318 fpm

NOTE: Maximum hook height for 1-part operation is 3,500 ft and 1,750 ft for 2-part operation. Capacities and line speeds indicated will vary depending on the amount of hoist rope installed. This crane model may be equipped with hoist units other than that specified in the data above. To verify, check the serial number of the crane and refer to the Liebherr 710 HC-L 32/64 Instruction Manual for additional information.

Drive Information

Drive Unit	Horsepower	Kilowatts	Speed*
Luffing* (VFD)	215	160	1.4 – 2 min
Swing (VFD)	2 x 14.7	2 x 11	0.6 rpm
Travelling	Information available upon request		

***NOTE:** Luffing speed shown is for a typical working range of 15° to 75° with load. Luffing speeds are variable. Factors such as hook load, boom length will affect speed.

Power Requirements

Power supply: 3-phase 480 V, 60 Hz; 3-wire plus ground; no Neutral.
480 V phase-phase, 277 V each phase to ground with 120° phase shift between phases.
Service size: 500 Amperes

NOTES:

1. For electric power provided by an electric utility, do not use open Delta transformers.
2. For electric power provided by a generator, the minimum generator size required is 550kW. Verify the generator provided is suitable for use with variable frequency drives (VFDs). A properly sized generator is critical to the safe operation of the crane.

Specifications are subject to change without prior notice. Drawings shown in this datasheet are for illustrative purposes only. Refer to the 710 HC-L 32/64 Instruction Manual. For additional information, contact MORROW. All rights are reserved.

Components

Description	Dimensions L x W x H	Weight
Slewing ring support	7′-7″ x 7′-7″ x 4′-2″	10,160 lbs
Pivot	9′-3″ x 7′-6″ x 7′-10″	8,530 lbs
Slewing platform plus pivot	15′-6″ x 8′-6″ x 7′-11″	39,570 lbs
Slewing platform	10′-11″ x 7′-7″ x 8′-6″	31,370 lbs
Machine deck w/ luffing[1] gear 215 hp (160 kW)	23′-10″ x 7′-7″ x 8′-5″	36,550 lbs
Machine deck w/o luffing gear	23′-10″ x 7′-7″ x 7′-6″	24,100 lbs
Hoist gear VFD[1] 2x 147 hp (110 kW)	15′-7″ x 7′-6″ x 8′-5″	26,810 lbs
Hoist gear platform w/o hoist gear	15′-7″ x 7′-6″ x 4′-6″	6,420 lbs
Operator cab with access platform	13′-11″ x 5′-1″ x 8′-5″	2,745 lbs
Platforms (2) attached to deck	18′-1″ x 3′-11″ x 5′-3″	925 lbs
Gantry	39′-8″ x 7′-5″ x 7′-10″	22,270 lbs
Hook block 1-part operation	5′-5″ x 1′-4″ x 1′-8″	1,760 lbs
Hook block 2-part operation	9′-10″ x 5′-1″ x 2′-10″	5,730 lbs
Pulley block	4′-9″ x 4′-8″ x 3′-9″	1,675 lbs
Tower section 24 HC 1250	20′-7″ x 8′-0″ x 8′-0″	19,840 lbs
Tower section 24 HC 1000	20′-7″ x 8′-0″ x 8′-0″	18,960 lbs
Top climbing section	20′-7″ x 8′-0″ x 8′-7″	30,400 lbs
Climbing girders (2x) for climbing section	10′-0″ x 6′-0″ x 4′-8″	8,820 lbs
Foundation anchor (4x)[2] 24 HC 1250 each	8′-1″ x 1′-8″ x 1′-8″	1,880 lbs

Description	Dimensions L x W x H	Weight
Butt section ① 611	30′-11″ x 7′-5″ x 7′-2″	8,445 lbs
Boom section ② 612	17′-8″ x 7′-5″ x 7′-2″	3,110 lbs
Boom section ③ 621	34′-8″ x 7′-5″ x 7′-10″	6,570 lbs
Boom section ④ 622	34′-8″ x 7′-5″ x 7′-2″	5,135 lbs
Boom section ⑤ 631	34′-8″ x 7′-5″ x 7′-2″	5,270 lbs
Tip section ⑥ 641	37′-1″ x 9′-1″ x 8′-4″	9,480 lbs
Top climbing frame	44′-5″ x 8′-1″ x 6′-10″	49,935 lbs
Top climbing hydraulic equipment	14′-9″ x 4′-13 x 6′-7″	8,160 lbs
Boom assembly complete[3] 213 ft boom ①②③③④⑤⑥	220′-2″ x 9′-1″ x 9′-0″	50,710 lbs
Boom assembly complete[3] 197 ft boom ①③③④⑤⑥	203′-9″ x 9′-1″ x 9′-0″	47,400 lbs
Boom assembly complete[3] 180 ft boom ①②③③④⑥	187′-4″ x 9′-1″ x 9′-0″	44,090 lbs
Boom assembly complete[3] 164 ft boom ①③③④⑥	170′-11″ x 9′-1″ x 9′-0″	40,790 lbs
Boom assembly complete[3] 148 ft boom ①②③④⑥	154′-6″ x 9′-1″ x 9′-0″	37,480 lbs
Boom assembly complete[3] 131 ft boom ①③③⑥	138′-1″ x 9′-1″ x 9′-0″	35,270 lbs
Boom assembly complete[3] 115 ft boom ①②③⑥	121′-9″ x 9′-1″ x 9′-0″	31,970 lbs
Boom assembly complete[3] 98 ft boom ①③⑥	105′-4″ x 9′-1″ x 9′-0″	28,660 lbs
Counterweight (18x) Steel (ea.) - A block	15′-1″ x 3′-2″ x 10″	8,970 lbs
Counterweight (1x) Steel - B block	15′-1″ x 3′-2″ x 10″	8,995 lbs
Tie-in collar	14′-5″ x 2′-0″ x 15′-9″	13,160 lbs

NOTE: Weights and dimensions are approximate. Scale components before lifting. Consult Instruction Manual before erecting, operating, servicing and dismantling crane.

[1] Does not include hoist rope: 5.8 lbs per foot. Luffing rope: 2.4 lbs per foot.
[2] Anchor for 24 HC 1000 tower: 7' - 7" x 1' - 8" x 1' - 8" and 1,510 lbs each. 4 per complete set.
[3] Complete boom assemblies include (per manufacturer): Boom sections, suspension, tie bars, platforms, support and rope.

Specifications are subject to change without prior notice. Drawings shown in this datasheet are for illustrative purposes only. Refer to the 710 HC-L 32/64 Instruction Manual. For additional information, contact MORROW. All rights reserved.