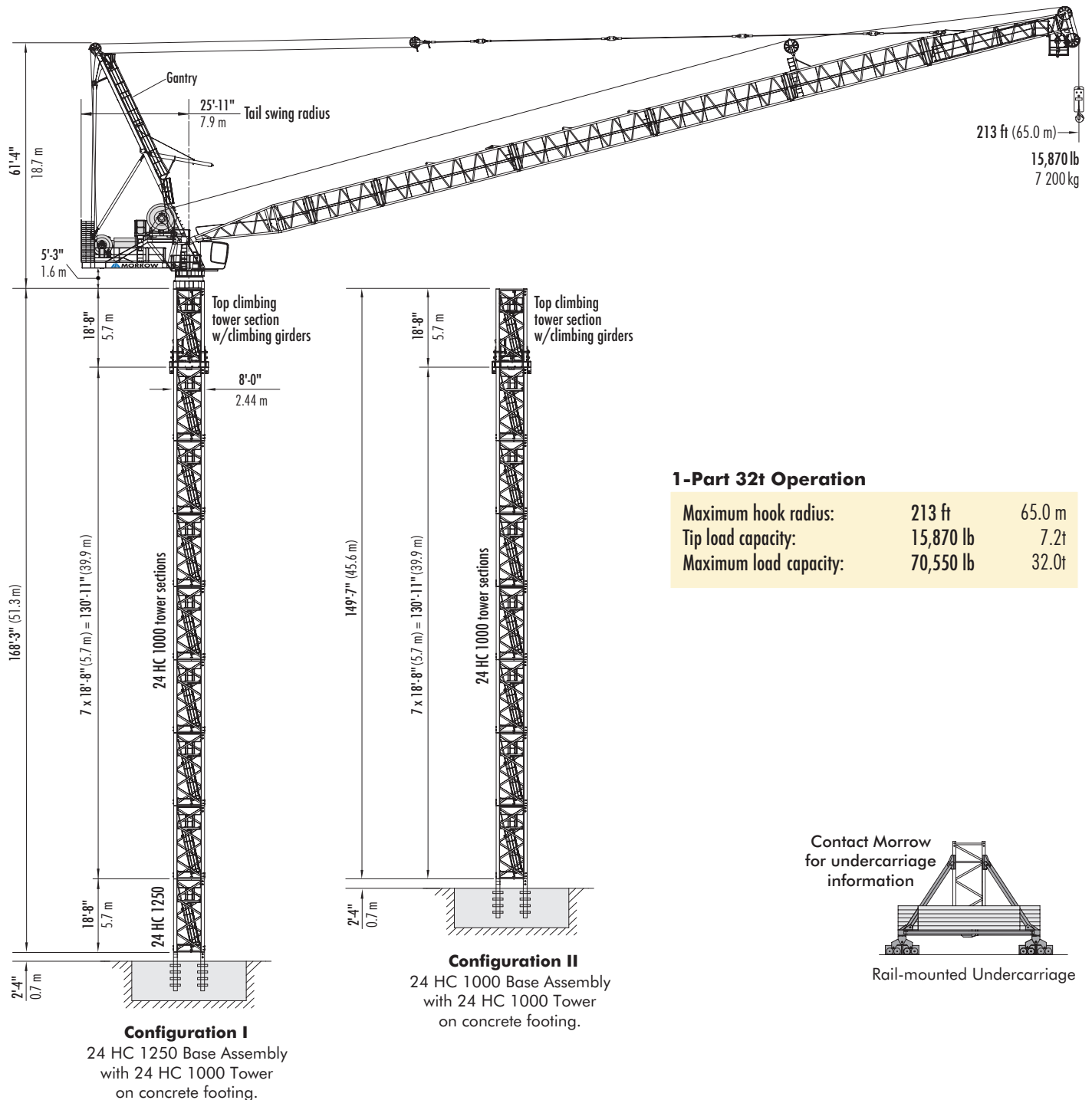


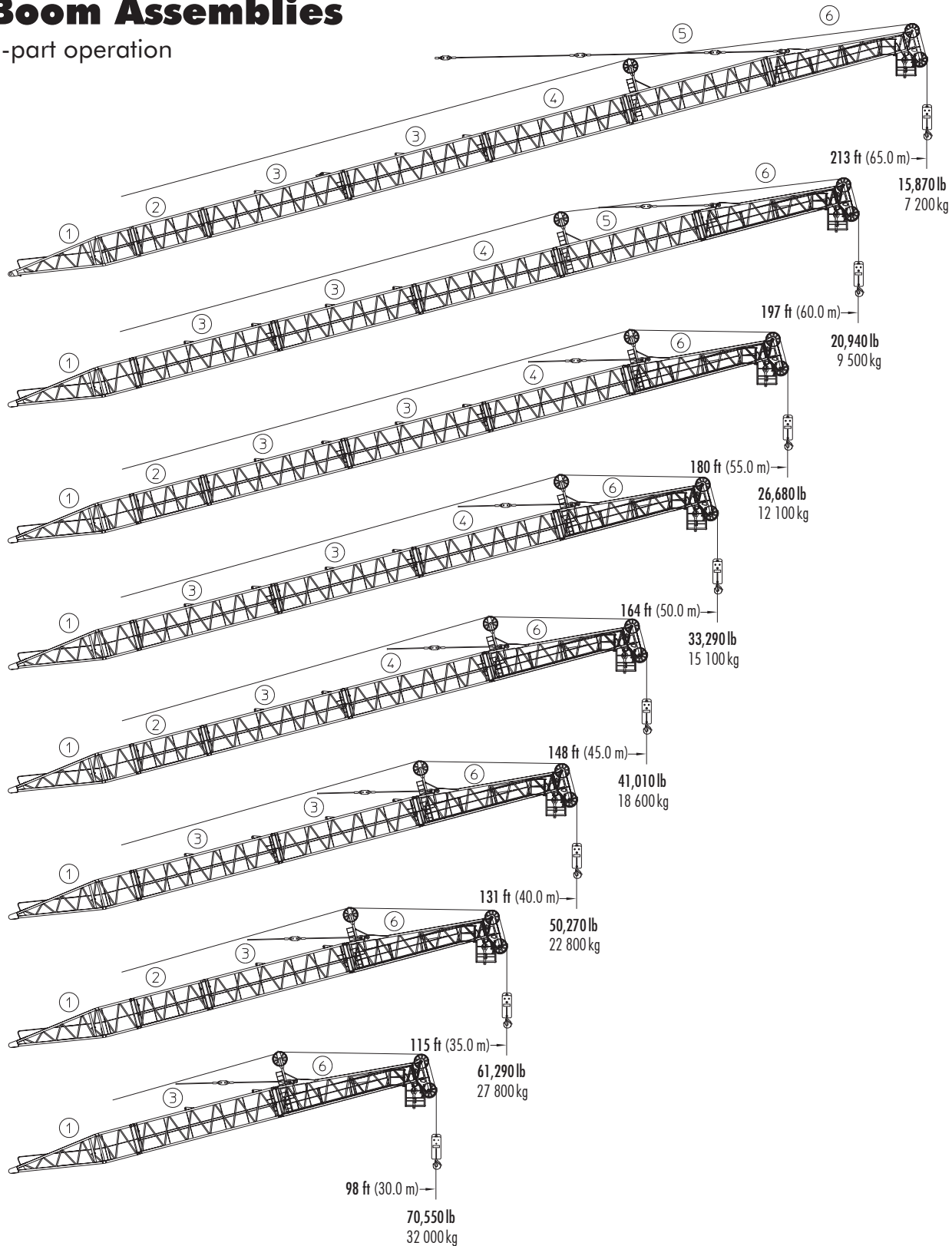
710 HC-L 32/64 Litronic® LIEBHERR Luffing Boom Tower Crane

Configurations

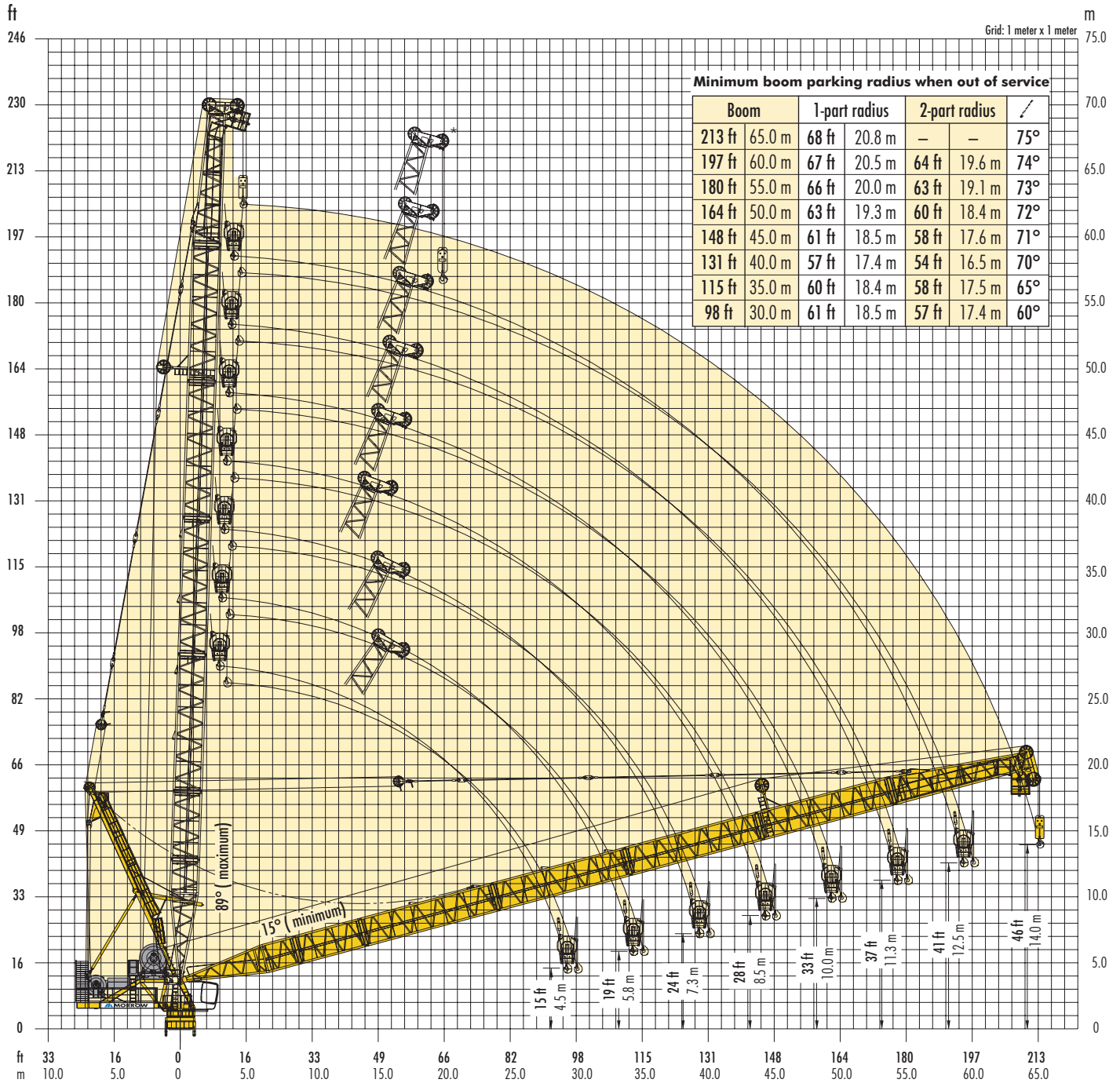


Boom Assemblies

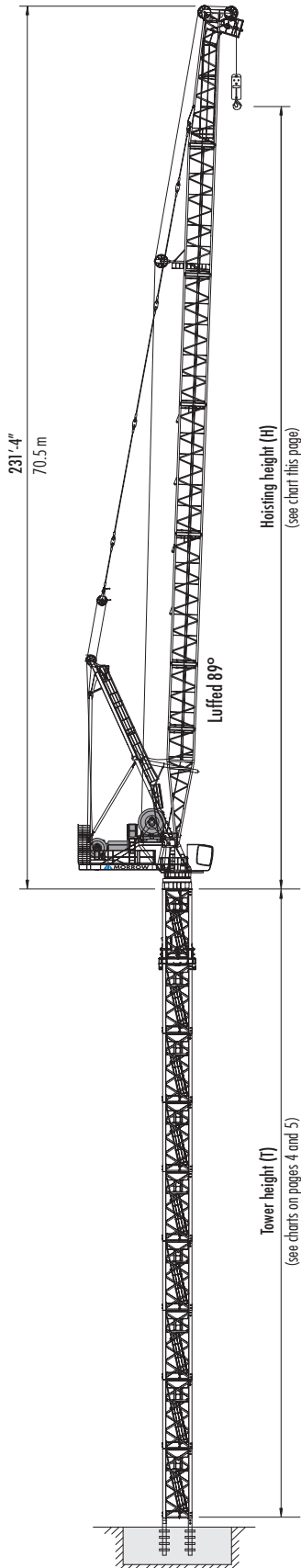
1-part operation



Radius and Hoisting Heights

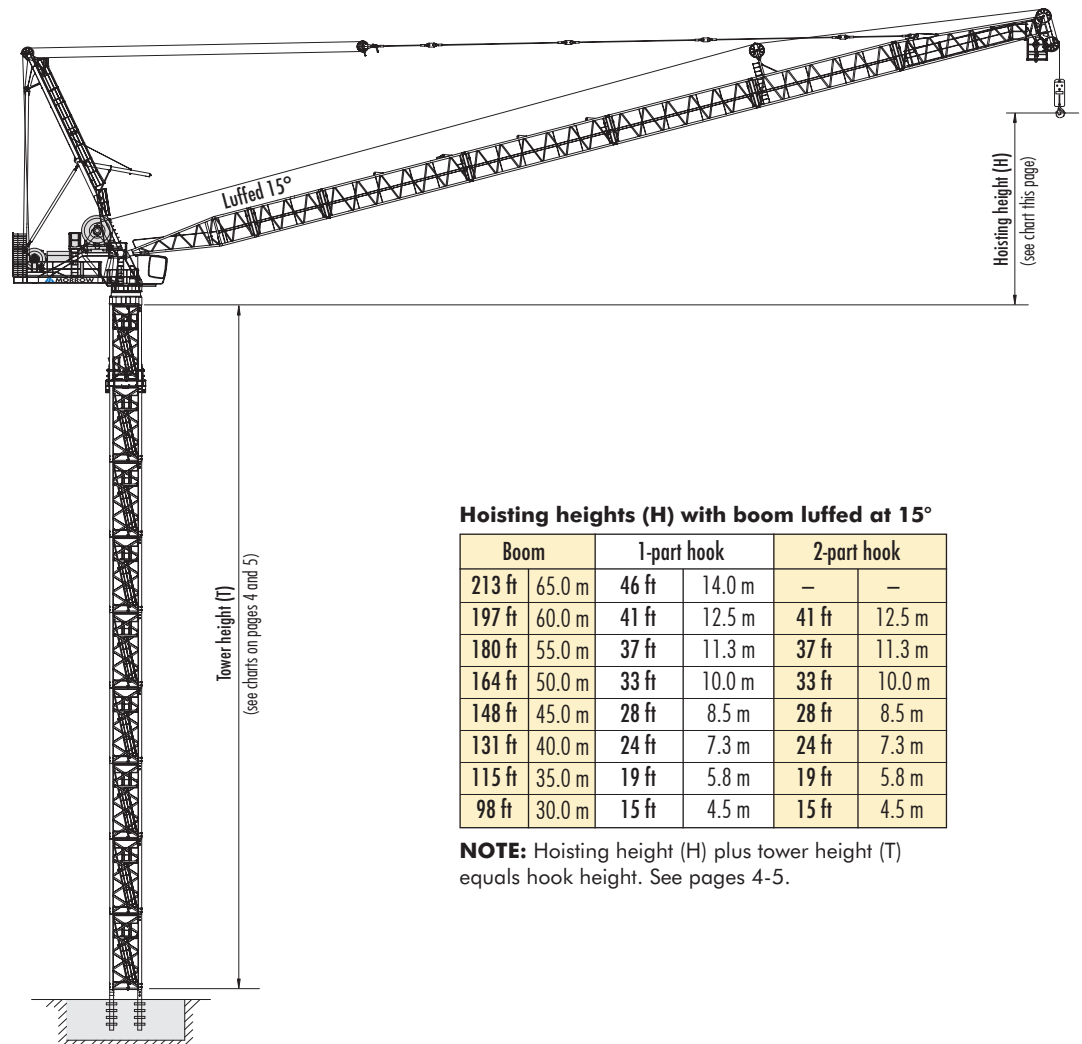


NOTE: Hoisting height (H) plus tower height (T) equals hook height. See pages 4-5.



Hoisting heights (H) with boom luffed at 89°

Boom		1-part hook		2-part hook	
213 ft	65.0 m	205 ft	62.5 m	—	—
197 ft	60.0 m	188 ft	57.3 m	192 ft	58.5 m
180 ft	55.0 m	171 ft	52.0 m	175 ft	53.3 m
164 ft	50.0 m	154 ft	47.0 m	158 ft	48.2 m
148 ft	45.0 m	137 ft	41.7 m	141 ft	43.0 m
131 ft	40.0 m	120 ft	36.5 m	124 ft	37.9 m
115 ft	35.0 m	103 ft	31.3 m	107 ft	32.6 m
98 ft	30.0 m	86 ft	26.2 m	90 ft	27.5 m



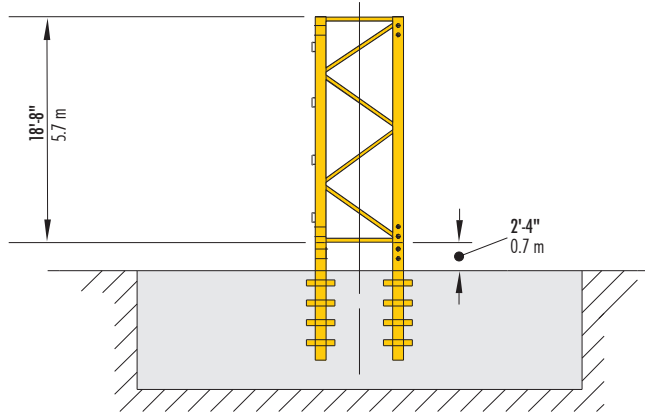
Hoisting heights (H) with boom luffed at 15°

Boom		1-part hook		2-part hook	
213 ft	65.0 m	46 ft	14.0 m	—	—
197 ft	60.0 m	41 ft	12.5 m	41 ft	12.5 m
180 ft	55.0 m	37 ft	11.3 m	37 ft	11.3 m
164 ft	50.0 m	33 ft	10.0 m	33 ft	10.0 m
148 ft	45.0 m	28 ft	8.5 m	28 ft	8.5 m
131 ft	40.0 m	24 ft	7.3 m	24 ft	7.3 m
115 ft	35.0 m	19 ft	5.8 m	19 ft	5.8 m
98 ft	30.0 m	15 ft	4.5 m	15 ft	4.5 m

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

Tower Heights on Concrete Footing

197 ft (60.0 m) Boom 24 HC 1000		
No. of Sections	Tower Height	
1	21 ft	6.4 m
2	40 ft	12.1 m
3	58 ft	17.8 m
4	77 ft	23.5 m
5	96 ft	29.2 m
6	115 ft	34.9 m
7	133 ft	40.6 m
8	152 ft	46.3 m
9*	171 ft	52.0 m



213 ft (65.0 m) Boom 24 HC 1000/24 HC 1250		
No. of Sections	Tower Height	
1	21 ft	6.4 m
2	40 ft	12.1 m
3	58 ft	17.8 m
4	77 ft	23.5 m
5	96 ft	29.2 m
6	115 ft	34.9 m
7	133 ft	40.6 m
8*	152 ft	46.3 m
9*	171 ft	52.0 m ¹

98 ft (30.0 m) Boom 24 HC 1000/24 HC 1250		
No. of Sections	Tower Height	
1	21 ft	6.4 m
2	40 ft	12.1 m
3	58 ft	17.8 m
4	77 ft	23.5 m
5	96 ft	29.2 m
6	115 ft	34.9 m
7	133 ft	40.6 m
8	152 ft	46.3 m
9	171 ft	52.0 m
10	189 ft	57.7 m
11*	208 ft	63.4 m ^{2,4}
12*	227 ft	69.1 m ³
13*	245 ft	74.8 m ³

115 ft (35.0 m) and 131 ft (40.0 m) Boom 24 HC 1000/24 HC 1250		
No. of Sections	Tower Height	
1	21 ft	6.4 m
2	40 ft	12.1 m
3	58 ft	17.8 m
4	77 ft	23.5 m
5	96 ft	29.2 m
6	115 ft	34.9 m
7	133 ft	40.6 m
8	152 ft	46.3 m
9	171 ft	52.0 m
10	189 ft	57.7 m
11*	208 ft	63.4 m ^{2,4}
12*	227 ft	69.1 m ³
—	—	—

148 ft (45.0 m) and 164 ft (50.0 m) Boom 24 HC 1000/24 HC 1250		
No. of Sections	Tower Height	
1	21 ft	6.4 m
2	40 ft	12.1 m
3	58 ft	17.8 m
4	77 ft	23.5 m
5	96 ft	29.2 m
6	115 ft	34.9 m
7	133 ft	40.6 m
8	152 ft	46.3 m
9	171 ft	52.0 m
10*	189 ft	57.7 m
11*	208 ft	63.4 m ²
—	—	—
—	—	—

180 ft (55.0 m) Boom 24 HC 1000/24 HC 1250		
No. of Sections	Tower Height	
1	21 ft	6.4 m
2	40 ft	12.1 m
3	58 ft	17.8 m
4	77 ft	23.5 m
5	96 ft	29.2 m
6	115 ft	34.9 m
7	133 ft	40.6 m
8	152 ft	46.3 m
9*	171 ft	52.0 m
10*	189 ft	57.7 m 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.

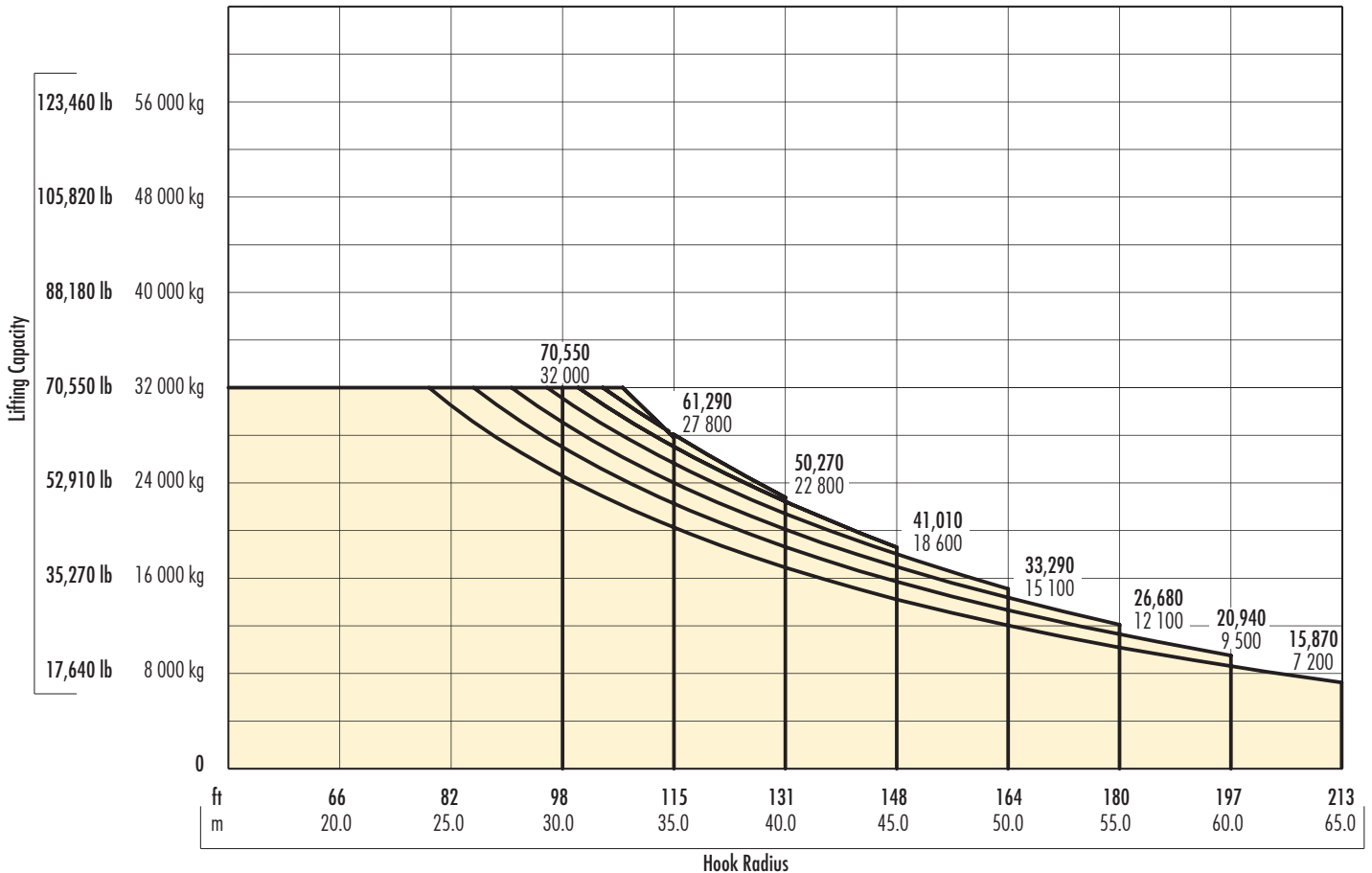
³ Three (3) 24 HC 1250 base towers.

⁴ No 24 HC 1250 base towers required for (35.0 m) Boom and two (2) 24 HC 1250 base towers required for (40.0 m) Boom.

Radius and Capacities

1-part 32t operation

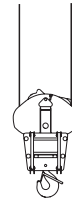
Boom Assembly	Maximum Capacity - Radius	Min. Hook Radius	ft m	66 20.0	82 25.0	98 30.0	115 35.0	131 40.0	148 45.0	164 50.0	180 55.0	197 60.0	213 65.0
213 ft 65.0 m	70,550 lb - 79 ft 32 000 kg - 24.0 m	16 ft 4.8 m	lb kg	70,550 32 000	67,330 30 540	54,230 24 600	44,620 20 240	37,240 16 890	31,350 14 220	26,520 12 030	22,470 10 190	19,000 8 620	15,870 7 200
197 ft 60.0 m	70,550 lb - 85 ft 32 000 kg - 26.0 m	15 ft 4.7 m	lb kg	70,550 32 000	70,550 32 000	59,550 27 010	49,100 22 270	41,050 18 620	34,610 15 700	29,340 13 310	24,890 11 290	20,940 9 500	
180 ft 55.0 m	70,550 lb - 91 ft 32 000 kg - 27.7 m	14 ft 4.4 m	lb kg	70,550 32 000	70,550 32 000	64,150 29 100	52,930 24 010	44,290 20 090	37,370 16 950	31,660 14 360	26,680 12 100		
164 ft 50.0 m	70,550 lb - 96 ft 32 000 kg - 29.3 m	14 ft 4.2 m	lb kg	70,550 32 000	70,550 32 000	68,560 31 100	56,500 25 630	47,180 21 400	39,710 18 010	33,290 15 100			
148 ft 45.0 m	70,550 lb - 101 ft 32 000 kg - 30.7 m	13 ft 4.0 m	lb kg	70,550 32 000	70,550 32 000	70,550 32 000	59,570 27 020	49,450 22 430	41,010 18 600				
131 ft 40.0 m	70,550 lb - 104 ft 32 000 kg - 31.8 m	13 ft 3.9 m	lb kg	70,550 32 000	70,550 32 000	70,550 32 000	61,840 28 050	50,270 22 800					
115 ft 35.0 m	70,550 lb - 107 ft 32 000 kg - 32.7 m	12 ft 3.8 m	lb kg	70,550 32 000	70,550 32 000	70,550 32 000	61,290 27 800						
98 ft 30.0 m	70,550 lb - 98 ft 32 000 kg - 30.0 m	12 ft 3.6 m	lb kg	70,550 32 000	70,550 32 000	70,550 32 000							



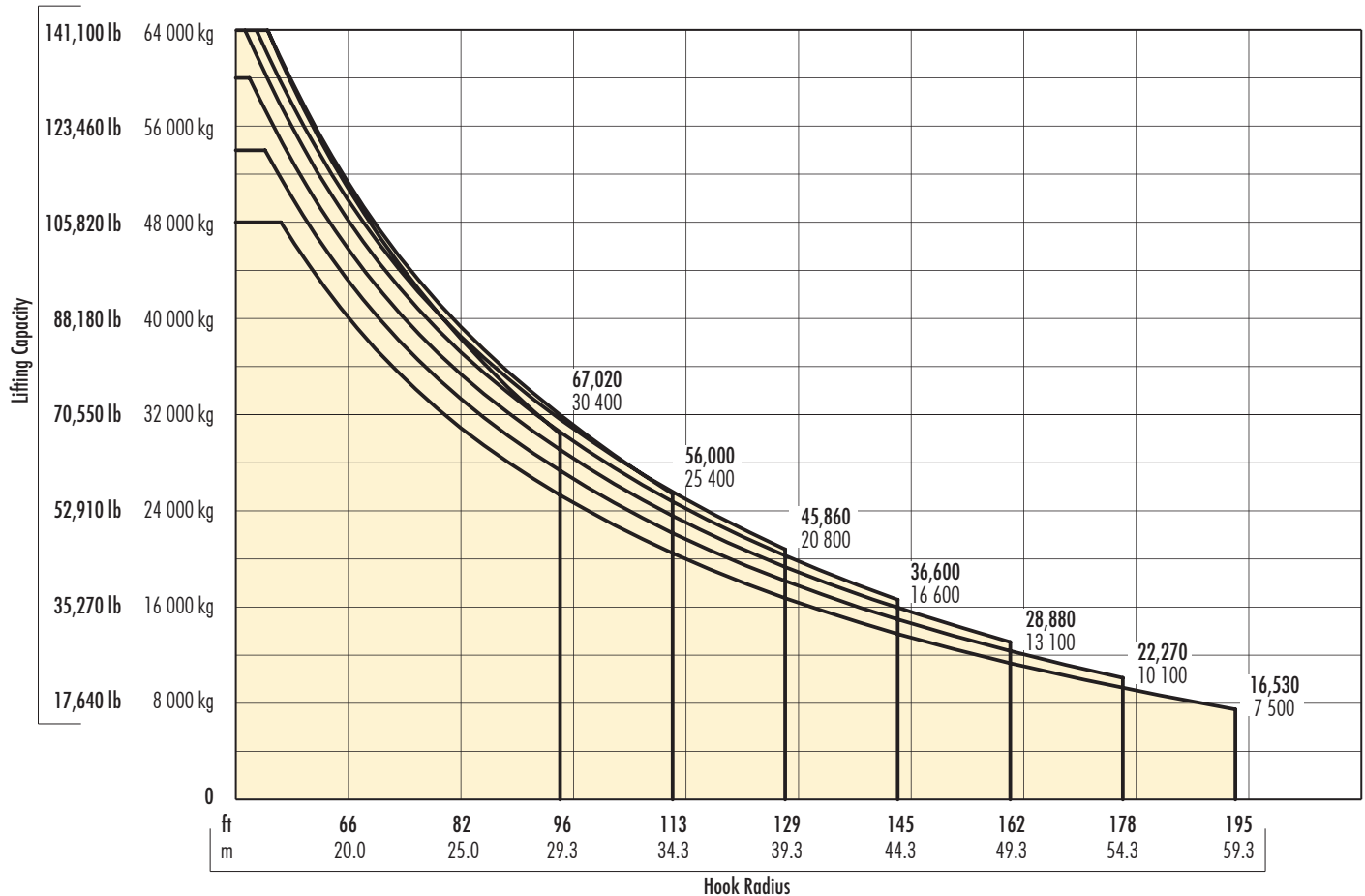
Radius and Capacities

2-part 64t operation

Boom Assembly	Maximum Capacity - Radius	Min. Hook Radius	ft	66	82	96	113	129	145	162	178	195
			m	20.0	25.0	29.3	34.3	39.3	44.3	49.3	54.3	59.3
197 ft 60.0 m	105,820 lb - 56 ft 48 000 kg - 17.0 m	14 ft 4.1 m	lb kg	88,360 40 080	68,100 30 890	54,170 24 570	43,870 19 900	35,940 16 300	29,560 13 410	24,320 11 030	19,910 9 030	16,530 7 500
180 ft 55.0 m	119,050 lb - 53 ft 54 000 kg - 16.3 m	13 ft 3.9 m	lb kg	95,080 43 130	73,410 33 300	58,490 26 530	47,490 21 540	38,980 17 680	32,140 14 580	26,500 12 020	22,270 10 100	
164 ft 50.0 m	132,280 lb - 51 ft 60 000 kg - 15.6 m	12 ft 3.8 m	lb kg	100,860 45 750	77,980 35 370	62,190 28 210	50,550 22 930	41,510 18 830	34,240 15 530	28,880 13 100		
148 ft 45.0 m	141,100 lb - 50 ft 64 000 kg - 15.4 m	11 ft 3.5 m	lb kg	106,110 48 130	82,010 37 200	65,370 29 650	53,090 24 080	43,500 19 730	36,600 16 600			
131 ft 40.0 m	141,100 lb - 52 ft 64 000 kg - 15.9 m	11 ft 3.4 m	lb kg	109,830 49 820	84,880 38 500	67,640 30 680	54,830 24 870	45,860 20 800				
115 ft 35.0 m	141,100 lb - 54 ft 64 000 kg - 16.4 m	10 ft 3.2 m	lb kg	112,990 51 250	86,620 39 290	68,300 30 980	56,000 25 400					
98 ft 30.0 m	141,100 lb - 54 ft 64 000 kg - 16.4 m	9 ft 3.0 m	lb kg	111,930 50 770	84,420 38 290	67,020 30 400						

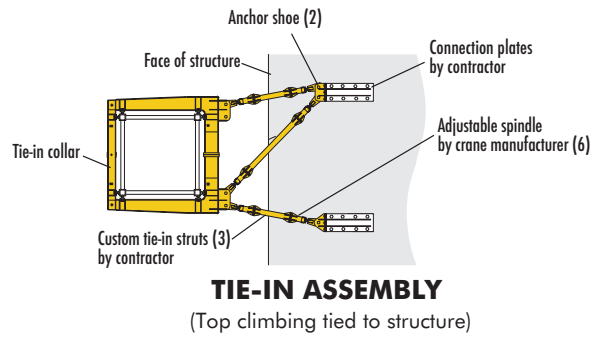
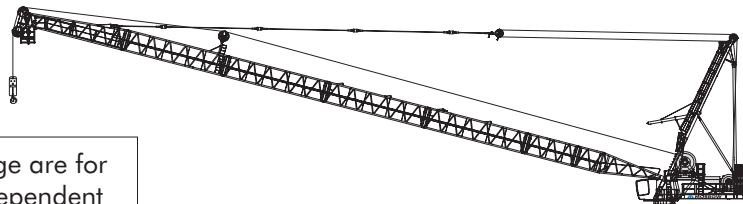


NOTE: The 213 ft (65.0 m) boom is NOT available when using 2-part 64t operation. Contact MORROW for information.



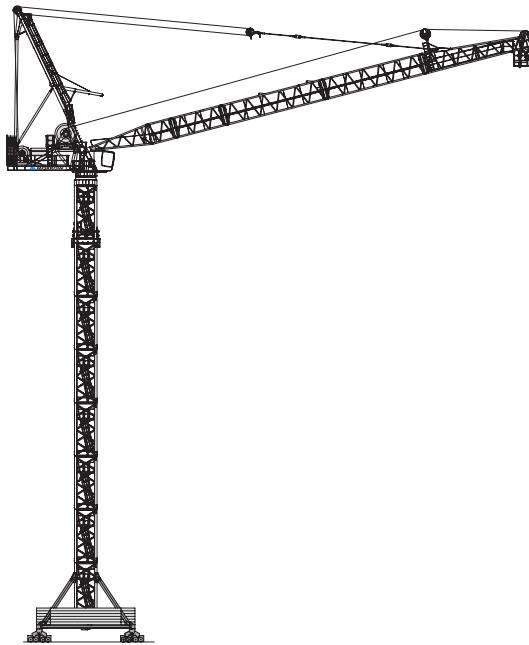
Configurations

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.



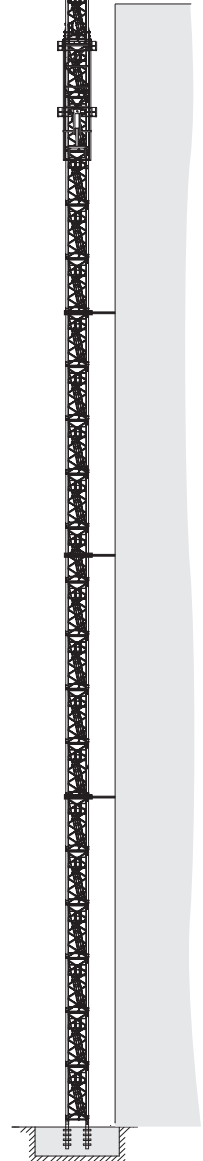
BOTTOM CLIMBING

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.

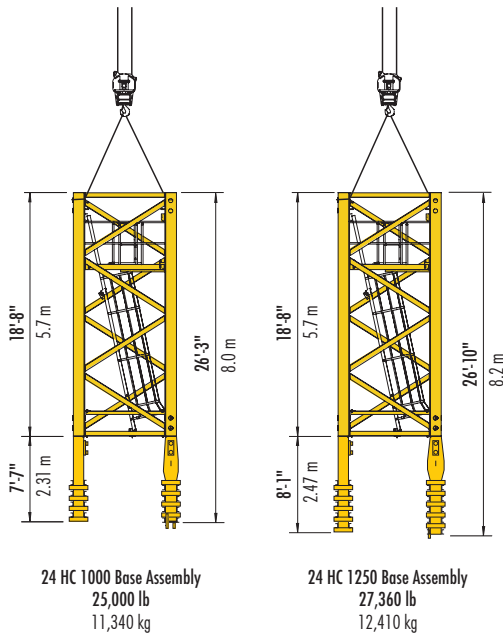


TOP CLIMBING

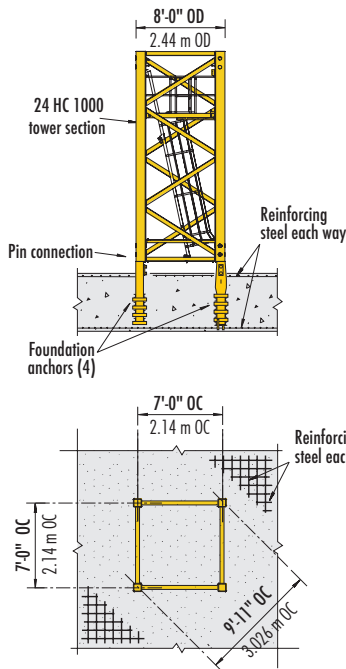
Freestanding or tied to structure.

Foundation Details

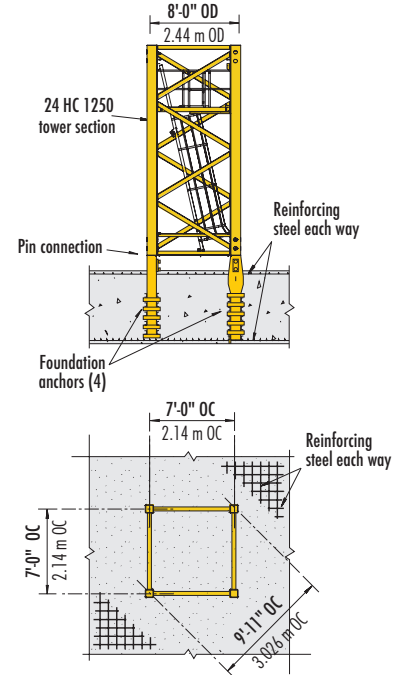
(on concrete footing and anchors)



BASE ASSEMBLY TOWER SECTION WITH ANCHORS
(Including connecting material)



24 HC 1000 BASE ASSEMBLY



24 HC 1250 BASE ASSEMBLY

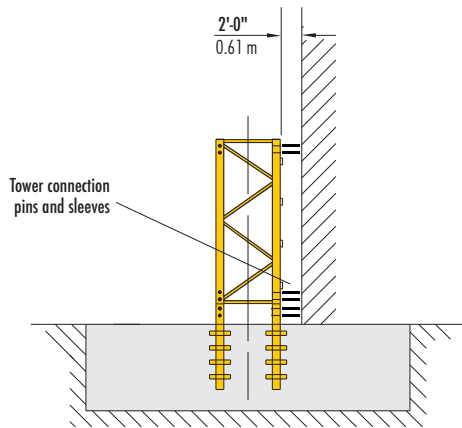
Counterweights

(Steel)

Boom Assembly	213' - 115' (65.0 m - 35.0 m)	98' (30.0 m)
Counterweights	18 x A + 1 x B	17 x A + 1 x B
Total weight	170,860 lb	161,820 lb
	77 500 kg	73 400 kg

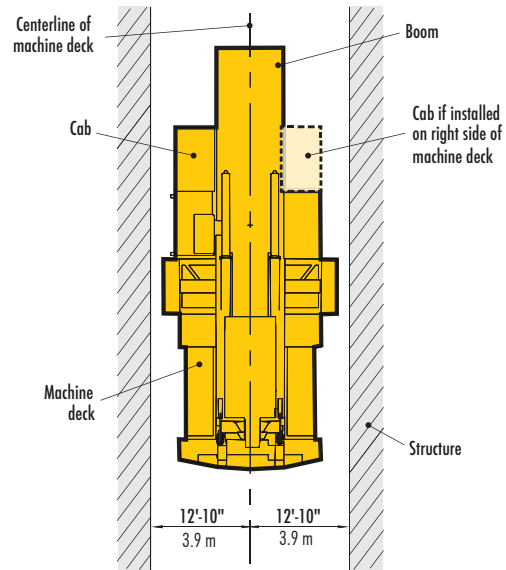
NOTE: Counterweight figures displayed in the chart above are for crane with hoist unit WiW 330 WZ 402. If alternate hoist unit is installed, refer to the 710 HC-L 32/64 Instruction Manual or contact MORROW for information.

Clearance Requirements



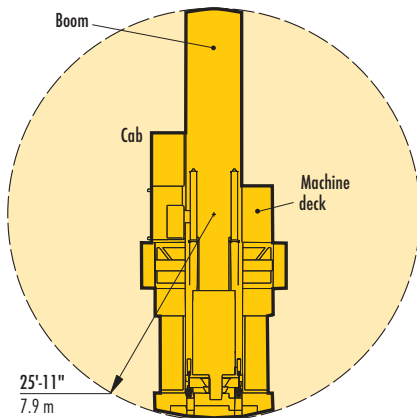
TOWER PIN REMOVAL

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



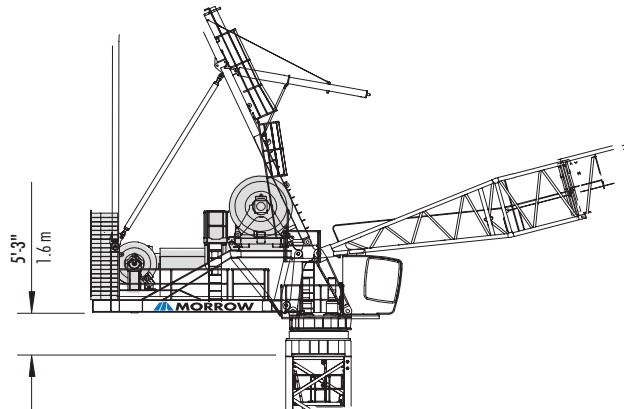
TOP CLIMBING ADJACENT TO STRUCTURE

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 							

NOTE: Maximum hook height for 1-part operation is 3,500 ft (1067 m) and 1,750 ft (534 m) 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.

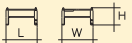
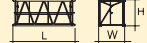
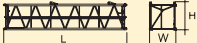
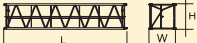
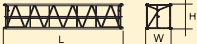
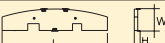
Service size: 500 Amperes

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	Description	Dimensions L x W x H	Weight
Slewing ring support 	7'-7" x 7'-7" x 4'-2" 2.32 m x 2.32 m x 1.26 m	10,160 lb 4 610 kg	Butt section ① 611 	30'-11" x 7'-5" x 7'-2" 9.43 m x 2.27 m x 2.19 m	8,445 lb 3 830 kg
Pivot 	9'-3" x 7'-6" x 7'-10" 2.81 m x 2.28 m x 2.39 m	8,530 lb 3 870 kg	Boom section ② 612 	17'-8" x 7'-5" x 7'-2" 5.39 m x 2.27 m x 2.19 m	3,110 lb 1 410 kg
Slewing platform plus pivot 	15'-6" x 8'-6" x 7'-11" 4.73 m x 2.58 m x 2.41 m	39,570 lb 17 950 kg	Boom section ③ 621 	34'-8" x 7'-5" x 7'-10" 10.57 m x 2.27 m x 2.4 m	6,570 lb 2 980 kg
Slewing platform 	10'-11" x 7'-7" x 8'-6" 3.33 m x 2.32 m x 2.58 m	31,370 lb 14 230 kg	Boom section ④ 622 	34'-8" x 7'-5" x 7'-2" 10.57 m x 2.27 m x 2.19 m	5,135 lb 2 330 kg
Machine deck w/ luffing ¹ gear 215 hp (160 kW) 	23'-10" x 7'-7" x 8'-5" 7.27 m x 2.32 m x 2.57 m	36,550 lb 16 580 kg	Boom section ⑤ 631 	34'-8" x 7'-5" x 7'-2" 10.57 m x 2.27 m x 2.19 m	5,270 lb 2 390 kg
Machine deck w/o luffing gear 	23'-10" x 7'-7" x 7'-6" 7.27 m x 2.32 m x 2.29 m	24,100 lb 10 930 kg	Tip section ⑥ 641 	37'-1" x 9'-1" x 8'-4" 11 m x 2.77 m x 2.53 m	9,480 lb 4 300 kg
Hoist gear VFD ¹ 2x 147 hp (110 kW) 	15'-7" x 7'-6" x 8'-5" 4.74 m x 2.29 m x 2.57 m	26,810 lb 12 160 kg	Top climbing frame 	44'-5" x 8'-1" x 6'-10" 13.54 m x 2.47 m x 2.09 m	49,935 lb 22 650 kg
Hoist gear platform w/o hoist gear 	15'-7" x 7'-6" x 4'-6" 4.74 m x 2.29 m x 1.38 m	6,420 lb 2 910 kg	Top climbing hydraulic equipment 	14'-9" x 4'-13" x 6'-7" 4.5 m x 1.3 m x 2 m	8,160 lb 3 700 kg
Operator cab with access platform 	13'-11" x 5'-1" x 8'-5" 4.25 m x 1.55 m x 2.57 m	2,745 lb 1 245 kg	Boom assembly complete ³ 213-ft (65.0 m) boom ①②③④⑤⑥	220'-2" x 9'-1" x 9'-0" 67.1 m x 2.77 m x 2.74 m	50,710 lb 23 000 kg
Platforms (2) attached to deck 	18'-1" x 3'-11" x 5'-3" 5.5 m x 1.2 m x 1.59 m	925 lb 420 kg	Boom assembly complete ³ 197-ft (60.0 m) boom ①③④⑤⑥	203'-9" x 9'-1" x 9'-0" 62.1 m x 2.77 m x 2.74 m	47,400 lb 21 500 kg
Gantry 	39'-8" x 7'-5" x 7'-10" 12.1 m x 2.27 m x 2.4 m	22,270 lb 10 100 kg	Boom assembly complete ³ 180-ft (55.0 m) boom ①②③④⑥	187'-4" x 9'-1" x 9'-0" 57.1 m x 2.77 m x 2.74 m	44,090 lb 20 000 kg
Hook block 1-part operation 	5'-5" x 1'-4" x 1'-8" 1.65 m x 0.40 m x 0.50 m	1,760 lb 800 kg	Boom assembly complete ³ 164-ft (50.0 m) boom ①③④⑥	170'-11" x 9'-1" x 9'-0" 52.1 m x 2.77 m x 2.74 m	40,790 lb 18 500 kg
Hook block 2-part operation 	9'-10" x 5'-1" x 2'-10" 3 m x 1.56 m x 0.87 m	5,730 lb 2 600 kg	Boom assembly complete ³ 148-ft (45.0 m) boom ①②③④⑥	154'-6" x 9'-1" x 9'-0" 47.1 m x 2.77 m x 2.74 m	37,480 lb 17 000 kg
Pulley block 	4'-9" x 4'-8" x 3'-9" 1.45 m x 1.43 m x 1.14 m	1,675 lb 760 kg	Boom assembly complete ³ 131-ft (40.0 m) boom ①③④⑥	138'-1" x 9'-1" x 9'-0" 42.1 m x 2.77 m x 2.74 m	35,270 lb 16 000 kg
Tower section 24 HC 1250 	20'-7" x 8'-0" x 8'-0" 6.28 m x 2.44 m x 2.44 m	19,840 lb 9 000 kg	Boom assembly complete ³ 115-ft (35.0 m) boom ①②③⑥	121'-9" x 9'-1" x 9'-0" 37.1 m x 2.77 m x 2.74 m	31,970 lb 14 500 kg
Tower section 24 HC 1000 	20'-7" x 8'-0" x 8'-0" 6.28 m x 2.43 m x 2.43 m	18,960 lb 8 600 kg	Boom assembly complete ³ 98-ft (30.0 m) boom ①③⑥	105'-4" x 9'-1" x 9'-0" 32.1 m x 2.77 m x 2.74 m	28,660 lb 13 000 kg
Top climbing section 	20'-7" x 8'-0" x 8'-7" 6.28 m x 2.43 m x 2.61 m	30,400 lb 13 790 kg	Counterweight (18x) Steel (ea.) - A block 	15'-1" x 3'-2" x 10" 4.6 m x 0.97 m x 0.26 m	8,970 lb 4 070 kg
Climbing girders (2x) for climbing section 	10'-0" x 6'-0" x 4'-8" 3.04 m x 1.83 m x 1.41 m	8,820 lb 4 000 kg	Counterweight (1x) Steel - B block 	15'-1" x 3'-2" x 10" 4.6 m x 0.97 m x 0.26 m	8,995 lb 4 080 kg
Foundation anchor (4x) ² 24 HC 1250 each 	8'-1" x 1'-8" x 1'-8" 2.47 m x 0.5 m x 0.5 m	1,880 lb 852 kg	Tie-in collar 	14'-5" x 2'-0" x 15'-9" 4.4 m x 0.6 m x 4.8 m	13,160 lb 5 970 kg

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 lb per foot. Luffing rope: 2.4 lb per foot.

² Anchor for 24 HC 1000 tower: 7' - 7" x 1' - 8" x 1' - 8" (2.31 m x 0.5 m x 0.5 m) and 1,510 lb (685 kg) 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.

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