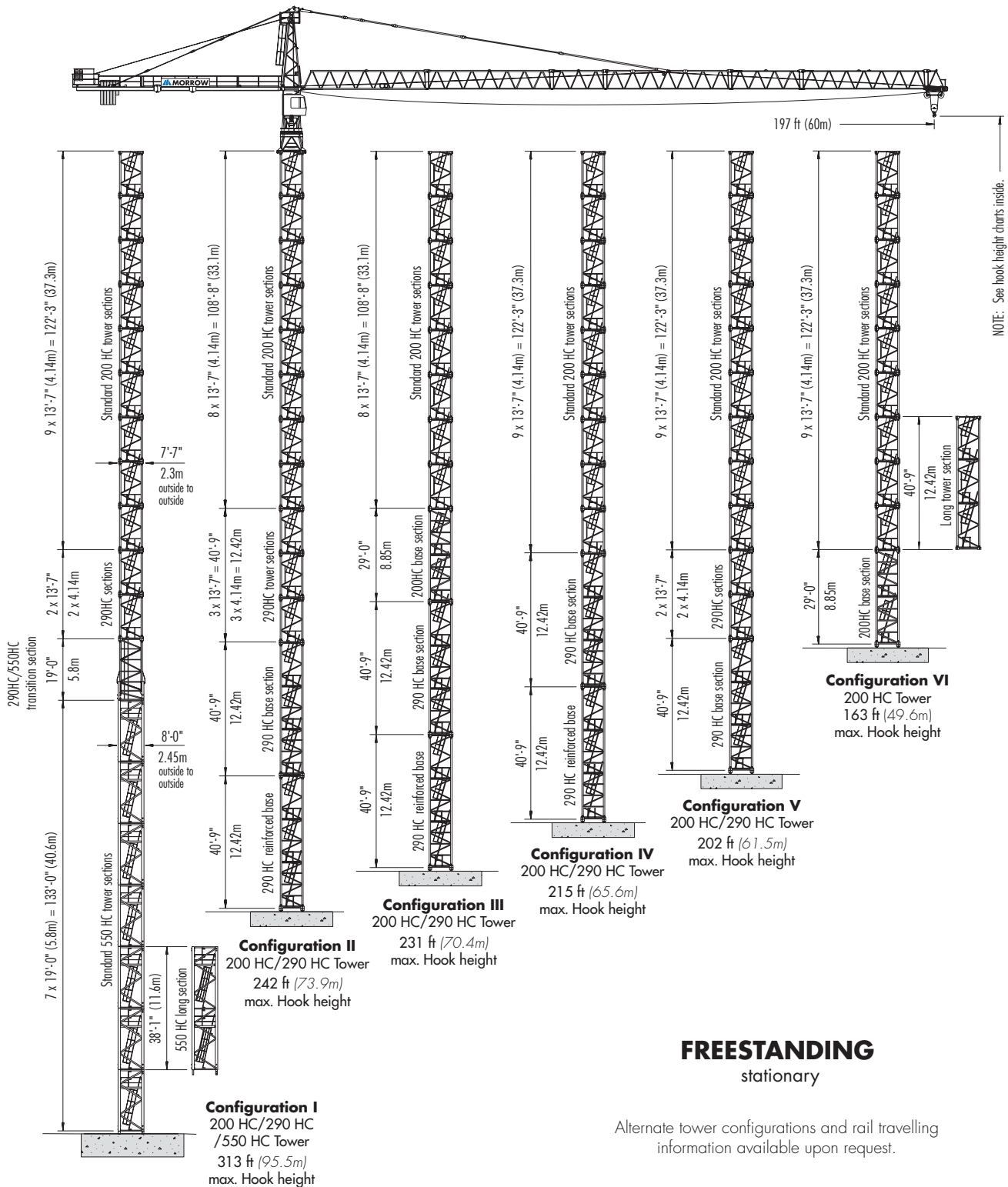


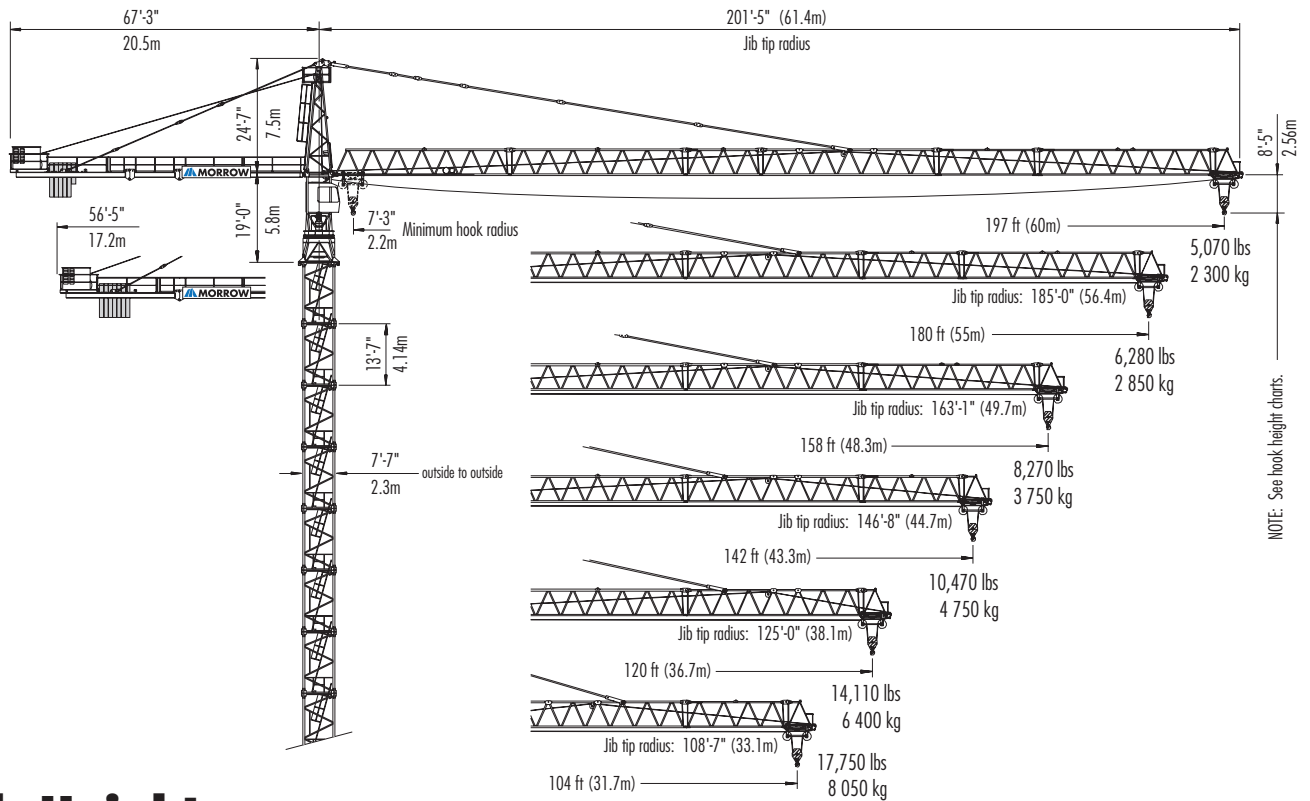
200 HC

10t

LIEBHERR Hammerhead Tower Crane



LIEBHERR 200 HC



Hook Heights

Configuration I					
550 HC/290 HC /200 HC on 19'-0" (5.8m) standard tower section					
		static concrete footing	static concrete footing	rail-travelling undercarriage	rail-travelling undercarriage
No. of Tower Elements	Tower Element Type	feet	meters	feet	meters
1	550HC STS	31	9.3	58	17.5
2	550HC STS	50	15.1	77	23.3
3	550HC STS	69	20.9	96	29.1
4	550HC STS	88	26.7	115	34.9
5	550HC STS	107	32.5	134	40.7
6	550HC STS	126	38.3	153	46.5
7	550HC STS	145	44.1	172	52.3
8	Transition	164	49.9	191	58.1
9	290HC STS	177	54.1	204	62.3
10	290HC STS	191	58.2	218	66.4
11	200HC STS	205	62.4	232	70.6
12	200HC STS	218	66.5	245	74.7
13	200HC STS	232	70.6	259	78.8
14	200HC STS	245	74.8	272	83
15	200HC STS	259	78.9	286	87.1
16	200HC STS	273	83.1	299	91.3
17	200HC STS	286	87.2	313	95.4
18	200HC STS	300	91.3	327	99.5
19 ¹	200HC STS	313	95.5	340	103.7

Jib Layout

NOTE: The 197 ft (60m) jib requires installation of the 67'-3" (20.5m) counterjib. All jibs 180 ft (55m) or less require the 56'-5" (17.2m) counterjib.

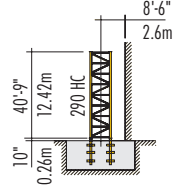
Additional information regarding alternate tower configurations, counterweights, central ballast, foundation details, dimensions, reaction forces and slab opening requirements is available on request.

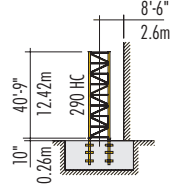
Please consult Operation Manual before erecting, operating, climbing, servicing or dismantling crane.

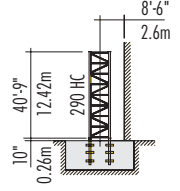
¹ Remove top climbing unit prior to operating crane at specified hook height.

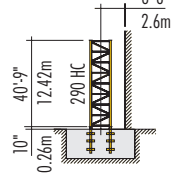
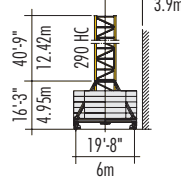
² Lower top climbing unit to base of crane prior to operating crane at specified hook height.

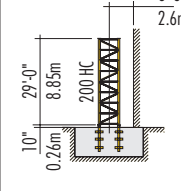
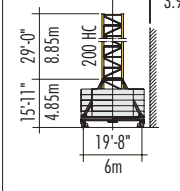
Hook Heights

Configuration II			
290 HC/200 HC on 40'-9" (12.42m) reinforced base section			
No. of Tower Elements	Tower Element Type	static concrete footing	
		feet	meters
1	290HC RBS-40	52	15.9
2	290HC BS-40	93	28.4
3	290HC STS	107	32.5
4	290HC STS	120	36.6
5	290HC STS	134	40.7
6	200HC STS	147	44.9
7	200HC STS	161	49
8	200HC STS	175	53.2
9	200HC STS	188	57.4
10	200HC STS	202	61.5
11 ²	200HC STS	215	65.6
12 ²	200HC STS	229	69.7
13 ²	200HC STS	243	73.9

Configuration III			
290 HC/200 HC on 40'-9" (12.42m) reinforced base section			
No. of Tower Elements	Tower Element Type	static concrete footing	
		feet	meters
1	290HC RBS-40	52	15.9
2	290HC BS-40	93	28.4
3	200HC BS-29	122	37.3
4	200HC STS	136	41.4
5	200HC STS	149	45.5
6	200HC STS	163	49.7
7	200HC STS	177	53.8
8	200HC STS	190	58
9	200HC STS	204	62.1
10 ²	200HC STS	217	66.2
11 ²	200HC STS	231	70.4

Configuration IV			
290 HC/200 HC on 40'-9" (12.42m) reinforced base section			
No. of Tower Elements	Tower Element Type	static concrete footing	
		feet	meters
1	290HC RBS-40	52	15.9
2	290HC BS-40	93	28.4
3	200HC STS	107	32.5
4	200HC STS	120	36.6
5	200HC STS	134	40.7
6	200HC STS	147	44.9
7	200HC STS	161	49
8	200HC STS	175	53.2
9	200HC STS	188	57.4
10 ²	200HC STS	202	61.5
11 ²	200HC STS	215	65.6

Configuration V					
290 HC/200 HC on 40'-9" (12.42m) standard base section					
No. of Tower Elements	Tower Element Type	static concrete footing		rail-travelling undercarriage	
		feet	meters	feet	meters
1	290HC BS-40	52	15.9	67	20.5
2	290HC STS	66	20.1	81	24.7
3	290HC STS	79	24.2	95	28.8
4	200HC STS	93	28.3	108	32.9
5	200HC STS	107	32.5	122	37.1
6	200HC STS	120	36.6	135	41.2
7	200HC STS	134	40.8	149	45.4
8	200HC STS	147	44.9	162	49.5
9	200HC STS	161	49.0	176	53.6
10	200HC STS	175	53.2	190	57.8
11	200HC STS	188	57.3	203	61.9
12 ²	200HC STS	206	61.5	217	66.1

Configuration VI					
200 HC on 29'-0" (8.85m) standard base section					
No. of Tower Elements	Tower Element Type	static concrete footing		rail-travelling undercarriage	
		feet	meters	feet	meters
1	200HC BS-29	40	12.3	55	16.9
2	200HC STS	54	16.5	69	21.1
3	200HC STS	68	20.6	83	25.2
4	200HC STS	81	24.8	97	29.4
5	200HC STS	95	28.9	110	33.5
6	200HC STS	108	33	123	37.6
7	200HC STS	122	37.2	137	41.8
8	200HC STS	136	41.3	151	45.9
9	200HC STS	149	45.5	164	50.1
10 ²	200HC STS	163	49.6	178	54.2

¹ Remove top climbing unit prior to operating crane at indicated hook height(s).

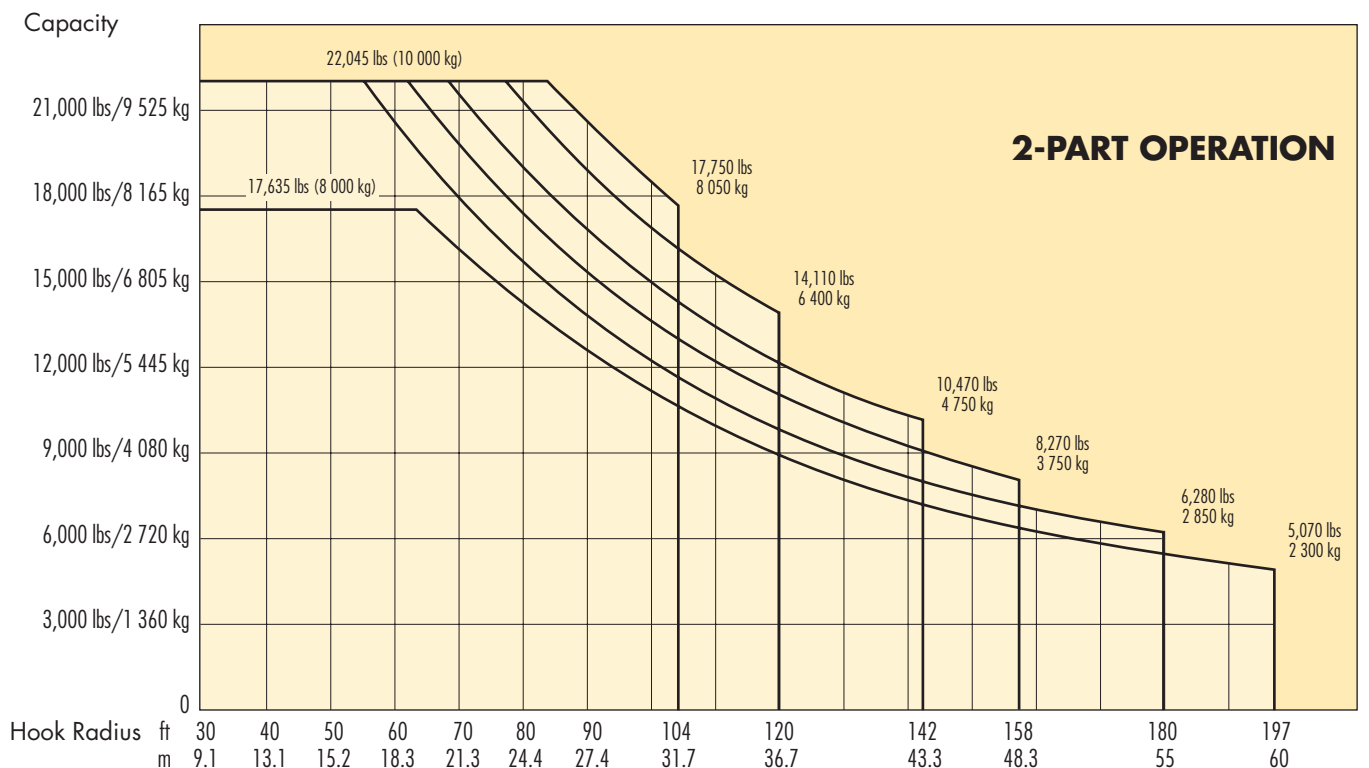
² Lower top climbing unit to base of crane prior to operating crane at indicated hook height(s).

NOTE: Alternate tower combinations possible. Contact Morrow for additional information.

Radius and Capacities

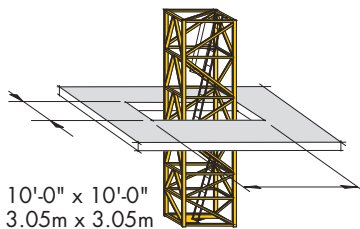
Hook Radius	Maximum Capacity — Radius	ft	60	70	80	90	98	104	110	120	130	142	150	158	164	170	180	187	197
Radius		m	18.3	21.3	24.4	27.4	30	31.7	33.5	36.7	39.6	43.3	45.7	48.3	50	51.8	55	57	60
197 ft 60m	17,635 lbs — 63.3 ft 8 000 kg — 19.3m	lbs kg	17,635 8 000	16,525 7 495	14,795 6 710	13,120 5 950	11,355 5 150	10,715 4 860	10,140 4 600	9,125 4 140	8,445 3 830	7,560 3 430	7,130 3 235	6,660 3 020	6,370 2 890	6,140 2 785	5,665 2 570	5,425 2 460	5,070 2 300
180 ft 55m	22,045 lbs — 55.1 ft 10 000 kg — 16.8m	lbs kg	20,770 9 420	18,000 8 170	15,790 7 160	14,180 6 430	12,500 5 670	11,800 5 350	11,090 5 030	10,050 4 560	9,190 4 170	8,360 3 790	7,810 3 540	7,360 3 340	7,055 3 200	6,790 3 080	6,280 2 850		
158 ft 48.3m	22,045 lbs — 61.7 ft 10 000 kg — 18.8m	lbs kg	22,045 10 000	20,000 9 070	17,570 7 970	15,660 7 100	13,930 6 320	13,140 5 960	12,300 5 580	11,250 5 100	10,250 4 650	9,370 4 250	8,750 3 970	8,270 3 750					
142 ft 43.3m	22,045 lbs — 68.6 ft 10 000 kg — 20.9m	lbs kg	22,045 10 000	21,960 9 960	19,450 8 820	17,330 7 860	15,475 7 020	14,640 6 640	13,650 6 190	12,350 5 600	11,420 5 180	10,470 4 750							
120 ft 36.7m	22,045 lbs — 77.1 ft 10 000 kg — 23.5m	lbs kg	22,045 10 000	22,045 10 000	21,630 9 810	19,400 8 800	17,370 7 880	16,430 7 450	15,280 6 930	14,110 6 400									
104 ft 31.7m	22,045 lbs — 83.7 ft 10 000 kg — 25.5m	lbs kg	22,045 10 000	22,045 10 000	22,045 10 000	20,930 9 490	18,760 8 510	17,750 8 050											

2-PART OPERATION

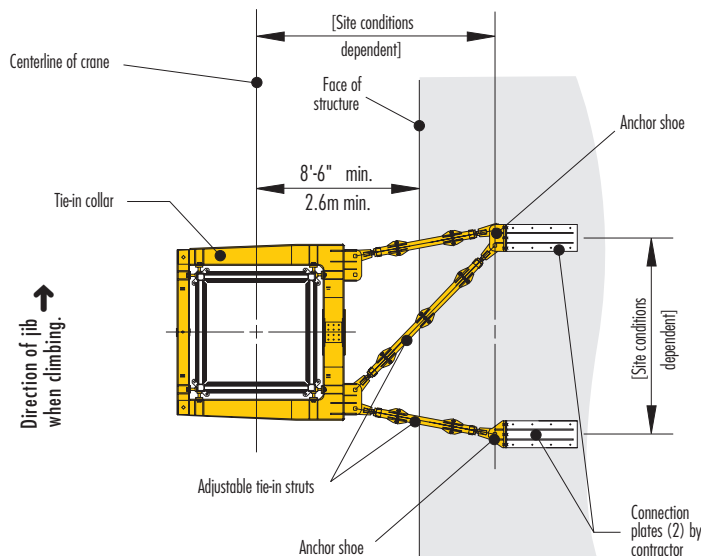


Tie-in Details

NOTE: Recommended slab opening for erection and dismantlement. For other factors including deflection, contact Morrow engineering.



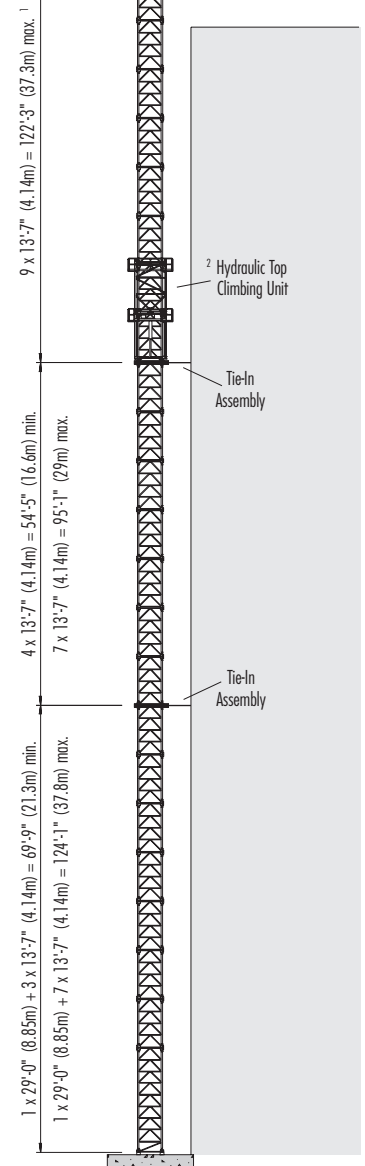
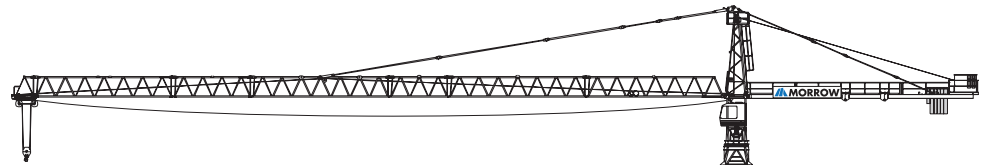
SLAB OPENING
Recommended



TIE-IN ASSEMBLY
plan view

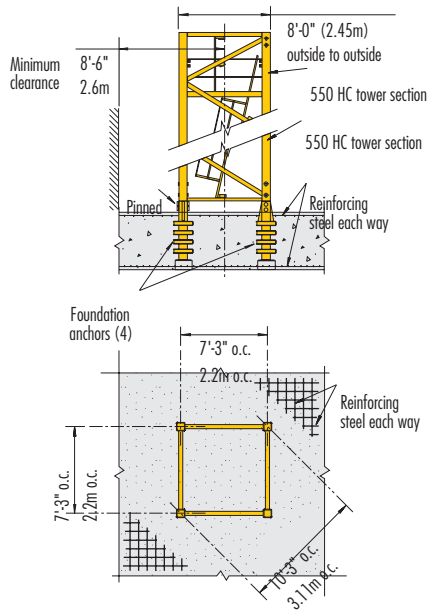
NOTE: The tie-in assembly shown is an example of a typical installation using 200 HC tower. Please note, however, that factors determining the installation of tie-in assemblies may vary due to job site requirements.

Verify all dimensions. Contact Morrow for additional information regarding dimensions, alternate tower configurations, reactions forces, tie-in installation and slab opening requirements. Consult Operation Manual before erecting, operating, servicing or dismantling crane.

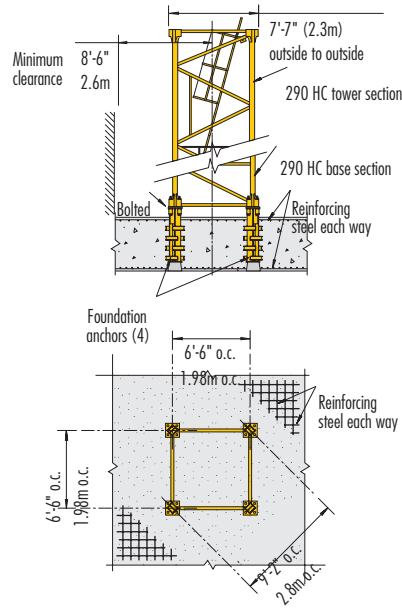


TOP CLIMBING
with 200 HC Tower
tied to structure

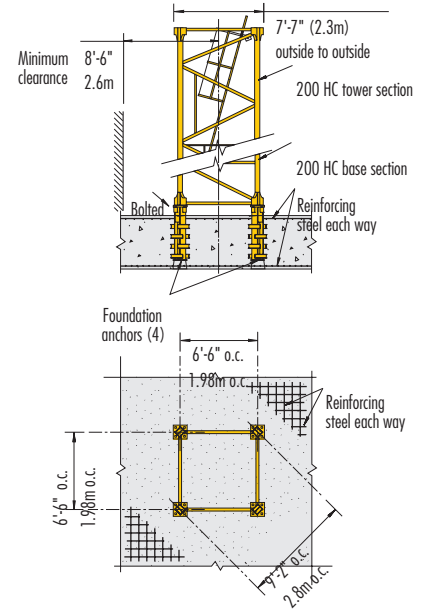
Foundation Details on concrete footing



with 550 HC Tower



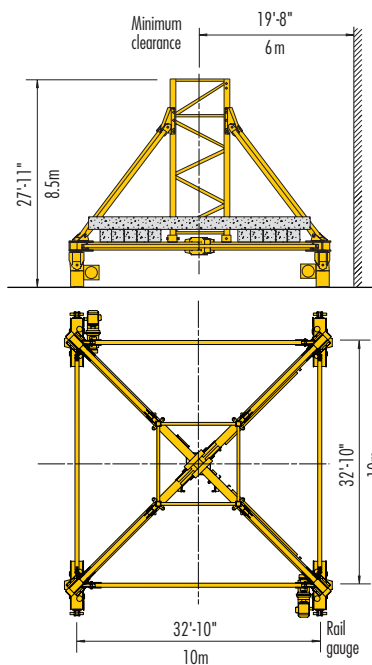
with 290 HC Tower



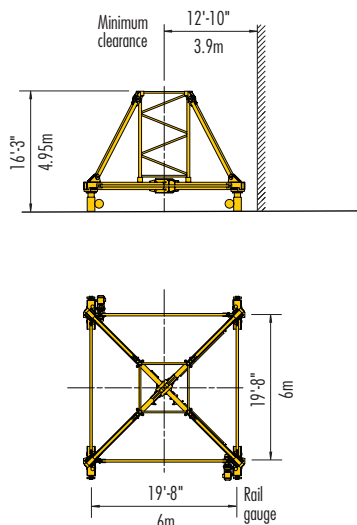
with 200 HC Tower

Undercarriage Details

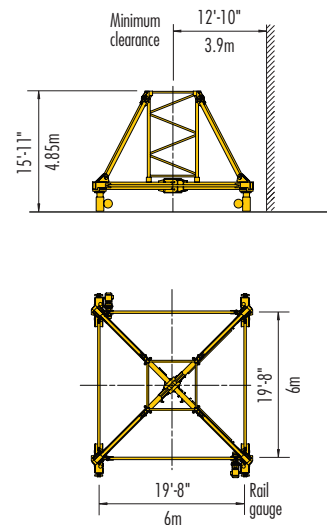
NOTE: For information regarding rail-travelling, static undercarriages and centralballast configurations, refer to the 200 HC Operation Manual.



550 HC
rail-travelling undercarriage



290 HC
rail-travelling undercarriage



200 HC
Rail-travelling undercarriage

Hoist Speed and Capacity

Hoist Unit	WiW 281 RX 057	2-Part Line			
108 hp (80 kW) AC hoist unit 3-speed gearbox Electromagnetic gear shifting Eddy current brake	2L142	Gear	Capacity	Hook Speed	Capacity Hook Speed
		1	up to 22,045 lbs	@ 108 fpm	up to 10 000 kg @ 33 m/min
		2	up to 9,920 lbs	@ 292 fpm	up to 4 500 kg @ 89 m/min
		3	up to 3,970 lbs	@ 587 fpm	up to 1 800 kg @ 179 m/min

IMPORTANT: Capacities and line speeds indicated will vary depending on the amount of hoist wire rope installed. This crane model may be equipped with a hoist unit other than that specified in the data shown above. To verify, check serial number and refer to 200 HC Operation Manual for additional information.

Motor Information

Drive Unit	Horsepower	Kilowatts	Speed	
Trolley	6.4 hp	4.8 kW	40 - 131 - 262 fpm	12 - 40 - 80 m/min
Swing (fluid coupling)	2 x 6.7 hp	2 x 5 kW	0.8 rpm	
Travelling	Information available upon request			

Counterweights

Counterjib type	67 ft (20.5m)	56 ft (17.2m)				
Jib length	197 ft (60m)	180 ft (55m)	158 ft (48.3m)	142 ft (43.3m)	120 ft (36.7m)	104 ft (31.7m)
No. of blocks	5A + 1B	7A	6A	5A + 1B	5A	4A
Weight in lbs	23,920 lbs	29,790 lbs	25,530 lbs	23,920 lbs	21,270 lbs	17,020 lbs
Weight in kg	10 850 kg	13 510 kg	11 580 kg	10 850 kg	9 650 kg	7 720 kg

NOTE: Weight of the A Block is 4,255 lbs (1 930 kg); the B Block is 2,645 lbs (1 200 kg). Counterweights must be installed from rear to front, i.e. towards the tower. It is recommended that the weight of each counterweight be verified before installation. Counterweight figures displayed in the chart above are for crane with hoist unit WiW 281 RX 057. If another hoist unit is installed, refer to the Liebherr 200 HC Operation Manual or contact Morrow Equipment for additional information.

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.

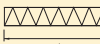
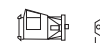
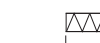
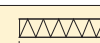
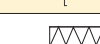
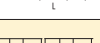
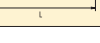
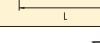
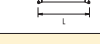
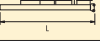
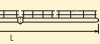
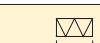
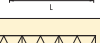
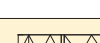
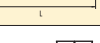
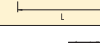
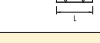
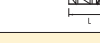
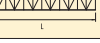
Service size: 200 Amperes

NOTES:

- For electric power provided by an electric utility, do not use open Delta transformers.
- For electric power provided by a generator, the minimum generator size required is 350 kW. A properly sized generator is critical to the safe operation of the crane.

Specifications subject to change without prior notice. For additional information, contact Morrow Equipment.

Component List

Description	Dimensions L x W x H	Weight	Description	Dimensions L x W x H	Weight
Tower Top	 25'-2" x 6'-0" x 5'-5" 7.67m x 1.83m x 1.65m	4,400 lbs 1 995 kg	Jib Section ① #611	 39'-6" x 6'-0" x 6'-5" 12.03m x 1.84m x 1.95m	4,870 lbs 2 210 kg
Slewing Assembly (Complete) ¹	 20'-2" x 9'-0" x 8'-6" 6.15m x 2.74m x 2.59m	17,600 lbs 7 985 kg	Jib Section ② #621	 39'-3" x 5'-4" x 6'-0" 11.97m x 1.63m x 1.84m	3,590 lbs 1 630 kg
Slewing Assembly Upper Part ²	 14'-0" x 9'-0" x 8'-2" 4.26m x 2.74m x 2.49m	10,800 lbs 4 900 kg	Jib Section ③ #633	 17'-8" x 5'-4" x 6'-2" 5.38m x 1.63m x 1.88m	1,150 lbs 520 kg
Slewing Assembly Lower Part ³	 6'-3" x 7'-7" x 7'-2" 1.9m x 2.3m x 2.18m	6,800 lbs 3 085 kg	Jib Section ④ #622	 39'-2" x 5'-4" x 6'-0" 11.94m x 1.63m x 1.84m	3,370 lbs 1 530 kg
Hoist Unit with Frame ⁴ 108 hp (80 kW)	 7'-11" x 15'-2" x 6'-7" 2.41m x 4.62m x 2.0m	11,860 lbs 5 380 kg	Jib Section ⑤ #631	 22'-10" x 5'-4" x 6'-0" 6.97m x 1.63m x 1.84m	1,600 lbs 725 kg
Counterjib Section #1 (Inner)	 27'-3" x 5'-8" x 4'-5" 8.31m x 1.73m x 1.35m	3,800 lbs 1 725 kg	Jib Section ⑥ #632	 39'-3" x 5'-4" x 6'-0" 11.97m x 1.63m x 1.84m	2,170 lbs 985 kg
Counterjib Section #2 (Intermediate)	 11'-5" x 5'-8" x 4'-5" 3.48m x 1.73m x 1.35m	2,120 lbs 960 kg	Jib Section ⑦ #641	 6'-11" x 6'-0" x 6'-1" 2.1m x 1.84m x 1.86m	620 lbs 280 kg
Counterjib Section #3 (Outer)	 25'-0" x 7'-10" x 5'-4" 7.62m x 2.4m x 1.62m	4,200 lbs 1 905 kg	Jib Assembly ⁷ 197 ft (60m)	①②③④⑤⑥⑦ 198'-9" x 6'-0" x 6'-5" 60.6m x 1.84m x 1.95m	20,290 lbs 9 205 kg
Counterjib A ⁵	 52'-0" x 7'-10" x 5'-4" 15.85m x 2.4m x 1.62m	9,040 lbs 4 100 kg	Jib Assembly ⁷ 180 ft (55m)	①②④⑤⑥⑦ 182'-4" x 6'-0" x 6'-5" 55.6m x 1.84m x 1.95m	18,960 lbs 8 600 kg
Counterjib B ⁶	 62'-10" x 7'-10" x 5'-4" 19.15m x 2.4m x 1.62m	11,350 lbs 5 150 kg	Jib Assembly ⁷ 158 ft (48.3m)	①②④⑥⑦ 160'-4" x 6'-0" x 6'-5" 48.9m x 1.84m x 1.95m	17,200 lbs 7 800 kg
Reinforced Base Sect. 290 HC	 40'-9" x 7'-7" x 7'-7" 12.42m x 2.3m x 2.3m	16,400 lbs 7 440 kg	Jib Assembly ⁷ 142 ft (43.3m)	①②④⑤⑦ 144'-0" x 6'-0" x 6'-5" 43.9m x 1.84m x 1.95m	16,310 lbs 7 400 kg
Reinforced Tower Section 290 HC	 13'-7" x 7'-7" x 7'-7" 4.14m x 2.3m x 2.3m	6,500 lbs 2 950 kg	Jib Assembly ⁷ 120 ft (36.7m)	①②④⑦ 122'-4" x 6'-0" x 6'-5" 37.3m x 1.84m x 1.95m	14,770 lbs 6 700 kg
Base Tower Section 200 HC	 29'-0" x 7'-7" x 7'-7" 8.85m x 2.3m x 2.3m	8,960 lbs 4 065 kg	Jib Assembly ⁷ 104 ft (31.7m)	①④⑤⑦ 105'-11" x 6'-0" x 6'-5" 32.3m x 1.84m x 1.95m	12,350 lbs 5 600 kg
Long Tower Section 200 HC	 40'-9" x 7'-7" x 7'-7" 12.42m x 2.3m x 2.3m	11,240 lbs 5 100 kg	Top Climbing Unit w/hydraulics	 27'-7" x 9'-2" x 8'-10" 8.42m x 2.79m x 2.69m	16,530 lbs 7 500 kg
Standard Tower Section 200 HC	 13'-7" x 7'-7" x 7'-7" 4.14m x 2.3m x 2.3m	4,520 lbs 2 050 kg	Bottom Climbing Unit w/hydraulics	 13'-7" x 7'-10" x 8'-1" 4.14m x 2.4m x 2.46m	9,150 lbs 4 150 kg
Base Tower Section 290 HC	 40'-9" x 7'-7" x 7'-7" 12.42m x 2.3m x 2.3m	17,500 lbs 7 940 kg	Counterweight Block A	 4'-4" x 11" x 7'-10" 1.31m x 0.28m x 2.4m	4,255 lbs 1 930 kg
Standard Tower Section 290 HC	 13'-7" x 7'-7" x 7'-7" 4.14m x 2.3m x 2.3m	5,070 lbs 2 300 kg	Counterweight Block B	 4'-4" x 11" x 5'-3" 1.31m x 0.28m x 1.6m	2,645 lbs 1 200 kg
Standard Tower Section 550 HC	 20'-7" x 8'-0" x 8'-0" 6.28m x 2.45m x 2.45m	14,290 lbs 6 480 kg	Transition Section 550 HC/290 HC	 20'-7" x 8'-5" x 8'-5" 6.28m x 2.57m x 2.57m	13,050 lbs 5 920 kg
Long Tower Section 550 HC	 39'-8" x 8'-0" x 8'-0" 12.1m x 2.45m x 2.45m	23,480 lbs 10 650 kg	Trolley 2-part	 6'-4" x 6'-0" x 3'-6" 1.92m x 1.83m x 1.07m	830 lbs 375 kg

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

¹ Includes operator's cab, swing motors, slewing ring, slewing ring support and climbing shoes. Two climbing shoes are detachable; deduct 100 lbs (45 kg) each. Dimensions are without shoes.

² Includes operator's cab and swing motors.

³ Includes slewing ring, slewing ring support and climbing shoes. Two climbing shoes are detachable; deduct 100 lbs (45 kg) each. Dimensions shown are without detachable climbing shoes.

⁴ Includes 108 hp (80 kW) hoist unit, electrical panel and handrails. Does not include wire rope.

⁵ Includes counterjib sections #1, #3, pendant bars and handrails. Counterjib A is required for jibs 180 ft (55m) and shorter.

⁶ Includes counterjib sections #1, #2, #3, pendant bars and handrails. Counterjib B is required for the 197 ft (60m) jib.

⁷ Jib Assemblies include jib sections, pendant bars, pendant bar connecting pins and plates, trolley drive unit, trolley wire rope & trolley (830 lbs/375 kg). If hook block included, add (970 lbs/440 kg).

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