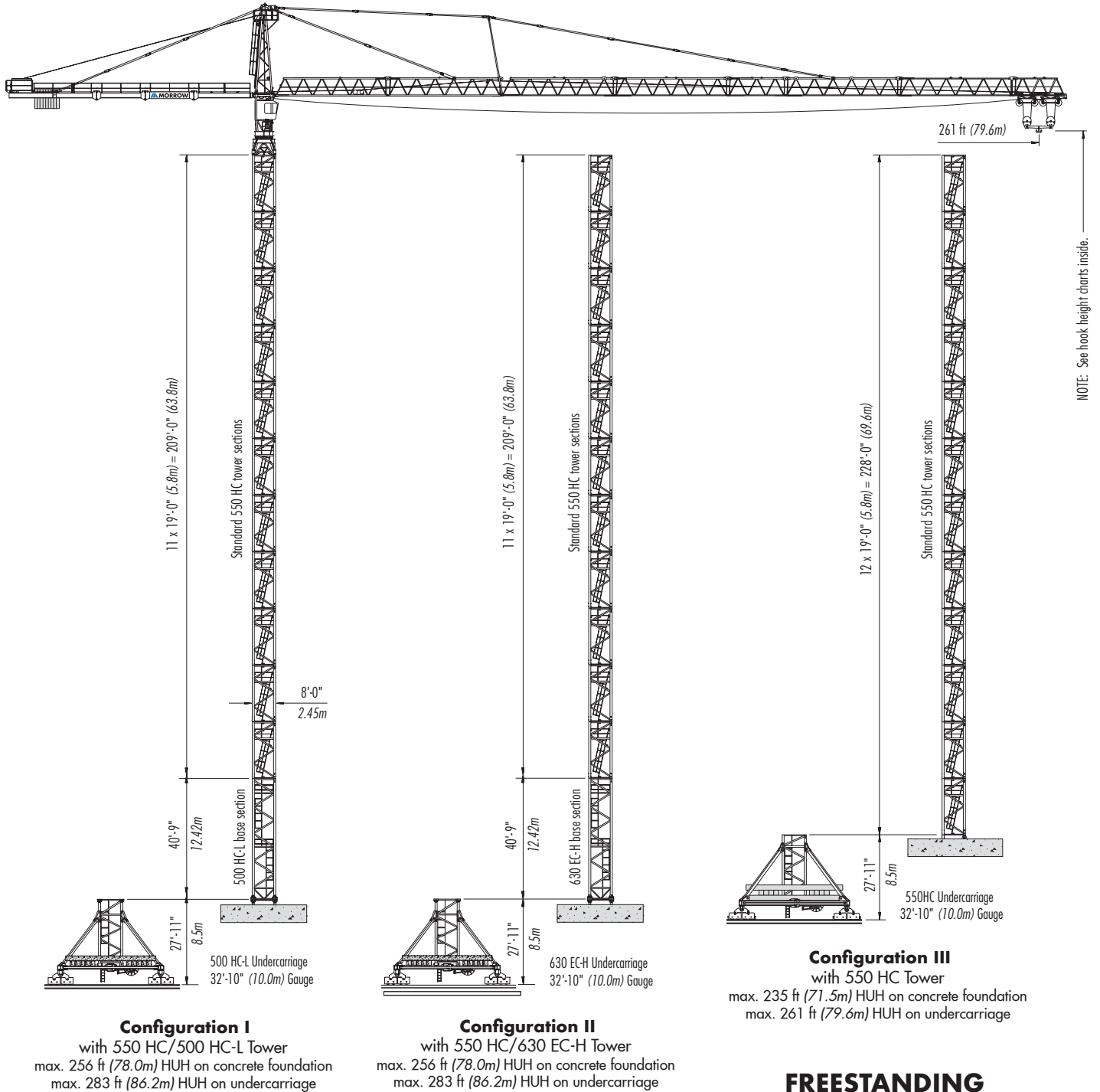
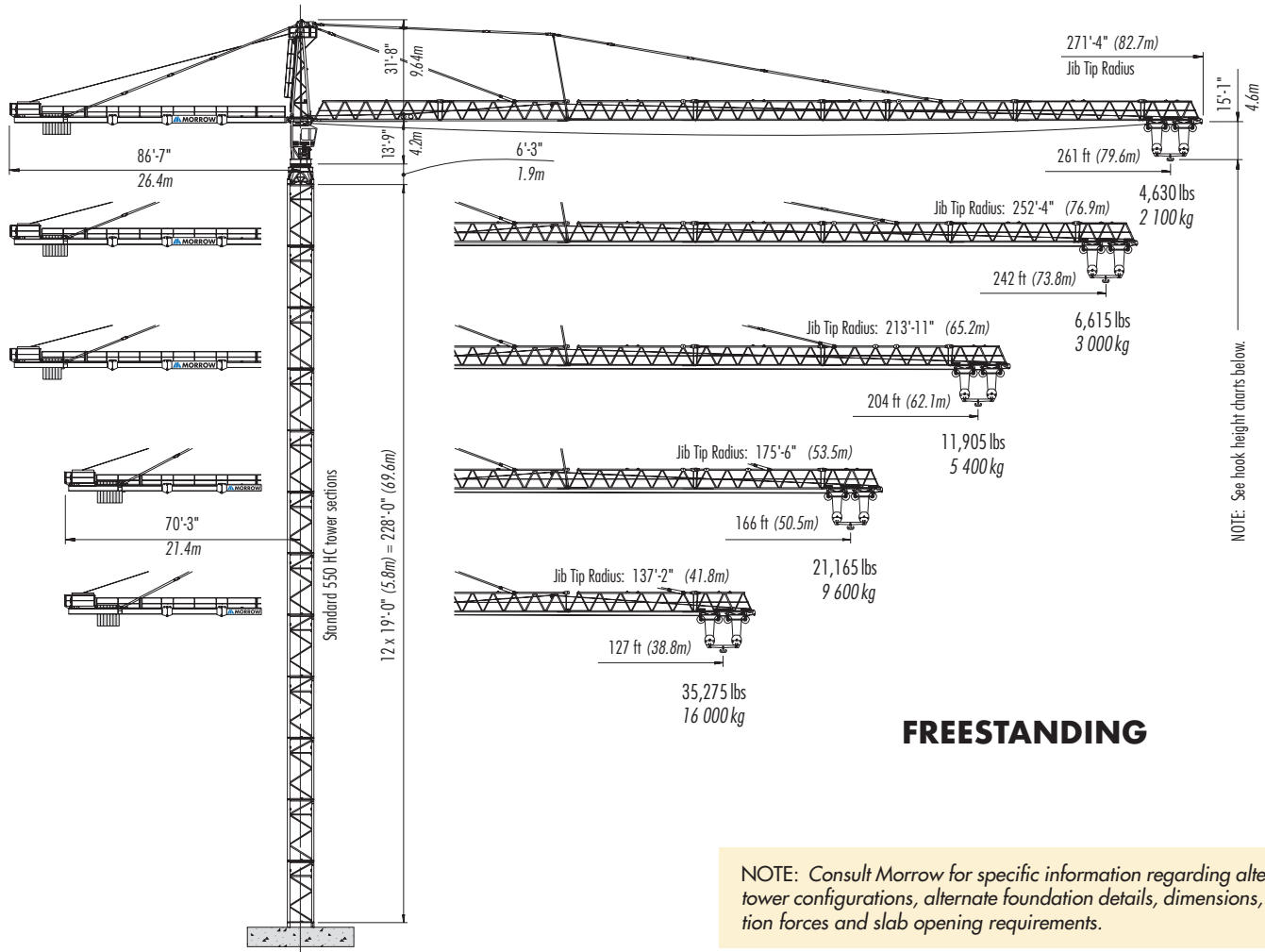


550 HC 40

LIEBHERR Hammerhead Tower Crane



LIEBHERR 550 HC 40



FREESTANDING

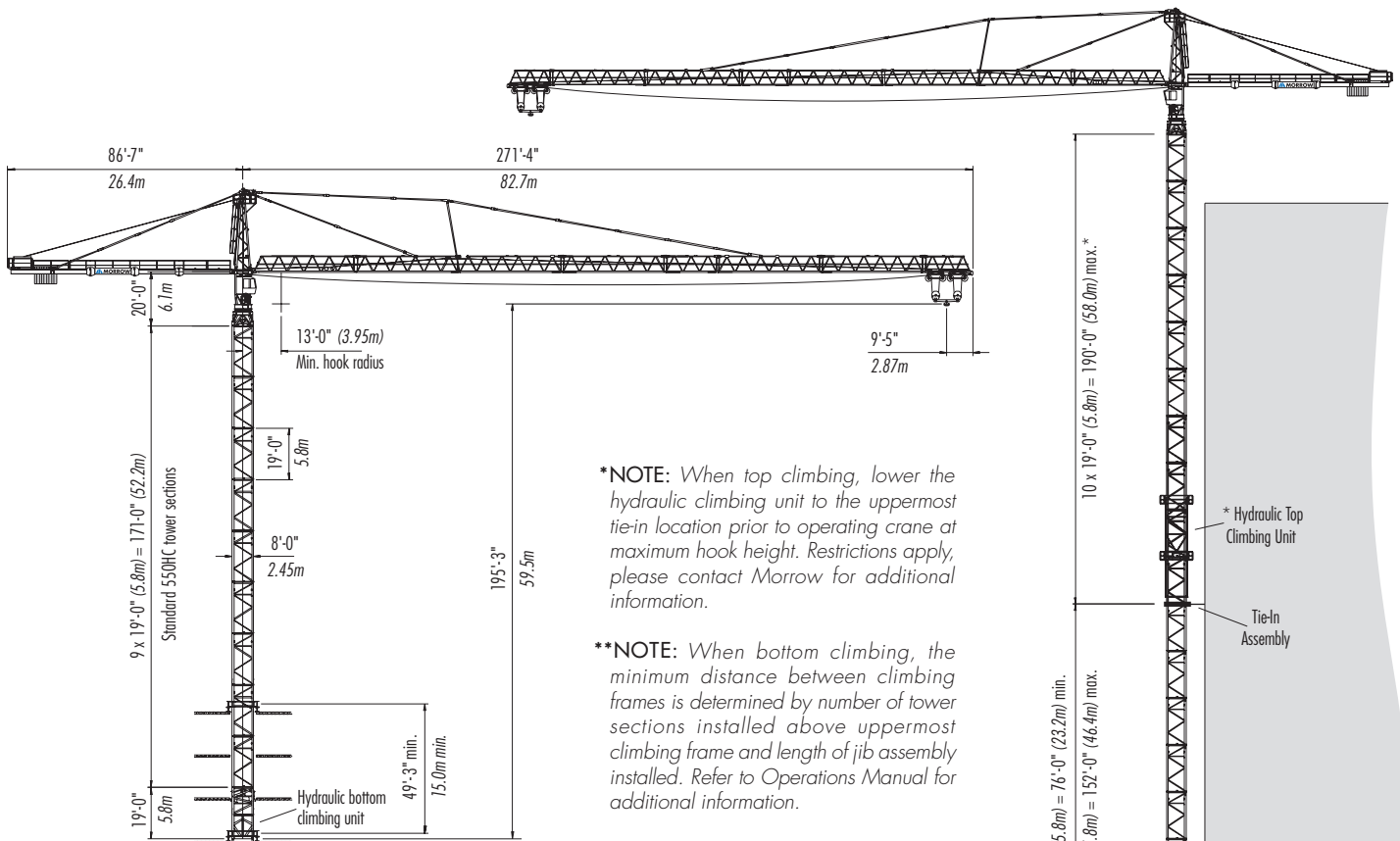
NOTE: Consult Morrow for specific information regarding alternate tower configurations, alternate foundation details, dimensions, reaction forces and slab opening requirements.

Hook Heights

No. of Tower Sections	Tower Configuration I	Hook Height		Hook Height		No. of Tower Sections	Tower Configuration II	Hook Height		Hook Height		No. of Tower Sections	Tower Configuration III	Hook Height		Hook Height	
		Concrete Foundation	10m Undercarriage	ft	m			Concrete Foundation	10m Undercarriage	ft	m			Concrete Foundation	10m Undercarriage	ft	m
0	500HCL BTS	46.6	14.2	73.6	22.4	0	630ECH BTS	46.6	14.2	73.6	22.4	1	550HC STS	25.3	7.7	51.8	15.8
1	550HC STS	65.6	20.0	92.6	28.2	1	550HC STS	65.6	20.0	92.6	28.2	2	550HC STS	44.4	13.5	70.9	21.6
2	550HC STS	84.6	25.8	111.6	34.0	2	550HC STS	84.6	25.8	111.6	34.0	3	550HC STS	63.4	19.3	89.9	27.4
3	550HC STS	103.7	31.6	130.6	39.8	3	550HC STS	103.7	31.6	130.6	39.8	4	550HC STS	82.4	25.1	108.9	33.2
4	550HC STS	122.7	37.4	149.7	45.6	4	550HC STS	122.7	37.4	149.7	45.6	5	550HC STS	101.5	30.9	128.0	39.0
5	550HC STS	141.7	43.2	168.7	51.4	5	550HC STS	141.7	43.2	168.7	51.4	6	550HC STS	120.5	36.7	147.0	44.8
6	550HC STS	160.8	49.0	187.7	57.2	6	550HC STS	160.8	49.0	187.7	57.2	7	550HC STS	139.5	42.5	166.0	50.6
7	550HC STS	179.8	54.8	206.8	63.0	7	550HC STS	179.8	54.8	206.8	63.0	8	550HC STS	158.5	48.3	185.0	56.4
8	550HC STS	198.8	60.6	225.8	68.8	8	550HC STS	198.8	60.6	225.8	68.8	9	550HC STS	177.6	54.1	204.1	62.2
9	550HC STS	217.8	66.4	244.8	74.6	9	550HC STS	217.8	66.4	244.8	74.6	10	550HC STS	196.6	59.9	223.1	68.0
10	550HC STS	236.9	72.2	263.8	80.4	10	550HC STS	236.9	72.2	263.8	80.4	11	550HC STS	215.6	65.7	242.1	73.8
11 ¹	550HC STS	255.9	78.0	282.9	86.2	11 ¹	550HC STS	255.9	78.0	282.9	86.2	12 ¹	550HC STS	234.7	71.5	261.2	79.6

¹ Lower top climbing unit to base prior to operating crane at maximum hook height.

LIEBHERR 550 HC 40

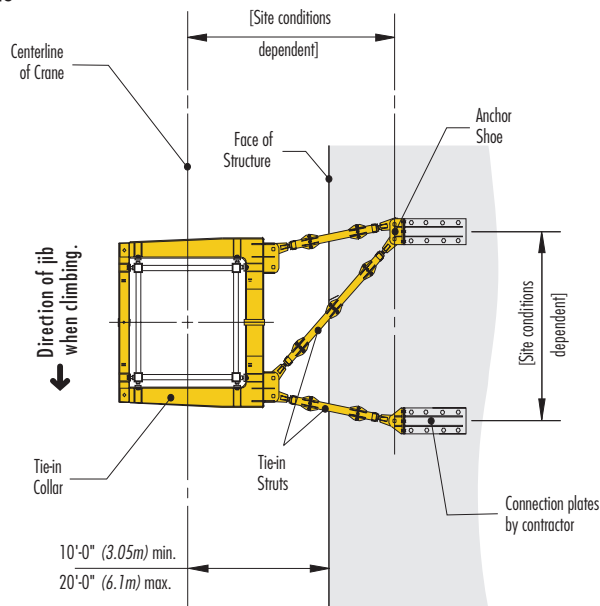


BOTTOM CLIMBING with 550 HC Tower Sections Inside Structure

NOTE: The tie-in assembly shown is an example of a typical installation. Please note, however, that factors determining the installation of tie-in assemblies may vary due to project specific conditions.

Contact Morrow for information regarding dimensions, reaction forces, tie-in locations and slab opening requirements.

NOTE: Please consult 550 HC 40 Operations Manual before erecting, operating, climbing, servicing or dismantling crane.



TIE-IN ASSEMBLY Plan View

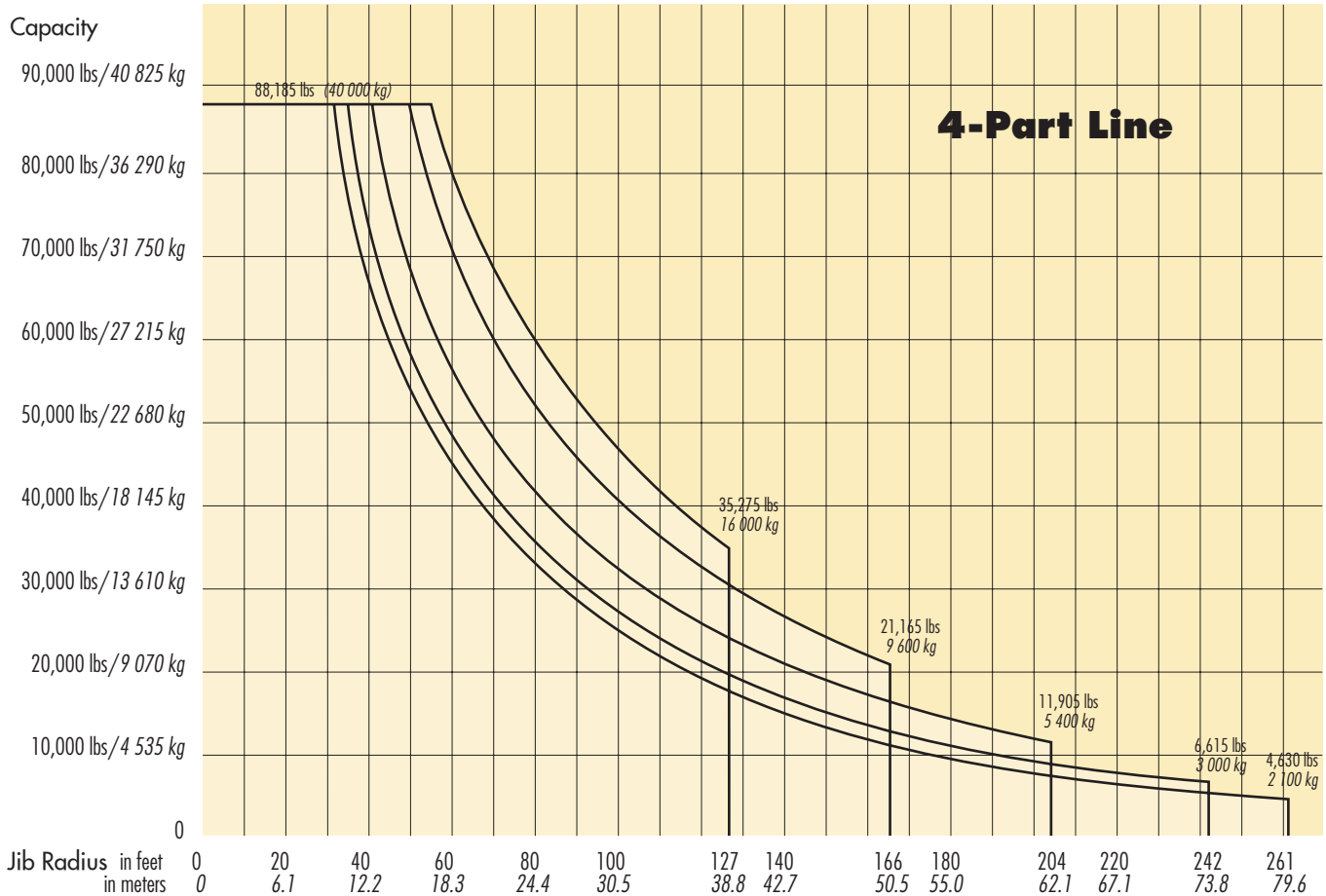
TOP CLIMBING with 550 HC Tower Sections Tied to Structure

LIEBHERR 550 HC 40

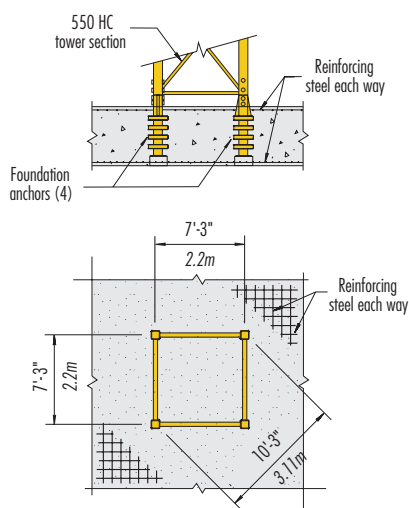
Radius and Capacities

4-Part Line

Hook Radius	Maximum Capacity – Radius	ft m	10 3.2	26 8.0	39 12.0	52 16.0	66 20.0	79 24.0	85 26.0	98 30.0	112 34.0	127 38.8	144 44.0	166 50.5	184 56.0	204 62.1	223 68.0	242 73.8	261 79.6
261 ft 79.6m	88,185 lbs – 33 ft 40 000 kg – 10.2m	lbs kg	88,185 40 000	88,185 40 000	72,815 33 030	51,720 23 460	39,395 17 870	31,325 14 210	28,440 12 900	23,830 10 810	20,715 9 395	16,975 7 700	14,155 6 420	11,440 5 190	9,610 4 360	7,980 3 620	6,660 3 020	5,565 2 525	4,630 2 100
242 ft 73.8m	88,185 lbs – 36 ft 40 000 kg – 11.0m	lbs kg	88,185 40 000	88,185 40 000	79,255 35 950	56,480 25 620	43,165 19 580	34,435 15 620	31,325 14 210	26,365 11 960	22,990 10 430	18,935 8 590	15,895 7 210	12,960 5 880	11,000 4 990	9,215 4 180	7,805 3 540	6,615 3 000	
204 ft 62.1m	88,185 lbs – 41 ft 40 000 kg – 12.6m	lbs kg	88,185 40 000	88,185 40 000	88,185 40 000	66,775 30 290	51,325 23 280	41,205 18 690	37,565 17 040	31,810 14 430	27,885 12 650	23,170 10 510	19,665 8 920	16,245 7 370	13,975 6 340	11,905 5 400			
166 ft 50.5m	88,185 lbs – 50 ft 40 000 kg – 15.0m	lbs kg	88,185 40 000	88,185 40 000	88,185 40 000	82,140 37 260	63,490 28 800	51,280 23 260	46,890 21 270	39,945 18 120	35,205 15 970	29,520 13 390	25,330 11 490	21,165 9 600					
127 ft 38.8m	88,185 lbs – 56 ft 40 000 kg – 17.2m	lbs kg	88,185 40 000	88,185 40 000	88,185 40 000	88,185 40 000	74,490 33 790	60,385 27 390	55,315 25 090	47,290 21 450	41,830 18 975	35,275 16 000							



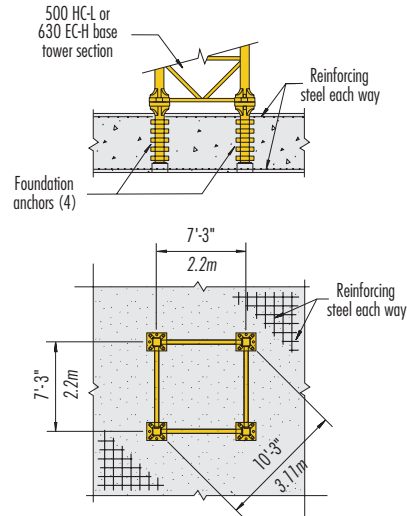
Foundation Details



with 550 HC Tower Section
on Concrete Slab

Elevation

Plan View



with 500 HC-L or 630 EC-H Base Section
on Concrete Slab

Hoist Speed and Capacity

Morrow offers the **LIEBHERR 550 HC** with a variety of alternative hoist units. For specific information regarding line speeds and lifting capacities, please contact a Morrow representative.

Motor Information

Drive Unit	Horsepower	Kilowatts	Speed	
Trolley (2 part line)	7.4 hp	5.5 kW	25 - 50 - 164 - 328 fpm	7.5 - 15 - 50 - 100 m/min
Swing (fluid coupling)	2 x 14.2 hp	2 x 10.6 kW	0.6 rpm	
Traveling (fluid coupling)	4 x 10 hp	4 x 7.5 kW	82 fpm	25.0 m/min

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.

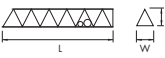
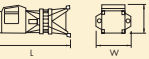
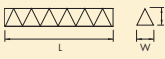
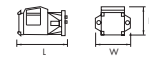
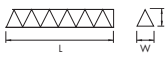
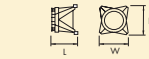
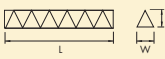
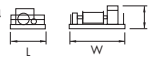
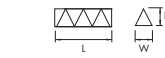
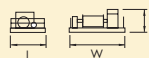
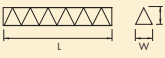
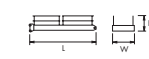
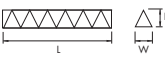
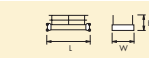
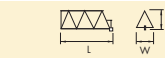
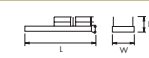
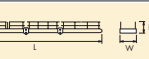
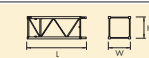
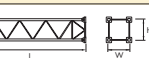
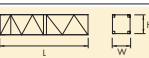
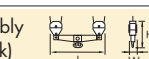
Service size: For hoist size 80 kW, 250 Amperes and for hoist size 110 kW, 300 Amperes.

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 350 kW for 80 kW hoist size and 500 kW for 110 kW hoist size. 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 	30'-10" x 5'-9" x 6'-3" 9.4m x 1.75m x 1.91m	11,685 lbs 5 300 kg	Jib Section ① #611 	39'-6" x 6'-4" x 6'-8" 12.03m x 1.93m x 2.03m	11,800 lbs 5 350 kg
Slewing Assembly (Complete) ¹ 	22'-5" x 9'-9" x 9'-0" 6.82m x 2.98m x 2.75m	37,765 lbs 17 130 kg	Jib Section ② #621 	39'-7" x 5'-9" x 6'-7" 12.06m x 1.74m x 2.01m	8,300 lbs 3 765 kg
Slewing Assembly Upper Part ² 	15'-2" x 9'-9" x 9'-0" 4.63m x 2.98m x 2.75m	21,230 lbs 9 630 kg	Jib Section ③ #631 	39'-2" x 5'-9" x 6'-5" 11.93m x 1.74m x 1.96m	5,400 lbs 2 450 kg
Slewing Assembly Lower Part ³ 	7'-3" x 8'-0" x 8'-0" 2.2m x 2.44m x 2.44m	16,535 lbs 7 500 kg	Jib Section ④ #632 	39'-5" x 5'-9" x 6'-5" 12.02m x 1.74m x 1.96m	4,500 lbs 2 040 kg
AC Hoist Unit w/Frame ⁴ 147 hp (110 kW) 	8'-4" x 19'-3" x 6'-2" 2.54m x 5.86m x 1.89m	23,280 lbs 10 560 kg	Jib Section ⑤ #635 	20'-8" x 5'-9" x 6'-5" 6.3m x 1.74m x 1.96m	2,335 lbs 1 060 kg
AC Hoist Unit w/Frame ⁴ 108 hp (80 kW) 	8'-8" x 15'-8" x 5'-9" 2.63m x 4.78m x 1.74m	16,315 lbs 7 400 kg	Jib Section ⑥ #633 	39'-5" x 5'-9" x 6'-5" 12.02m x 1.74m x 1.96m	5,070 lbs 2 300 kg
Counterjib Section #1 (Inner) 	20'-10" x 6'-4" x 6'-1" 6.35m x 1.93m x 1.85m	5,620 lbs 2 550 kg	Jib Section ⑦ #634 	39'-5" x 5'-9" x 6'-5" 12.02m x 1.74m x 1.96m	3,700 lbs 1 680 kg
Counterjib Section #2 (Intermediate) 	17'-1" x 6'-2" x 6'-1" 5.21m x 1.88m x 1.85m	4,950 lbs 2 245 kg	Jib Section ⑧ #641 	18'-8" x 5'-11" x 7'-7" 5.7m x 1.8m x 2.3m	2,515 lbs 1 140 kg
Counterjib Section #3 (Outer) 	31'-8" x 7'-11" x 6'-1" 9.65m x 2.42m x 1.85m	8,820 lbs 4 000 kg	Jib Assembly (Part 1) ⁸ for 166-ft to 261-ft jibs ①②	77'-6" x 6'-4" x 6'-8" 23.62m x 1.93m x 2.03m	25,795 lbs 11 700 kg
Counterjib B ⁵ 	68'-3" x 7'-11" x 6'-1" 20.8m x 2.42m x 1.85m	22,930 lbs 10 400 kg	Jib Assembly (Part 1) ⁸ for 127-ft jib ①②	77'-6" x 6'-4" x 6'-8" 23.62m x 1.93m x 2.03m	26,455 lbs 12 000 kg
Counterjib C ⁶ 	84'-8" x 7'-11" x 6'-1" 25.8m x 2.42m x 1.85m	28,880 lbs 13 100 kg	Jib Assembly (Part 2) ⁹ 261-ft (79.6m) ③④⑤⑥⑦⑧	190'-11" x 5'-11" x 7'-5" 58.2m x 1.8m x 2.27m	30,865 lbs 14 000 kg
Standard Tower Section 550 HC (Pin/Pin) 	20'-7" x 8'-0" x 8'-0" 6.28m x 2.45m x 2.45m	14,155 lbs 6 420 kg	Jib Assembly (Part 2) ⁹ 242-ft (73.8m) ③④⑥⑦⑧	171'-7" x 5'-11" x 7'-5" 52.3m x 1.8m x 2.27m	28,220 lbs 12 800 kg
Bottom Climbing Unit with hydraulics 500 HC-L (P/P) 	20'-8" x 8'-4" x 8'-0" 6.3m x 2.55m x 2.45m	40,940 lbs 18 570 kg	Jib Assembly (Part 2) ⁹ 204-ft (62.1m) ③④⑥⑧	133'-2" x 5'-11" x 7'-5" 40.6m x 1.8m x 2.27m	24,250 lbs 11 000 kg
Base Section ⁷ 500 HC-L (P/B) 	40'-9" x 8'-10" x 8'-10" 12.42m x 2.68m x 2.68m	40,125 lbs 18 200 kg	Jib Assembly (Part 2) ⁹ 166-ft (50.5m) ③⑥⑧	95'-2" x 5'-11" x 7'-5" 29.0m x 1.8m x 2.27m	18,740 lbs 8 500 kg
Base Section 630 EC-H (P/B) 	40'-9" x 8'-10" x 8'-10" 12.42m x 2.68m x 2.68m	31,965 lbs 14 500 kg	Jib Assembly (Part 2) ¹⁰ 127-ft (38.8m) ③⑧	56'-9" x 5'-9" x 7'-5" 17.3m x 1.74m x 2.27m	9,920 lbs 4 500 kg
Top Climbing Unit ⁷ w/hydraulics 	40'-9" x 9'-1" x 10'-4" 12.43m x 2.77m x 3.16m	22,420 lbs 10 170 kg	Counterweight ¹¹ Block A 	4'-6" x 11" x 10'-9" 1.37m x 0.28 x 3.28m	6,350 lbs 2 880 kg
Trolley (each) (2 per 4-part assembly) 	7'-10" x 7'-0" x 4'-7" 2.4m x 2.14m x 1.4m	1,810 lbs 820 kg	Counterweight ¹¹ Block B 	4'-6" x 11" x 7'-7" 1.37m x 0.28 x 2.32m	4,410 lbs 2 000 kg
4-Part Hook Block Assembly (with lifting beam & hook) 	10'-6" x 2'-4" x 8'-6" 3.2m x 0.7m x 2.6m	3,970 lbs 1 800 kg	Counterweight ¹¹ Block C 	4'-6" x 11" x 14'-7" 1.37m x 0.28 x 4.45m	8,730 lbs 3 960 kg

NOTE: Weights and dimensions are approximate. Scale components before lifting. Please consult crane's Operations Manual before erecting, operating or dismantling crane.

¹ Slewing Assembly Complete includes operator's cab, swing motors, slewing ring, slewing ring support and 4 climbing shoes. Climbing shoes are detachable; deduct 380 lbs (173 kg) each. Dimensions above are without climbing shoes. Does not include monorail assembly. Monorail assembly weighs approximately 970 lbs (440 kg).

² Slewing Assembly Upper Part includes operator's cab, swing motors and service platforms. Does not include slewing ring and slewing ring support.

³ Slewing Assembly Lower Part includes slewing ring, slewing ring support and 4 climbing shoes. Climbing shoes are detachable; deduct 380 lbs (173 kg) each. Dimensions above are without climbing shoes.

⁴ Includes hoist unit, electrical panel and handrails. Does not include wire rope.

⁵ Counterjib B includes one each counterjib sections #1, #2, #3, plus handrails and pendant bars. Counterjib B is required for jibs 127 ft (38.8m) and 166 ft (50.5m).

⁶ Counterjib C includes one each counterjib sections #1 and #3, two each counterjib section #2, plus handrails and pendant bars. Counterjib C is required for jibs 204 ft (62.1m) and longer.

⁷ Can be broken down into two panels.

⁸ Jib Assembly (Part 1) includes jib sections, pendant bars, pendant bar connecting pins and plates, trolley drive unit, erection wire rope, trolley wire rope and two trolleys.

⁹ Jib Assemblies (Part 2) for 166-ft (50.5m) to 261-ft (79.6m) include jib sections, A-frame, pendant bars with connecting pins and plates. Weight of A-frame: 1,720 lbs (780 kg).

¹⁰ Jib Assembly (Part 2) for 127 ft (38.8m) includes jib sections, pendant bars with connecting pins and plates.

¹¹ Counterweight block dimensions are for blocks constructed without frames. When fabricating counterweights, consult 550 HC 40 Operations Manual for concrete requirements.