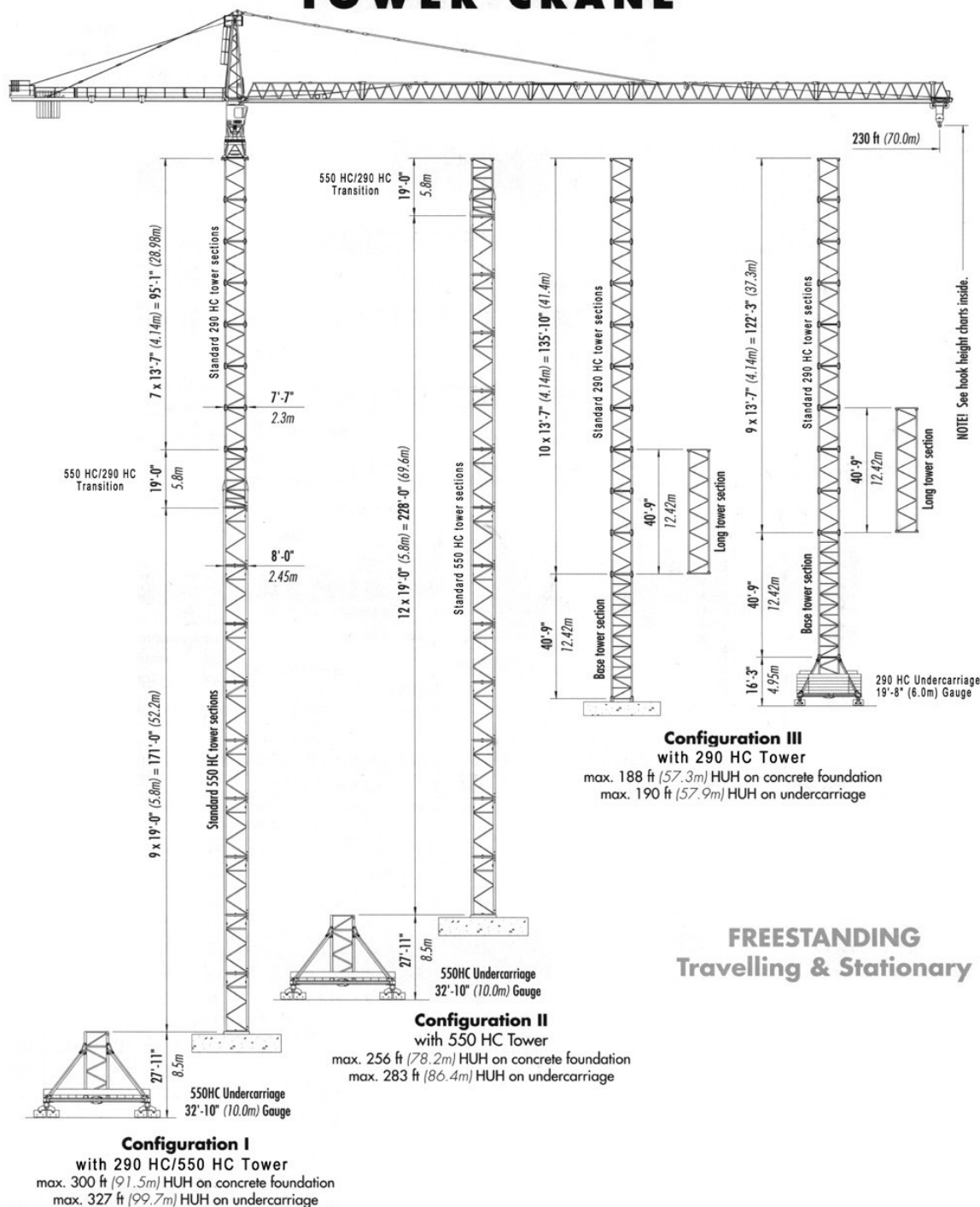


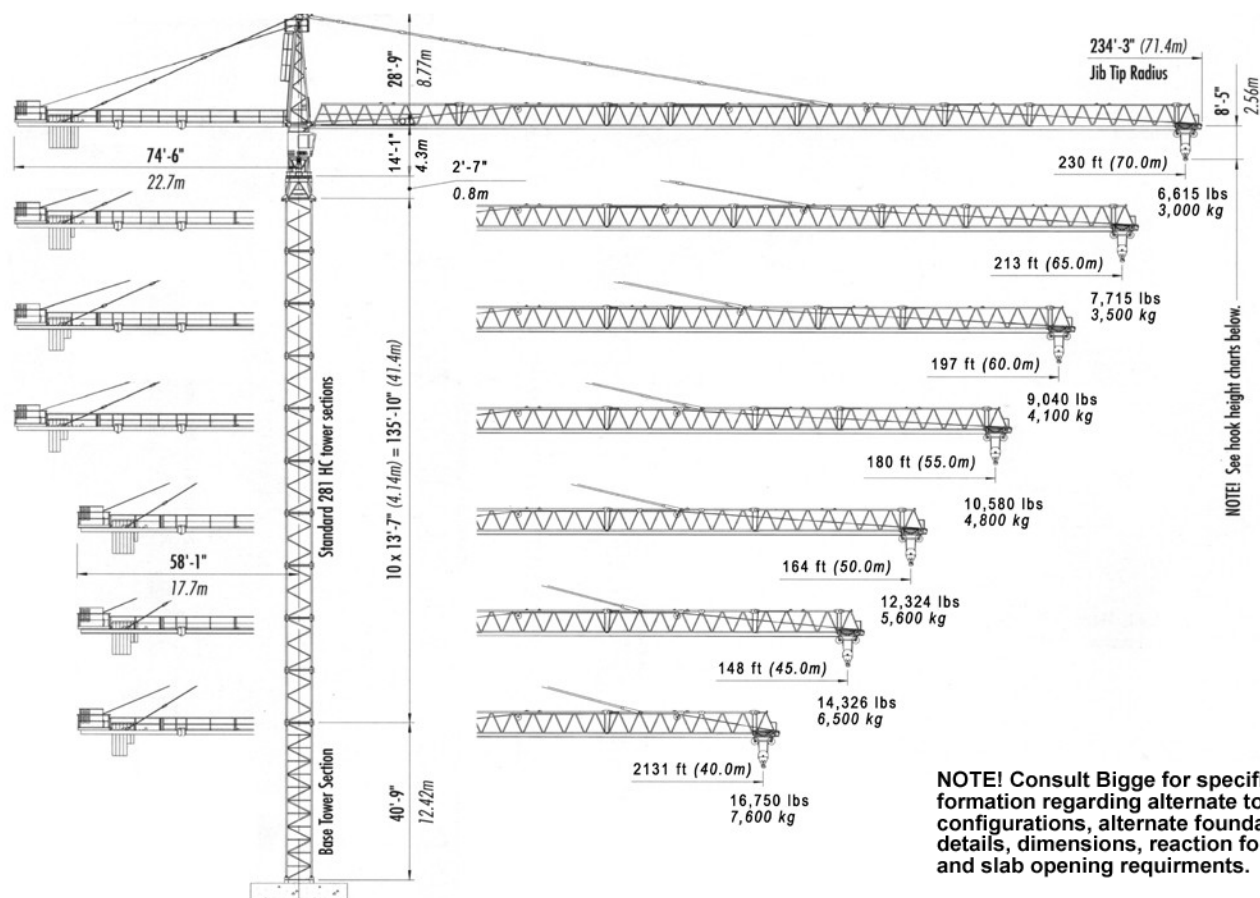
LIEBHERR 280 EC-H

TOWER CRANE



Configurations

LIEBHERR 280 EC-H



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

Configuration I

No. of Tower Elements	Tower Configuration I	Hook Height Concrete Foundation		Hook Height 10.0m Undercarriage	
		ft	m	ft	m
1	550 HC STS	33.8	10.3	60.7	18.5
2	550 HC STS	52.8	16.1	79.7	24.3
3	550 HC STS	71.9	21.9	98.8	30.1
4	550 HC STS	90.9	27.7	117.8	35.9
5	550 HC STS	109.9	33.5	136.8	41.7
6	550 HC STS	128.9	39.3	155.8	47.5
7	550 HC STS	148.0	45.1	174.9	53.3
8	550 HC STS	167.0	50.9	193.9	59.1
9	550 HC STS	186.0	56.7	212.9	64.9
10	Transition	205.1	62.5	232.0	70.7
11	290 HC STS	218.6	66.6	245.5	74.8
12	290 HC STS	232.2	70.8	259.1	79.0
13	290 HC STS	245.8	74.9	272.7	83.1
14	290 HC STS	259.4	79.1	286.3	87.3
15	290 HC STS	273.0	83.2	300.0	91.4
16	290 HC STS	286.5	87.3	313.5	95.5
17	290 HC STS ¹	300.1	91.5	327.0	99.7

Configuration II

No. of Tower Elements	Tower Configuration II	Hook Height Concrete Foundation		Hook Height 10.0m Undercarriage	
		ft	m	ft	m
1	550 HC STS	33.8	10.3	60.7	18.5
2	550 HC STS	52.8	16.1	79.7	24.3
3	550 HC STS	71.9	21.9	98.8	30.1
4	550 HC STS	90.9	27.7	117.8	35.9
5	550 HC STS	109.9	33.5	136.8	41.7
6	550 HC STS	128.9	39.3	155.8	47.5
7	550 HC STS	148.0	45.1	174.9	53.3
8	550 HC STS	167.0	50.9	193.9	59.1
9	550 HC STS	186.0	56.7	212.9	64.9
10	550 HC STS	205.1	62.5	232.0	70.7
11	550 HC STS	224.1	68.3	250.1	76.5
12	550 HC STS	243.1	74.1	270.0	82.3
13	Transition	256.7	78.2	283.6	86.4

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

² Lower top climbing unit to base of crane prior to operating crane at maximum hook height [190 ft (57.9m)].

³ Lower top climbing unit to base of crane prior to operating crane at maximum hook height [188 ft (57.3m)].

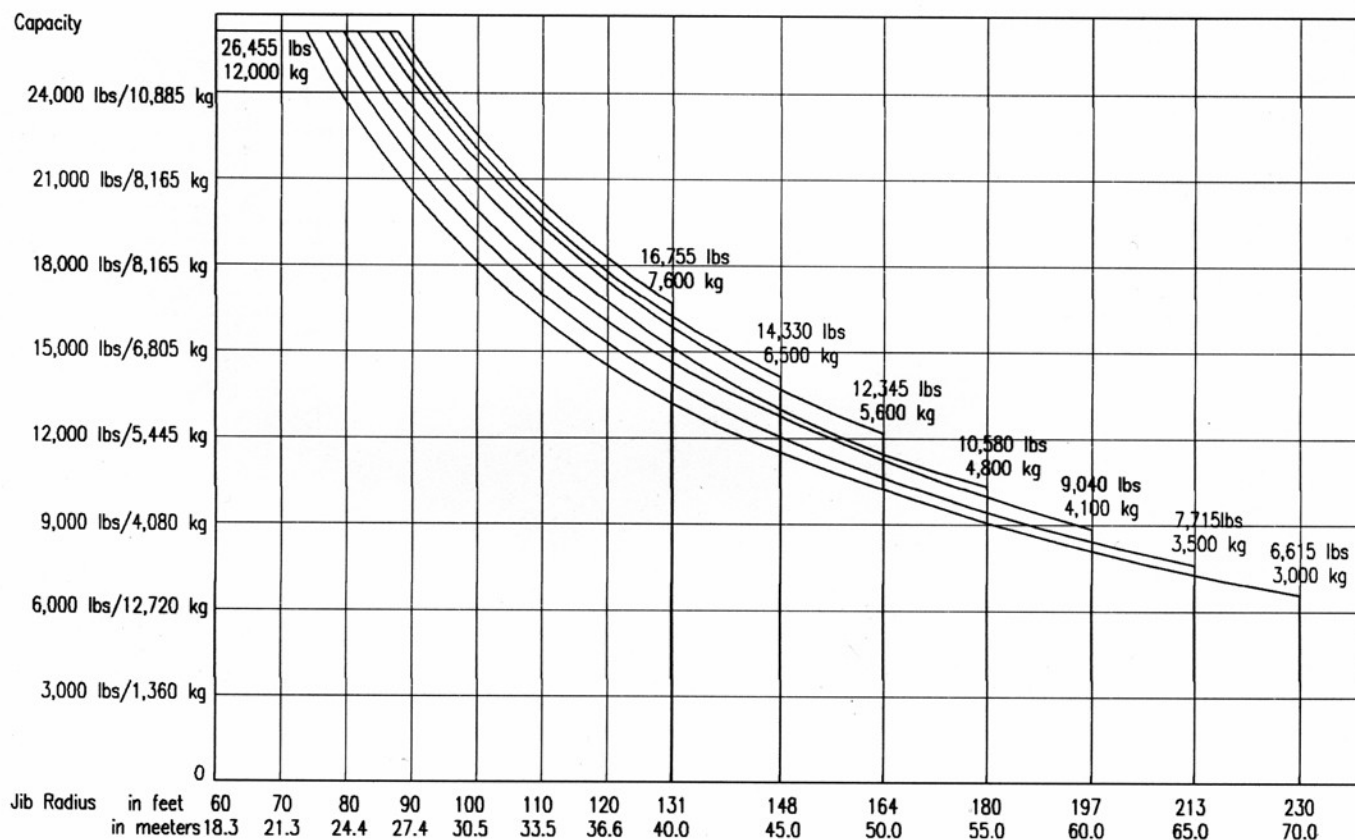
Configuration III

No. of Tower Sections	Tower Configuration III	Hook Height Concrete Foundation		Hook Height 6.0m Undercarriage	
		ft	m	ft	m
0	290 HC BTS-40	52.5	16.0	67.7	20.7
1	290 HC STS	65.9	20.1	81.3	24.8
2	290 HC STS	79.7	24.3	94.9	28.9
3	290 HC STS	93.2	28.4	108.5	33.1
4	290 HC STS	106.6	32.5	122.1	37.2
5	290 HC STS	120.4	36.7	135.7	41.4
6	290 HC STS	133.9	40.8	149.2	45.5
7	290 HC STS	147.6	45.0	162.8	49.6
8	290 HC STS	161.1	49.1	176.4	53.8
9	290 HC STS	174.5	53.2	190.0 ²	57.9 ²
10	290 HC STS ³	188.0 ³	57.3 ³	—	—

Radius and Capacities

LIEBHERR Tower Crane Model 280 EC-H

HOOK RADIUS	Max Capacity - Radius	ft m	72 22.0	79 24.0	85 26.0	92 28.0	98 30.0	112 34.0	125 38.0	131 40.0	138 42.0	148 45.0	157 48.0	164 50.0	180 55.0	190 58.0	197 60.0	213 65.0	230 70.0
230 ft 70.0m	26,455 - 73 ft. 12,000 - 22.4 m	lbs kg	26,455 12,000	24,515 11,120	22,400 10,160	20,590 9,340	19,025 8,630	16,470 7,470	14,440 6,550	13,580 6,160	12,810 5,810	11,700 5,340	10,870 4,930	10,320 4,680	9,150 4,150	8,530 3,870	8,155 3,700	7,320 3,320	6,615 3,000
213 ft 65.0m	26,455 - 76 ft. 12,000 - 23.3 m	lbs kg	26,422 12,000	22,595 11,610	23,390 10,610	21,515 9,760	19,885 9,020	17,220 7,810	15,100 6,850	14,220 6,450	13,405 6,080	12,325 5,590	11,400 5,170	10,825 4,910	9,610 4,360	8,975 4,070	8,575 3,890	7,715 3,500	
197 ft 60.0m	26,455 - 79 ft. 12,020 - 24.2 m	lbs kg	26,455 12,000	26,455 12,000	24,470 11,100	22,510 10,210	20,810 9,440	18,035 8,180	15,830 7,180	14,905 6,760	14,065 6,380	12,940 5,870	11,970 5,430	11,375 5,160	10,100 4,580	9,435 4,280	9,040 4,100		
180 ft 55.0m	26,455 - 82 ft. 12,000 - 25.1 m	lbs kg	26,455 12,000	26,455 12,000	25,485 11,560	23,455 10,640	21,695 9,840	18,805 8,530	16,535 7,500	15,565 7,060	14,705 6,670	13,535 6,140	12,520 5,680	11,905 5,400	10,580 4,800				
164 ft 50.0m	26,455 - 85 ft. 12,000 - 25.9 m	lbs kg	26,455 12,000	26,455 12,000	26,345 11,950	24,250 11,000	22,420 10,170	19,445 8,820	17,110 7,760	16,115 7,310	15,210 6,900	14,020 6,360	12,960 5,880	12,345 5,600					
148 ft 45.0m	26,455 - 87 ft. 12,000 - 26.4 m	lbs kg	26,455 12,000	26,455 12,000	26,455 12,000	24,760 11,230	22,905 10,390	19,865 9,010	17,480 7,930	16,470 7,470	15,540 7,050	14,330 6,500							
131 ft 40.0m	26,455 - 88 ft. 12,000 - 26.8 m	lbs kg	26,455 12,000	26,455 12,000	26,455 12,000	25,155 11,410	23,280 10,560	20,215 9,170	17,790 8,070	16,755 7,600									





SPECIFICATIONS

LIEBHERR Tower Crane Model 280 EC-H

Hoist Speed and Capacity

Hoist Unit	WiW281RX056	2-Part Line			
88 hp (65 kW) AC hoist unit 3-speed gearbox Electromagnetic gear shifting Eddy current brake		Gear	Capacity	Line Speed	Capacity Line Speed
		1	26,455 lbs	@ 69 fpm	12,000 kg @ 21 m/min
		2	11,770 lbs	@ 157 fpm	5,350 kg @ 48 m/min
		3	4,840 lbs	@ 328 fpm	2,200 kg @ 100 m/min

NOTE! This crane model may be equipped with a hoist unit other than that specified in the data above. To verify, check serial number and operations manual of the crane.

Motor Information

Drive Unit	Horsepower	Kilowatts	Speed	
Trolley (frequency controlled)	14.8 hp	11.0 kW	0 to 453 fpm	0 to 138 m/min
Swing (fluid coupling)	2 x 8.5 hp	6.3 kW	0.7 rpm	
Traveling (fluid coupling)	2 x 10 hp	2 x 7.5 kW	98 fpm	30.0 m/min

Power Requirements

480 Volts — 3-phase — 60-cycle	225 Amperes service with 88 hp (65 kW) 3-speed AC hoist unit
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Specifications subject to change without notice. For other configurations and specifications, contact Bigge.