

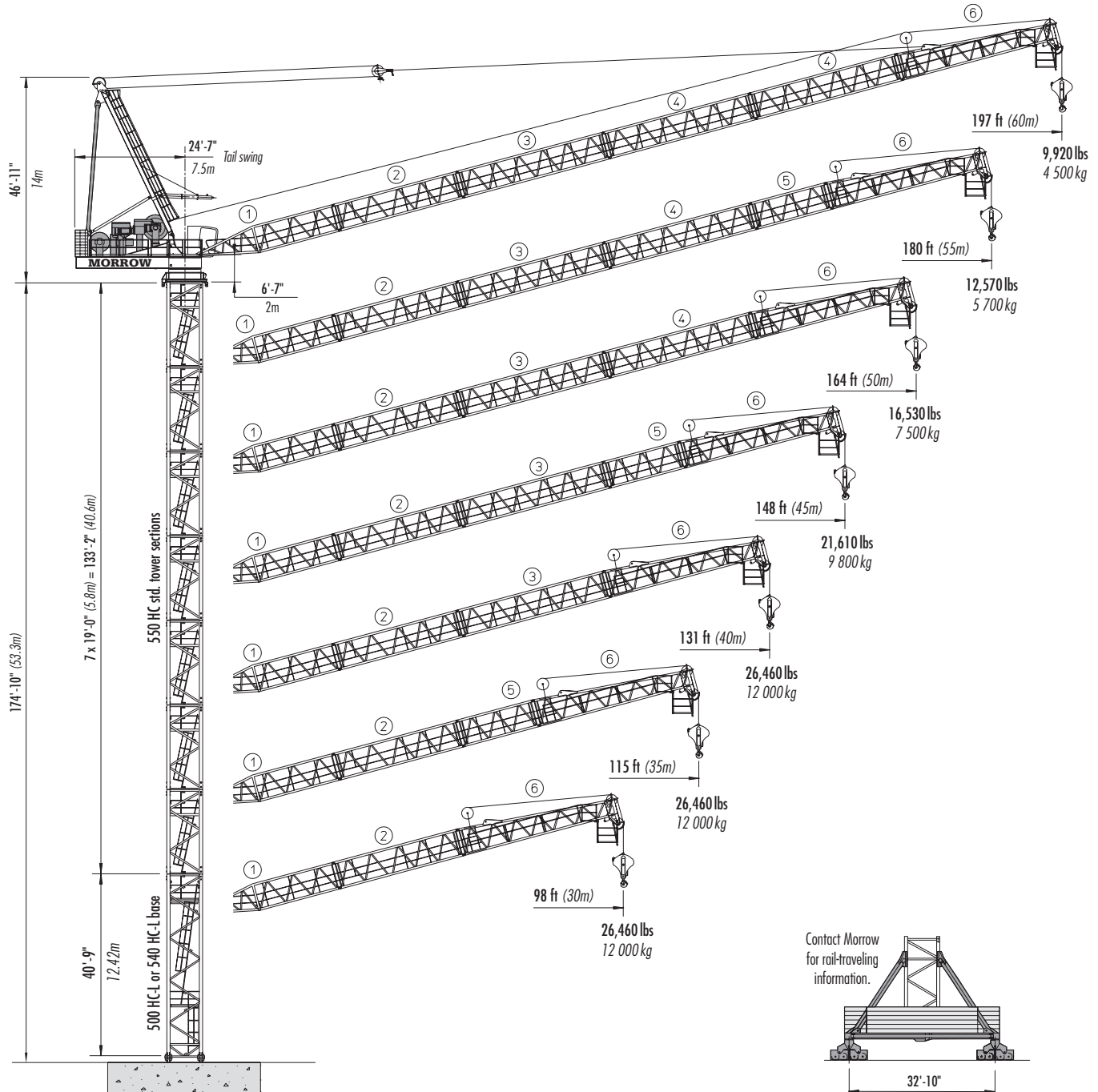


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LIEBHERR 355 HC-L 12

LUFFING BOOM TOWER CRANE



FOR REFERENCE USE ONLY!

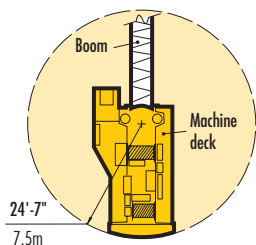
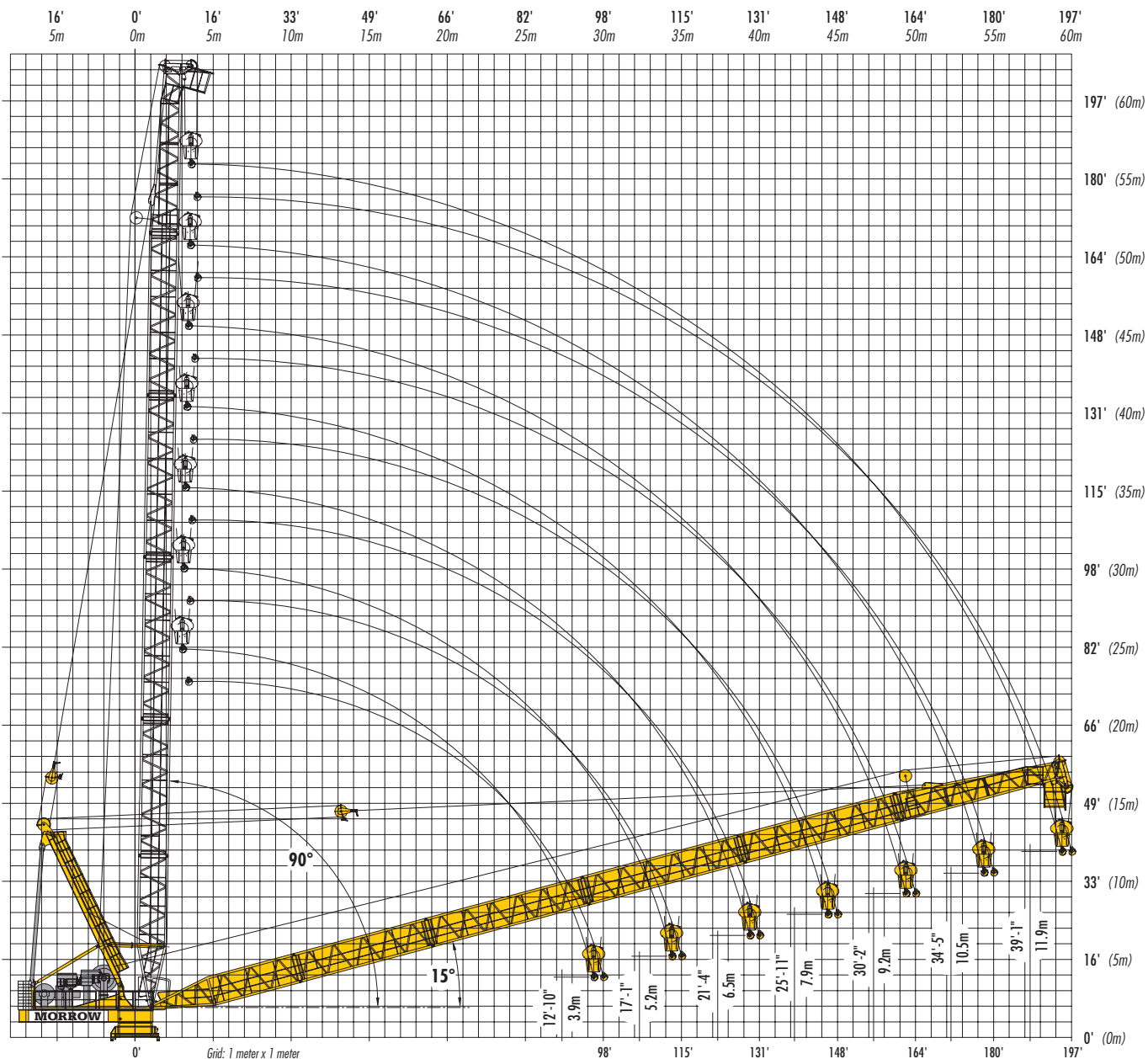
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LIEBHERR 355 HC-L 12



TAIL SWING RADIUS

PLAN VIEW – showing tail swing radius for crane configuration using steel ballast blocks. Please consult Morrow for additional information.

Minimum reach (out of operation @ 70°) *

Boom Length		Min. Hook Reach		Tip Radius	
197'	60m	76.8'	23.4m	79.4'	24.2m
180'	55m	71.2'	21.7m	73.5'	22.4m
164'	50m	65.3'	19.9m	67.6'	20.6m
148'	45m	59.4'	18.1m	62.0'	18.9m
131'	40m	53.5'	16.3m	56.1'	17.1m
115'	35m	47.9'	14.6m	50.2'	15.3m
98'	30m	42.0'	12.8m	44.3'	13.5m

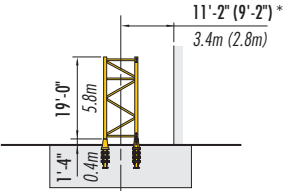
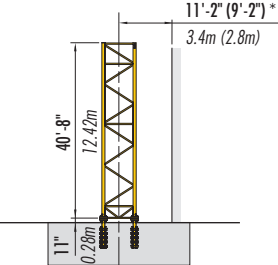
* Note! Main working range: 15° - 75°.

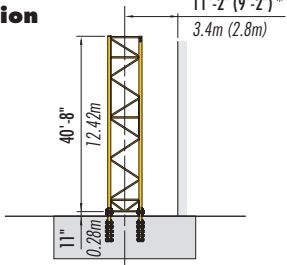


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Tower heights

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

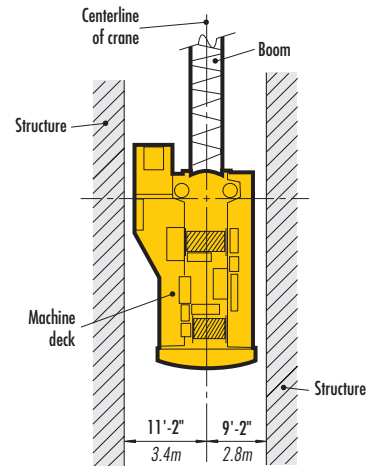
	Configuration I								Configuration II							
Tower Base Components	Std. 550 HC or 500 HC-L Tower Section 								500 HC-L or 540 HC-L Base Section 							
No. of Tower Elements	Boom Length								Boom Length							
	98 ft	30m	115 ft → 131 ft	35m → 40m	148 ft → 164 ft	45m → 50m	180 ft → 197 ft	55m → 60m	98 ft	30m	115 ft → 148 ft	35m → 45m	164 ft → 180 ft	50m → 55m	197 ft	60m
0	1.3 ft	0.4m	1.3 ft	0.4m	1.3 ft	0.4m	1.3 ft	0.4m	41.6 ft	12.7m	41.6 ft	12.7m	41.6 ft	12.7m	41.6 ft	12.7m
1	20.3 ft	6.2m	20.3 ft	6.2m	20.3 ft	6.2m	20.3 ft	6.2m	60.7 ft	18.5m	60.7 ft	18.5m	60.7 ft	18.5m	60.7 ft	18.5m
2	39.4 ft	12m	39.4 ft	12m	39.4 ft	12.0m	39.4 ft	12.0m	79.7 ft	24.3m	79.7 ft	24.3m	79.7 ft	24.3m	79.7 ft	24.3m
3	58.4 ft	17.8m	58.4 ft	17.8m	58.4 ft	17.8m	58.4 ft	17.8m	98.8 ft	30.1m	98.8 ft	30.1m	98.8 ft	30.1m	98.8 ft	30.1m
4	77.4 ft	23.6m	77.4 ft	23.6m	77.4 ft	23.6m	77.4 ft	23.6m	117.8 ft	35.9m	117.8 ft	35.9m	117.8 ft	35.9m	117.8 ft	35.9m
5	96.5 ft	29.4m	96.5 ft	29.4m	96.5 ft	29.4m	96.5 ft	29.4m	136.8 ft	41.7m	136.8 ft	41.7m	136.8 ft	41.7m	136.8 ft	41.7m
6	115.5 ft	35.2m	115.5 ft	35.2m	115.5 ft	35.2m	115.5 ft	35.2m	155.8 ft	47.5m	155.8 ft	47.5m	155.8 ft	47.5m	155.8 ft	47.5m
7	134.5 ft	41m	134.5 ft	41m	134.5 ft	41m	134.5 ft	41m	174.9 ft	53.3m	174.9 ft	53.3m	174.9 ft	53.3m	174.9 ft ^{1,2}	53.3m ^{1,2}
8	153.5 ft	46.8m	153.5 ft	46.8m	153.5 ft	46.8m	153.5 ft ^{1,2}	46.8m ^{1,2}	193.9 ft	59.1m	193.9 ft	59.1m	193.9 ft ^{1,2}	59.1m ^{1,2}	—	—
9	172.6 ft	52.6m	172.6 ft	52.6m	172.6 ft ^{1,2}	52.6m ^{1,2}	—	—	212.9 ft	64.9m	212.9 ft ^{1,2}	64.9m ^{1,2}	—	—	—	—
10	191.6 ft	58.4m	191.6 ft ^{1,2}	58.4m ^{1,2}	—	—	—	—	232 ft ^{1,2}	70.7m ^{1,2}	—	—	—	—	—	—
11	210.6 ft ^{1,2}	64.2m ^{1,2}	—	—	—	—	—	—	—	—	—	—	—	—	—	—

	Configuration III							
Tower Base Components	630 EC-H Base Section 							
No. of Tower Elements	Boom Length							
	98 ft	30m	115 ft → 148 ft	35m → 45m	164 ft → 180 ft	50m → 55m	197 ft	60m
0	41.6 ft	12.7m	41.6 ft	12.7m	41.6 ft	12.7m	41.6 ft	12.7m
1	60.7 ft	18.5m	60.7 ft	18.5m	60.7 ft	18.5m	60.7 ft	18.5m
2	79.7 ft	24.3m	79.7 ft	24.3m	79.7 ft	24.3m	79.7 ft	24.3m
3	98.8 ft	30.1m	98.8 ft	30.1m	98.8 ft	30.1m	98.8 ft	30.1m
4	117.8 ft	35.9m	117.8 ft	35.9m	117.8 ft	35.9m	117.8 ft	35.9m
5	136.8 ft	41.7m	136.8 ft	41.7m	136.8 ft	41.7m	136.8 ft	41.7m
6	155.8 ft	47.5m	155.8 ft	47.5m	155.8 ft	47.5m	155.8 ft ^{1,2}	47.5m ^{1,2}
7	174.9 ft	53.3m	174.9 ft	53.3m	174.9 ft ^{1,2}	53.3m ^{1,2}	—	—
8	193.9 ft	59.1m	193.9 ft ^{1,2}	59.1m ^{1,2}	—	—	—	—
9	212.9 ft ^{1,2}	64.9m ^{1,2}	—	—	—	—	—	—

* See "Clearance Requirements" illustration on this page.

¹ Lower top climbing unit to base of crane prior to operating.

² Out of operation boom position from 15° to 70°. Out-of-operation boom position varies according to boom length and number of tower sections installed. Refer to Operations Manual for information.



CLEARANCE REQUIREMENTS

Plan View

NOTE! Allow for clearance between crane machine deck and any adjacent structure when climbing crane up or down. Above view illustrates minimum crane-to-structure clearances for both sides of machine deck.



LIEBHERR 355 HC-L 12

Radius and capacities

1-PART OPERATION

Boom Length	Maximum Capacity – Radius	ft m	13 4	33 10	49 15	66 20	98 30	107 32.5	115 35	123 37.5	131 40	139 42.5	148 45	156 47.5	164 50	172 52.5	180 55	189 57.5	197 60
197 ft 60m	26,460 lbs – 114 ft 12 000 kg – 34.9m	lbs kg	26,460 12 000	26,460 12 000	26,460 12 000	26,460 12 000	26,460 12 000	26,460 12 000	26,350 11 950	23,660 10 730	21,320 9 670	19,290 8 750	17,480 7 930	15,900 7 210	14,460 6 560	13,160 5 970	11,990 5 440	10,930 4 960	9,920 4 500
180 ft 55m	26,460 lbs – 122 ft 12 000 kg – 37.3m	lbs kg	26,460 12 000	26,460 12 000	26,460 12 000	26,460 12 000	26,460 12 000	26,460 12 000	26,460 12 000	26,210 11 890	23,500 10 660	21,140 9 590	19,050 8 640	17,170 7 790	15,500 7 030	13,980 6 340	12,570 5 700		
164 ft 50m	26,460 lbs – 130 ft 12 000 kg – 39.7m	lbs kg	26,460 12 000	26,460 12 000	26,460 12 000	26,460 12 000	26,460 12 000	26,460 12 000	26,460 12 000	26,460 12 000	26,100 11 840	23,280 10 560	20,810 9 440	18,580 8 430	16,530 7 500				
148 ft 45m	26,460 lbs – 138 ft 12 000 kg – 42m	lbs kg	26,460 12 000	26,460 12 000	26,460 12 000	26,460 12 000	26,460 12 000	26,460 12 000	26,460 12 000	26,460 12 000	26,460 12 000	25,620 11 620	21,610 9 800						
131 ft 40m	26,460 lbs – 131 ft 12 000 kg – 40m	lbs kg	26,460 12 000	26,460 12 000	26,460 12 000	26,460 12 000	26,460 12 000	26,460 12 000	26,460 12 000	26,460 12 000	26,460 12 000								
115 ft 35m	26,460 lbs – 115 ft 12 000 kg – 35m	lbs kg	26,460 12 000	26,460 12 000	26,460 12 000	26,460 12 000	26,460 12 000	26,460 12 000	26,460 12 000										
98 ft 30m	26,460 lbs – 98 ft 12 000 kg – 30m	lbs kg	26,460 12 000	26,460 12 000	26,460 12 000	26,460 12 000	26,460 12 000												



2-PART OPERATION

Boom Length	Hook Reach	Maximum Capacity – Radius	ft m	13 4	79 24	89 27	98 30	105 32	115 35	121 37	131 40	138 42	148 45	154 47	164 50	171 52	180 55	187 57	197 60
197 ft 60m	195 ft 59.4m	52,910 lbs – 54 ft 24 000 kg – 16.5m	lbs kg	52,910 24 000	31,720 14 390	26,870 12 190	23,100 10 480	21,010 9 530	18,340 8 320	16,820 7 630	14,860 6 740	13,710 6 220	12,170 5 520	11,270 5 110	10,050 4 560	9,330 4 230	8,330 3 780	7,740 3 510	7,050 3 200
180 ft 55m	178 ft 54.4m	52,910 lbs – 59 ft 24 000 kg – 18m	lbs kg	52,910 24 000	35,850 16 260	30,450 13 810	26,210 11 890	23,880 10 830	20,920 9 490	19,220 8 720	17,020 7 720	15,740 7 140	14,020 6 360	13,030 5 910	11,660 5 290	10,850 4 920	9,920 4 500		
164 ft 50m	162 ft 49.4m	52,910 lbs – 64 ft 24 000 kg – 19.5m	lbs kg	52,910 24 000	39,930 18 110	33,910 15 380	29,210 13 250	26,610 12 070	23,300 10 570	21,430 9 720	18,960 8 600	17,530 7 950	15,630 7 090	14,480 6 570	13,230 6 000				
148 ft 45m	146 ft 44.4m	52,910 lbs – 69 ft 24 000 kg – 21m	lbs kg	52,910 24 000	44,140 20 020	37,520 17 020	32,340 14 670	29,450 13 360	25,790 11 700	23,720 10 760	20,990 9 520	19,380 8 790	17,640 8 000						
131 ft 40m	129 ft 39.4m	52,910 lbs – 74 ft 24 000 kg – 22.5m	lbs kg	52,910 24 000	48,410 21 960	40,480 18 630	35,300 16 010	32,100 14 560	28,020 12 710	25,680 11 650	23,150 10 500								
115 ft 35m	113 ft 34.4m	52,910 lbs – 77 ft 24 000 kg – 23.5m	lbs kg	52,910 24 000	51,390 23 310	43,520 19 740	37,320 16 930	33,890 15 370	30,200 13 700										
98 ft 30m	96 ft 29.4m	52,910 lbs – 77 ft 24 000 kg – 23.5m	lbs kg	52,910 24 000	51,410 23 320	43,700 19 820	38,580 17 500												

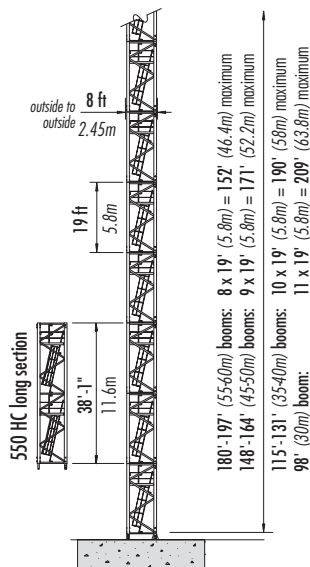


NOTE! Lifting capacities indicated above apply only to crane configurations with heights under hook less than 330 feet (100m). Capacities for hook heights over 330 feet (100m) are affected by the additional weight of the hoist rope.

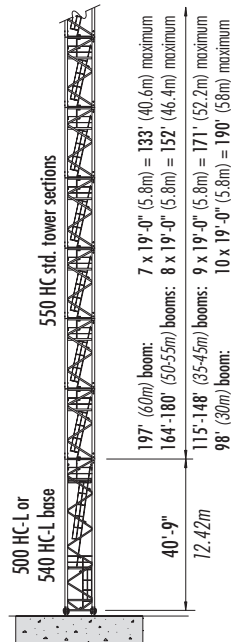


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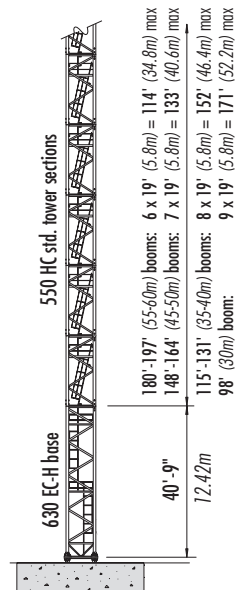
Tower configurations



Configuration I
on 550 HC or 550 HC-L Tower

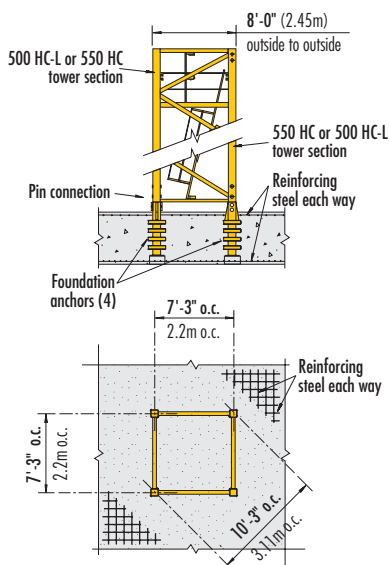


Configuration II
with 550 HC Tower on
500 HC-L or 540 HC-L Base

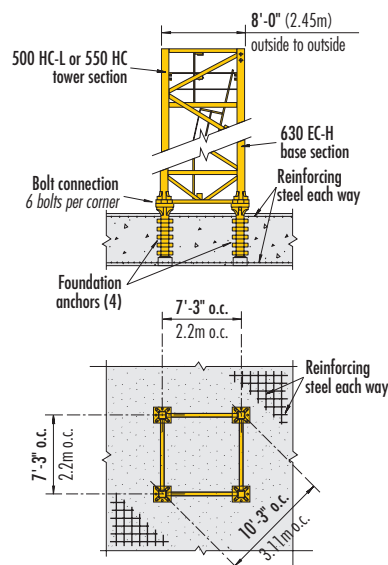


Configuration III
with 550 HC Tower on
630 EC-H Base

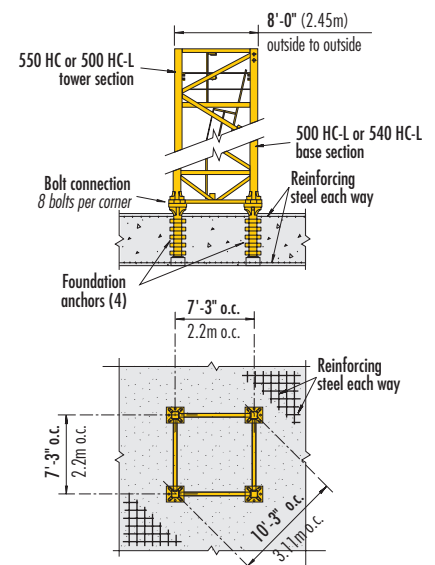
Foundation details *on concrete footing*



with 550 HC or 500 HC-L Tower



with 500 HC-L
or 540 HC-L Base Section



with 630 EC-H
Base Section

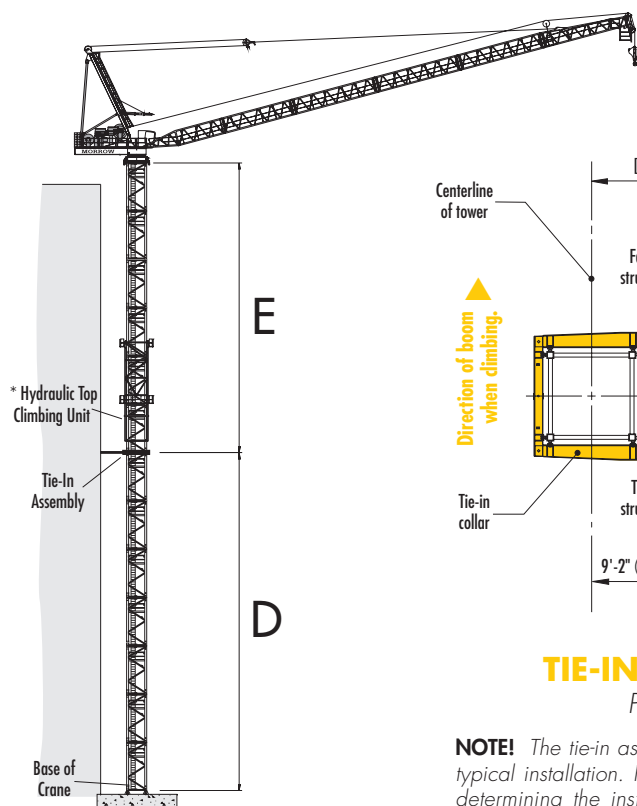


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Tie-in configurations

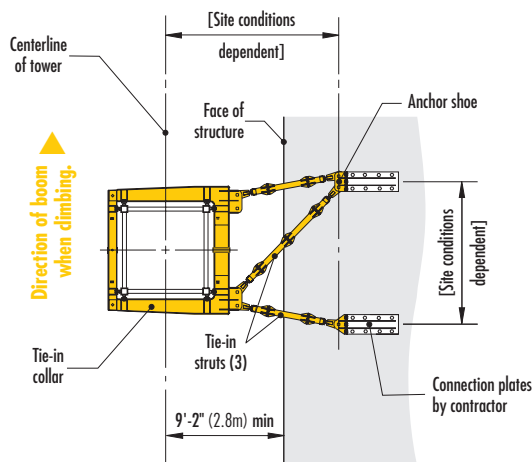
IMPORTANT! Please consult crane operation manual before erecting, operating, climbing, servicing and dismantling.

* Lower the top climbing unit to the uppermost tie-in prior to operating crane at maximum tower configuration.



TOP CLIMBING with 550 HC Tower

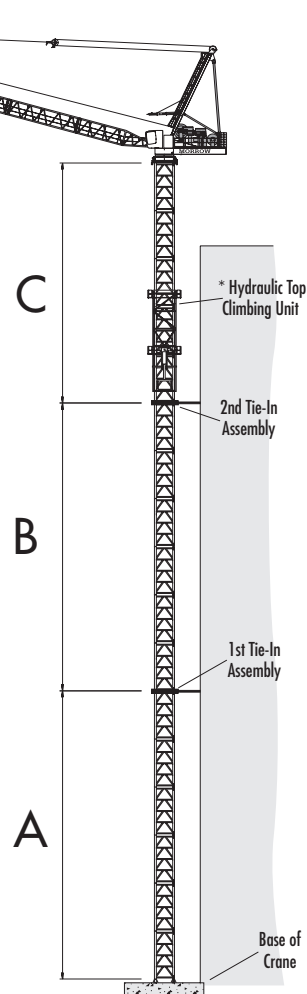
Tied to structure with 1 tie-in



TIE-IN ASSEMBLY

Plan View

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. Please contact Morrow for information regarding dimensions, reaction forces and tie-in locations.



TOP CLIMBING with 550 HC Tower

Tied to structure with 2 tie-ins

Tower sections required with 1 tie-in**

Boom Length	197' (60m)	180' (55m)	164' (50m)	148' (45m)	131' (40m)	115' (35m)	98' (30m)
Above top tie-in (E)	7 max-3 min	7 max-3 min	8 max-3 min	8 max-3 min	9 max-3 min	9 max-3 min	10 max-3 min
Base to 1st tie-in (D)	9 max-4 min	9 max-4 min	9 max-4 min	9 max-4 min	9 max-4 min	9 max-4 min	9 max-4 min

Tower sections required with 2 or more tie-ins**

Boom Length	197' (60m)	180' (55m)	164' (50m)	148' (45m)	131' (40m)	115' (35m)	98' (30m)
Above top tie-in (C)	6 max-3 min	7 max-3 min	7 max-3 min	8 max-3 min	8 max-3 min	9 max-3 min	9 max-3 min
Between tie-ins (B)	9 max-4 min	9 max-4 min	9 max-4 min	9 max-4 min	9 max-4 min	9 max-4 min	9 max-4 min
Base to 1st tie-in (A)							

****NOTE!** Charts above apply only to 355HC-L12 configurations with 550 HC tower. Other tower configurations available. Restrictions may apply; contact Morrow engineering.



LIEBHERR 355 HC-L 12

Hoist Speed and Capacity

Hoist Unit	WiW 300 VZ 405	1-Part Line			
147 hp (110 kW) AC hoist unit Variable frequency drive (VFD) 3-speed gearbox Electromagnetic gear shifting Lebus™ drum		Gear	Capacity	Hook Speed	Capacity
		1	up to 26,460 lbs	@ 148 fpm	up to 12 000 kg
			up to 11,680 lbs	@ 272 fpm	up to 5 300 kg
		2	up to 13,890 lbs	@ 256 fpm	up to 6 300 kg
			up to 4,630 lbs	@ 472 fpm	up to 2 100 kg
		3	up to 6,610 lbs	@ 430 fpm	up to 3 000 kg
			up to 660 lbs	@ 787 fpm	up to 300 kg
		2-Part Line			
		1	up to 52,910 lbs	@ 75 fpm	up to 24 000 kg
			up to 24,690 lbs	@ 138 fpm	up to 11 200 kg
		2	up to 29,100 lbs	@ 128 fpm	up to 13 200 kg
			up to 12,350 lbs	@ 236 fpm	up to 5 600 kg
		3	up to 15,650 lbs	@ 213 fpm	up to 7 100 kg
			up to 5,070 lbs	@ 394 fpm	up to 2 300 kg

NOTE! Capacities and hook speeds indicated will vary depending on the amount of hoist rope installed. This crane model may be equipped with a hoist unit other than that specified in the data above. To verify, check the serial number of the crane and refer to the Liebherr 355 HC-L 12 Operation Manual for additional information.

Motor Information

Drive Unit	Horsepower	Kilowatts	Speed
Luffing WiW 300 HZ 402 (VFD)	147 hp	110 kW	1.8 min *
Swing DRW 180 AZ 415 (VFD)	2 x 10 hp	2 x 7.5 kW	0.7 rpm
Travelling	Information available upon request		

* **NOTE!** Main working range (15° - 75°).

Power Requirements

- 480 V phase-phase, 277 V each phase to ground with 120° phase shift between phases. Do not use Open Delta transformer.
- 3-phase, 60 Hz power supply plus ground wire.
- Static: 300 Amperes (Power requirements for traveling crane available upon request).

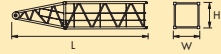
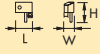
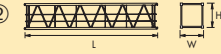
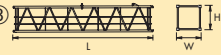
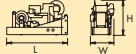
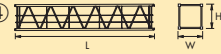
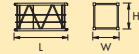
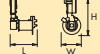
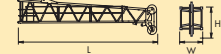
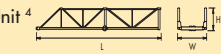
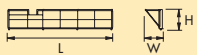
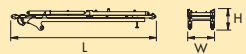
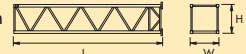
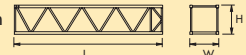
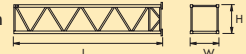
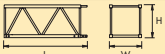
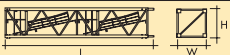
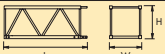
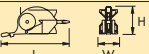
Counterweights

Boom Length	197' — 131' (60m — 40m)	115' (35m)	98' (30m)
Number of steel blocks required	7 x ① + 1 x ② + 1 x ③	7 x ① + 1 x ②	6 x ① + 1 x ② + 1 x ③
Total weight	92,810 lbs	86,420 lbs	82,010 lbs
Total weight	42 100 kg	39 200 kg	37 200 kg

NOTE! Weight of the steel counterweight blocks are: ①=10,800 lbs (4 900 kg), ②=10,800 lbs (4 900 kg) and ③=6,390 lbs (2 900 kg) each. 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 300 VZ 405 and luffing unit WiW 300 HZ 402. If another hoist unit is installed, refer to the 355 HC-L 12 Operation Manual or contact Morrow Equipment for additional information.

Specifications subject to change without prior notice.

**LIEBHERR 355 HC-L 12**

Description	Dimensions L x W x H	Weight	Description	Dimensions L x W x H	Weight
Slewing Ring Support 	9'-6" x 8'-1" x 7'-1" 2.9m x 2.47m x 2.15m	9,410 lbs 4 270 kg	Built Section ① 611 	32'-6" x 6'-3" x 6'-3" 9.91m x 1.9m x 1.9m	5,620 lbs 2 550 kg
Connection Brackets (4) (each) 	3'-8" x 2'-4" x 10" 1.13m x 0.7m x .25m	470 lbs 215 kg	Boom Section ② 612 	29'-4" x 6'-3" x 6'-11" 8.95m x 1.9m x 2.1m	4,670 lbs 2 120 kg
Slewing Platform ¹ plus swing motors 	9'-8" x 7'-5" x 6'-1" 2.95m x 2.27m x 1.85m	16,250 lbs 7 370 kg	Boom Section ③ 621 	34'-9" x 6'-3" x 6'-11" 10.6m x 1.9m x 2.1m	4,960 lbs 2 250 kg
Machine Deck with electrical panels 	22'-8" x 7'-3" x 8'-0" 6.9m x 2.22m x 2.45m	19,180 lbs 8 700 kg	Boom Section ④ 631 	34'-9" x 6'-3" x 6'-3" 10.6m x 1.9m x 1.9m	3,640 lbs 1 650 kg
Hoist gear ² 147 hp (110 kW) 	10'-6" x 8'-0" x 5'-9" 3.2m x 2.45m x 1.75m	12,570 lbs 5 700 kg	Boom Section ⑤ 622 	18'-0" x 6'-3" x 6'-3" 5.5m x 1.9m x 1.9m	1,980 lbs 900 kg
Luffing Gear ² 147 hp (110 kW) 	9'-2" x 7'-3" x 5'-3" 2.8m x 2.2m x 1.6m	9,700 lbs 4 400 kg	Tip Section ⑥ 641 	36'-5" x 6'-7" x 6'-11" 11.1m x 2m x 2.1m	6,720 lbs 3 050 kg
Operator's Cab with access platform 	17'-5" x 6'-3" x 8'-5" 5.3m x 1.9m x 2.57m	3,640 lbs 1 650 kg	Top Climbing Unit ⁴ Panels (2) 	41'-4" x 9'-8" x 5'-9" 12.6m x 2.95m x 1.75m	20,000 lbs 9 070 kg
Platforms (3) 	18'-1" x 3'-7" x 6'-1" 5.5m x 1.1m x 1.85m	1,650 lbs 750 kg	Top Climbing Unit ⁴ Hydraulics/etc. 	— —	2,420 lbs 1 100 kg
Gantry ³ (complete) 	39'-3" x 7'-7" x 4'-11" 11.97m x 2.3m x 1.5m	12,200 lbs 5 535 kg	Boom Assembly Part 1 ⁵ 197-ft (60m) boom ①②③	95'-2" x 6'-3" x 6'-11" 29m x 1.9m x 2.1m	20,060 lbs 9 100 kg
Base Section 630 EC-H 	40'-9" x 8'-10" x 8'-10" 12.42m x 2.68m x 2.68m	31,010 lbs 14 065 kg	Boom Assembly Part 2 ⁶ 197-ft (60m) boom ④④⑥	104'-4" x 6'-7" x 6'-11" 31.8m x 2m x 2.1m	16,090 lbs 7 300 kg
Base Section 500 HC-L 	40'-9" x 8'-10" x 8'-10" 12.42m x 2.68m x 2.68m	37,850 lbs 17 170 kg	Boom Assembly Part 1 ⁶ 180-ft (55m) – 98-ft (30m) booms ①②	61'-4" x 6'-3" x 6'-11" 18.7m x 1.9m x 2.1m	13,890 lbs 6 300 kg
Base Section 540 HC-L 	40'-9" x 8'-10" x 8'-10" 12.42m x 2.68m x 2.68m	31,880 lbs 14 460 kg	Boom Assembly Part 2 ⁶ 180-ft (55m) boom ③④⑤⑥	121'-5" x 6'-7" x 6'-11" 37m x 2m x 2.1m	19,840 lbs 9 000 kg
Std Tower Section 550 HC 	20'-7" x 8'-0" x 8'-0" 6.28m x 2.45m x 2.45m	14,280 lbs 6 480 kg	Boom Assembly Part 2 ⁶ 164-ft (50m) boom ③④⑥	104'-4" x 6'-7" x 6'-11" 31.8m x 2m x 2.1m	17,420 lbs 7 900 kg
Long 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	Boom Assembly Part 2 ⁶ 148-ft (45m) boom ③⑤⑥	87'-3" x 6'-7" x 6'-11" 26.6m x 2m x 2.1m	15,650 lbs 7 100 kg
Tower Section 500 HC-L 	20'-7" x 8'-0" x 8'-0" 6.28m x 2.45m x 2.45m	17,900 lbs 8 120 kg	Boom Assembly Complete ⁷ 131-ft (40m) boom ①②③⑥	131'-11" x 6'-7" x 6'-11" 40.2m x 2m x 2.1m	26,240 lbs 11 900 kg
Hook Block 	7'-10" x 4'-9" x 2'-8" 2.4m x 1.45m x 0.8m	3,420 lbs 1 550 kg	Boom Assembly Complete ⁷ 115-ft (35m) boom ①②⑤⑥	114'-10" x 6'-7" x 6'-11" 35m x 2m x 2.1m	23,150 lbs 10 500 kg
Luffing Rope Sheave Block 	4'-11" x 3'-11" x 3'-7" 1.5m x 1.2m x 1.1m	1,320 lbs 600 kg	Boom Assembly Complete ⁷ 98-ft (30m) boom ①②⑥	97'-9" x 6'-7" x 6'-11" 29.8m x 2m x 2.1m	20,500 lbs 9 300 kg

NOTE! Weights and dimensions are approximate. Scale components before lifting. Consult operation manual before erecting, operating, servicing and dismantling crane.

¹ Slewing platform can be split into four parts. (I.e., slewing platform, slewing ring and two swing drives)

² Does not include wire rope.

³ Gantry (boom retaining frame) can be split into component parts.

⁴ 550 HC top climbing unit complete includes front and rear panel, hydraulic system, ladders and platforms with a total weight of 22,420 lbs (10 170 kg).

⁵ Boom assembly Part 1 includes boom sections 1, 2 and 3 and erection wire rope for the 197-ft (60m) boom. For all other booms, Part 1 includes boom sections 1 and 2 plus erection rope.

⁶ Boom assembly Part 2 includes boom sections and pendent bars.

⁷ Complete boom assemblies can be split into two parts.