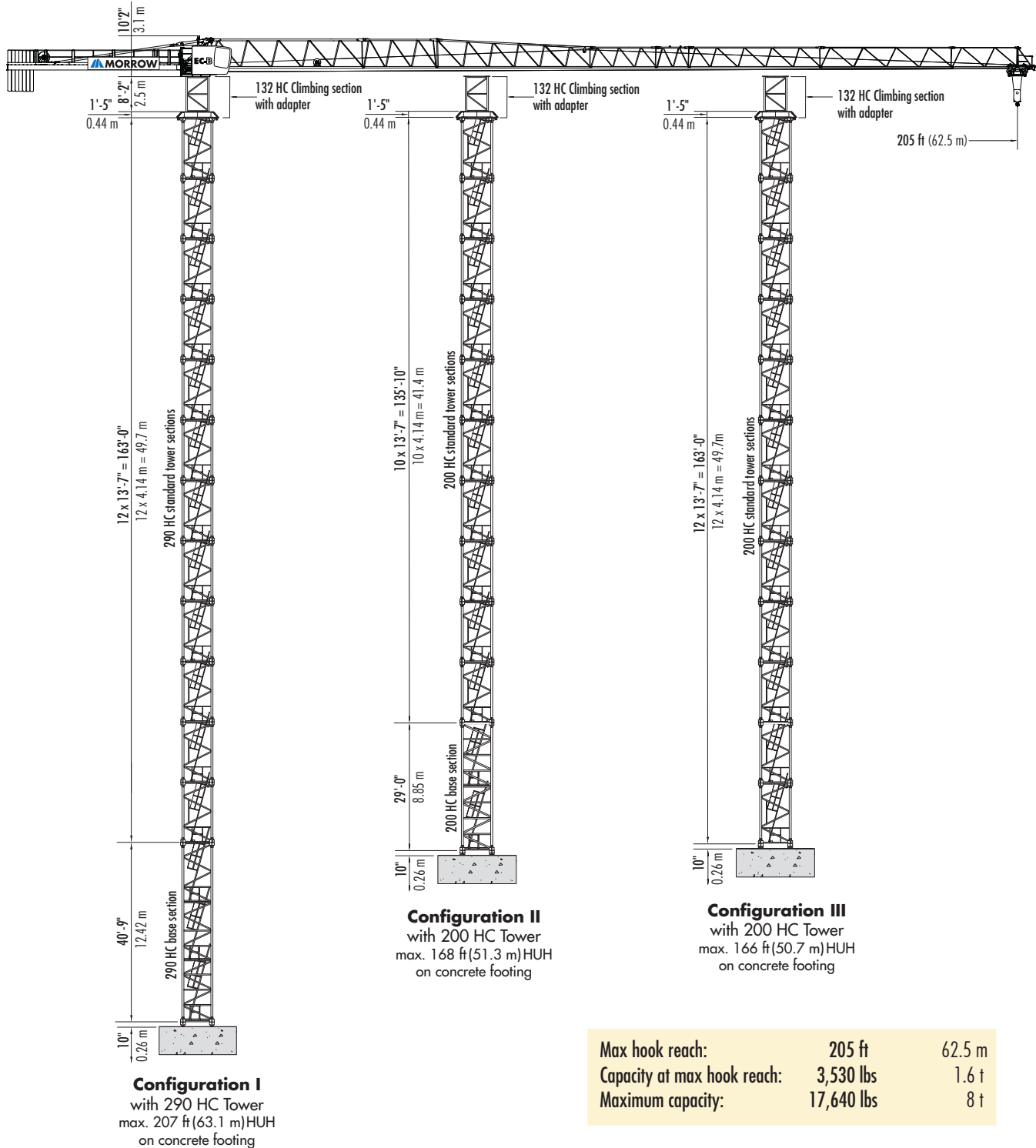
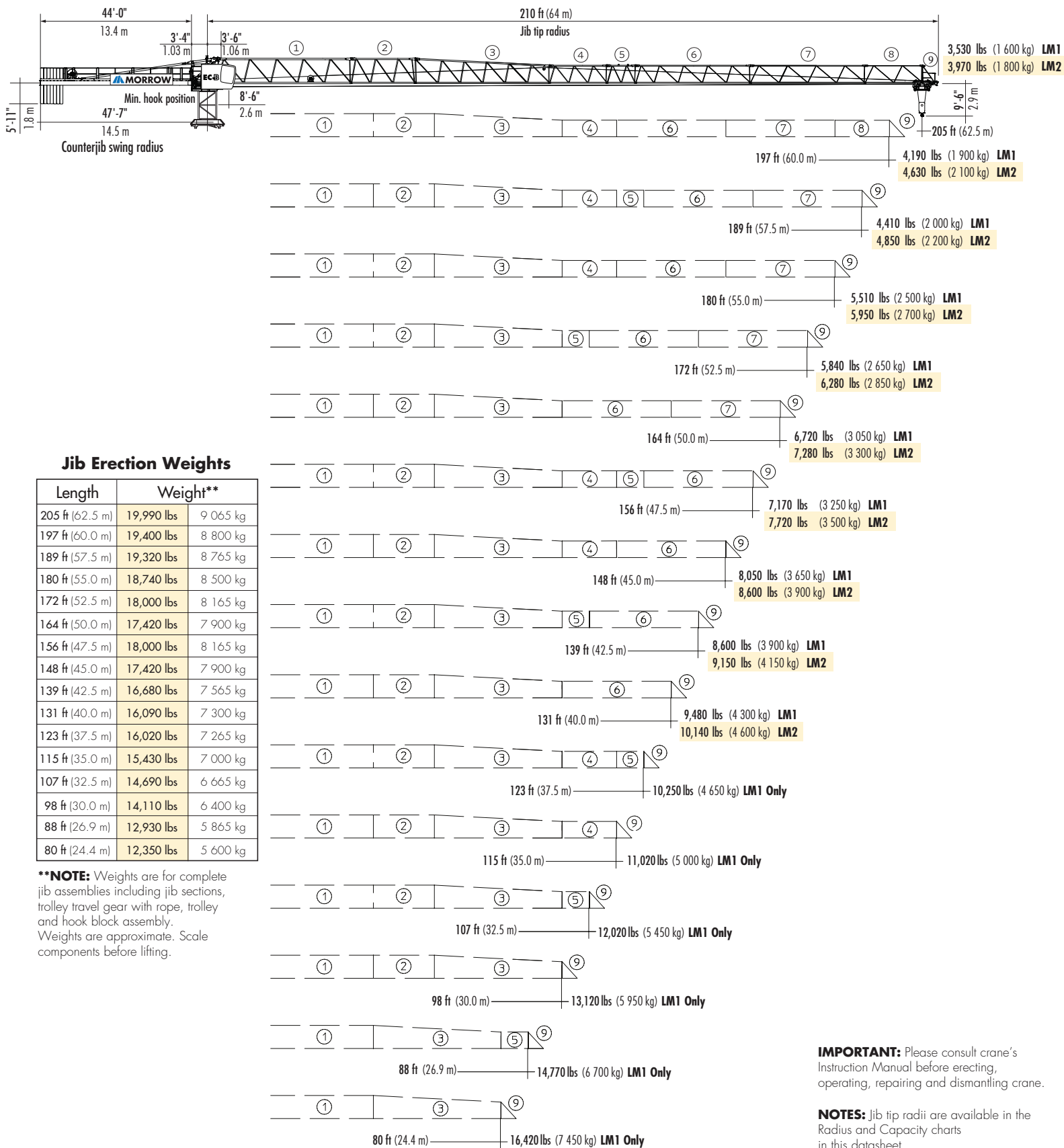


172 EC-B 8 Litronic® LIEBHERR Flat-Top Tower Crane



172 EC-B 8 Litronic®



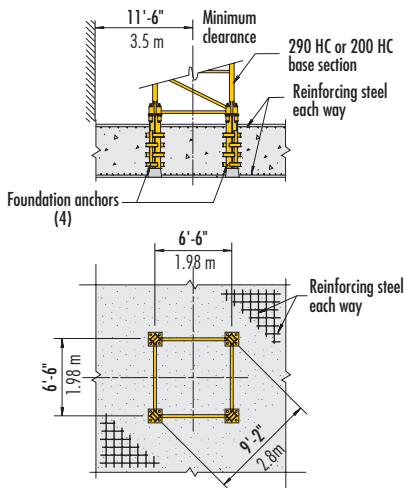
Hook Heights

Configuration I					
290 HC tower sections on 290 HC undercarriage or base section					
		static concrete footing	rail-travelling undercarriage		
No. of Tower Sections	Element Type	feet	meters	feet	meters
0	290HC BTS	44	13.4	59	18.1
1	290HC STS	58	17.6	73	22.3
2	290HC STS	71	21.7	87	26.4
3	290HC STS	85	25.8	100	30.5
4	290HC STS	98	30.0	114	34.7
5	290HC STS	112	34.1	127	38.8
6	290HC STS	126	38.3	141	43.0
7	290HC STS	139	42.4	155	47.1
8	290HC STS	153	46.5	168	51.3
9	290HC STS	166	50.7	182	55.4
10	290HC STS	180	54.8	195*	59.5*
11	290HC STS	194*	59.0*	—	—
12	290HC STS	207*	63.1*	—	—

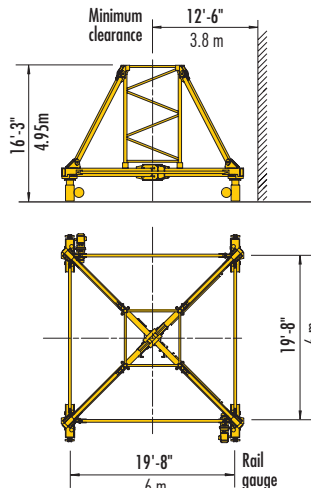
Configuration II					
200 HC tower sections on 200 HC base section or 290 HC undercarriage					
		static concrete footing	rail-travelling undercarriage		
No. of Tower Sections	Element Type	feet	meters	feet	meters
0	200HC BTS	33	9.9	48	14.6
1	200HC STS	46	14.0	61	18.7
2	200HC STS	59	18.1	75	22.8
3	200HC STS	73	22.3	89	27.0
4	200HC STS	87	26.4	102	31.1
5	200HC STS	100	30.6	116	35.3
6	200HC STS	114	34.7	129	39.4
7	200HC STS	128	38.9	143	43.5
8	200HC STS	141	43.0	157	47.7
9	200HC STS	155*	47.1*	170*	51.8*
10	200HC STS	168*	51.3*	184*	56.0*

NOTE: Alternate tower combinations possible.

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



200 HC or 290 HC Tower
concrete footing



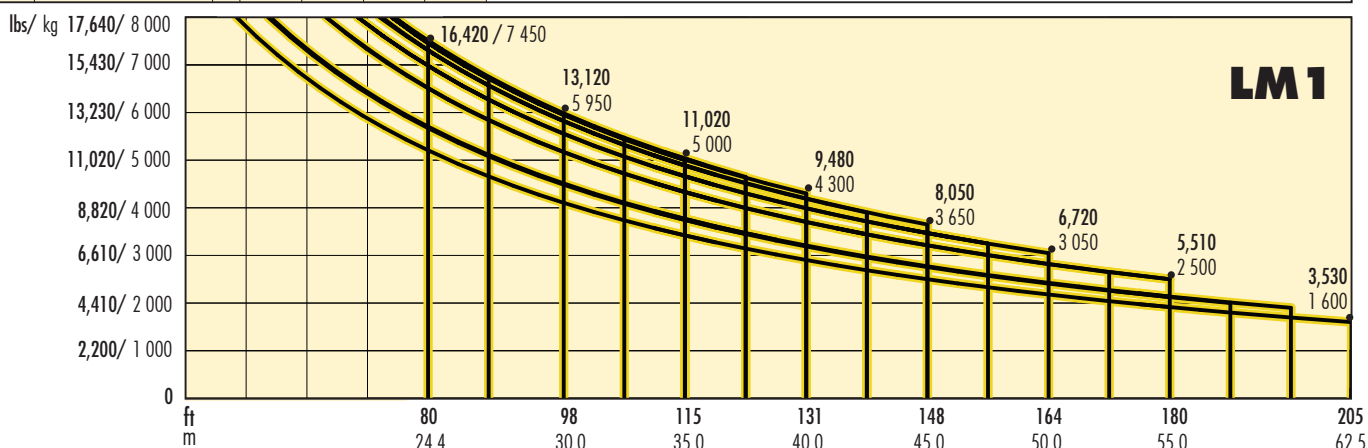
290 HC
rail-travelling undercarriage

Configuration III					
200 HC tower sections on 200 HC tower or 290 HC undercarriage					
		static concrete footing	rail-travelling undercarriage		
No. of Tower Sections	Element Type	feet	meters	feet	meters
1	200HC STS	17	5.2	32	9.8
2	200HC STS	30	9.3	46	14.0
3	200HC STS	44	13.4	59	18.1
4	200HC STS	58	17.6	73	22.3
5	200HC STS	71	21.7	87	26.4
6	200HC STS	85	25.9	100	30.5
7	200HC STS	98	30.0	114	34.7
8	200HC STS	112	34.1	127	38.8
9	200HC STS	126	38.3	141	43.0
10	200HC STS	139	42.4	155	47.1
11	200HC STS	153*	46.6*	168*	51.3*
12	200HC STS	166*	50.7*	182*	55.4*

Radius and Capacities

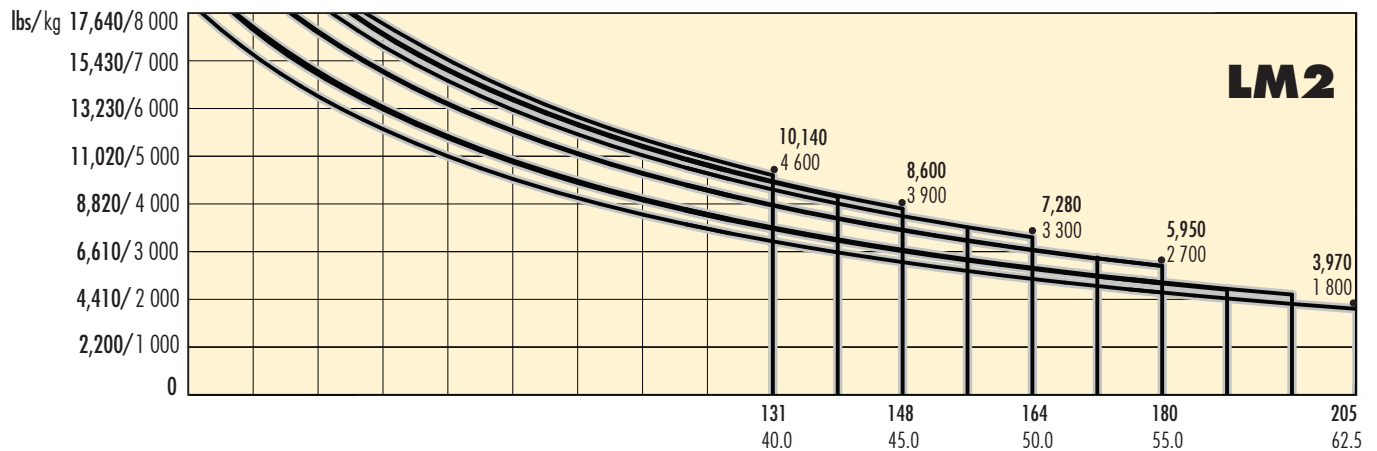
Hook Radius	Tip Radius	2-Part Line Max Capacity – Radius	ft m	52 16.0	59 18.0	69 21.0	79 24.0	89 27.0	98 30.0	107 32.5	115 35.0	121 37.0	131 40.0	139 42.5	148 45.0	156 47.5	164 50.0	172 52.5	180 55.0	189 57.5	197 60.0	205 62.5
205 ft 62.5 m	210 64.0	17,640 lbs – 54 ft 8 000 kg – 16.5 m	lbs kg	17,640 8 000	16,070 7 290	13,580 6 160	11,490 5 210	10,270 4 660	9,060 4 110	8,250 3 740	7,540 3 420	6,940 3 150	6,390 2 900	5,930 2 690	5,510 2 500	5,140 2 330	4,810 2 180	4,500 2 040	4,230 1 920	3,970 1 800	3,750 1 700	3,530 1 600
197 ft 60.0 m	202 61.5	17,640 lbs – 58 ft 8 000 kg – 17.9 m	lbs kg	17,640 8 000	17,570 7 970	14,860 6 740	12,570 5 700	11,270 5 110	9,940 4 510	9,060 4 110	8,310 3 770	7,650 3 470	7,080 3 210	6,570 2 980	6,110 2 770	5,710 2 590	5,340 2 420	5,000 2 270	4,720 2 140	4,430 2 010	4,190 1 900	
189 ft 57.5 m	194 59.0	17,640 lbs – 59 ft 8 000 kg – 17.8 m	lbs kg	17,640 8 000	17,460 7 920	14,770 6 700	12,500 5 670	11,200 5 080	9,900 4 490	9,020 4 090	8,250 3 740	7,610 3 450	7,030 3 190	6,610 3 000	6,080 2 760	5,670 2 570	5,310 2 410	5,050 2 290	4,670 2 120	4,410 2 000		
180 ft 55.0 m	185 56.5	17,640 lbs – 66 ft 8 000 kg – 20.2 m	lbs kg	17,640 8 000	17,640 8 000	16,930 7 680	14,370 6 520	12,900 5 850	11,400 5 170	10,410 4 720	9,550 4 330	8,820 4 000	8,160 3 700	7,610 3 450	7,080 3 210	6,640 3 010	6,220 2 820	5,840 2 650	5,510 2 500			
172 ft 52.5 m	177 54.0	17,640 lbs – 66 ft 8 000 kg – 20.2 m	lbs kg	17,640 8 000	17,640 8 000	16,910 7 670	14,350 6 510	12,880 5 840	11,400 5 170	10,410 4 720	9,550 4 330	8,950 4 060	8,160 3 700	7,580 3 440	7,080 3 210	6,610 3 000	6,220 2 820	5,840 2 650				
164 ft 50.0 m	169 51.5	17,640 lbs – 70 ft 8 000 kg – 21.5 m	lbs kg	17,640 8 000	17,640 8 000	17,640 8 000	15,390 6 980	13,820 6 270	12,240 5 550	11,180 5 070	10,270 4 660	9,480 4 300	8,800 3 990	8,180 3 710	7,650 3 470	7,160 3 250	6,720 3 050					
156 ft 47.5 m	161 49.0	17,640 lbs – 70 ft 8 000 kg – 21.5 m	lbs kg	17,640 8 000	17,640 8 000	17,640 8 000	15,410 6 990	13,820 6 270	12,560 5 560	11,200 5 080	10,270 4 660	9,500 4 310	8,800 3 990	8,200 3 720	7,650 3 470	7,160 3 250						
148 ft 45.0 m	153 46.5	17,640 lbs – 73 ft 8 000 kg – 22.5 m	lbs kg	17,640 8 000	17,640 8 000	17,640 8 000	16,140 7 320	14,480 6 570	12,830 5 820	11,730 5 320	10,780 4 890	9,960 4 520	9,260 4 200	8,620 3 910	8,050 3 650							
139 ft 42.5 m	144 44.0	17,640 lbs – 73 ft 8 000 kg – 22.4 m	lbs kg	17,640 8 000	17,640 8 000	17,640 8 000	16,120 7 310	14,460 6 560	12,830 5 820	11,730 5 320	10,780 4 890	9,940 4 510	9,240 4 190	8,600 3 900								
131 ft 40.0 m	136 41.5	17,640 lbs – 75 ft 8 000 kg – 23.0 m	lbs kg	17,640 8 000	17,640 8 000	17,640 8 000	16,510 7 490	14,840 6 730	13,160 5 970	12,010 5 450	11,050 5 010	10,210 4 630	9,480 4 300									
123 ft 37.5 m	128 39.0	17,640 lbs – 75 ft 8 000 kg – 23.0 m	lbs kg	17,640 8 000	17,640 8 000	17,640 8 000	16,560 7 510	14,880 6 750	13,210 5 990	12,060 5 470	11,090 5 030	10,250 4 650										
115 ft 35.0 m	120 36.5	17,640 lbs – 75 ft 8 000 kg – 22.9 m	lbs kg	17,640 8 000	17,640 8 000	17,640 8 000	16,470 7 470	14,790 6 710	13,120 5 950	11,990 5 440	11,020 5 000											
107 ft 32.5 m	112 34.0	17,640 lbs – 75 ft 8 000 kg – 22.9 m	lbs kg	17,640 8 000	17,640 8 000	17,640 8 000	16,490 7 480	14,840 6 730	13,140 5 960	12,010 5 450												
98 ft 30.0 m	103 31.5	17,640 lbs – 75 ft 8 000 kg – 22.9 m	lbs kg	17,640 8 000	17,640 8 000	17,640 8 000	16,470 7 470	14,790 6 710	13,120 5 950													
88 ft 26.9 m	93 28.4	17,640 lbs – 74 ft 8 000 kg – 22.8 m	lbs kg	17,640 8 000	17,640 8 000	17,640 8 000	16,450 7 460	14,770 6 700														
80 ft 24.4 m	85 25.9	17,640 lbs – 74 ft 8 000 kg – 22.8 m	lbs kg	17,640 8 000	17,640 8 000	17,640 8 000	16,420 7 450															

LM 1
Standard mode



Hook Radius	Tip Radius	2-Part Line Max Capacity — Radius	ft m	52 16.0	59 18.0	69 21.0	79 24.0	89 27.0	98 30.0	115 35.0	121 37.0	131 40.0	139 42.5	148 45.0	156 47.5	164 50.0	172 52.5	180 55.0	189 57.5	197 60.0	205 62.5
205 ft 62.5 m	210 64.0	17,640 lbs — 59 ft 8 000 kg — 17.9 m	lbs kg	17,640 8 000	17,590 7 980	14,880 6 750	12,830 5 820	11,240 5 100	9,960 4 520	8,330 3 780	7,780 3 530	7,050 3 220	6,590 2 990	6,130 2 780	5,730 2 600	5,360 2 430	5,030 2 280	4,720 2 140	4,450 2 020	4,210 1 910	3,970 1 800
197 ft 60.0 m	202 61.5	17,640 lbs — 63 ft 8 000 kg — 19.3 m	lbs kg	17,640 8 000	17,640 8 000	16,090 7 300	13,910 6 310	12,190 5 530	10,820 4 910	9,060 4 110	8,490 3 850	7,740 3 510	7,180 3 260	6,700 3 040	6,260 2 840	5,860 2 660	5,510 2 500	5,200 2 360	4,890 2 220	4,630 2 100	
189 ft 57.5 m	194 59.0	17,640 lbs — 63 ft 8 000 kg — 19.3 m	lbs kg	17,640 8 000	17,640 8 000	15,960 7 240	13,780 6 250	12,080 5 480	10,740 4 870	8,970 4 070	8,400 3 810	7,670 3 480	7,120 3 230	6,640 3 010	6,190 2 810	5,820 2 640	5,470 2 480	5,140 2 330	4,850 2 200		
180 ft 55.0 m	185 56.5	17,640 lbs — 71 ft 8 000 kg — 21.5 m	lbs kg	17,640 8 000	17,640 8 000	17,640 8 000	15,630 7 090	13,730 6 230	12,210 5 540	10,250 4 650	9,610 4 360	8,770 3 980	8,270 3 750	7,630 3 460	7,140 3 240	6,700 3 040	6,310 2 860	5,950 2 700			
172 ft 52.5 m	177 54.0	17,640 lbs — 70 ft 8 000 kg — 21.4 m	lbs kg	17,640 8 000	17,640 8 000	17,640 8 000	15,560 7 060	13,690 6 210	12,170 5 520	10,210 4 630	9,570 4 340	8,730 3 960	8,140 3 690	7,580 3 440	7,120 3 230	6,680 3 030	6,280 2 850				
164 ft 50.0 m	169 51.5	17,640 lbs — 76 ft 8 000 kg — 23.0 m	lbs kg	17,640 8 000	17,640 8 000	17,640 8 000	16,820 7 630	14,790 6 710	13,160 5 970	11,070 5 020	10,380 4 710	9,480 4 300	8,840 4 010	8,270 3 750	7,740 3 510	7,280 3 300					
156 ft 47.5 m	161 49.0	17,640 lbs — 75 ft 8 000 kg — 22.9 m	lbs kg	17,640 8 000	17,640 8 000	17,640 8 000	16,780 7 610	14,750 6 690	13,120 5 950	11,020 5 000	10,340 4 690	9,460 4 290	8,820 4 000	8,220 3 730	7,720 3 500						
148 ft 45.0 m	153 46.5	17,640 lbs — 78 ft 8 000 kg — 23.8 m	lbs kg	17,640 8 000	17,640 8 000	17,640 8 000	17,460 7 920	15,340 6 960	13,670 6 200	11,510 5 220	10,800 4 900	9,880 4 480	9,190 4 170	8,600 3 900							
139 ft 42.5 m	144 44.0	17,640 lbs — 77 ft 8 000 kg — 23.6 m	lbs kg	17,640 8 000	17,640 8 000	17,640 8 000	17,370 7 880	15,280 6 930	13,600 6 170	11,440 5 190	10,740 4 870	9,810 4 450	9,150 4 150								
131 ft 40.0 m	136 41.5	17,640 lbs — 80 ft 8 000 kg — 24.3 m	lbs kg	17,640 8 000	17,640 8 000	17,640 8 000	17,640 8 000	15,760 7 150	14,020 6 360	11,820 5 360	11,090 5 030	10,140 4 600									

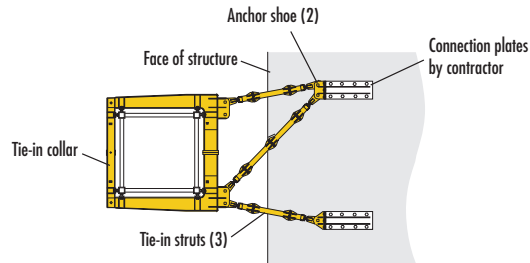
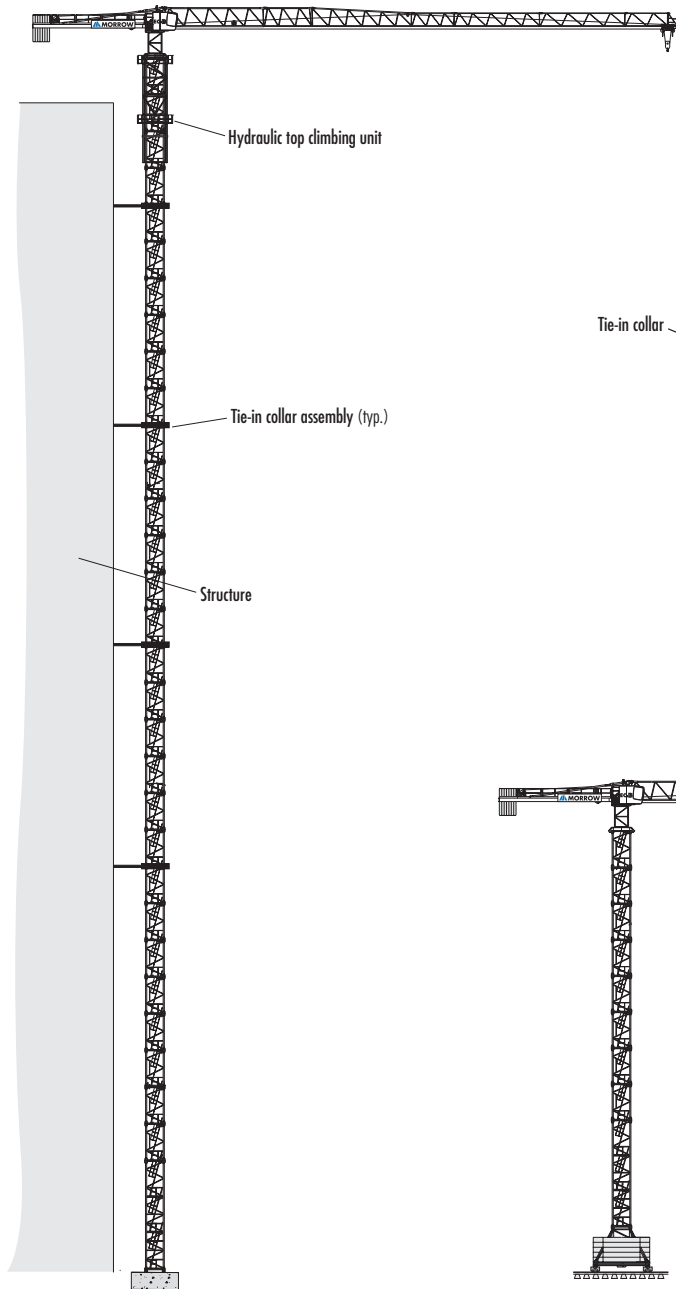
LM2
Heavy lift mode



IMPORTANT: Litronic cranes are equipped with Liebherr's state of the art PLC system that provides precise monitoring, control and coordination of all cranes functions. This feature also permits a load increase in the heavy lift mode (**LM2**). Contact Morrow for more information regarding the many features of the 172 EC-B 8 Litronic tower crane.

Alternate Configurations

IMPORTANT: Configurations shown on this page are for illustrative purposes only. Actual configuration dependent on job site specific criteria. See instruction manual or contact MORROW for information.



TIE-IN ASSEMBLY
(Top climbing tied to structure)

TOP CLIMBING

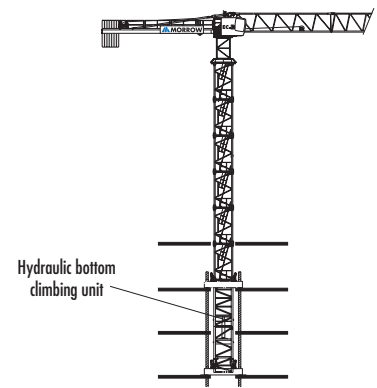
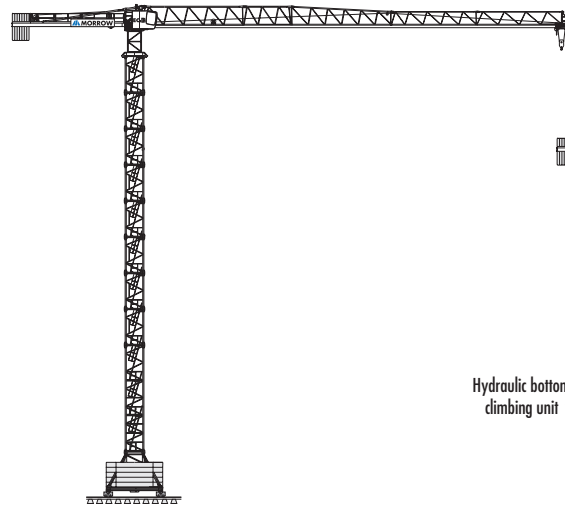
(Climbing tower installed)

Top climbing crane configuration can be used when freestanding crane or when tying crane to structure.

RAIL TRAVELING or STATIC

(with undercarriage)

Rail traveling crane configuration offers convenience of greater hook coverage on job site.



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.

Hoist Speed and Capacity

LM1

Hoist Unit		WiW 260 MZ 419		2-Part Line					
60 hp (45 kW) AC hoist unit Variable frequency drive 1-speed planetary gearbox	4L113	Speed	Capacity		Line Speed		Capacity	Line Speed	
		1	up to 17,640 lbs		@	0 - 95 fpm	up to 8 000 kg	@	0 - 29 m/min
			up to 1,410 lbs		@	0 - 574 fpm	up to 640 kg	@	0 - 175 m/min
			NOTE: Capacities and line 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 172 EC-B 8 instruction manual for additional information.						

Motor Information

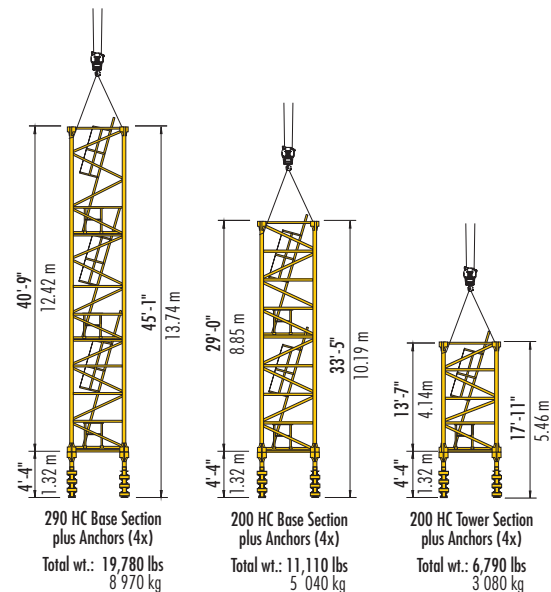
Drive Unit	Horsepower	Kilowatts	Speed	
Trolley (VFD)	7.4 hp	5.5 kW	0 - 328 fpm	0 - 100 m/min
Swing (VFD)	10 hp	7.5 kW	0.8 rpm	
Traveling (290 HC)	2 x 10 hp	2 x 7.5 kW	82 fpm	25 m/min

NOTE: VFD = variable frequency drive.

Counterweight

Jib	Block Arrangement						Weight	
205 ft (62.5 m)	A	A	A	A	A	A	38,580 lbs	17 500 kg
197 ft (60.0 m)	A	A	A	A	A	B	36,600 lbs	16 600 kg
189 ft (57.5 m)	A	A	A	A	A	B	36,600 lbs	16 600 kg
180 ft (55.0 m)	A	A	A	A	A	E	34,280 lbs	15 550 kg
172 ft (52.5 m)	A	A	A	A	A	B	32,300 lbs	14 650 kg
164 ft (50.0 m)	A	A	A	A	B	B	30,310 lbs	13 750 kg
156 ft (47.5 m)	A	A	A	A	A	B	32,300 lbs	14 650 kg
148 ft (45.0 m)	A	A	A	A	B	B	30,310 lbs	13 750 kg
139 ft (42.5 m)	A	A	A	A	A	E	28,770 lbs	13 050 kg
131 ft (40.0 m)	A	A	A	A	B	E	26,790 lbs	12 150 kg
123 ft (37.5 m)	A	A	A	A	B	E	26,790 lbs	12 150 kg
115 ft (35.0 m)	A	A	A	A	E	E	24,470 lbs	11 100 kg
107 ft (32.5 m)	A	A	A	A	E		23,260 lbs	10 550 kg
98 ft (30.0 m)	A	A	A	B	E		21,270 lbs	9 650 kg
88 ft (26.9 m)	A	A	A	E	E		18,960 lbs	8 600 kg
80 ft (24.4 m)	A	A	A				16,530 lbs	7 500 kg

A block = 5,510 lbs (2 500 kg); B block = 3,530 lbs (1 600 kg), and E block = 1,210 lbs (550 kg).



BASE ASSEMBLY
Installation weights

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: 125 Amperes

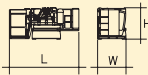
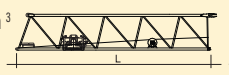
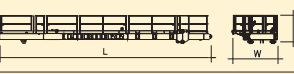
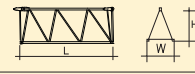
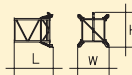
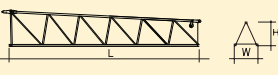
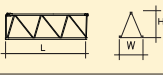
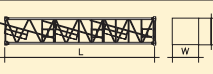
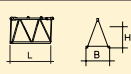
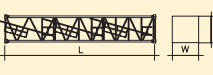
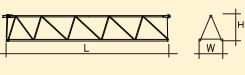
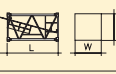
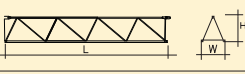
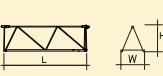
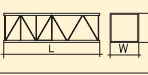
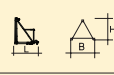
NOTES:

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 100kW. 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 172 EC-B 8 Litronic Instruction Manual. For additional information, contact MORROW. All rights are reserved.

Component List

Description	Dimensions L x W x H	Wt.	Description	Dimensions L x W x H	Wt.
Slewing Assembly (Complete) ¹	 18'-1" x 7'-7" x 8'-3" 5.52 m x 2.32 m x 2.52 m	17,090 lbs 7 750 kg	Jib Butt Section ³ ① 611	 39'-2" x 4'-11" x 8'-2" 11.95 m x 1.49 m x 2.50 m	8,050 lbs 3 650 kg
Counterjib (Compl) ²	 44'-4" x 9'-4" x 5'-10" 13.50 m x 2.85 m x 1.77 m	15,430 lbs 7 000 kg	Jib Intermediate Section ② 621	 19'-2" x 3'-11" x 7'-6" 5.84 m x 1.20 m x 2.28 m	1,980 lbs 900 kg
Climbing Section (132 HC with 200/290 HC adapter)	 10'-5" x 9'-3" x 8'-11" 3.18 m x 2.82 m x 2.72 m	5,840 lbs 2 650 kg	Jib Intermediate Section ③ 622	 39'-1" x 3'-11" x 7'-5" 11.92 m x 1.20 m x 2.27 m	3,480 lbs 1 580 kg
Base Tower Section 200 HC	 29'-0" x 7'-7" x 7'-7" 8.85 m x 2.30 m x 2.30 m	8,960 lbs 4 065 kg	Jib Intermediate Section ④ 631	 17'-1" x 3'-11" x 5'-5" 5.21 m x 1.20 m x 1.65 m	1,300 lbs 590 kg
Base Tower Section 290 HC	 40'-9" x 7'-7" x 7'-7" 12.42 m x 2.30 m x 2.30 m	17,500 lbs 7 940 kg	Jib Intermediate Section ⑤ 639	 8'-9" x 3'-11" x 5'-5" 2.72 m x 1.20 m x 1.69 m	584 lbs 265 kg
Long Tower Section 290 HC	 40'-9" x 7'-7" x 7'-7" 12.42 m x 2.30 m x 2.30 m	12,720 lbs 5 770 kg	Jib Intermediate Section ⑥ 632	 33'-6" x 3'-11" x 5'-5" 10.20 m x 1.20 m x 1.65 m	2,030 lbs 920 kg
Standard Tower Section 200 HC	 13'-7" x 7'-7" x 7'-7" 4.14 m x 2.30 m x 2.30 m	4,520 lbs 2 050 kg	Jib Intermediate Section ⑦ 633	 33'-6" x 3'-11" x 5'-5" 10.20 m x 1.20 m x 1.65 m	1,370 lbs 620 kg
Standard Tower Section 290 HC	 13'-7" x 7'-7" x 7'-7" 4.14 m x 2.30 m x 2.30 m	5,070 lbs 2 300 kg	Jib Intermediate Section ⑧ 634	 17'-0" x 3'-11" x 5'-5" 5.17 m x 1.20 m x 1.65 m	660 lbs 300 kg
Top Climbing Unit 290 HC	 27'-6" x 8'-10" x 9'-11" 8.39 m x 2.68 m x 3.04 m	11,460 lbs 5 200 kg	Jib Tip Section ⑨ 641	 4'-11" x 4'-6" x 6'-1" 1.48 m x 1.36 m x 1.86 m	350 lbs 160 kg
Top Climbing Unit Hydraulic unit/Cross members	 7'-7" x 4'-1" x 3'-3" 2.30 m x 1.25 m x 1.00 m	2,540 lbs 1 150 kg	Foundation Anchor (each) 21HC290FAr	 4'-4" x 1'-2" x 1'-2" 1.32 m x 0.35 m x 0.35 m	510 lbs 230 kg

NOTE: Weights and dimensions are approximate. Scale components before lifting.

¹ Slewing gear with slewing ring support (11,700 lbs), switchbox cabinet (2,700 lbs) and cabin with platform (2,800 lbs).

² Counterjib complete includes counterjib parts one and two, hoist gear, pendent bar and guard rails. Counterjib can be broken into 2 parts for shipment via container.

³ Jib butt section complete includes jib section, trolley travel gear with rope and hook assembly.

Specifications are subject to change without prior notice. Drawings shown in this datasheet are for illustrative purposes only. Refer to the 172 EC-B 8 Litronic Instruction Manual. For additional information, contact MORROW. All rights are reserved.

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