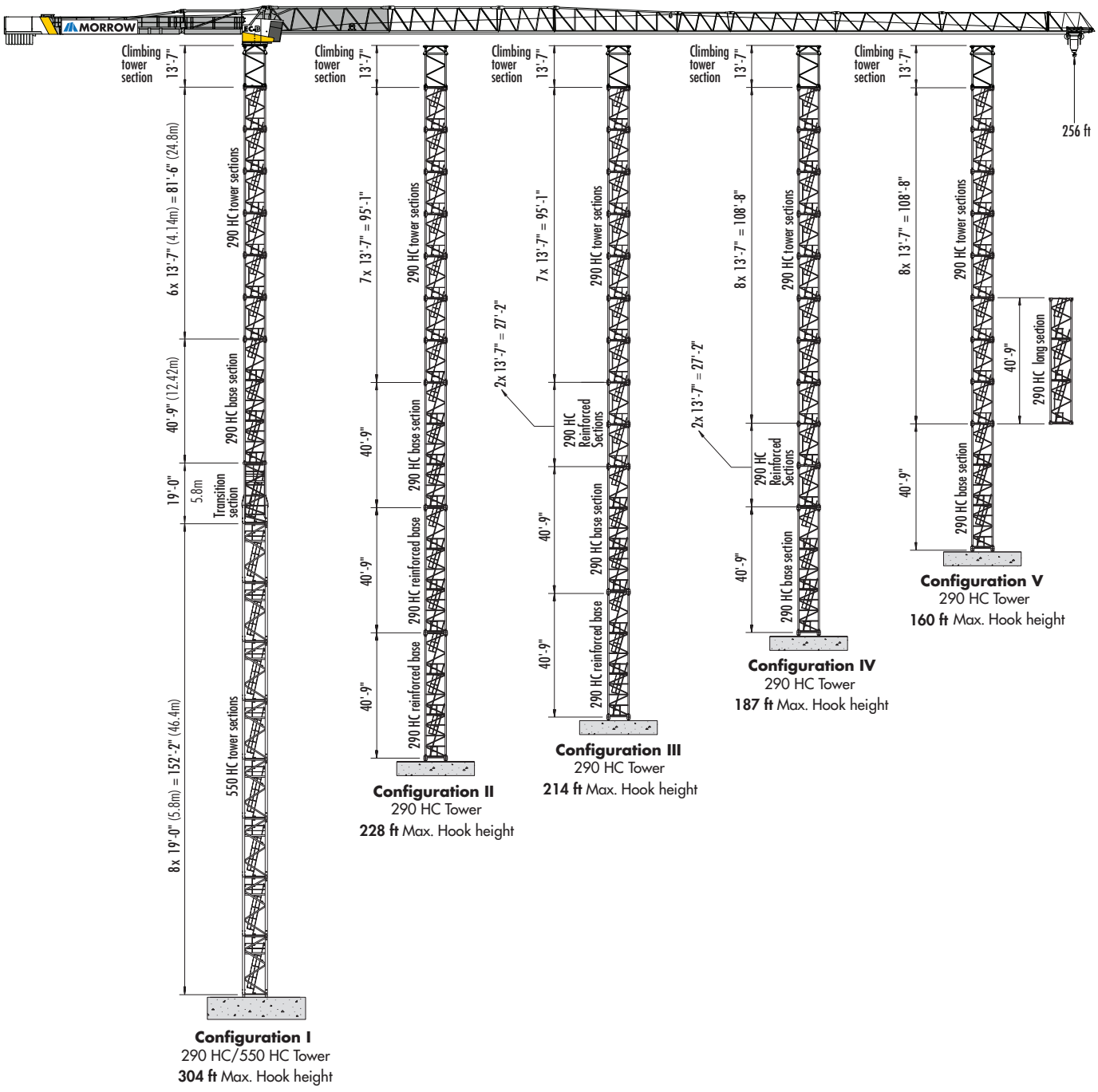
340 EC-B 12 Litronic®

LIEBHERR Flat-Top Tower Crane



Configuration I
290 HC/550 HC Tower
304 ft Max. Hook height

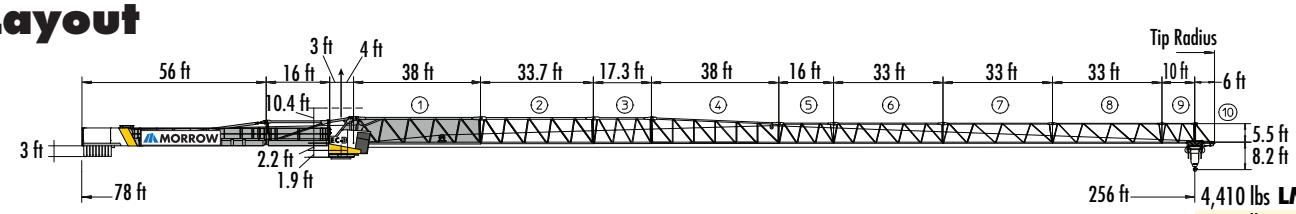
Configuration II
290 HC Tower
228 ft Max. Hook height

Configuration III
290 HC Tower
214 ft Max. Hook height

Configuration IV
290 HC Tower
187 ft Max. Hook height

Configuration V
290 HC Tower
160 ft Max. Hook height

Jib Layout



256 ft — 4,410 lbs **LM1** / 5,290 lbs **LM2**

246 ft — 5,730 lbs **LM1** / 6,830 lbs **LM2**

238 ft — 6,170 lbs **LM1** / 7,500 lbs **LM2**

230 ft — 6,830 lbs **LM1** / 8,160 lbs **LM2**

221 ft — 7,500 lbs **LM1** / 8,600 lbs **LM2**

213 ft — 8,160 lbs **LM1** / 9,480 lbs **LM2**

205 ft — 8,600 lbs **LM1** / 10,140 lbs **LM2**

197 ft — 9,480 lbs **LM1** / 11,020 lbs **LM2**

189 ft — 10,140 lbs **LM1** / 11,690 lbs **LM2**

180 ft — 11,020 lbs **LM1** / 12,790 lbs **LM2**

172 ft — 11,690 lbs **LM1** / 13,670 lbs **LM2**

164 ft — 12,790 lbs **LM1** / 14,770 lbs **LM2**

156 ft — 13,670 lbs **LM1** / 15,650 lbs **LM2**

148 ft — 14,990 lbs **LM1** / 17,200 lbs **LM2**

139 ft — 16,090 lbs **LM1** / 18,300 lbs **LM2**

131 ft — 17,420 lbs **LM1** / 20,060 lbs **LM2**

122 ft — 18,850 lbs **LM1** / 21,160 lbs **LM2**

114 ft — 20,060 lbs **LM1** / 22,050 lbs **LM2**

106 ft — 21,830 lbs **LM1** / 23,370 lbs **LM2**

97 ft — 23,810 lbs **LM1** / 24,910 lbs **LM2**

88 ft — 26,460 lbs **LM1 only**

80 ft — 26,460 lbs **LM1 only**

Jib Erection Weights

Length	Weight**
256 ft	35,650 lbs
246 ft	35,140 lbs
238 ft	34,520 lbs
230 ft	33,510 lbs
221 ft	34,770 lbs
213 ft	33,750 lbs
205 ft	33,140 lbs
197 ft	32,120 lbs
189 ft	32,800 lbs
180 ft	31,810 lbs
172 ft	31,170 lbs
164 ft	30,180 lbs
156 ft	30,090 lbs
148 ft	29,100 lbs
139 ft	28,460 lbs
131 ft	27,470 lbs
122 ft	25,970 lbs
114 ft	24,980 lbs
106 ft	22,620 lbs
97 ft	21,610 lbs
88 ft	20,130 lbs
80 ft	19,110 lbs

**NOTE: Weights are for complete jib assemblies including jib sections, trolley travel gear with rope, trolley and hook block assembly. Weights are approximate. Scale components before lifting.





Radius and Capacities

Hook Radius	Tip Radius	2-Part Line Max Capacity – Radius	ft	80	88	97	106	114	122	131	139	148	156	164	172	180	189	197	205	213	221	230	238	246	256
256 ft	261	26,460 lbs – 61 ft	lbs	19,360	17,310	15,430	14,040	12,850	11,820	10,820	10,050	9,350	8,730	8,180	7,670	7,230	6,810	6,420	6,080	5,750	5,450	5,180	4,920	4,670	4,410
246 ft	251	26,460 lbs – 69 ft	lbs	22,420	20,110	17,990	16,400	15,060	13,890	12,740	11,860	11,070	10,380	9,740	9,170	8,640	8,180	7,740	7,340	6,970	6,610	6,310	6,020	5,730	
238 ft	243	26,460 lbs – 71 ft	lbs	22,990	20,610	18,450	16,820	15,430	14,240	13,070	12,170	11,350	10,630	9,990	9,390	8,860	8,380	7,940	7,520	7,140	6,790	6,480	6,170		
230 ft	235	26,460 lbs – 72 ft	lbs	23,660	21,280	19,070	17,420	16,030	14,790	13,600	12,680	11,860	11,110	10,450	9,860	9,300	8,800	8,330	7,920	7,540	7,170	6,830			
221 ft	227	26,460 lbs – 74 ft	lbs	24,270	21,870	19,640	17,970	16,540	15,300	14,090	13,140	12,300	11,550	10,870	10,250	9,680	9,170	8,710	8,270	7,870	7,500				
213 ft	219	26,460 lbs – 75 ft	lbs	24,870	22,420	20,170	18,480	17,020	15,760	14,530	13,560	12,700	11,930	11,220	10,600	10,030	9,500	9,020	8,580	8,160					
205 ft	210	26,460 lbs – 77 ft	lbs	25,400	22,860	20,500	18,740	17,240	15,940	14,660	13,690	12,810	12,020	11,310	10,650	10,080	9,550	9,040	8,600						
197 ft	202	26,460 lbs – 79 ft	lbs	25,990	23,460	21,100	19,340	17,810	16,510	15,210	14,220	13,320	12,520	11,800	11,130	10,540	9,990	9,480							
189 ft	194	26,460 lbs – 80 ft	lbs	26,460	23,940	21,520	16,120	18,140	16,800	15,500	14,460	13,540	12,720	11,970	11,310	10,690	10,140								
180 ft	186	26,460 lbs – 82 ft	lbs	26,460	24,490	22,020	20,190	18,610	17,240	15,900	14,860	13,910	13,100	12,320	11,640	11,020									
172 ft	177	26,460 lbs – 84 ft	lbs	26,460	24,960	22,400	20,480	18,850	17,420	16,050	14,970	14,000	13,160	12,390	11,690										
164 ft	169	26,460 lbs – 85 ft	lbs	26,460	25,510	22,930	20,990	19,340	17,900	16,510	15,410	14,440	13,580	12,790											
156 ft	161	26,460 lbs – 85 ft	lbs	26,460	25,530	22,970	21,050	19,420	17,990	16,600	15,500	14,530	13,670												
148 ft	153	26,460 lbs – 87 ft	lbs	26,460	26,060	23,500	21,580	19,930	18,480	17,090	15,980	14,990													
139 ft	145	26,460 lbs – 87 ft	lbs	26,460	26,060	23,550	21,650	20,020	18,590	17,200	16,090														
131 ft	136	26,460 lbs – 89 ft	lbs	26,460	26,460	23,960	22,000	20,310	18,850	17,420															
122 ft	127	26,460 lbs – 89 ft	lbs	26,460	26,460	23,960	22,000	20,330	18,850																
114 ft	119	26,460 lbs – 89 ft	lbs	26,460	26,460	23,830	21,800	20,060																	
106 ft	111	26,460 lbs – 89 ft	lbs	26,460	26,460	23,850	21,830																		
97 ft	103	26,460 lbs – 89 ft	lbs	26,460	26,460	23,810																			
88 ft	94	26,460 lbs – 88 ft	lbs	26,460	26,460																				
80 ft	85	26,460 lbs – 80 ft	lbs	26,460																					

LM 1
Standard mode

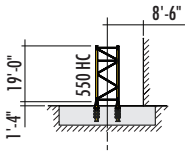
Hook Radius	Tip Radius	2-Part Line Max Capacity – Radius	ft	80	88	97	106	114	122	131	139	148	156	164	172	180	189	197	205	213	221	230	238	246	256
256 ft	261	26,460 lbs – 64 ft	lbs	20,990	18,940	17,020	15,590	14,350	13,270	12,210	11,400	10,670	10,010	9,410	8,860	8,380	7,920	7,500	7,120	6,770	6,440	6,130	5,860	5,580	5,290
246 ft	251	26,460 lbs – 72 ft	lbs	23,900	21,670	19,600	18,030	16,670	15,480	14,310	13,380	12,570	11,820	11,160	10,540	9,990	9,480	9,020	8,580	8,180	7,800	7,450	7,140	6,830	
238 ft	243	26,460 lbs – 74 ft	lbs	24,470	22,270	20,170	18,590	17,220	16,010	14,840	13,890	13,050	12,300	11,620	11,000	10,430	9,900	9,410	8,970	8,580	8,180	7,830	7,500		
230 ft	235	26,460 lbs – 75 ft	lbs	25,020	22,800	20,700	19,110	17,730	16,490	15,300	14,350	13,490	12,720	12,040	11,400	10,830	10,270	9,790	9,330	8,910	8,530	8,160			
221 ft	227	26,460 lbs – 77 ft	lbs	25,530	23,220	21,050	19,400	17,990	16,730	15,500	14,530	13,670	12,880	12,170	11,510	10,940	10,380	9,880	9,410	9,000	8,600				
213 ft	219	26,460 lbs – 79 ft	lbs	26,060	23,790	21,650	20,020	18,590	17,330	16,090	15,120	14,240	13,450	12,720	12,060	11,460	10,910	10,380	9,920	9,480					
205 ft	210	26,460 lbs – 80 ft	lbs	26,460	24,250	22,070	20,420	18,960	17,680	16,420	15,430	14,530	13,740	12,990	12,320	11,710	11,130	10,630	10,140						
197 ft	202	26,460 lbs – 82 ft	lbs	26,460	24,760	22,580	20,920	19,470	18,190	16,910	15,900	14,990	14,180	13,430	12,740	12,130	11,550	11,020							
189 ft	194	26,460 lbs – 84 ft	lbs	26,460	25,180	22,950	21,250	19,750	18,430	17,150	16,120	15,190	14,350	13,600	12,900	12,280	11,690								
180 ft	186	26,460 lbs – 85 ft	lbs	26,460	25,660	23,480	21,780	20,310	19,000	17,700	16,670	15,740	14,900	14,130	13,430	12,790									
172 ft	177	26,460 lbs – 87 ft	lbs	26,460	26,100	23,880	22,160	20,660	19,340	18,010	16,950	16,010	15,170	14,370	13,670										
164 ft	169	26,460 lbs – 89 ft	lbs	26,460	26,460	24,320	22,600	21,100	19,750	18,430	17,370	16,420	15,570	14,770											
156 ft	161	26,460 lbs – 89 ft	lbs	26,460	26,460	24,340	22,640	21,140	19,820	18,520	17,460	16,510	15,650												
148 ft	153	26,460 lbs – 90 ft	lbs	26,460	26,460	24,850	23,190	21,760	20,460	19,180	18,140	17,200													
139 ft	145	26,460 lbs – 90 ft	lbs	26,460	26,460	24,870	23,280	21,870	20,590	19,310	18,300														
131 ft	136	26,460 lbs – 92 ft	lbs	26,460	26,460	25,330	23,830	22,490	21,300	20,060															
122 ft	127	26,460 lbs – 92 ft	lbs	26,460	26,460	25,310	23,770	22,400	21,160																
114 ft	119	26,460 lbs – 92 ft	lbs	26,460	26,460	25,200	23,520	22,050																	
106 ft	111	26,460 lbs – 92 ft	lbs	26,460	26,460	25,130	23,370																		
97 ft	103	26,460 lbs – 92 ft	lbs	26,460	26,460	24,910																			
88 ft	94	26,460 lbs – 88 ft	lbs	26,460	26,460																				
80 ft	85	26,460 lbs – 80 ft	lbs	26,460																					

LM2 Load–Plus

Hook Heights

Configuration I[1]

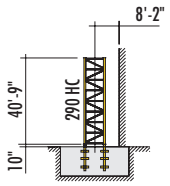
550 HC and
290 HC
tower sections
on 19'-0"
550 HC
standard tower section



No. of Tower Elements	Tower Element Type	Static Concrete Footing feet
1	550HC STS	16
2	550HC STS	35
3	550HC STS	54
4	550HC STS	73
5	550HC STS	93
6	550HC STS	112
7	550HC STS	131
8	550HC STS	150
9	Transition	169
10	290HC BS	209
11	290HC STS	223
12	290HC STS	237
13	290HC STS	250
14	290HC STS	264
15	290HC STS	277
16	290HC STS	291
17	290HC CTS	304

Configuration II

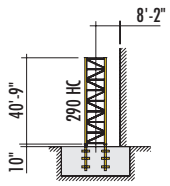
290 HC
on 40'-9"
reinforced base section



No. of Tower Elements	Tower Element Type	Static Concrete Footing feet
1	290HC RBS	38
2	290HC RBS	51
3	290HC BS	92
4	290HC STS	138
5	290HC STS	146
6	290HC STS	160
7	290HC STS	173
8	290HC STS	187
9[2]	290HC STS	201
10[2]	290HC STS	214
11[2]	290HC CTS	228

Configuration III

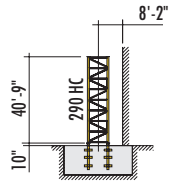
290 HC
on 40'-9"
reinforced base section



No. of Tower Elements	Tower Element Type	Static Concrete Footing feet
1	290HC RBS	38
2	290HC BS	51
3	290HC RTS	92
4	290HC RTS	105
5	290HC STS	119
6	290HC STS	132
7	290HC STS	146
8	290HC STS	160
9	290HC STS	173
10[2]	290HC STS	187
11[2]	290HC STS	200
12[2]	290HC CTS	214

Configuration IV

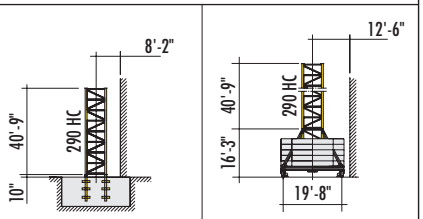
290 HC
on 40'-9"
standard base section



No. of Tower Elements	Tower Element Type	Static Concrete Footing feet
1	290HC BS	38
2	290HC RTS	51
3	290HC RTS	65
4	290HC STS	78
5	290HC STS	92
6	290HC STS	106
7	290HC STS	119
8	290HC STS	133
9	290HC STS	146
10[2]	290HC STS	160
11[2]	290HC STS	173
12[2]	290HC CTS	187

Configuration V

290 HC
on 40'-9"
standard base section



No. of Tower Elements	Tower Element Type	Static Concrete Footing feet	Rail-travelling Undercarriage feet
1	290HC BS	38	57
2	290HC STS	51	71
3	290HC STS	65	84
4	290HC STS	78	98
5	290HC STS	92	111
6	290HC STS	106	125
7	290HC STS	119	138
8[2]	290HC STS	133	152
9[2]	290HC STS	146	166
10[2]	290HC CTS	160	—

NOTES:

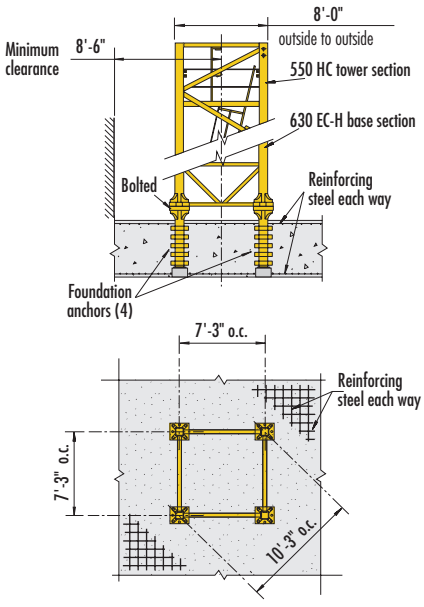
[1] Configuration is without top climbing unit.

[2] Lower top climbing unit to base of tower prior to operating crane.

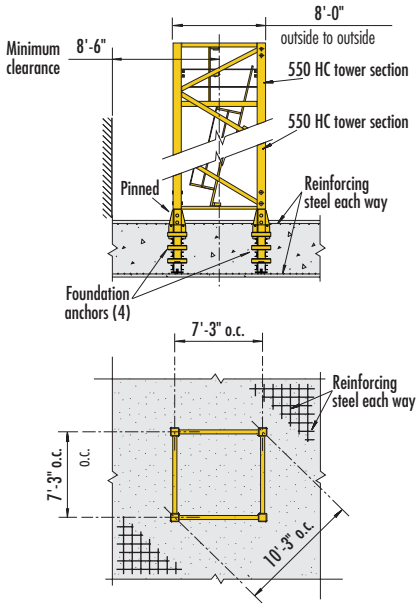
Alternate tower combinations are possible. Refer to Operation manual or contact MORROW for information.

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

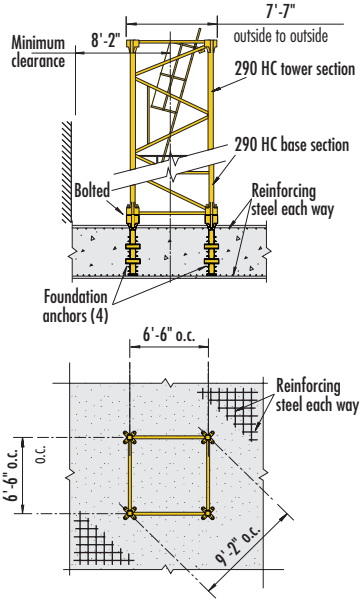
Foundation Details on concrete footing



on 630 EC-H Base Section

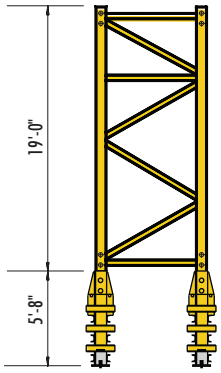


with 550 HC Tower

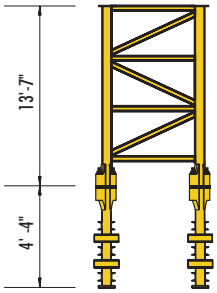


with 290 HC Tower

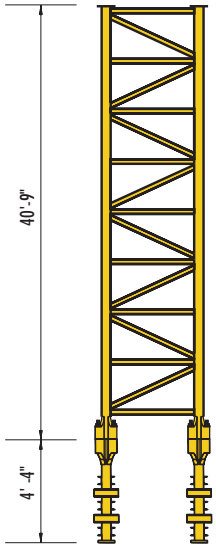
Base Assembly Installation Weights



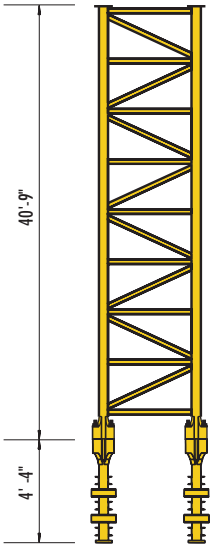
550 HC Standard Tower Section plus Anchors (4x)
Total wt: 17,815 lbs



290 HC Standard Tower Section plus Anchors (4x)
Total wt: 7,098 lbs



290 HC Base Section plus Anchors (4x)
Total wt: 19,533 lbs

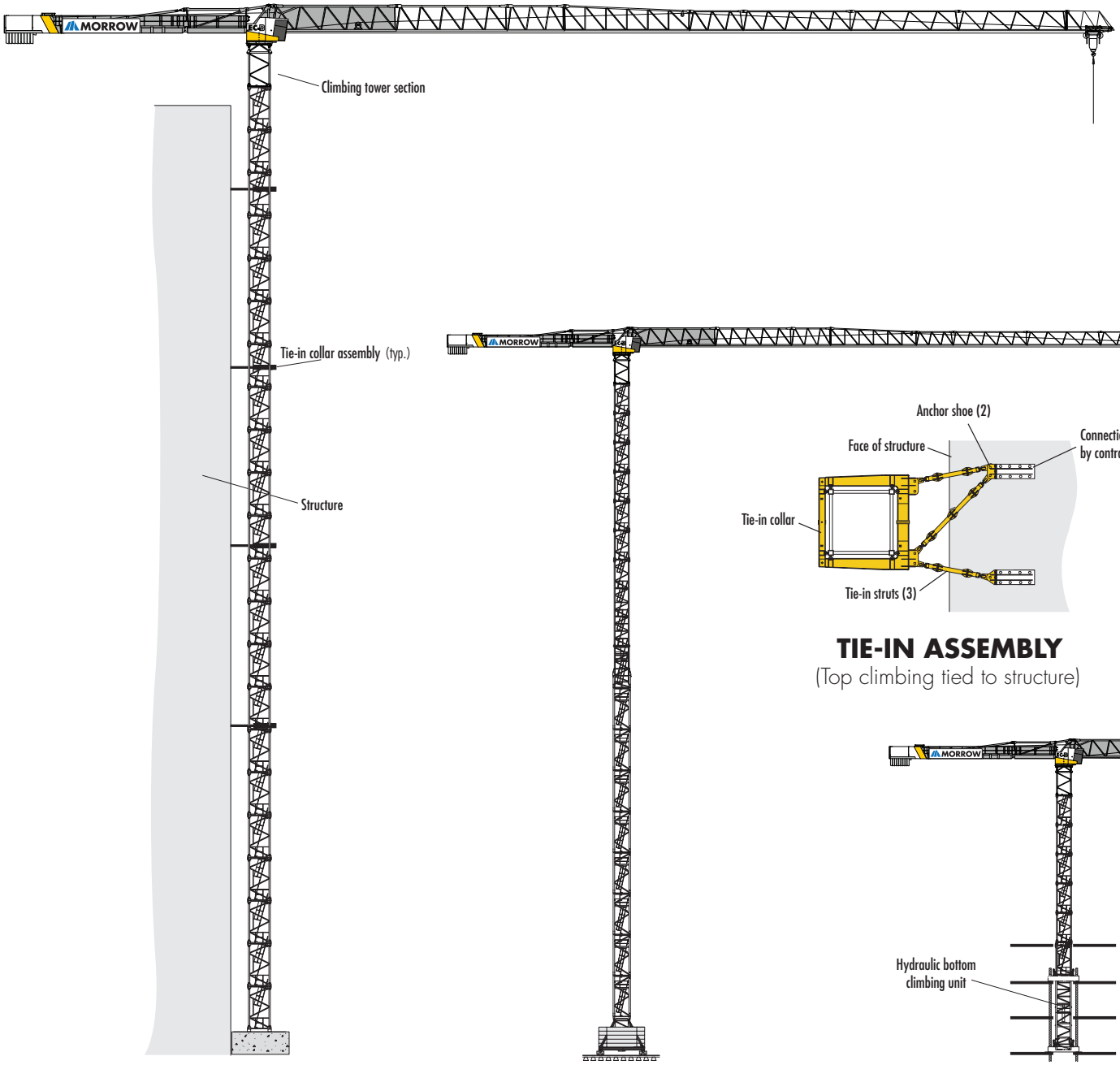


290 HC Reinforced Base Section plus Anchors (4x)
Total wt: 18,428 lbs

NOTE: For information regarding undercarriage details, rail-travelling, static undercarriages and central ballast configurations, see 340 EC-B 12 Litronic Operation Manual.

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.



TOP CLIMBING

(Climbing tower installed)

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

RAIL TRAVELING or STATIC

(with undercarriage)

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

TIE-IN ASSEMBLY

(Top climbing tied to structure)

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

Hoist Drive WiW 300 WZ 401	2-Part Line		
	Speed	Capacity	Hook Speed
147 hp AC hoist unit 110 kW Variable frequency drive (VFD) 2-speed SD.Shift 4 layers 2P - 325m	1	up to 26,460 lb up to 6,830 lb	@ 160 fpm @ 512 fpm
	2	up to 12,130 lb up to 3,090 lb	@ 320 fpm @ 876 fpm

NOTE: Capacities and line speeds indicated will vary depending on the amount of hoist rope installed. This crane model may be equipped with hoist units other than that specified in the data above. To verify, check the serial number of the crane and refer to the Liebherr 340 EC-B 12 Instruction Manual for additional information.

Drive Information

Drive Unit	Horsepower	Kilowatts	Speed
Trolley (VFD)	10.0 hp	7.5 kW	0 – 360 fpm (0–110 m/min)
Swing (VFD)	2 x 10.0 hp	2 x 7.5 kW	0.7 rpm
Travelling	Information available upon request		

Counterweights

Counterjib	Three Part													Two Part								
Jib length	256 ft	246 ft	238 ft	230 ft	221 ft	213 ft	205 ft	197 ft	189 ft	180 ft	72 ft	164 ft	156 ft	148 ft	139 ft	131 ft	122 ft	114 ft	106 ft	97 ft	88 ft	80 ft
No. of blocks	7x A	6x A + 1x B	5x A + 2x B	5x A + 1x B	5x A + 2x B	5x A + 1x B	4x A + 2x B	5x A	4x A + 2x B	3x A + 3x B	4x A + 1x B	3x A + 2x B	4x A	7x A + 1x B	6x A + 2x B	6x A + 1x B	6x A	4x A + 2x B	4x A + 1x B	3x A + 2x B	3x A + 1x B	2x A + 2x B
Weight in lbs	34,720	32,960	31,200	28,000	31,200	28,000	26,240	24,800	26,240	24,470	23,040	21,270	19,840	37,920	36,160	32,960	29,760	26,240	23,040	21,270	18,080	16,310

NOTE: Weight of the A Block is 4,960 lbs; the B Block is 3,200 lbs. 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 300 WZ 410 (110 KW) installed. If another hoist unit is installed, refer to the Liebherr 340 EC-B 12 Litronic 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:

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 200 kW. 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 340 EC-B 12 Instruction Manual. For additional information, contact MORROW. All rights are reserved.

Component List

Description	Dimensions L x W x H	Weight	Description	Dimensions L x W x H	Weight
Slewing Platform (Complete)[1]	21'-6" x 7'-11" x 8'-4"	26,010 lbs	Long Tower Sect. 550HC	39'-8" x 8'-0" x 8'-0"	23,480 lbs
Switch Gear Cabinet with Platform	7'-7" x 7'-2" x 6'-5"	3,420 lbs	Transition (P/B) 550HC/290HC	20'-7" x 8'-5" x 8'-5"	13,050 lbs
Operator's Cab with Platform	7'-10" x 6'-10" x 8'-1"	3,750 lbs	Top Climbing Unit & Hydraulics (290HC)	27'-7" x 9'-2" x 8'-10"	16,530 lbs
Folding Jib Head	6'-1" x 4'-9" x 7'-8"	3,310 lbs	Trolley and Hook	6'-9" x 5'-3" x 5'-7"	1,785 lbs
Hoist Unit (VFD) 147 hp (110 kW)[2]	10'-10" x 4'-0" x 4'-2"	5,700 lbs	Jib Section ①[5] #611	39'-1" x 4'-2" x 8'-4"	11,685 lbs
Counterjib A[3]	55'-5" x 7'-8" x 8'-9"	27,780 lbs	Jib Section ②[5] #621	34'-11" x 4'-2" x 8'-2"	5,950 lbs
Counterjib B[4]	74'-5" x 7'-8" x 8'-9"	35,490 lbs	Jib Section ③[5] #622	18'-6" x 4'-2" x 8'-1"	2,535 lbs
Counterweight Block A with frame	4'-4" x 11" x 7'-9"	4,960 lbs	Jib Section ④[5] #623	39'-2" x 4'-2" x 8'-0"	4,520 lbs
Counterweight Block B with frame	4'-4" x 11" x 4'-9"	3,200 lbs	Jib Section ⑪[5] #639	9'-1" x 4'-2" x 6'-5"	1,455 lbs
Base Section 290HC	40'-9" x 7'-7" x 7'-7"	17,500 lbs	Jib Section ⑤[5] #631	17'-4" x 4'-2" x 6'-5"	1,675 lbs
Long Tower Sect. 290HC	40'-9" x 7'-7" x 7'-7"	12,720 lbs	Jib Section ⑥[5] #632	33'-8" x 4'-2" x 6'-5"	2,820 lbs
Standard Tower Section 290HC	13'-7" x 7'-7" x 7'-7"	5,070 lbs	Jib Section ⑦[5] #633	33'-7" x 4'-2" x 6'-4"	1,875 lbs
Reinforced Base 290HC	40'-9" x 7'-7" x 7'-7"	16,400 lbs	Jib Section ⑧[5] #634	33'-7" x 4'-2" x 6'-4"	1,455 lbs
Reinforced Tower Section 290HC	13'-7" x 7'-7" x 7'-7"	6,500 lbs	Jib Section ⑨[5] #635	10'-7" x 4'-2" x 6'-4"	530 lbs
Climbing Tower Section	13'-7" x 7'-7" x 8'-0"	7,275 lbs	Jib Section ⑩[5] #641	6'-3" x 4'-2" x 6'-11"	575 lbs
Std. Tower Section 550HC	20'-7" x 8'-0" x 8'-0"	14,290 lbs	Foundation Anchor (each) 21HC290FAr	4'-4" x 1'-2" x 1'-2"	510 lbs

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

[1] Slewing Platform Complete includes switch gear cabinet, operator's cab, platforms and folding jib.

[2] Includes 147 hp(110 kW) VFD hoist drive with rope drum and frame, without wire rope.

[3] Counterjib A includes sections #1(inner), #2(outer), hoist unit, pendant bars, handrails, connecting material.

[4] Counterjib B includes sections #1 (inner), #2(outer), #3(intermediate), hoist unit, pendant bars, handrails, connecting material.

[5] Jib layout details provided in 340 EC-B 12 Litronic Operation Manual. IMPORTANT: Please verify all jib components PRIOR to assembly and installation.