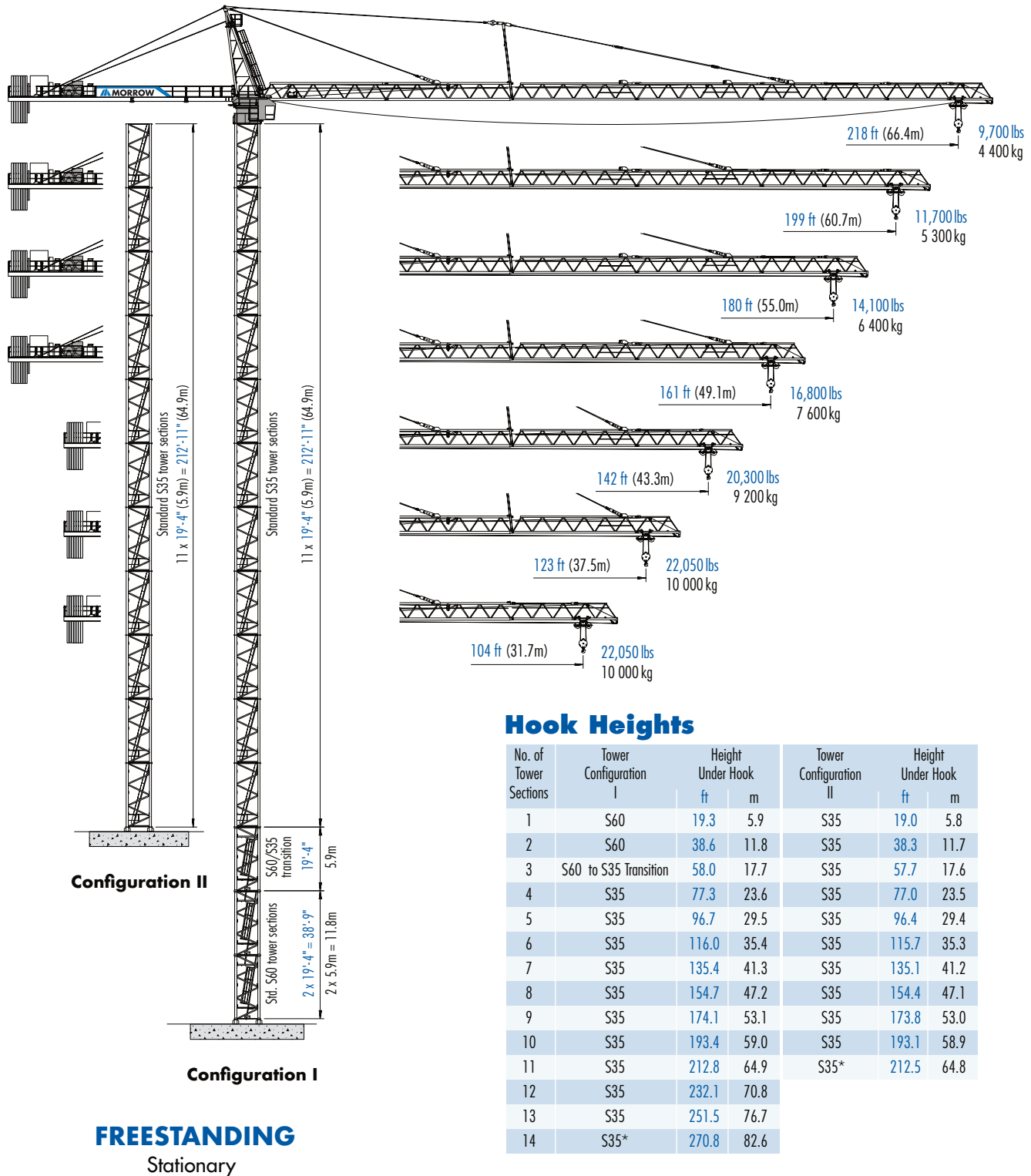
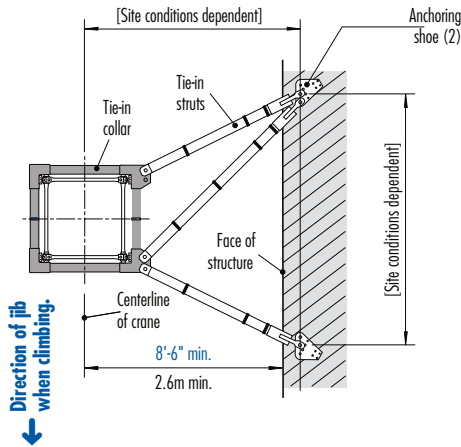


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TOWER CRANE



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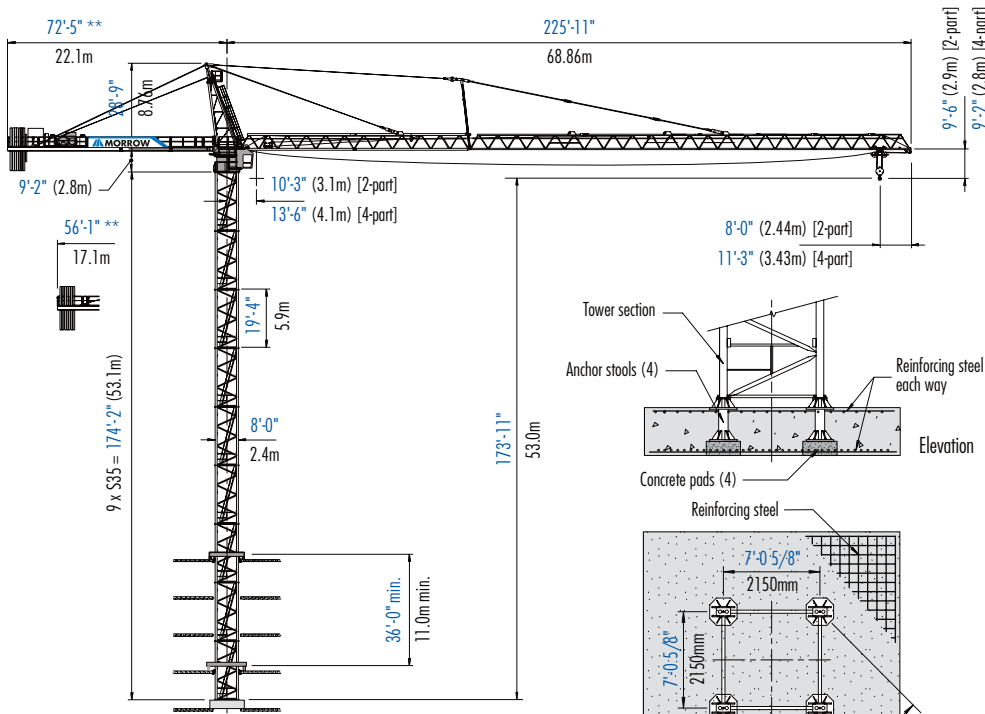
TIE-IN ASSEMBLY
Plan View

NOTE: If hook height exceeds 330 ft (100m), the number of tower sections above the uppermost tie-in location **MUST** be reduced by 1 tower section.

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

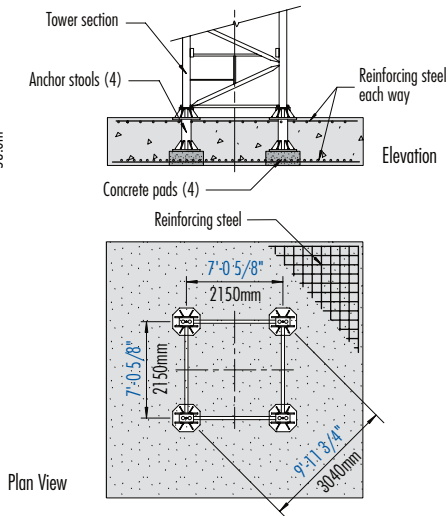
Consult Morrow Equipment for specific information regarding dimensions, tie-in locations, reaction forces and slab openings.

NOTE: The tie-in assembly shown to the left 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 criteria. Contact Morrow for more information.



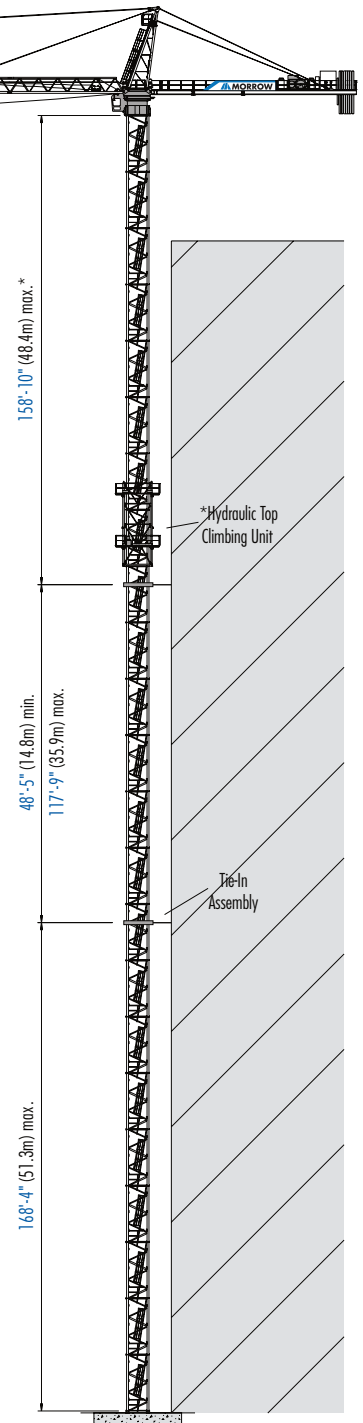
BOTTOM CLIMBING
with S35 Tower Sections
Inside Structure

****NOTE:** Jibs with a hook reach of 161 ft (49.1m) and longer require the 72'-5" (22.1m) counterjib; for jibs with a hook reach of 142 ft (43.3m) or shorter, the 56'-1" (17.1m) counterjib is required.



FOUNDATION DETAILS
Concrete Slab

NOTE: When bottom climbing, the minimum distance between climbing frames is determined by the number of tower sections installed above the uppermost frame and the length of the jib assembly installed.



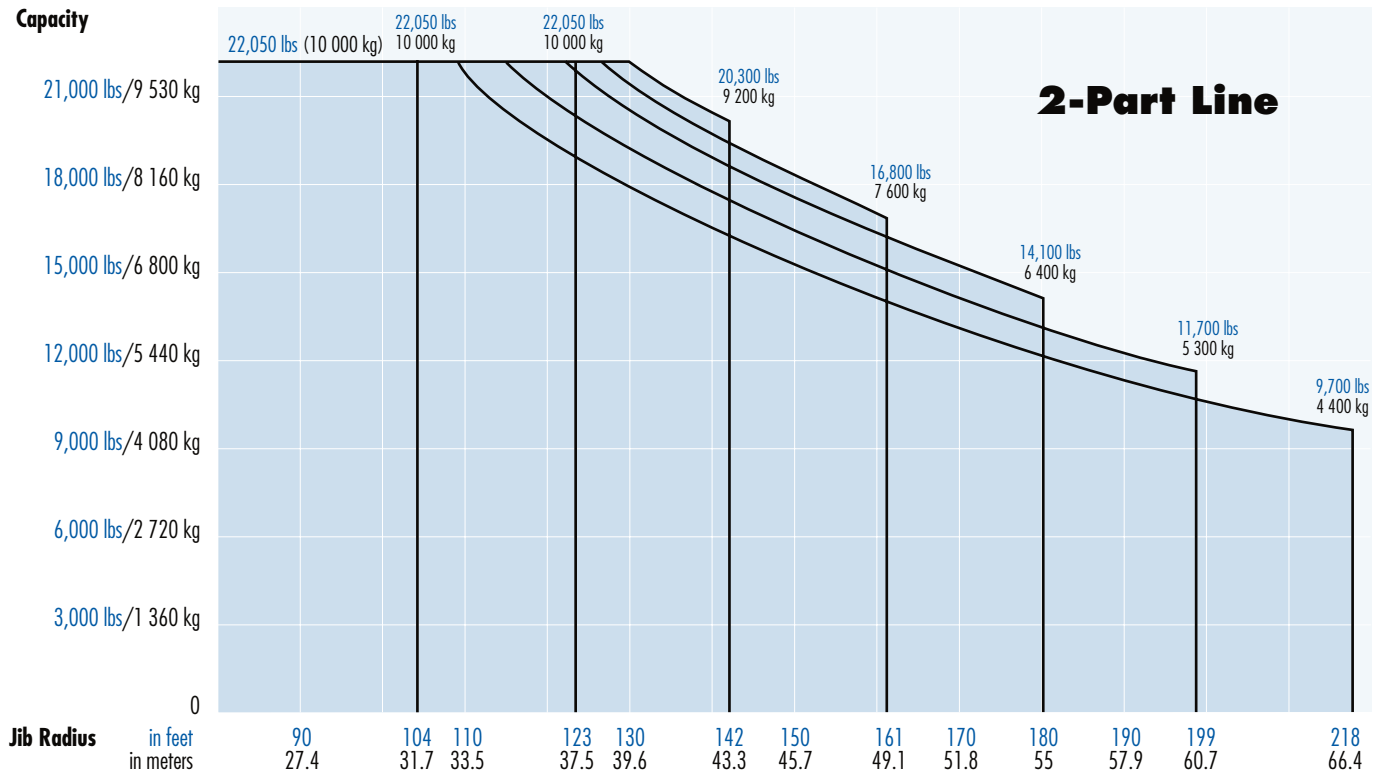
TOP CLIMBING
with S35 Tower Sections
Tied to Structure

Radius and Capacities

2-Part Line

Hook Radius	Maximum Capacity – Radius	ft	100	104	116	123	130	142	150	155	161	165	170	175	180	190	199	210	218
Radius	Capacity – Radius	m	30.5	31.7	35.4	37.5	39.6	43.3	45.7	47.2	49.1	50.3	51.8	53.3	55.0	57.9	60.7	64.0	66.4
218 ft 66.4m	22,050 lbs – 104 ft 10 000 kg – 31.7m	lbs kg	22,050 10 000	22,050 10 000	20,600 9 340	19,200 8 710	18,000 8 160	16,200 7 350	15,300 6 940	14,700 6 670	14,100 6 400	13,600 6 170	13,200 5 990	12,800 5 810	12,300 5 580	11,500 5 220	10,900 4 940	10,200 4 630	9,700 4 400
199 ft 60.7m	22,050 lbs – 115 ft 10 000 kg – 35.3m	lbs kg	22,050 10 000	22,050 10 000	21,900 9 930	20,600 9 340	19,300 8 750	17,500 7 940	16,400 7 440	15,800 7 170	15,100 6 850	14,700 6 670	14,200 6 440	13,700 6 210	13,200 5 990	12,400 5 620	11,700 5 300		
180 ft 55.0m	22,050 lbs – 122 ft 10 000 kg – 37.4m	lbs kg	22,050 10 000	22,050 10 000	22,050 10 000	21,900 9 930	20,700 9 390	18,700 8 480	17,500 7 940	16,900 7 670	16,200 7 350	15,700 7 120	15,200 6 890	14,700 6 670	14,100 6 400				
161 ft 49.1m	22,050 lbs – 128 ft 10 000 kg – 39.0m	lbs kg	22,050 10 000	22,050 10 000	22,050 10 000	22,050 10 000	21,600 9 800	19,500 8 850	18,400 8 450	17,700 8 030	16,800 7 600								
142 ft 43.3m	22,050 lbs – 130 ft 10 000 kg – 39.6m	lbs kg	22,050 10 000	22,050 10 000	22,050 10 000	22,050 10 000	22,050 10 000	20,300 9 200											
123 ft 37.5m	22,050 lbs – 123 ft 10 000 kg – 37.5m	lbs kg	22,050 10 000	22,050 10 000	22,050 10 000	22,050 10 000													
104 ft 31.7m	22,050 lbs – 104 ft 10 000 kg – 31.7m	lbs kg	22,050 10 000	22,050 10 000															

Capacity



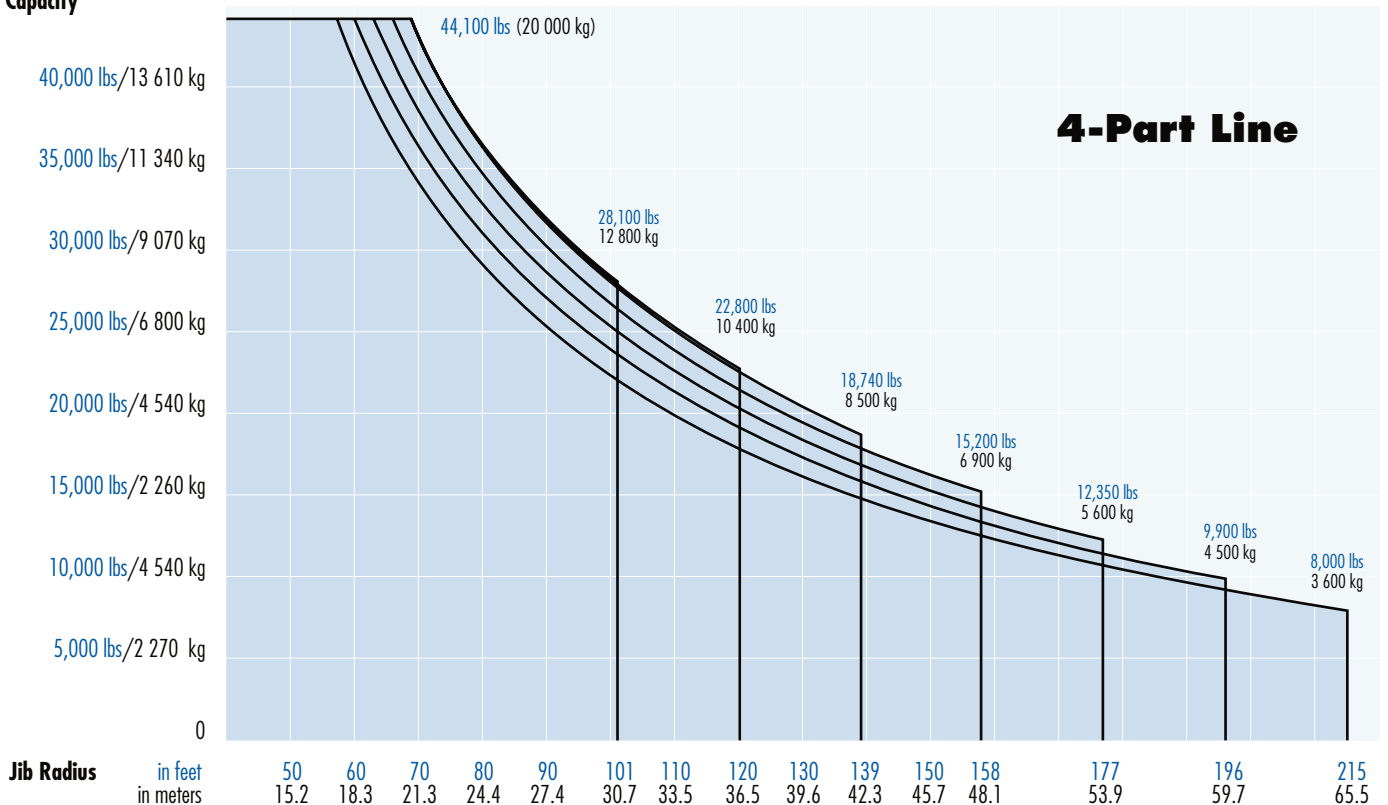
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Radius and Capacities

4-Part Line

Hook Radius	Maximum Capacity – Radius	ft	33	49	66	82	101	108	120	128	139	148	158	171	177	187	196	203	215
		m	10.0	15.0	20.1	25.0	30.7	33.0	36.5	39.0	42.3	45.0	48.1	52.0	53.9	57.0	59.7	62.0	65.5
215 ft 65.5m	44,100 lbs – 57 ft 20 000 kg – 17.3m	lbs	44,100	44,100	37,170	28,480	22,180	20,280	17,860	16,400	14,750	13,600	12,430	11,180	10,630	9,810	9,170	8,890	8,000
		kg	20 000	20 000	16 860	12 920	10 060	9 200	8 100	7 440	6 690	6 170	5 640	5 070	4 820	4 450	4 160	3 940	3 600
196 ft 59.7m	44,100 lbs – 60 ft 20 000 kg – 18.3m	lbs	44,100	44,100	42,170	39,700	23,790	21,500	19,200	17,660	15,920	14,680	13,450	12,130	11 530	10,670	9,900		
		kg	20 000	20 000	19 130	18 010	10 790	9 750	8 710	8 010	7 220	6 660	6 100	5 500	5 230	4 840	4 500		
177 ft 53.9m	44,100 lbs – 63 ft 20 000 kg – 19.3m	lbs	44,100	44,100	42,260	32,500	25,420	23,280	20,570	18,940	17,170	15,790	14,460	13,050	12,350				
		kg	20 000	20 000	19 170	14 740	11 530	10 560	9 330	8 590	7 790	7 160	6 560	5 920	5 600				
158 ft 48.1m	44,100 lbs – 66 ft 20 000 kg – 20.1m	lbs	44,100	44,100	44,100	34,260	26,850	24,600	21,780	20,060	18,120	16,760	15,200						
		kg	20 000	20 000	20 000	15 540	12 180	11 160	9 880	9 100	8 220	7 600	6 900						
139 ft 42.3m	44,100 lbs – 69 ft 20 000 kg – 20.9m	lbs	44,100	44,100	44,100	35,740	28,020	25,710	22,750	20,970	18,740								
		kg	20 000	20 000	20 000	16 210	12 710	11 660	10 320	9 510	8 500								
120 ft 36.5m	44,100 lbs – 69 ft 20 000 kg – 20.9m	lbs	44,100	44,100	44,100	35,800	28,090	25,750	22,800										
		kg	20 000	20 000	20 000	16 240	12 740	11 680	10 400										
101 ft 30.7m	44,100 lbs – 69 ft 20 000 kg – 20.9m	lbs	44,100	44,100	44,100	35,820	28,100												
		kg	20 000	20 000	20 000	16 250	12 800												

Capacity



Hoist Speed and Capacity

Hoist Unit	2-Part Line				
105 hp (78 kW) AC hoist unit 4-speed gearbox Remote-controlled gear shifting Eddy current brake 2P140 4P70	Gear	Capacity	Line Speed	Capacity	Line Speed
	1	up to 22,050 lbs	@ 110 fpm	up to 10 000 kg	@ 34 m/min
	2	up to 15,600 lbs	@ 178 fpm	up to 7 100 kg	@ 54 m/min
	3	up to 9,260 lbs	@ 280 fpm	up to 4 200 kg	@ 86 m/min
	4	up to 5,500 lbs	@ 440 fpm	up to 2 500 kg	@ 134 m/min
	4-Part Line				
	1	up to 44,100 lbs	@ 55 fpm	up to 20 000 kg	@ 17 m/min
	2	up to 31,200 lbs	@ 89 fpm	up to 14 200 kg	@ 27 m/min
	3	up to 18,520 lbs	@ 141 fpm	up to 8 400 kg	@ 43 m/min
	4	up to 11,000 lbs	@ 220 fpm	up to 5 000 kg	@ 67 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 Pecco SK 355-20 Operation Manual for additional information.

Motor Information

Drive Unit	Horsepower	Kilowatts	Speed	
Trolley (2-part line)	12 hp	9 kW	max. 320 fpm	max. 96 m/min
Trolley (4-part line)	12 hp	9 kW	max. 160 fpm	max. 48 m/min
Swing	2 x 12 hp	2 x 9 kW	1.0 rpm	

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: 250 Amperes (for 105 hp/78 kW AC hoist unit) or 300 Amperes (for 165 hp/122 kW AC hoist unit).

NOTES:

- For electric power provided by an electric utility, do not use open Delta transformers.
 - For electric power provided by a generator, the minimum generator size required is 350kW for 105 hp and 500kW for 165 hp.
- 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 SK 355-20 Instruction Manual. For additional information, contact MORROW. All rights are reserved.

Pecco SK 355-20

Component List

Description		Dimensions L x W x H	Weight	Description		Dimensions L x W x H	Weight
Tower Top		29'-11" x 7'-3" x 8'-11" 9.12m x 2.2m x 2.72m	8,600 lbs 3 900 kg	Jib Section ①		38'-9" x 6'-2" x 6'-10" 11.8m x 1.88m x 2.09m	10,000 lbs 4 540 kg
Turntable (Complete) Upper & Lower Part		10'-7" x 10'-1" x 12'-3" 3.23m x 3.08m x 3.73m	26,455 lbs 12 000 kg	Jib Section ②		38'-9" x 6'-2" x 6'-3" 11.8m x 1.88m x 1.91m	6,510 lbs 2 950 kg
Turntable Upper Part ¹		10'-7" x 7'-5" x 7'-1" 3.23m x 2.25m x 2.16m	12,635 lbs 5 730 kg	Jib Section ③		38'-9" x 6'-2" x 6'-1" 11.8m x 1.88m x 1.85m	5,500 lbs 2 495 kg
Turntable Lower Part ²		8'-8" x 10'-1" x 5'-2" 2.65m x 3.08m x 1.57m	13,820 lbs 6 270 kg	Jib Section ④		38'-9" x 6'-2" x 6'-1" 11.8m x 1.88m x 1.85m	4,500 lbs 2 040 kg
Operator's Cab		5'-7" x 3'-11" x 8'-6" 1.7m x 1.2m x 2.6m	900 lbs 410 kg	Jib Section ⑤		20'-1" x 6'-2" x 6'-3" 6.12m x 1.88m x 1.91m	2,500 lbs 1 135 kg
Cab Access Platform		12'-8" x 5'-7" x 2'-9" 3.85m x 1.7m x 0.85m	1,000 lbs 454 kg	Jib Section ⑥		19'-9" x 6'-2" x 6'-1" 6.02m x 1.88m x 1.85m	2,500 lbs 1 135 kg
Tower Section S35		19'-5" x 7'-10" x 8'-0" 5.92m x 2.4m x 2.44m	8,900 lbs 4 040 kg	Jib Section ⑦		19'-9" x 6'-2" x 6'-1" 6.02m x 1.88m x 1.85m	2,500 lbs 1 135 kg
Transition Section S60 to S35		19'-5" x 7'-11" x 7'-11" 5.92m x 2.41m x 2.41m	9,930 lbs 4 500 kg	Jib Section ⑧		13'-5" x 6'-2" x 7'-1" 4.1m x 1.88m x 2.15m	1,500 lbs 680 kg
Tower Section S60		19'-5" x 7'-11" x 7'-11" 5.92m x 2.41m x 2.41m	9,930 lbs 4 500 kg	Jib Assembly Part 1 ⁶ for Jibs 123-ft to 218-ft	①②	76'-9" x 6'-2" x 6'-10" 23.4m x 1.88m x 2.09m	24,120 lbs 10 940 kg
Counterjib A ³ (Complete)		70'-6" x 9'-6" x 8'-4" 21.5m x 2.9m x 2.55m	23,370 lbs 10 600 kg	Jib Assembly Part 2 ⁷ 218-ft (66.4m)	③④⑤⑥⑦⑧	145'-8" x 6'-2" x 6'-3" 44.4m x 1.88m x 1.91m	20,750 lbs 9 415 kg
Counterjib B ³ (Complete)		52'-6" x 9'-6" x 8'-4" 16.0m x 2.9m x 2.55	20,615 lbs 9 350 kg	Jib Assembly Part 2 ⁷ 199-ft (60.7m)	③④⑥⑦⑧	126'-9" x 6'-2" x 6'-1" 38.6m x 1.88m x 1.85m	17,850 lbs 8 100 kg
Counterjib Section #1 (Inner)		14'-9" x 6'-5" x 1'-10" 4.5m x 1.95m x 0.55m	2,315 lbs 1 050 kg	Jib Assembly Part 2 ⁷ 180-ft (55.0m)	③④⑥⑧	107'-10" x 6'-2" x 6'-1" 32.86m x 1.88m x 1.85m	15,400 lbs 6 990 kg
Counterjib Section #2 (Intermediate)		18'-1" x 6'-5" x 1'-10" 5.5m x 1.95m x 0.55m	2,755 lbs 1 250 kg	Jib Assembly Part 2 ⁷ 161-ft (49.1m)	③④⑧	88'-10" x 6'-2" x 6'-1" 27.1m x 1.88m x 1.85m	12,400 lbs 5 625 kg
Counterjib Section #3 ⁴ (Outer)		37'-9" x 9'-6" x 8'-4" 11.5m x 2.9m x 2.55m	18,300 lbs 8 300 kg	Jib Assembly Part 2 ⁷ 142-ft (43.3m)	③⑥⑧	69'-11" x 6'-2" x 6'-1" 21.3m x 1.88m x 1.85m	10,400 lbs 4 720 kg
Hoist Unit with Frame ⁵ (105 hp/78 kW)		9'-6" x 6'-3" x 3'-7" 2.9m x 1.9m x 1.1m	7,190 lbs 3 260 kg	Jib Assembly Part 2 ⁷ 123-ft (37.5m)	③⑧	50'-11" x 6'-2" x 6'-1" 15.53m x 1.88m x 1.85m	7,600 lbs 3 450 kg
Counterweight Block A		14'-8" x 7'-5" x 5'-1" 4.47m x 0.19m x 1.55m	6,800 lbs 3 085 kg	Jib Assembly (Complete) ⁸ 104-ft (31.7m)	①②⑥⑧	107'-10" x 6'-4" x 7'-1" 32.86m x 1.92m x 2.15m	26,920 lbs 12 210 kg
Counterweight Block B		9'-5" x 5'-5" x 5'-1" 2.87m x 0.14m x 1.55m	3,200 lbs 1 450 kg	Top Climbing Unit with Hydraulics (S35)		29'-3" x 11'-6" x 11'-6" 8.9m x 3.5m x 3.5m	24,750 lbs 11 230 kg
2-Part Trolley (Outer)		6'-3" x 7'-3" x 4'-7" 1.9m x 2.2m x 1.4m	1,630 lbs 740 kg	Hook Block		2'-11" x 1'-5" x 7'-5" 0.74m x 0.33m x 1.79m	1,100 lbs 500 kg

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

¹ Turntable Upper Part includes swing motors and slewing ring. Does not include slewing ring support and support frame.

² Turntable Lower Part includes slewing ring support and support frame. Does not include Upper Part, swing motors and slewing ring.

³ Counterjibs A & B (Complete) include 105 hp (78 kW) hoist unit with frame, electrical panels and handrails. Does not include wire rope. Counterjib A (Counterjib Sections #1, #2 & #3) is required for jibs 161 ft (49.1m) and longer; Counterjib B (Counterjib Sections #1 & #3) is required for jibs 142 ft (43.3m) and shorter.

⁴ Counterjib Section #3 includes 105 hp (78 kW) hoist unit with frame, electrical panels and handrails. Does not include wire rope.

⁵ Does not include wire rope.

⁶ Jib Assembly Part 1 includes jib sections, pendant cables, jib A-frame, trolley drive unit, trolley wire rope, 2-part trolley (outer) and hook block. If 4-part application is used, weight increases by 2,730 lbs (1 240 kg) for additional trolley (inner) and hook block.

⁷ Jib Assembly Part 2 includes jib sections and pendant cables.

⁸ Jib Assembly (Complete) includes jib sections, pendant cables, trolley drive unit, trolley wire rope, 2-part trolley (outer) and hook block. If 4-part application is used, weight increases by 2,730 lbs (1 240 kg) for additional trolley (inner) and hook block.

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