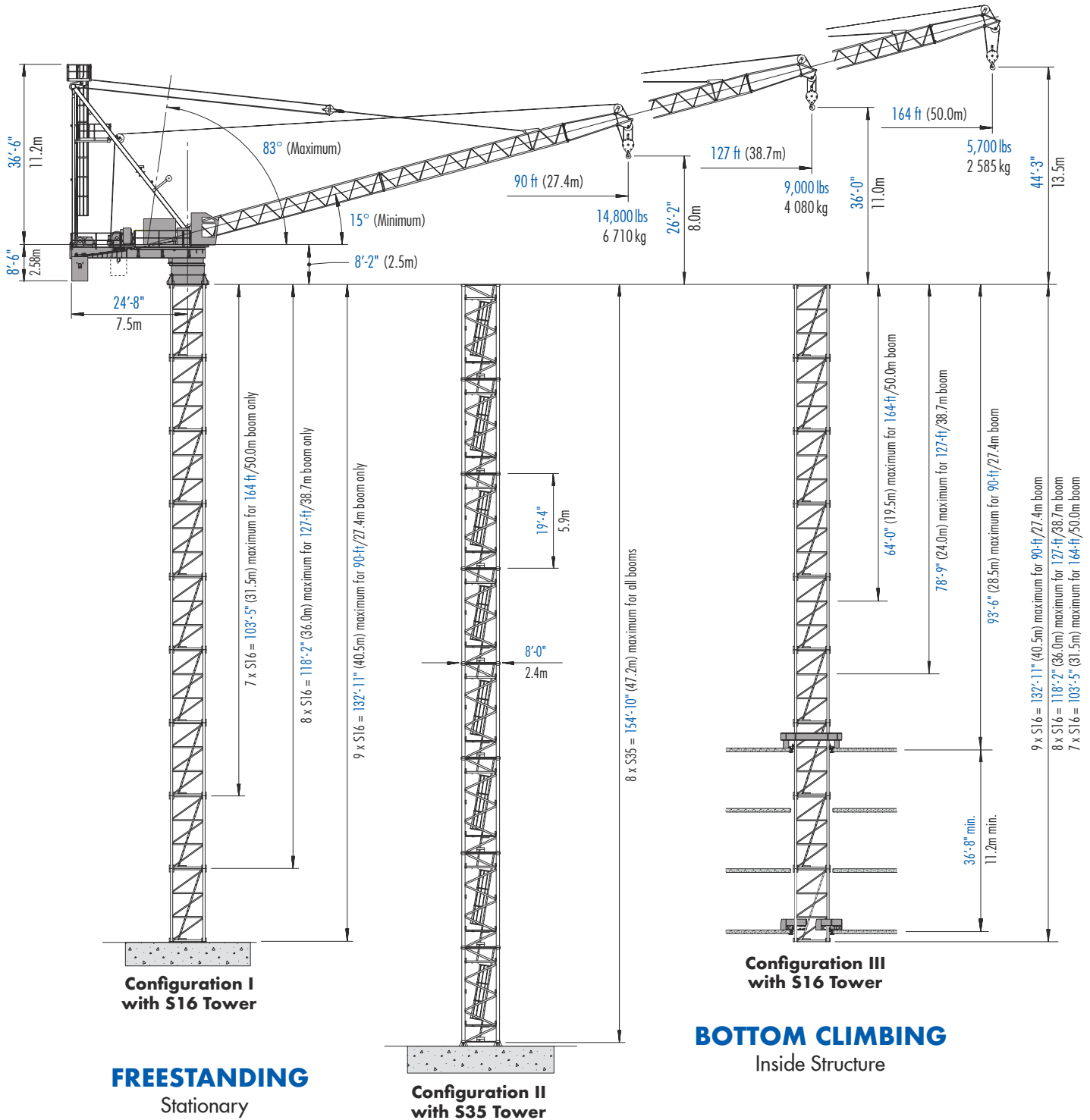


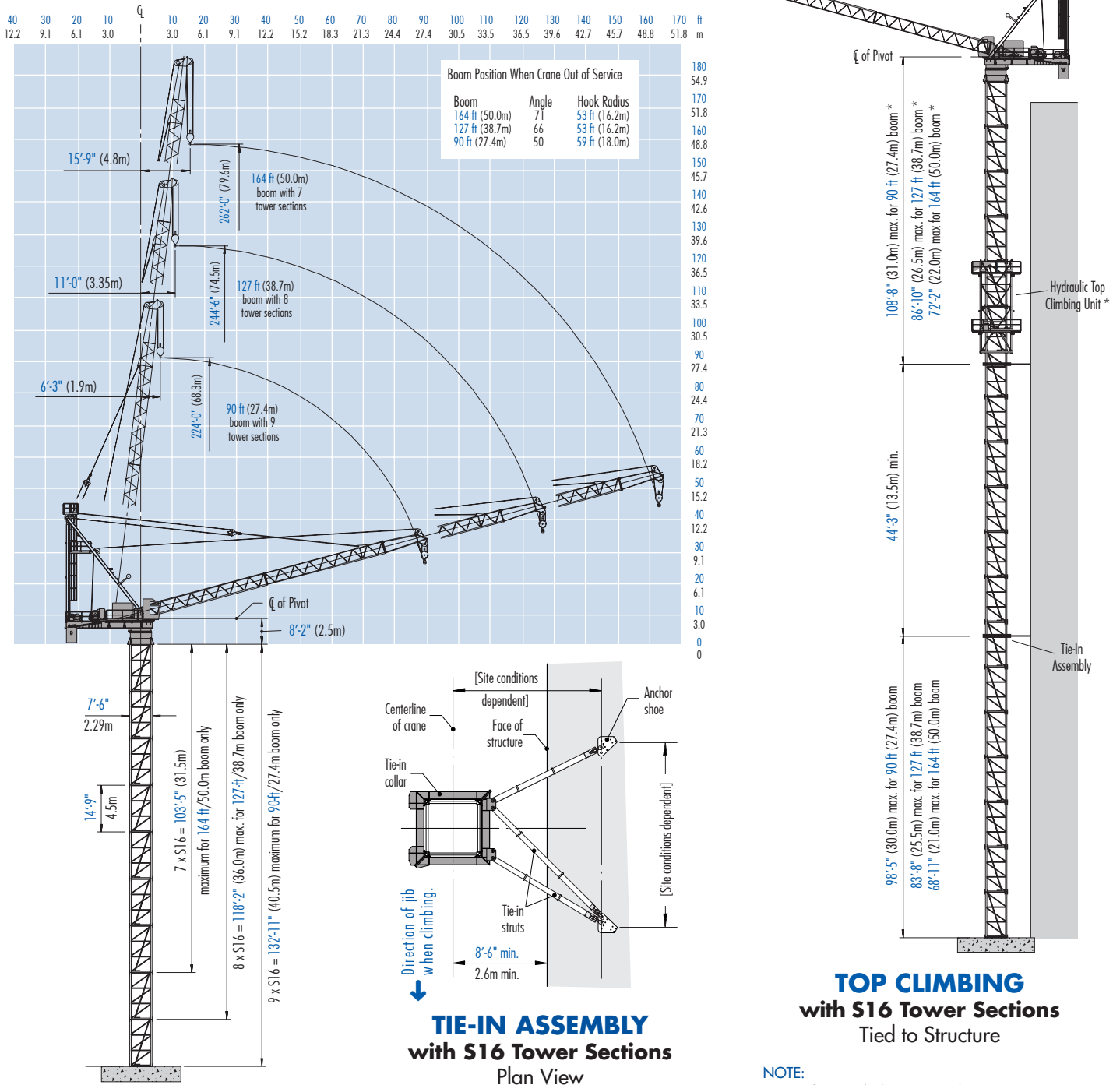
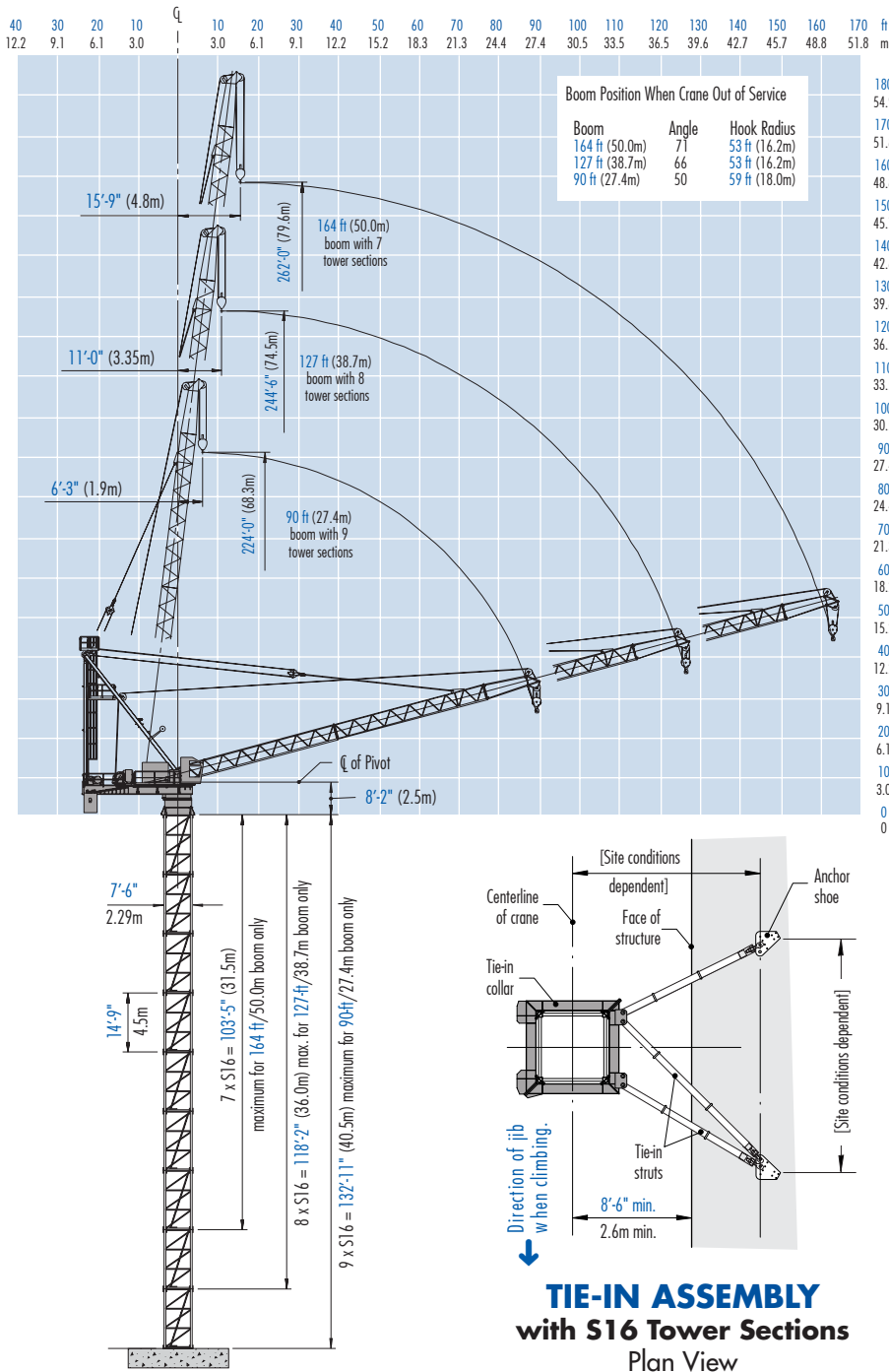
Pecco SN 160-16

TOWER CRANE



Pecco SN 160-16

IMPORTANT: Please consult crane's operation manual before erecting, operating, climbing and dismantling crane.



NOTE:

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

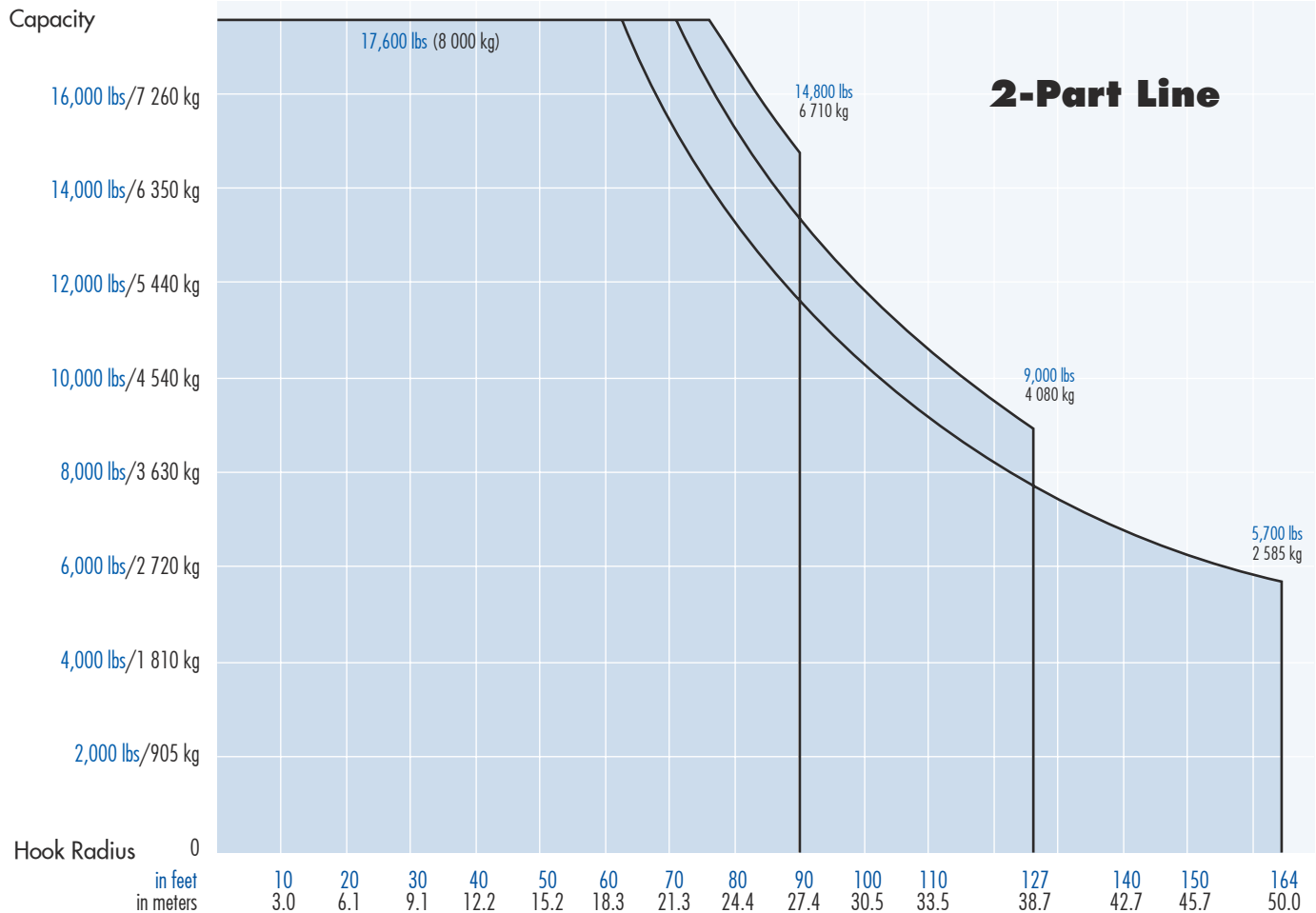
Consult Morrow Equipment for specific information regarding alternate tower configurations, dimensions, tie-in locations, reaction forces and slab openings.

Radius and Capacities

IMPORTANT: This data applies ONLY to Pecco SN 160 luffing boom cranes with serial numbers in the #0300 and #0400 series.

2-Part Line

Hook Radius	Maximum Capacity — Radius	ft	49	55	62	70	75	80	85	90	100	105	110	120	127	140	150	160	164
		m	14.9	16.8	18.9	21.3	22.9	24.4	25.9	27.4	30.5	32.0	33.5	36.6	38.7	42.7	45.7	48.8	50.0
164 ft 50.0m	17,600 lbs — 62 ft 8 000 kg — 18.9m	lbs	17,600	17,600	17,600	15,500	14,300	13,300	12,500	11,700	10,300	9,800	9,300	8,400	7,800	7,000	6,400	5,900	5,700
		kg	8 000	8 000	8 000	7 030	6 485	6 030	5 670	5 310	4 670	4 445	4 220	3 810	3 540	3 175	2 900	2 675	2 585
127 ft 38.7m	17,600 lbs — 71 ft 8 000 kg — 21.6m	lbs	17,600	17,600	17,600	17,600	16,400	15,300	14,300	13,500	11,900	11,200	10,700	9,600	9,000				
		kg	8 000	8 000	8 000	8 000	7 440	6 940	6 485	6 125	5 400	5 080	4 855	4 355	4 080				
90 ft 27.4m	17,600 lbs — 76 ft 8 000 kg — 23.2m	lbs	17,600	17,600	17,600	17,600	17,600	16,800	15,700	14,800									
		kg	8 000	8 000	8 000	8 000	8 000	7 620	7 120	6 710									



NOTE: Maximum lifting capacities are determined by the number of parts per line used when reeving the hoist wire rope, i.e., 17,600 lbs (8 000 kg) for 2-part line, 26,500 lbs (12 000 kg) for 3-part line, and 35,300 lbs (16 000 kg) for 4-part line. The boom with 164 ft (50.0m) hook radius has a maximum capacity of 17,600 lbs (8 000 kg) and **MUST** be reeved for 2-part line operation only. The boom with 127 ft (38.7m) hook radius has a maximum capacity of 26,500 lbs (12 000 kg) when reeved for 3-part line and a max. capacity of 17,600 lbs (8 000 kg) for 2-part line. The 127 ft (38.7m) boom can be reeved for 2-part or 3-part line operation only. The boom with 90 ft (27.4m) hook radius has a maximum capacity of 35,300 lbs (16 000 kg) when reeved for 4-part line, 26,500 lbs (12 000 kg) for 3-part line and 17,600 lbs (8 000 kg) for 2-part line. The 90 ft (27.4m) boom can be reeved for 2-part, 3-part or 4-part line operation. Contact Morrow Equipment for additional information.

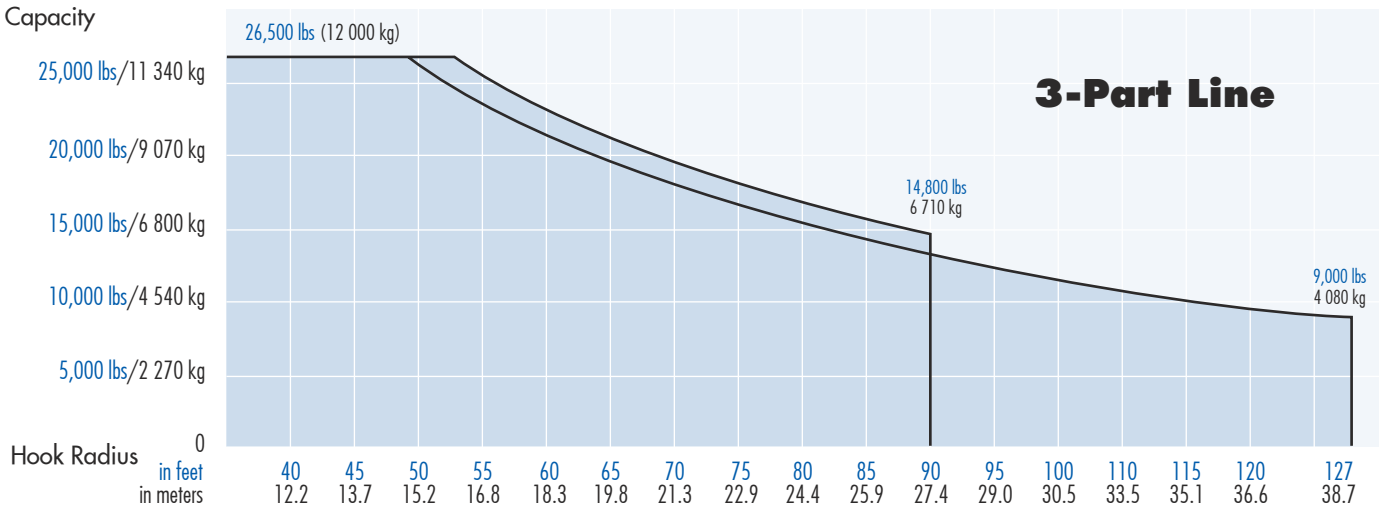
Radius and Capacities

IMPORTANT: This data applies ONLY to Pecco SN 160 luffing boom cranes with serial numbers in the #0300 and #0400 series.

3-Part Line

Hook Radius	Maximum Max Capacity – Radius	ft	30	35	40	49	55	60	65	70	75	80	85	90	100	105	110	120	127
		m	9.1	10.7	12.2	14.9	16.8	18.3	19.8	21.3	22.9	24.4	25.9	27.4	30.5	32.0	33.5	36.6	38.7
127 ft 38.7m	26,500 lbs – 49 ft 12 000 kg – 14.9m	lbs	26,500	26,500	26,500	26,500	23,685	21,340	19,460	17,900	16,400	15,300	14,300	13,500	11,900	11,200	10,700	9,600	9,000
		kg	12 000	12 000	12 000	12 000	10 745	9 680	8 830	8 120	7 440	6 940	6 485	6 125	5 400	5 080	4 855	4 355	4 080
90 ft 27.4m	26,500 lbs – 53.4 ft 12 000 kg – 16.3m	lbs	26,500	26,500	26,500	26,500	24,470	22,780	21,125	19,500	17,900	16,800	15,700	14,800					
		kg	12 000	12 000	12 000	12 000	11 100	10 335	9 580	8 845	8 120	7 620	7 120	6 710					

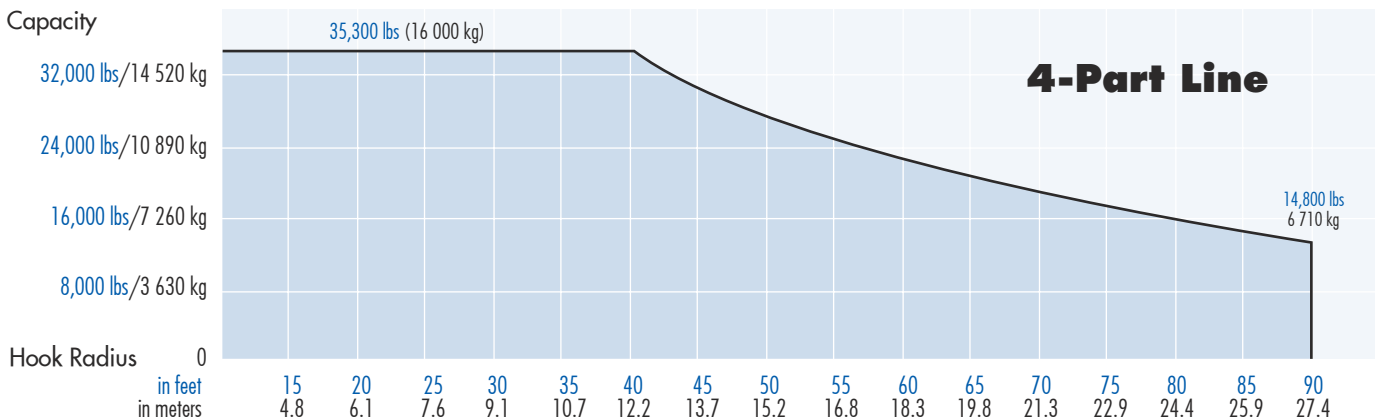
Capacity



4-Part Line

Hook Radius	Maximum Max Capacity – Radius	ft	10	15	20	25	30	35	40	45	49	53	62	66	70	75	80	85	90
		m	3.1	4.8	6.1	7.6	9.1	10.7	12.2	13.7	14.9	16.2	18.9	20.1	21.3	22.9	24.4	25.9	27.4
90 ft 27.4m	35,300 lbs – 40.5 ft 16 000 kg – 12.3m	lbs	35,300	35,300	35,300	35,300	35,300	35,300	35,300	31,805	28,700	26,670	22,100	20,800	19,500	17,900	16,800	15,700	14,800
		kg	16 000	16 000	16 000	16 000	16 000	16 000	16 000	14 425	13 020	12 100	10 025	9 435	8 845	8 120	7 620	7 120	6 710

Capacity



Hoist Speed and Capacity

IMPORTANT: This data applies ONLY to Pecco SN 160 luffing boom cranes with serial numbers in the #0300 and #0400 series.

Hoist Unit	2-Part Line					
105 hp (78 kW) AC hoist unit 4-speed gearbox Remote-controlled gear shifting Eddy current brake	Gear	Capacity	Line Speed	Capacity	Line Speed	
	1	17,600 lbs @	112 fpm	8 000 kg @	34 m/min	
	2	14,000 lbs @	176 fpm	6 350 kg @	54 m/min	
	3	9,250 lbs @	280 fpm	4 200 kg @	86 m/min	
	4	5,500 lbs @	440 fpm	2 500 kg @	134 m/min	
	3-Part Line					
	1	26,500 lbs @	72 fpm	12 000 kg @	22 m/min	
	2	21,000 lbs @	118 fpm	9 525 kg @	36 m/min	
	3	14,000 lbs @	184 fpm	6 350 kg @	56 m/min	
	4	8,200 lbs @	292 fpm	3 720 kg @	89 m/min	
	4-Part Line					
	1	35,300 lbs @	56 fpm	16 000 kg @	17 m/min	
	2	28,000 lbs @	88 fpm	12 700 kg @	27 m/min	
	3	18,500 lbs @	140 fpm	8 400 kg @	43 m/min	
	4	11,000 lbs @	220 fpm	5 000 kg @	67 m/min	

2P180
3P120
4P090

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 SN 160-16 Operation Manual for additional information.

Motor Information

Drive Unit	Horsepower	Kilowatts	Speed
Luffing ¹	105 hp	78 kW	15° to 83° in 78 sec ¹
Swing ²	2 x 6.5 hp	2 x 4.8 kW	1.0 rpm

¹ Luffing speed figure shown is for crane without load. Speed varies according to load on hook.

² The boom with 90 ft (27.4m) hook reach requires only one swing motor; booms with a hook reach of 127 ft (38.7m) and longer require two swing motors.

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: 300 Amperes

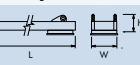
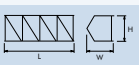
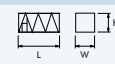
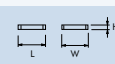
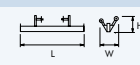
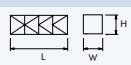
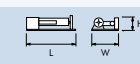
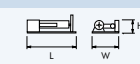
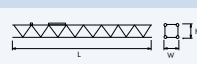
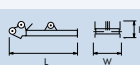
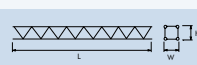
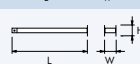
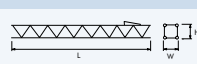
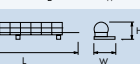
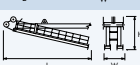
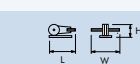
NOTES:

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 750 kW. 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 SN 160-16 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
Machine Deck ¹ with Turntable	 28'-4" x 8'-6" x 10'-5" 8.6m x 2.59m x 3.17m	24,800 lbs 11 250 kg	Tower Section S16	 14'-11" x 7'-7" x 7'-7" 4.55m x 2.3m x 2.3m	5,500 lbs 2 500 kg
Machine Deck ²	 27'-7" x 7'-11" x 6'-5" 8.4m x 2.41m x 2.0m	17,000 lbs 7 710 kg	Top Climbing Unit with Hydraulics (S16)	 23'-6" x 9'-9" x 9'-3" 7.16m x 2.97m x 2.82m	13,200 lbs 5 990 kg
Slewing Ring Support with Slewing Ring ³	 8'-6" x 8'-6" x 3'-11" 2.59m x 2.59m x 1.19m	7,800 lbs 3 540 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
Cab & Electrical Panel on Mounting Frame	 23'-5" x 5'-11" x 9'-9" 7.14m x 1.8m x 3.0m	6,400 lbs 2 900 kg	Transition Section S35/S16	 8'-1" x 7'-9" x 1'-1" 2.46m x 2.36m x 0.33m	1,610 lbs 730 kg
Counterweight Carriage	 12'-11" x 2'-6" x 2'-10" 3.93m x 0.76m x 0.86m	1,300 lbs 590 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
Hoist Unit ⁴ (105 hp/ 78 kW)	 8'-11" x 5'-7" x 3'-8" 2.72m x 1.7m x 1.12m	6,000 lbs 2 720 kg	Boom Section ^① (Butt)	 11'-6" x 5'-9" x 4'-4" 3.5m x 1.75m x 1.32m	1,330 lbs 600 kg
Luffing Winch ⁴ (105 hp/ 78 kW)	 5'-3" x 5'-0" x 3'-3" 1.6m x 1.52m x 0.3m	4,600 lbs 2 085 kg	Boom Section ^② (Intermediate)	 38'-9" x 5'-9" x 4'-4" 11.8m x 1.75m x 1.32m	2,300 lbs 1 045 kg
A-Frame Top with Platforms	 40'-1" x 8'-2" x 5'-11" 12.2m x 2.5m x 1.8m	8,150 lbs 3 695 kg	Boom Section ^③ (Intermediate)	 38'-9" x 5'-9" x 4'-4" 11.8m x 1.75m x 1.32m	2,300 lbs 1 045 kg
A-Frame Support	 31'-3" x 7" x 7" 9.5m x 0.18m x 0.18m	800 lbs 360 kg	Boom Section ^④ (Intermediate)	 38'-9" x 5'-9" x 4'-9" 11.8m x 1.75m x 1.44m	2,600 lbs 1 180 kg
A-Frame Ladder	 38'-0" x 2'-9" x 3'-8" 11.6m x 0.84m x 1.12m	300 lbs 135 kg	Boom Section ^⑤ (Tip)	 14'-6" x 5'-9" x 6'-3" 4.4m x 1.75m x 1.9m	1,700 lbs 770 kg
A-Frame Assembly ⁵	 32'-4" x 7'-7" x 27'-1" 9.85m x 2.3m x 8.25m	10,050 lbs 4 550 kg	Boom Assembly ⁶ 164-ft (50.0m)	①②③④⑤  178'-4" x 5'-9" x 6'-3" 54.36m x 1.75m x 1.9m	14,330 lbs 6 500 kg
Fixed Counterweight for 164 ft (50.0m) boom	 7'-11" x 5" x 3'-4" 2.4m x 0.13m x 1.02m	4,260 lbs 1 930 kg	Boom Assembly ⁶ 127-ft (38.7m)	①②③④⑤  139'-7" x 5'-9" x 6'-3" 42.54m x 1.75m x 1.9m	11,830 lbs 5 365 kg
Counterweight	 3'-4" x 6" x 5'-3" 1.02m x 0.15m x 1.6m	3,750 lbs 1 700 kg	Boom Assembly ⁶ 90-ft (27.4m)	①②④⑤  100'-11" x 5'-9" x 6'-3" 30.76m x 1.75m x 1.9m	9,330 lbs 4 230 kg
Sheave Block for Luffing Wire Rope	 4'-6" x 6'-1" x 2'-3" 1.37m x 1.85m x 0.69m	1,000 lbs 455 kg	Hook Block	 2'-5" x 1'-2" x 5'-9" 0.74m x 0.36m x 1.75m	900 lbs 410 kg

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

¹ Includes machine deck with turntable, slewing ring, slewing ring support and slewing motors.

² Includes machine deck, turntable upper part and slewing motors. Does not include slewing ring and slewing ring support.

³ Includes turntable lower part, slewing ring and slewing ring support. Does not include slewing motors.

⁴ Includes mounting frame. Does not include wire rope.

⁵ Includes A-frame top, A-frame support members (2 ea.) and access ladder with platforms.

⁶ Includes boom sections, pendant cables and luffing sheave block. Does not include hoist wire rope and hook block.