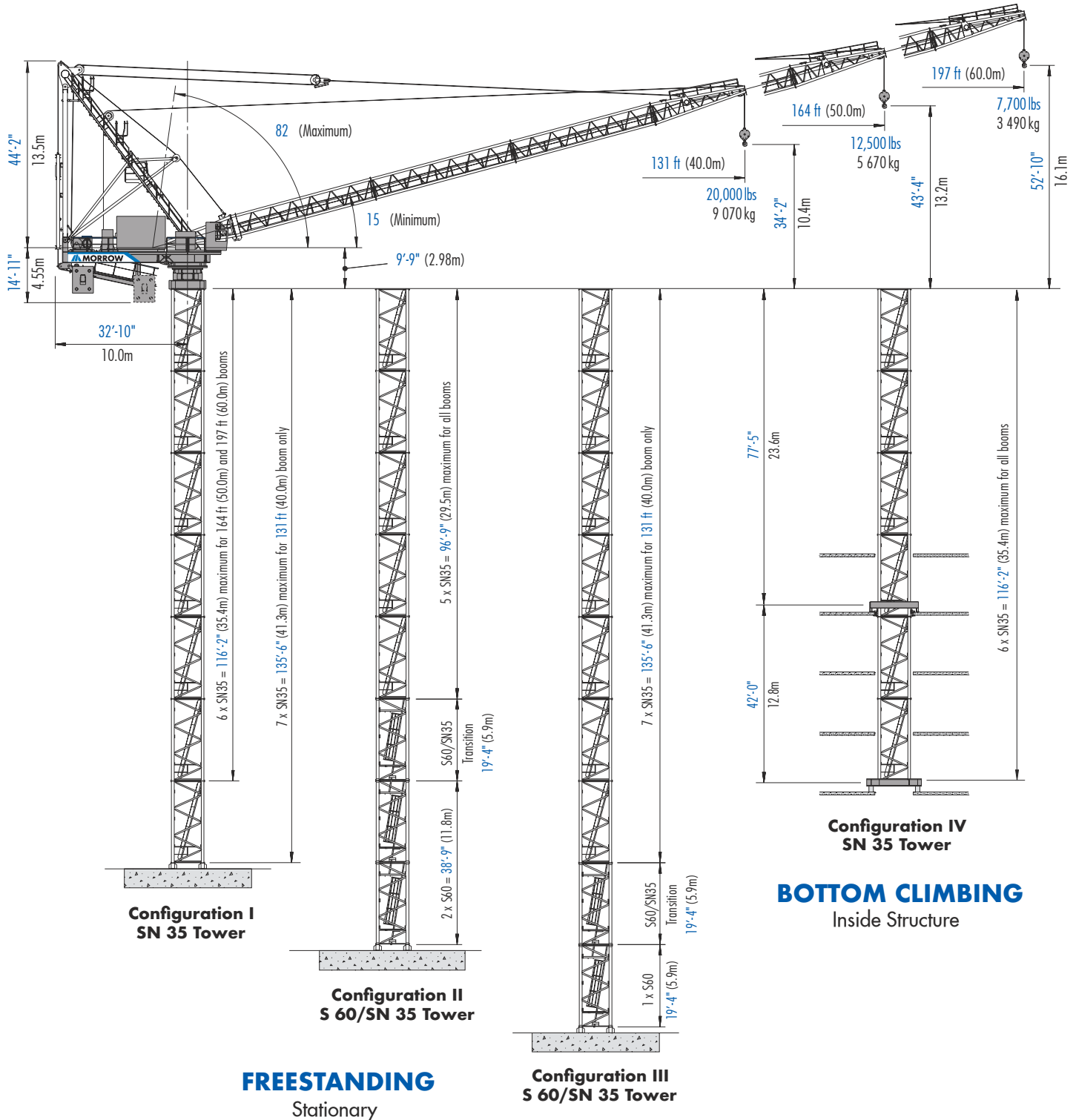


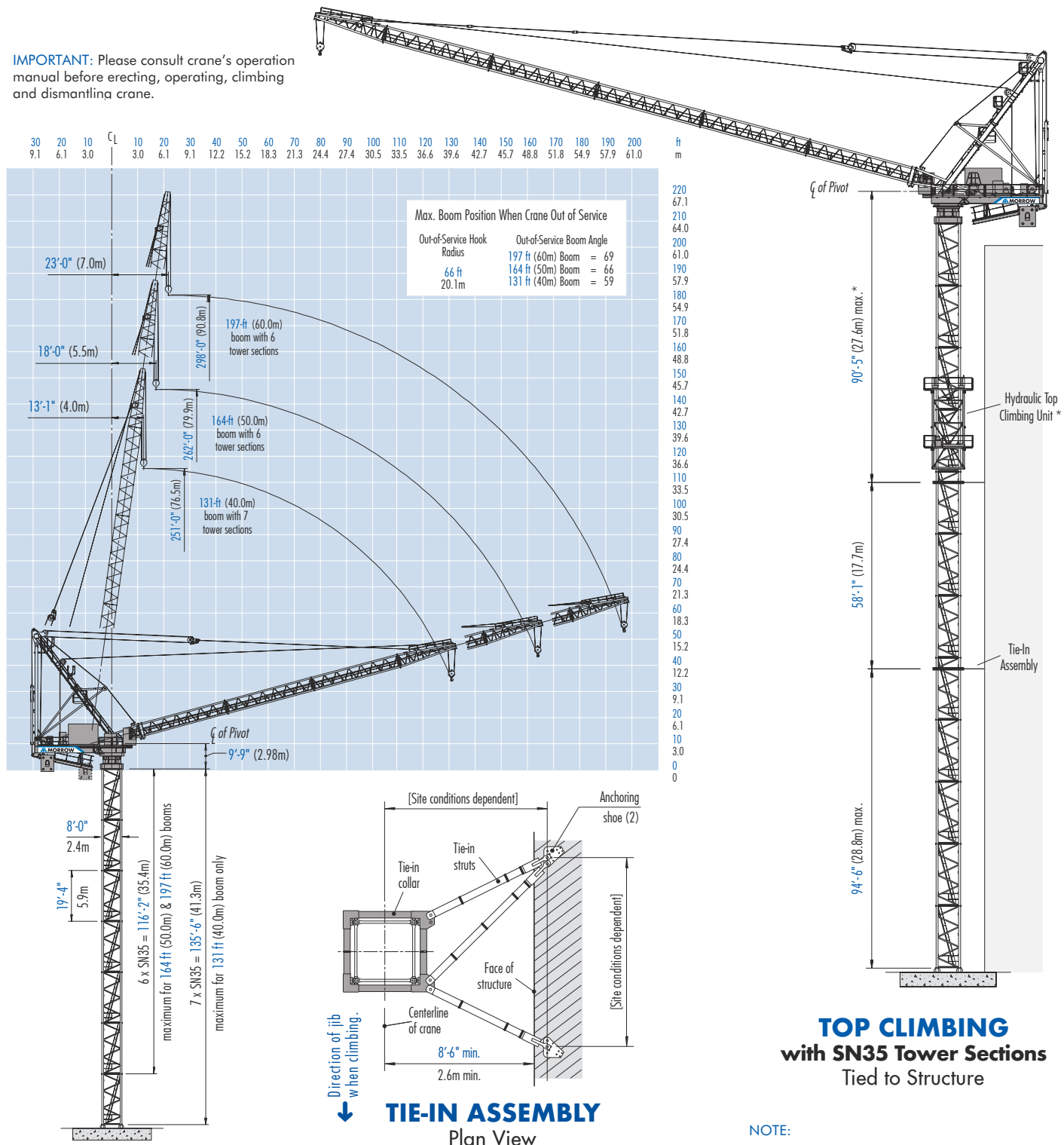
# Pecco SN 355

## TOWER CRANE



# Pecco SN 355

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



## FREESTANDING Stationary with SN35 Tower Sections

**NOTE:** The tie-in assembly shown above 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.

## TOP CLIMBING with SN35 Tower Sections Tied to Structure

**NOTE:**

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

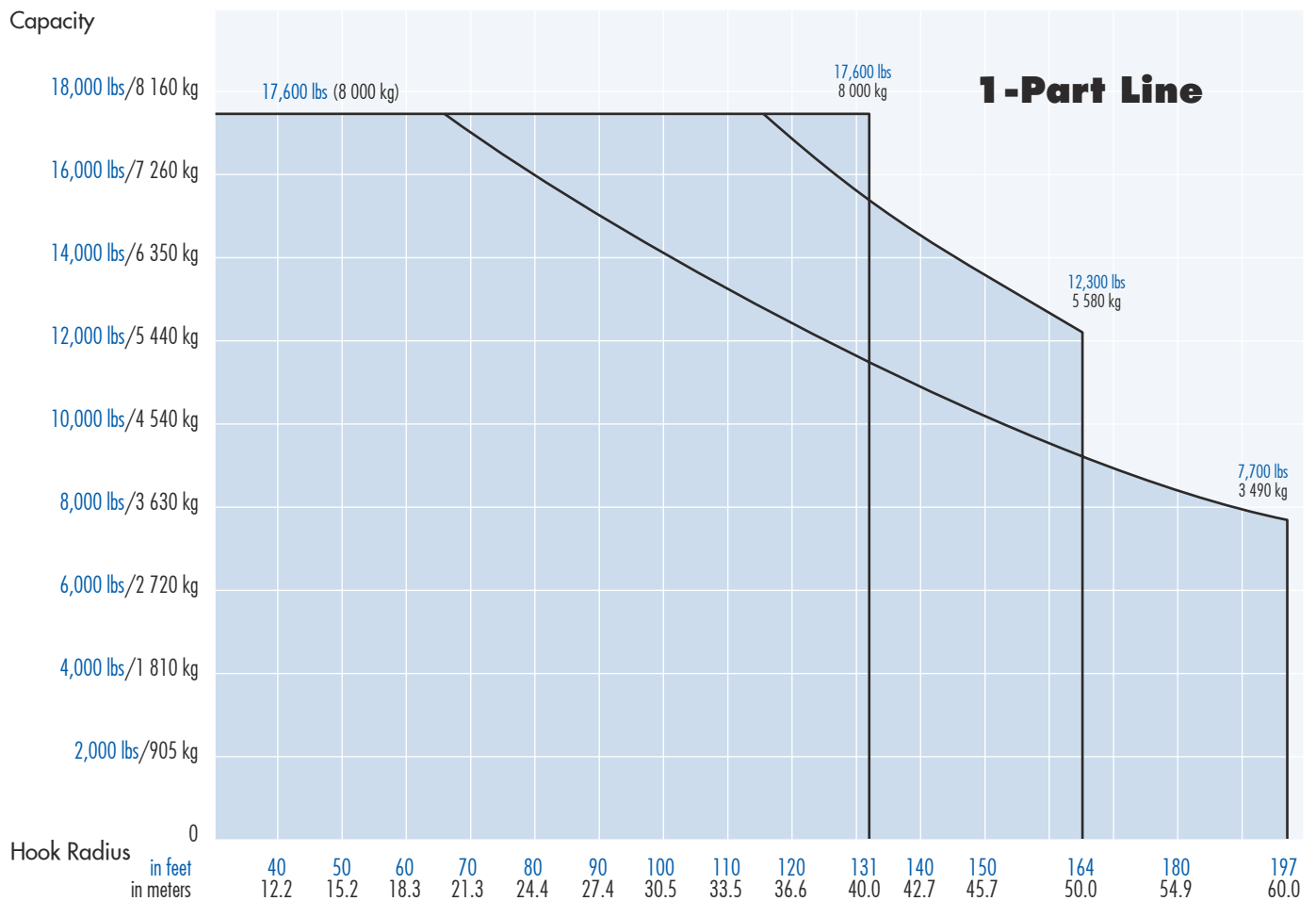
Consult Morrow Equipment for specific information regarding alternate tower configurations, dimensions, tie-in locations, reaction forces and slab openings.

## Radius and Capacities

### 1-Part Line

| Hook Radius     | 1-Part Line<br>Max Capacity — Radius    | ft<br>m   | 50<br>15.2      | 60<br>18.3      | 70<br>21.3      | 80<br>24.4      | 90<br>27.4      | 100<br>30.5     | 110<br>33.5     | 120<br>36.6     | 131<br>40.0     | 140<br>42.7     | 150<br>45.7     | 160<br>48.8     | 164<br>50.0     | 170<br>51.8    | 180<br>54.9    | 190<br>57.9    | 197<br>60.0    |
|-----------------|-----------------------------------------|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|----------------|
| 197 ft<br>60.0m | 17,600 lbs — 66 ft<br>8 000 kg — 20.1m  | lbs<br>kg | 17,600<br>8 000 | 17,600<br>8 000 | 17,000<br>7 710 | 16,100<br>7 300 | 15,000<br>6 800 | 14,200<br>6 440 | 13,250<br>6 010 | 12,400<br>5 625 | 11,600<br>5 260 | 10,800<br>4 900 | 10,200<br>4 625 | 9,500<br>4 310  | 9,300<br>4 220  | 9,000<br>4 080 | 8,450<br>3 830 | 8,000<br>3 630 | 7,700<br>3 490 |
| 164 ft<br>50.0m | 17,600 lbs — 115 ft<br>8 000 kg — 35.0m | lbs<br>kg | 17,600<br>8 000 | 17,600<br>8 000 | 17,600<br>8 000 | 17,600<br>8 000 | 17,600<br>8 000 | 17,600<br>8 000 | 17,600<br>8 000 | 16,800<br>7 620 | 15,400<br>6 985 | 14,500<br>6 580 | 13,500<br>6 125 | 12,640<br>5 735 | 12,300<br>5 580 |                |                |                |                |
| 131 ft<br>40.0m | 17,600 lbs — 131 ft<br>8 000 kg — 40.0m | lbs<br>kg | 17,600<br>8 000 | 17,600<br>8 000 | 17,600<br>8 000 | 17,600<br>8 000 | 17,600<br>8 000 | 17,600<br>8 000 | 17,600<br>8 000 | 17,600<br>8 000 | 17,600<br>8 000 |                 |                 |                 |                 |                |                |                |                |

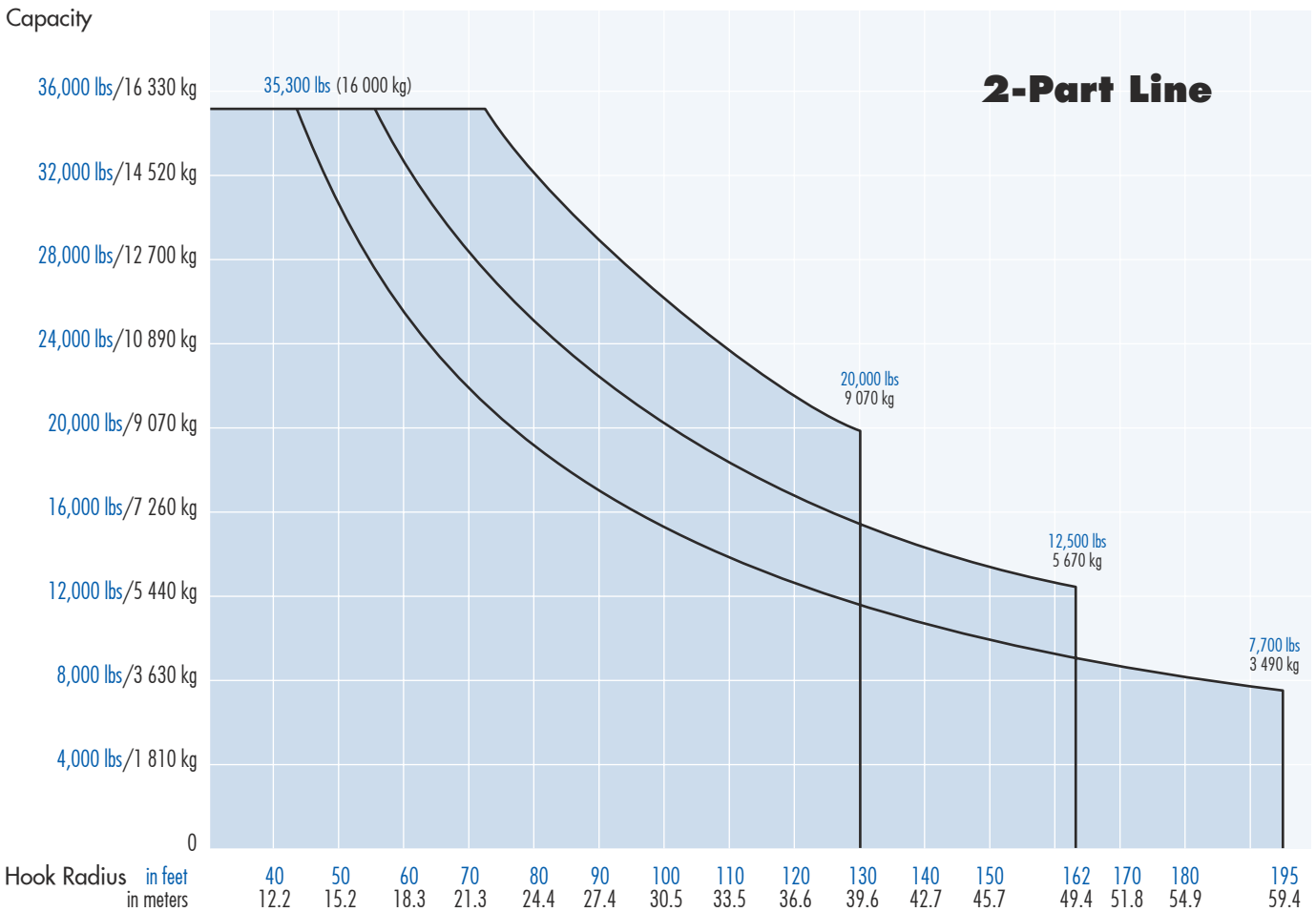
Capacity



Radius and Capacities

2-Part Line

| Hook Radius     | Maximum Capacity – Radius               | ft<br>m   | 50<br>15.2       | 60<br>18.3       | 70<br>21.3       | 80<br>24.4       | 90<br>27.4       | 100<br>30.5      | 110<br>33.5      | 120<br>36.6     | 130<br>39.6     | 140<br>42.7     | 150<br>45.7     | 160<br>48.8     | 162<br>49.4     | 170<br>51.8    | 180<br>54.9    | 190<br>57.9    | 195<br>59.4    |
|-----------------|-----------------------------------------|-----------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|----------------|
| 195 ft<br>59.4m | 35,300 lbs – 44 ft<br>16 000 kg – 13.4m | lbs<br>kg | 30,500<br>13 835 | 26,000<br>11 795 | 21,900<br>9 935  | 19,000<br>8 620  | 16,900<br>7 665  | 15,200<br>6 895  | 14,000<br>6 350  | 12,700<br>5 760 | 11,700<br>5 310 | 11,000<br>4 990 | 10,200<br>4 625 | 9,450<br>4 285  | 9,300<br>4 220  | 8,900<br>4 035 | 8,400<br>3 810 | 8,000<br>3 630 | 7,700<br>3 490 |
| 162 ft<br>49.4m | 35,300 lbs – 56 ft<br>16 000 kg – 17.1m | lbs<br>kg | 35,200<br>16 000 | 33,500<br>15 195 | 29,000<br>13 155 | 25,300<br>11 475 | 22,600<br>10 250 | 20,200<br>9 160  | 18,500<br>8 390  | 17,000<br>7 710 | 15,600<br>7 075 | 14,500<br>6 575 | 13,300<br>6 030 | 12,635<br>5 730 | 12,500<br>5 670 |                |                |                |                |
| 130 ft<br>39.6m | 35,300 lbs – 72 ft<br>16 000 kg – 21.9m | lbs<br>kg | 35,200<br>16 000 | 35,200<br>16 000 | 35,200<br>16 000 | 32,500<br>14 740 | 29,100<br>13 200 | 26,000<br>11 795 | 23,700<br>10 750 | 21,700<br>9 845 | 20,000<br>9 070 |                 |                 |                 |                 |                |                |                |                |



## Hoist Speed and Capacity

| Hoist Unit                                                                                                                      |             | 1-Part Line  |            |             |            |
|---------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|------------|-------------|------------|
| 165 hp (122 kW) AC hoist unit<br>4-speed gearbox<br>Remote-controlled gear shifting<br>Eddy current brake<br><br>1P520<br>2P260 | Gear        | Capacity     | Line Speed | Capacity    | Line Speed |
|                                                                                                                                 | 1           | 17,600 lbs @ | 252 fpm    | 8 000 kg @  | 76 m/min   |
|                                                                                                                                 | 2           | 11,025 lbs @ | 390 fpm    | 5 000 kg @  | 120 m/min  |
|                                                                                                                                 | 3           | 6,600 lbs @  | 630 fpm    | 3 000 kg @  | 192 m/min  |
|                                                                                                                                 | 4           | 3,850 lbs @  | 980 fpm    | 1 750 kg @  | 300 m/min  |
|                                                                                                                                 | 2-Part Line |              |            |             |            |
|                                                                                                                                 | 1           | 35,300 lbs @ | 126 fpm    | 16 000 kg @ | 38 m/min   |
|                                                                                                                                 | 2           | 22,050 lbs @ | 195 fpm    | 10 000 kg @ | 60 m/min   |
|                                                                                                                                 | 3           | 13,200 lbs @ | 315 fpm    | 6 000 kg @  | 96 m/min   |
|                                                                                                                                 | 4           | 7,700 lbs @  | 490 fpm    | 3 500 kg @  | 150 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 SN 355 Operation Manual for additional information.

## Motor Information

| Drive Unit | Horsepower | Kilowatts | Speed                 |
|------------|------------|-----------|-----------------------|
| Luffing    | 165 hp     | 122 kW    | 15° to 82° in 82 sec* |
| Swing      | 2 x 12 hp  | 2 x 9 kW  | 1.0 rpm               |

\* **NOTE:** Luffing speed figure shown is for crane without load. Speed varies according to load on hook.

## 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.

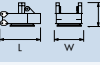
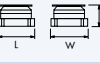
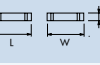
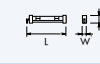
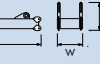
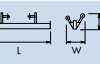
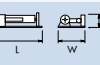
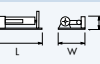
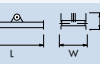
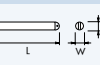
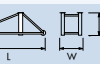
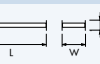
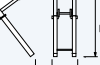
**Service size:** 400 Amperes

### 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 1,200 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<br>L x W x H                           | Weight                  | Description                                                                                                        |                                                                                       | Dimensions<br>L x W x H                           | Weight                  |
|--------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------|
| Turntable (Complete)<br>Upper & Lower Part       |    | 11'-6" x 8'-1" x 12'-2"<br>3.5m x 2.46m x 3.71m   | 30,100 lbs<br>13 655 kg | Tower Section<br>SN35 (or S35)                                                                                     |    | 19'-5" x 7'-10" x 8'-0"<br>5.92m x 2.4m x 2.44m   | 8,900 lbs<br>4 040 kg   |
| Turntable<br>Upper Part <sup>1</sup>             |    | 11'-6" x 8'-2" x 5'-9"<br>3.5m x 2.49m x 1.75m    | 16,015 lbs<br>7 265 kg  | Transition Section<br>S60 to SN35                                                                                  |    | 19'-5" x 7'-11" x 7'-11"<br>5.92m x 2.41m x 2.41m | 9,930 lbs<br>4 500 kg   |
| Turntable<br>Lower Part <sup>2</sup>             |    | 8'-8" x 8'-1" x 6'-5"<br>2.64m x 2.46m x 1.96m    | 14,085 lbs<br>6 390 kg  | Tower Section<br>S60                                                                                               |    | 19'-5" x 7'-11" x 7'-11"<br>5.92m x 2.41m x 2.41m | 9,930 lbs<br>4 500 kg   |
| Intermediate Frame                               |    | 8'-8" x 8'-1" x 1'-4"<br>2.64m x 2.46m x 0.41m    | 2,100 lbs<br>950 kg     | Top Climbing Unit <sup>7</sup><br>with Hydraulics (SN35)                                                           |    | 29'-8" x 11'-6" x 11'-6"<br>9.0m x 3.5m x 3.5m    | 25,750 lbs<br>11 680 kg |
| Climbing Beam (each)<br>[2 beams per set]        |    | 10'-9" x 5.5" x 1'-7"<br>3.27m x 0.14m x 0.48m    | 1,250 lbs<br>565 kg     | Climbing Traverse                                                                                                  |    | 7'-4" x 1'-2" x 4'-10"<br>2.24m x 0.36m x 1.47m   | 1,400 lbs<br>635 kg     |
| Machine Deck<br>Only                             |    | 26'-3" x 8'-1" x 8'-1"<br>8.0m x 2.46m x 2.46m    | 17,500 lbs<br>7 940 kg  | Bridge                                                                                                             |    | 4'-11" x 2'-4" x 7'-3"<br>1.5m x 0.71m x 2.21m    | 290 lbs<br>130 kg       |
| Runway for<br>Counterweight Carriage             |    | 21'-4" x 7'-2" x 2'-6"<br>6.5m x 2.18m x 0.76m    | 7,500 lbs<br>3 400 kg   | Boom Section <br>(Butt)         |    | 20'-7" x 6'-5" x 6'-9"<br>6.27m x 2.0m x 2.06m    | 7,770 lbs<br>3 525 kg   |
| Counterweight Carriage                           |    | 15'-5" x 5'-7" x 4'-3"<br>4.7m x 1.7m x 1.3m      | 6,060 lbs<br>2 750 kg   | Boom Section <br>(Intermediate) |    | 34'-2" x 5'-8" x 5'-8"<br>10.4m x 1.72m x 1.72m   | 4,400 lbs<br>2 000 kg   |
| Cab & Electrical Panel<br>on Mounting Frame      |   | 26'-11" x 8'-0" x 9'-2"<br>8.2m x 2.44m x 2.79m   | 10,250 lbs<br>4 650 kg  | Boom Section <br>(Tip)         |   | 22'-10" x 5'-8" x 6'-1"<br>7.0m x 1.72m x 1.85m   | 5,100 lbs<br>2 315 kg   |
| Hoist Unit <sup>4</sup><br>165 hp (122 kW)       |  | 10'-8" x 8'-2" x 4'-7"<br>3.25m x 2.49m x 1.4m    | 12,500 lbs<br>5 670 kg  | Boom Assembly <sup>8</sup><br>197-ft (60.0m) ①②②②②③                                                                |  | 211'-6" x 6'-5" x 6'-9"<br>64.5m x 2.0m x 2.06m   | 39,740 lbs<br>18 025 kg |
| Luffing Winch <sup>4</sup><br>165 hp (122 kW)    |  | 9'-6" x 6'-3" x 3'-9"<br>2.9m x 1.91m x 1.14m     | 8,400 lbs<br>3 810 kg   | Boom Assembly <sup>8</sup><br>164-ft (50.0m) ①②②②②③                                                                |  | 177'-4" x 6'-5" x 6'-9"<br>35.8m x 2.0m x 2.06m   | 34,620 lbs<br>15 705 kg |
| A-Frame Top                                      |  | 28'-11" x 7'-11" x 7'-3"<br>8.8m x 2.41m x 2.21m  | 12,350 lbs<br>5 600 kg  | Boom Assembly <sup>8</sup><br>131-ft (40.0m) ①②②②③                                                                 |  | 143'-3" x 6'-5" x 6'-9"<br>43.7m x 2.0m x 2.06m   | 29,500 lbs<br>13 380 kg |
| A-Frame Suspension (each)<br>[2 members per set] |  | 37'-7" x 1'-1" x 1'-6"<br>11.46m x 0.33m x 0.46m  | 2,040 lbs<br>925 kg     | Sheave Block for<br>Luffing Wire Rope                                                                              |  | 5'-8" x 4'-8" x 3'-2"<br>1.73m x 1.42m x 0.97m    | 1,600 lbs<br>725 kg     |
| Guide Frame for<br>Counterweight Rope            |  | 34'-6" x 8'-0" x 7'-11"<br>10.52m x 2.44m x 2.41m | 7,800 lbs<br>3 540 kg   | Hook Block                                                                                                         |  | 2'-8" x 1'-7" x 4'-3"<br>0.81m x 0.48m x 1.3m     | 1,900 lbs<br>860 kg     |
| A-Frame Support                                  |  | 18'-10" x 7'-11" x 3'-5"<br>5.74m x 2.41m x 1.04m | 6,700 lbs<br>3 040 kg   | Counterweight (each)<br>[4 required]                                                                               |  | 4'-11" x 1'-2" x 6'-3"<br>1.5m x 0.36m x 1.9m     | 16,000 lbs<br>7 260 kg  |
| A-Frame <sup>5</sup><br>Sub-assembly A           |  | 43'-0" x 8'-1" x 16'-5"<br>13.1m x 2.46m x 5.0m   | 17,730 lbs<br>8 040 kg  | Ladder to A-Frame Top                                                                                              |  | 25'-7" x 3'-0" x 3'-11"<br>7.8m x 0.9m x 1.19m    | 1,300 lbs<br>590 kg     |
| A-Frame <sup>6</sup><br>Sub-assembly B           |  | 30'-6" x 8'-1" x 19'-0"<br>9.3m x 2.46m x 5.78m   | 15,600 lbs<br>7 075 kg  | Ladder to Intermediate<br>Platform                                                                                 |  | 28'-0" x 3'-0" x 3'-11"<br>8.53m x 0.9m x 1.19m   | 1,200 lbs<br>545 kg     |
| Machine Deck <sup>3</sup><br>Assembly            |  | 26'-3" x 15'-5" x 13'-0"<br>8.0m x 4.7m x 3.97m   | 30,300 lbs<br>13 745 kg | Trolley for Vertical<br>Counterweight                                                                              |  | 7'-10" x 1'-4" x 5'-5"<br>2.39m x 0.41m x 1.65m   | 1,000 lbs<br>455 kg     |
|                                                  |                                                                                     |                                                   |                         | Guide Track for<br>Vertical Counterweight                                                                          |  | 22'-9" x 7'-11" x 1'-8"<br>6.93m x 2.41m x 0.51m  | 1,830 lbs<br>830 kg     |
|                                                  |                                                                                     |                                                   |                         | Vertical Counterweight<br>Block                                                                                    |  | 6'-7" x 6" x 3'-8"<br>2.0m x 0.15m x 1.1m         | 5,600 lbs<br>2 540 kg   |

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

<sup>1</sup> Upper Part includes swing motors. Does not include slewing ring, slewing ring support, intermediate frame and climbing beams.

<sup>2</sup> Lower Part includes slewing ring, slewing ring support, intermediate frame and climbing beams. Does not include Upper Part and swing motors.

<sup>3</sup> Includes counterweight runway, counterweight carriage and platform.

<sup>4</sup> Includes frame. Does not include wire rope.

<sup>5</sup> Includes A-frame head, A-frame suspension members (2 ea.), ladder and platforms.

<sup>6</sup> Includes guide frame for counterweight rope, A-frame support section and ladder.

<sup>7</sup> Includes weight of climbing traverse.

<sup>8</sup> Includes boom sections, luffing rope pulley block and boom suspension ropes. Does not include hoist wire rope and hook block.