



# PECCO

# specifications

## Tower Crane

**Model:**  
**PC1400**

Maximum Reach,  
148 feet

Maximum Lift Capacity,  
27,500 pounds





# PECCO

# specifications

## Loads and Speeds

105 HP AC drive unit  
with 4 speed remote controlled gear box.\*

| Gear | 2-Part Trolley |               | 4-Part Trolley |               |
|------|----------------|---------------|----------------|---------------|
|      | Maximum Load   | Maximum Speed | Maximum Load   | Maximum Speed |
| 1    | 22,000 lbs.    | 100 fpm       | 27,500 lbs     | 50 fpm        |
| 2    | 15,000 lbs     | 200 fpm       | 27,500 lbs     | 100 fpm       |
| 3    | 9,500 lbs      | 300 fpm       | 19,000 lbs     | 150 fpm       |
| 4    | 5,500 lbs      | 500 fpm       | 11,000 lbs     | 250 fpm       |

177 HP Ward-Leonard drive unit  
with 2 speed remote controlled gear box.\*

| Gear | 2-Part Trolley |               | 4-Part Trolley |               |
|------|----------------|---------------|----------------|---------------|
|      | Maximum Load   | Maximum Speed | Maximum Load   | Maximum Speed |
| 1 N  | 22,000 lbs     | 140 fpm       | 27,500 lbs     | 70 fpm        |
| 1 F  | 14,000 lbs     | 250 fpm       | 27,500 lbs     | 125 fpm       |
| 2 N  | 9,900 lbs      | 360 fpm       | 19,800 lbs     | 180 fpm       |
| 2 F  | 5,000 lbs      | 710 fpm       | 10,000 lbs     | 355 fpm       |

N = normal operation; F = field weakening operation

\*Certain crane models are equipped with different drives, always check appropriate capacity and speed.

## Non-Hoisting Functions

| Movement                                   | Speed          | Power             | Special Notes                                                                                                 |
|--------------------------------------------|----------------|-------------------|---------------------------------------------------------------------------------------------------------------|
| Slewing                                    | 1 rpm          | Two 6.5hp Motors  | Ball-bearing race                                                                                             |
| Trolley Travel                             | 160 or 250 fpm | One 18.0hp Motor  | Variable from 16 to 250 fpm with 2 speed remote controlled gear box — motor equipped with eddy current brake. |
| Crane Travel for travelling configurations | 100 fpm        | Two 17.0hp Motors | Minimum radius of rail is 66'                                                                                 |

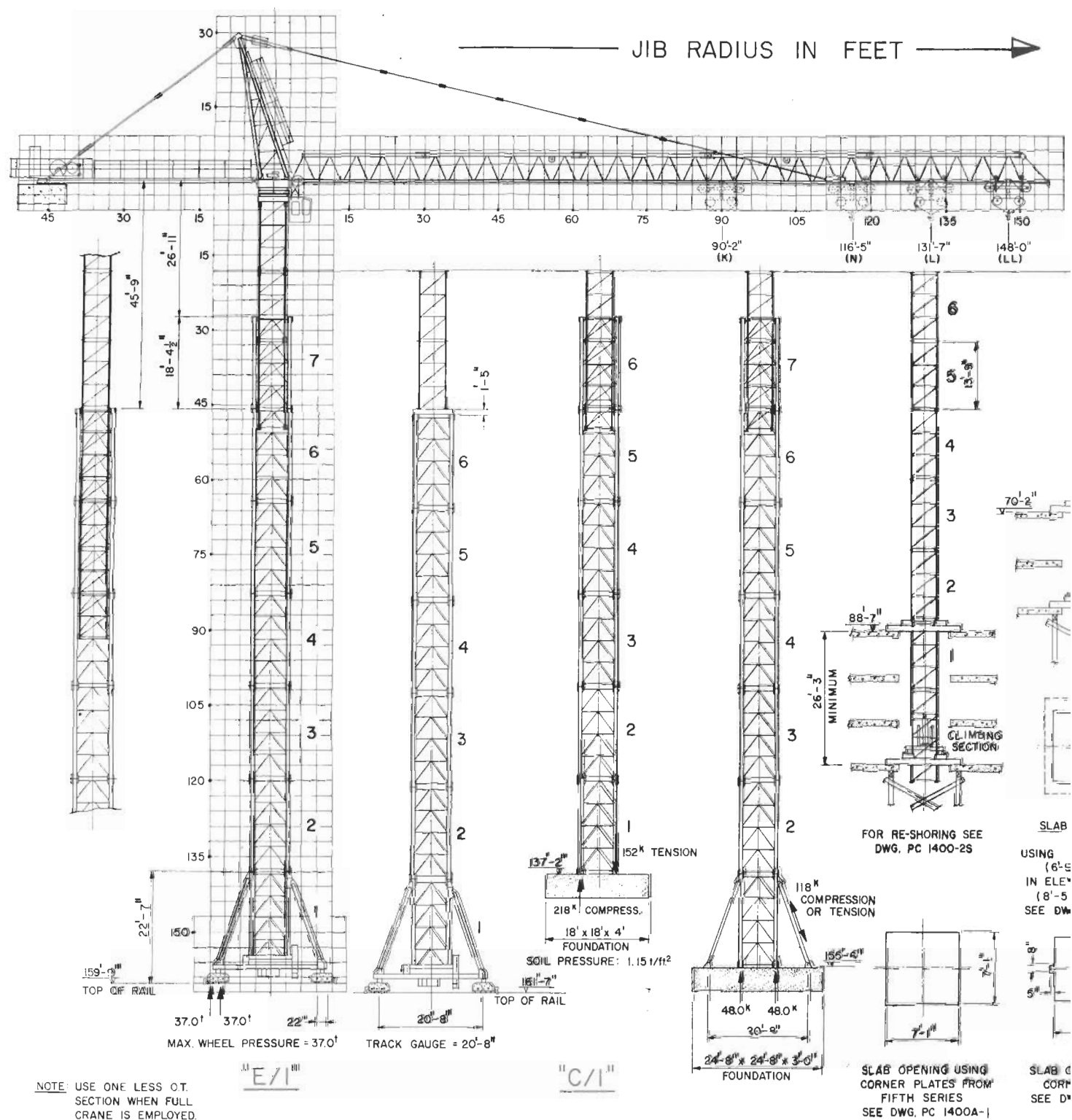
Power required for all motors is 440-volt, 60-Hertz, 3-phase.

Note: American Pecco reserves the right to change specifications without notice.

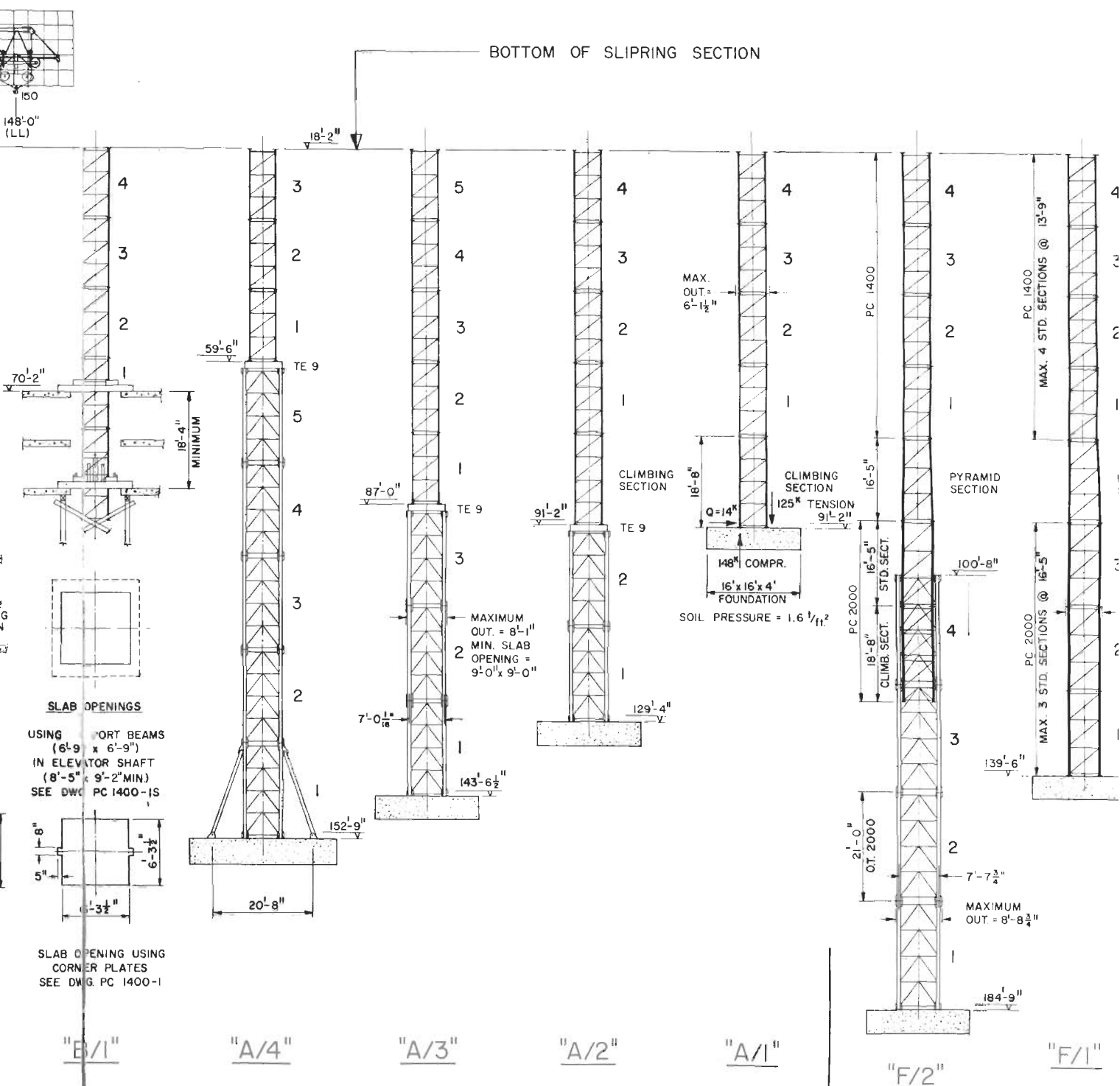


# PECCO Tower Cranes

## PC1400 Configurations



CONFIGURA



## FIGURATIONS OF PECCO CRANE TYPE PC1400

CONFIGURATIONS  
USING PYRAMID SECTION  
PC 2000 / PC 1400



## Capacities

| Jib Model                | 2 Part Trolley              |         |         |         | 4 Part Trolley |         |         |         |
|--------------------------|-----------------------------|---------|---------|---------|----------------|---------|---------|---------|
|                          | K                           | N       | L       | LL      | K              | N       | L       | LL      |
| Maximum Hook Reach       | 90'-3"                      | 116'-6" | 132'-3" | 148'-0" | 90'-3"         | 116'-6" | 132'-3" | 148'-0" |
| Distance Hook from Tower | LIFTING CAPACITY IN POUNDS* |         |         |         |                |         |         |         |
| 11'-2"                   | 22,000                      | 22,000  | 22,000  | 22,000  | 27,500         | 27,500  | 27,500  | 27,500  |
| 34'-6"                   | ↓                           | ↓       | ↓       | ↓       | ↓              | ↓       | ↓       | 27,500  |
| 36'-5"                   | ↓                           | ↓       | ↓       | ↓       | ↓              | ↓       | 27,500  | 25,800  |
| 37'-3"                   | ↓                           | ↓       | ↓       | ↓       | ↓              | 27,500  | 26,500  | 25,000  |
| 41'-6"                   | ↓                           | ↓       | ↓       | 22,000  | ↓              | 24,500  | 23,650  | 22,400  |
| 41'-9"                   | ↓                           | ↓       | ↓       | 21,950  | 27,500         | 24,450  | 23,600  | 22,350  |
| 44'-6"                   | ↓                           | ↓       | 22,000  | 19,900  | 25,500         | 22,500  | 21,900  | 20,500  |
| 45'-6"                   | ↓                           | 22,000  | 21,200  | 19,250  | 25,000         | 19,400  | 21,400  | 20,000  |
| 52'-0"                   | 22,000                      | 18,700  | 18,100  | 16,100  | 22,400         | 18,600  | 18,100  | 16,800  |
| 60'-0"                   | 18,700                      | 15,800  | 15,450  | 13,800  | 17,900         | 15,600  | 15,300  | 14,200  |
| 70'-0"                   | 15,500                      | 13,200  | 12,900  | 11,500  | 15,000         | 12,650  | 12,400  | 11,750  |
| 80'-0"                   | 13,200                      | 11,300  | 11,100  | 9,950   | 12,700         | 10,450  | 10,250  | 9,700   |
| 90'-3"                   | 11,550                      | 9,900   | 9,700   | 8,800   | 10,700         | 8,800   | 8,600   | 8,200   |
| 100'-0"                  |                             | 8,650   | 8,400   | 7,800   |                | 7,800   | 7,600   | 7,200   |
| 116'-6"                  |                             | 7,200   | 7,000   | 6,900   |                | 6,300   | 6,200   | 5,800   |
| 132'-3"                  |                             |         | 5,950   | 5,500   |                |         | 5,100   | 4,700   |
| 148'-0"                  |                             |         |         | 4,620   |                |         |         | 3,800   |

\*SOME CRANE MODELS HAVE A 17,600-LB. MAXIMUM CAPACITY.

## Weights

### Jib Configuration

|                                             | <u>K</u>    | <u>N</u>    | <u>L</u>    | <u>LL</u>   |
|---------------------------------------------|-------------|-------------|-------------|-------------|
| Counterweight for 105 HP Hoist Unit         | 14,350 lbs. | 18,500 lbs. | 22,700 lbs. | 26,900 lbs. |
| Counterweight for 177 HP 2 Speed Hoist Unit | 8,350 lbs.  | 12,550 lbs. | 16,750 lbs. | 21,000 lbs. |

(Refer to technical data for counterweights used with other hoist units)

### Tower Configuration

|                                             | <u>A/1</u> | <u>B/1*</u> | <u>C/1</u> | <u>C/2</u> | <u>E/1</u> |
|---------------------------------------------|------------|-------------|------------|------------|------------|
| Weight, without counterweight, using jib LL | 77,880     | 91,740      | 109,120    | 123,000    | 140,360    |

\*Including climbing frames and support beams



## Parts

| Item | Description                                                       | Supplied in configuration | Sketch | Dimensions in (ft)<br>a b c | Weight per piece (lbs) | Remarks                                       |
|------|-------------------------------------------------------------------|---------------------------|--------|-----------------------------|------------------------|-----------------------------------------------|
| 01   | Undercarriage without slewing arms with bogie                     | E                         |        | 34'-10 1/2" 11'-10" 4'-8"   | 11,550                 | With travel gear and motor                    |
| 02   | Slewing arm with bogie                                            | E                         |        | 11'-8" 1'-10" 4'-8"         | 3,014                  | 2 pieces provided                             |
| 03   | Knee brace                                                        | C/2, E                    |        | 17'-4 1/2" 1'-0 1/4" 1'-0"  | 1,188                  | 2 pieces provided                             |
| 04   | Support for central ballast                                       | E                         |        | 17'-4 1/2" 1'-0 1/4" 1'-0"  | 1,111                  | 2 pieces provided                             |
| 05   | Outer tower section I                                             | C/2, E                    |        | 20'-8" 0'-7" 1'-4"          | 935                    | 2 pieces provided                             |
| 06   | Outer tower section II                                            | C/1, C/2, D/E             |        | 8'-8" 0'-4" 0'-8"           | 154                    | 2 pieces provided                             |
| 07   | Outer tower section IV                                            | C/1, C/2, D/E             |        | 18'-6" 9'-3" 3 1/2"         | 8,602                  |                                               |
| 08   | Foundation frames                                                 | C/2                       |        | 18'-6" 8'-1" 8'-1"          | 6,160                  |                                               |
| 09   | Base shoes for inner tower                                        | A, B                      |        | 18'-6" 8'-1" 8'-1"          | 5,808                  |                                               |
| 10   | Support for crane and climbing ladders                            | B                         |        | 9'-9" 1'-10 1/2" 1'-1"      | 550                    | 4 pieces provided                             |
| 11   | Tower section, standard                                           | A,B,C/1, C/2,D,E          |        | 1'-11" 1'-0 1/2" 0 1/2"     | 352                    | 4 pieces provided                             |
| 12   | Tower section, standard, with sliping assembly                    | A,B,C/1, C/2,D,E          |        | 13'-11" 6'-1" 1 1/4"        | 462                    | 2 pieces provided                             |
| 13   | Climbing section with platform, without hydraulic system          | A                         |        | 13'-11" 6'-1" 1 1/4"        | 3,718                  |                                               |
| 14   | Climbing section with platform and hydraulic system               | B, C/1, C/2,D,E           |        | 13'-11" 6'-1" 1 1/4"        | 4,246                  |                                               |
| 15   | Climbing frame with corner plates, without corner plates          | B                         |        | 18'-0" 6'-3" 6'-1"          | 6,292                  |                                               |
| 16   | Support beam                                                      | B                         |        | 18'-0" 6'-3" 6'-1"          | 11,352                 |                                               |
| 17   | Climbing traverse                                                 | B,C/1, C/2,D,E            |        | 8'-4 1/2" 2'-5 1/2" 1'-10"  | 2,200                  | 3 pieces provided                             |
| 18   | Climbing ladders for building                                     | B                         |        | 8'-9" 2'-5 1/2" 2'-1 1/2"   | 1,980                  | 2 pieces provided                             |
| 19   | Climbing ladders for outer tower                                  | B                         |        | 14'-11" 1'-0" 1'-4"         | 1,680                  | 6 pieces provided                             |
| 20   | Tower top with ladder                                             | B,C/1, C/2,D,E            |        | 14'-11" 1'-0" 1'-4"         | 1,680                  | 6 pieces provided                             |
| 21   | Man ladders and platforms                                         | B,C/1, C/2,D,E            |        | 6'-11 1/2" 1'-4" 2'-7 1/2"  | 3,300                  |                                               |
| 22   | Crane cabin fastening                                             | B                         |        | 14'-11" 1'-0" 1'-4"         | 1,680                  | 6 pieces provided                             |
| 23   | Operator's cabin                                                  | A,B,C/1, C/2,D,E          |        | 14'-11" 1'-0" 1'-4"         | 1,680                  | 6 pieces provided                             |
| 24   | Turntable with ball bearing slewing ring and slewing ring support | A,B,C/1, C/2,D,E          |        | 31'-2" 5'-7 1/2" 5'-8 1/2"  | 3,498                  |                                               |
| 25   | Slewing gear                                                      | A,B,C/1, C/2,D,E          |        | 7'-11 1/2" 4'-5 1/2" 6'-4"  | 7,480                  | w/o slew gear w/o platforms w/o control panel |
| 26   | Jib butt section                                                  | A,B,C/1, C/2,D,E          |        | 26'-9" 5'-7 1/2" 8'-10"     | 3,432                  |                                               |

| Item | Description                                       | Supplied in configuration | Sketch | Dimensions in (ft)<br>a b c | Weight per piece (lbs) | Remarks                                                          |
|------|---------------------------------------------------|---------------------------|--------|-----------------------------|------------------------|------------------------------------------------------------------|
| 27   | Jib section II withrolley unit                    | A,B,C/1, C/2,D,E          |        | 32'-1" 5'-9" 6'-3"          | 3,640                  |                                                                  |
| 28   | Jib section 3                                     | A,B,C/1, C/2,D,E          |        | 26'-10" 5'-7" 6'-3"         | 2,299                  | omitted for jib K                                                |
| 29   | Jib section 4                                     | A,B,C/1, C/2,D,E          |        | 32'-1" 5'-7" 6'-3"          | 2,310                  |                                                                  |
| 30   | Jib section 5                                     | A,B,C/1, C/2,D,E          |        | 16'-5" 5'-7" 6'-3"          | 1,254                  | 1 Piece for Jib L1 2 Pieces for jib L2                           |
| 31   | Jib end section                                   | A,B,C/1, C/2,D,E          |        | 5'-10 1/2" 5'-7" 6'-7 1/2"  | 649                    |                                                                  |
| 32   | Suspension bars for jib                           | A,B,C/1, C/2,D,E          |        | — — —                       | 1,980                  |                                                                  |
| 33   | Trolley                                           | A,B,C/1, C/2,D,E          |        | 8'-6" 6'-9" 3'-6"           | 979                    |                                                                  |
| 34   | Counter jib                                       | A,B,C/1, C/2,D,E          |        | 47'-7" 8'-11 1/2" 1'-3"     | 4,620                  |                                                                  |
| 35   | Catwalk for the counter jib                       | A,B,C/1, C/2,D,E          |        | — — —                       | 792                    | Shipped disassembled                                             |
| 36   | Hoist winch with hoist winch frame and drive unit | A,B,C/1, C/2,D,E          |        | 15'-5 1/2" 8'-11" 3'-5"     | 11,644                 | 105 H.P. unit                                                    |
| 37   | Ballast blocks (central ballast)                  | E                         |        | 15'-5 1/2" 8'-11" 3'-5"     | 15,400                 | 177 H.P. unit                                                    |
| 38   | Erection sheave block for jib                     | A,B,C/1, C/2,D,E          |        | 8'-2 1/2" 3 1/2" 1'-11"     | 5,500                  |                                                                  |
| 39   | Erection frame for ballast                        | A,B,C/1, C/2,D,E          |        | 8'-2 1/2" 3 1/2" 1'-11"     | 11,000                 |                                                                  |
| 40   | Counter weights for counter jib                   | A,B,C/1, C/2,D,E          |        | — — —                       | 1,232                  |                                                                  |
| 41   | Suspension bars for counter jib                   | A,B,C/1, C/2,D,E          |        | — — —                       | 363                    |                                                                  |
| 42   | Load block                                        | A,B,C/1, C/2,D,E          |        | 9'-10" 0'-8" 6'-4"          | 616                    | w/o concrete filling                                             |
| 43   | Erection sheave                                   | C/1, C/2, D,E             |        | 9'-10" 0'-8" 6'-4"          | 4,180                  | w/o concrete filling                                             |
| 44   | Accessories, cables, pins, bolts, nuts, etc       | A,B,C/1, C/2,D,E          |        | 9'-10" 0'-8" 6'-4"          | 5,060                  | w/o concrete filling with concrete filling with concrete filling |
| 45   | Control panel for hoisting unit                   | A,B,C/1, C/2,D,E          |        | — — —                       | 836                    |                                                                  |
| 46   | Resistance panel for hoisting unit                | E                         |        | 2'-4 1/2" 1'-2" 5'-7"       | 418                    | hook with 1 sheave (2-part line)                                 |
| 47   | Overload limit switch                             | A,B,C/1, C/2,D,E          |        | 6'-5" 0'-8" 3'-8"           | 495                    | hook with 2 sheaves (4-part line)                                |
| 48   | Electrical accessories                            | A,B,C/1, C/2,D,E          |        | 2'-4 1/2" 1'-2" 5'-7"       | 539                    |                                                                  |
| 49   | Hoist drum                                        | E                         |        | 2'-4 1/2" 1'-2" 5'-7"       | 418                    |                                                                  |
| 50   | Foundation plate for outer tower                  | C/1, D                    |        | 2'-4 1/2" 1'-2" 5'-7"       | 231                    | 4 pieces provided                                                |
| 51   | Corner plates                                     | B                         |        | — — —                       | 84                     | 12 pieces provided                                               |