

# SPECIFICATIONS



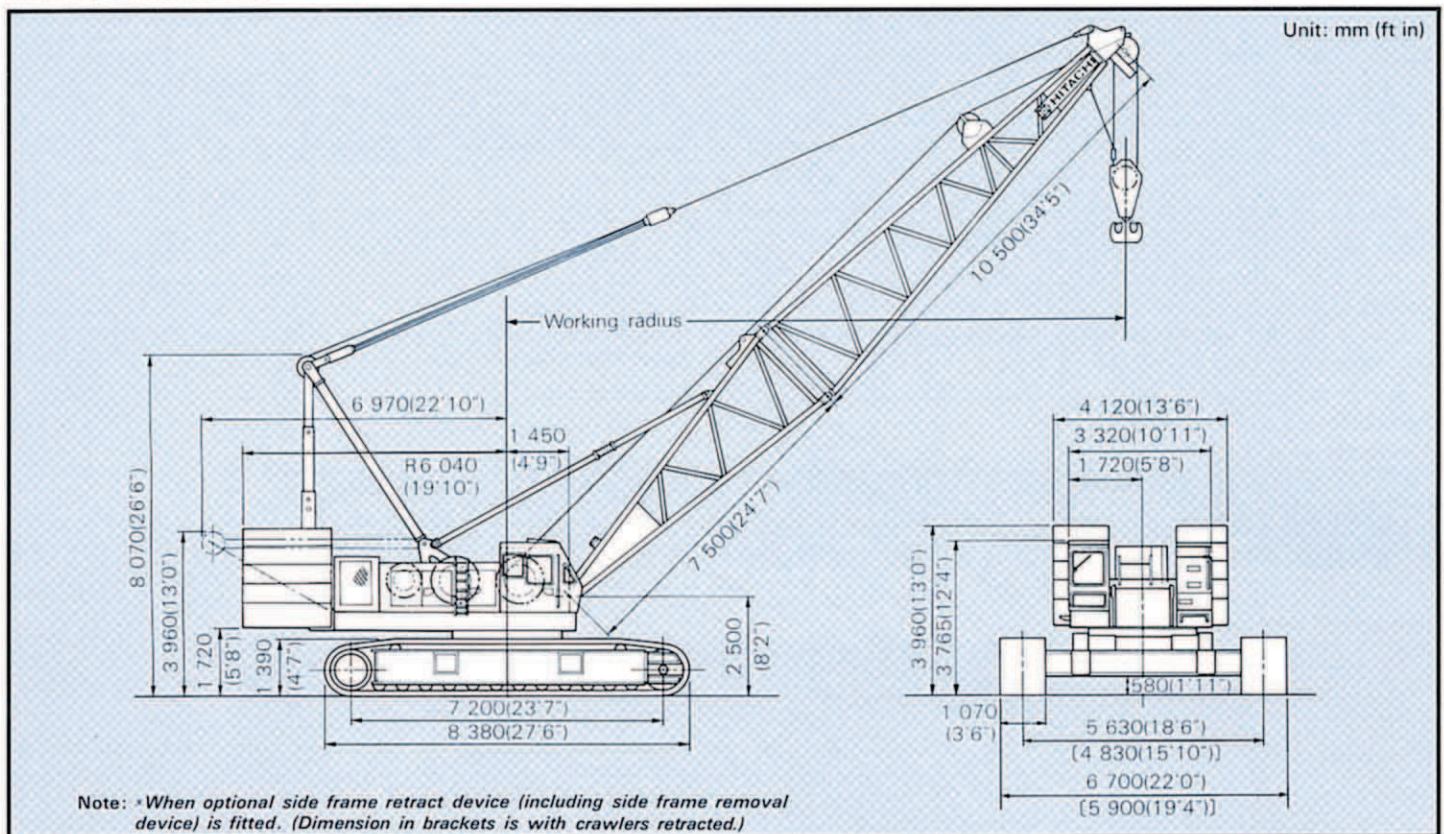
**HITACHI**

## KH850-3

### HYDRAULIC CRAWLER CRANE

Max. Lifting Capacity: 150 000 kg (330 700 lb) at 5.0m (16'5")

#### Dimensions



#### Specifications

|                           |                           |                                                                                                                                     |
|---------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Maximum rated load        |                           | 150 000 kg (330 700 lb) at 5.0 m (16'5") working radius                                                                             |
| Boom                      | Basic boom length         | 18.0 m (59'1")                                                                                                                      |
|                           | Max. boom length          | 84.0 m (275'7")                                                                                                                     |
|                           | Jib length                | 13.0 m (42'8") to 31.0 m (101'8")                                                                                                   |
|                           | Max. boom with jib length | 103.0 m (337'11") (72.0 m (236'3") + 31.0 m (101'8"))                                                                               |
| Swing speed               |                           | High: 0 to 2.0 min <sup>-1</sup> (0 to 2.0 r.p.m.)<br>Low: 0 to 1.2 min <sup>-1</sup> (0 to 1.2 r.p.m.)                             |
| Travel speed <sup>*</sup> |                           | High: 0 to 1.2 km/h (0 to 0.75 mph)<br>Low: 0 to 0.8 km/h (0 to 0.50 mph)                                                           |
| Gradeability              |                           | 17° (30%)                                                                                                                           |
| Ground pressure           |                           | 0.91 bar (0.91 kgf/cm <sup>2</sup> , 12.9 psi)                                                                                      |
| Operating weight          |                           | Equipped with basic boom, 150 000 kg (330 700 lb) capacity hook and 57 700 kg (127 200 lb) counterweight<br>150 000 kg (330 700 lb) |
| Engine                    | Model                     | ISUZU 6RB1T                                                                                                                         |
|                           | Rated horsepower          | 206 kW (280 PS) at 2 000 min <sup>-1</sup> (2 000 r.p.m.)                                                                           |

\* Speeds may vary with load



## HOOKS

| Capacity                   | Weight                 | Number of hoist reeving and maximum rated loads |                      |                      |                      |                      |                      |                      |                     |                     |                     |                     |                    |                    | kg(lb)             | Application                    |
|----------------------------|------------------------|-------------------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------|---------------------|---------------------|---------------------|--------------------|--------------------|--------------------|--------------------------------|
|                            |                        | 14                                              | 13                   | 12                   | 11                   | 10                   | 9                    | 8                    | 7                   | 6                   | 5                   | 4                   | 3                  | 2                  | 1                  |                                |
| 150 000 kg<br>(330 700 lb) | 2 300 kg<br>(5 070 lb) | 150 000<br>(330 700)                            | 142 000<br>(313 100) | 134 000<br>(295 400) | 127 000<br>(280 000) | 118 000<br>(260 100) | 110 000<br>(242 500) | 100 000<br>(220 500) | 87 500<br>(192 900) | 75 000<br>(165 300) |                     |                     |                    |                    |                    | standard for<br>main boom      |
| 100 000 kg<br>(220 500 lb) | 1 400 kg<br>(3 090 lb) |                                                 |                      |                      |                      |                      |                      | 100 000<br>(220 500) | 87 500<br>(192 900) | 75 000<br>(165 300) | 62 500<br>(137 800) | 50 000<br>(110 200) | 37 500<br>(82 670) | 25 000<br>(55 120) |                    | optional for<br>main boom      |
| 60 000 kg<br>(132 300 lb)  | 1 200 kg<br>(2 650 lb) |                                                 |                      |                      |                      |                      |                      |                      |                     |                     | 60 000<br>(132 300) | 50 000<br>(110 200) | 37 500<br>(82 670) | 25 000<br>(55 120) |                    |                                |
| 25 000 kg<br>(55 120 lb)   | 850 kg<br>(1 870 lb)   |                                                 |                      |                      |                      |                      |                      |                      |                     |                     |                     |                     |                    | 25 000<br>(55 120) |                    |                                |
| 12 500 kg<br>(27 560 lb)   | 500 kg<br>(1 100 lb)   |                                                 |                      |                      |                      |                      |                      |                      |                     |                     |                     |                     |                    |                    | 12 500<br>(27 560) | optional for<br>jib or aux Jib |

### Notes:

This table lists the values based on the use of the Hitachi standard wire rope. \*

\* The Hitachi standard wire rope is Monorope EP 3xF (a+40), z-lay Class C in general.

## DRUMS

### Dimensions

|                 | Rope dia.    | Width         | Drum p.c.d.   | Rope capacity |
|-----------------|--------------|---------------|---------------|---------------|
| Main hoist drum | 28 mm(1.10") | 666 mm(26.2") | 590 mm(23.2") | 290 m(951')   |
| Aux. hoist drum | 28 mm(1.10") | 666 mm(26.2") | 590 mm(23.2") | 290 m(951')   |

### Line speed and line pull

|                 | Max. line speed m/min (ft/min) |          | Effective line pull @                  | Line speed               | Max. starting line pull                | Max. running line pull                 |
|-----------------|--------------------------------|----------|----------------------------------------|--------------------------|----------------------------------------|----------------------------------------|
|                 | Hoisting                       | Lowering |                                        |                          |                                        |                                        |
| Main hoist drum | 75(246)                        | 75(246)  | 131 kN<br>(13 400 kgf)<br>(29 540 lbf) | 37 m/min<br>(121 ft/min) | 186 kN<br>(19 000 kgf)<br>(41 890 lbf) | 196 kN<br>(20 000 kgf)<br>(44 090 lbf) |
| Aux. hoist drum | 75(246)                        | 75(246)  | 131 kN<br>(13 400 kgf)<br>(29 540 lbf) | 37 m/min<br>(121 ft/min) | 186 kN<br>(19 000 kgf)<br>(41 890 lbf) | 196 kN<br>(20 000 kgf)<br>(44 090 lbf) |

### Notes:

1. Line speed and line pull are based on first layer of winding at rated engine rpm.
2. Hoisting line speed varies with load.
3. Line pull is based on a single line pull in high speed range.
4. Effective line pull is equivalent to available line pull of mechanical drive winch.

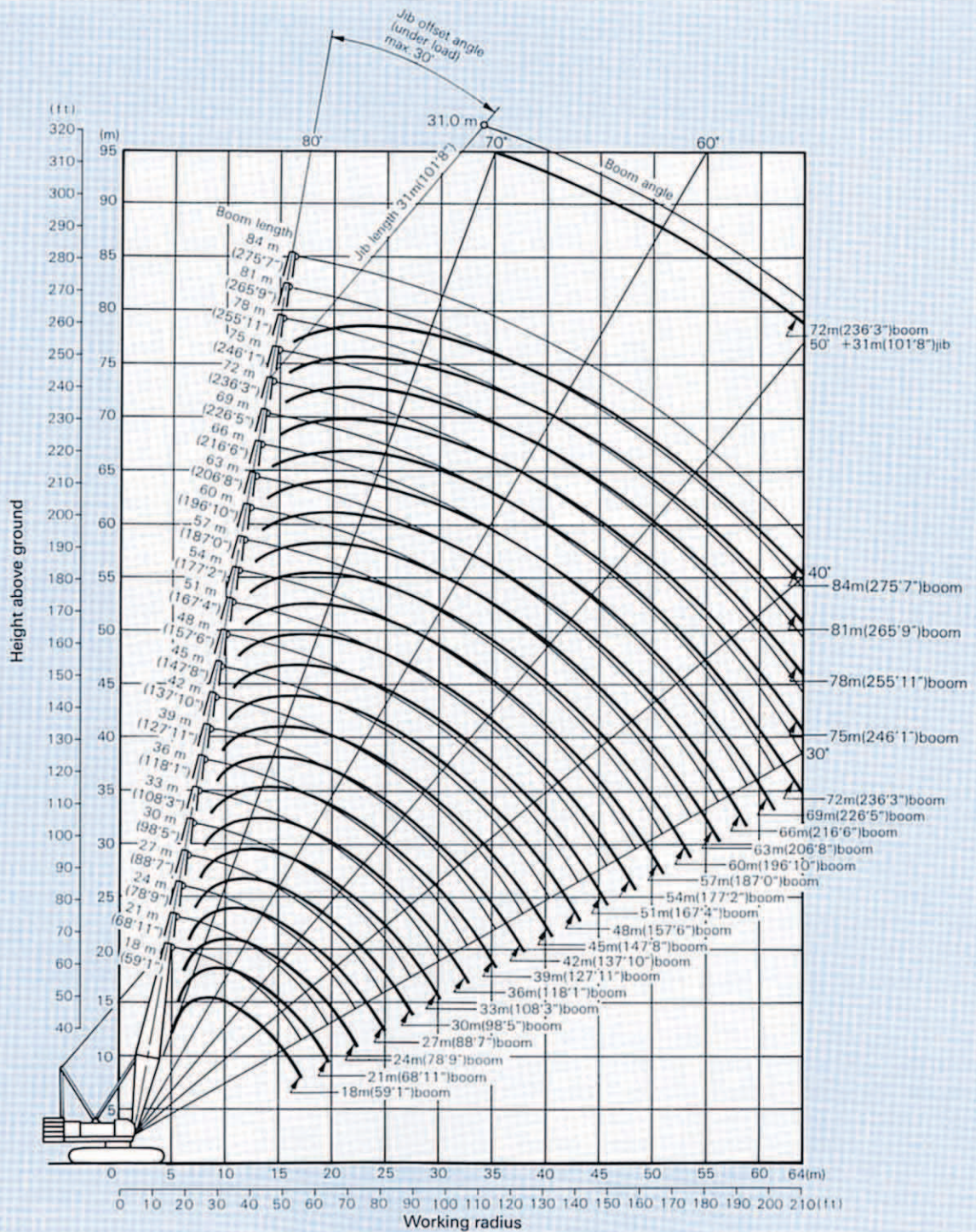
5. When hydraulic motor starts, since it is not rotating line pull is "Max. starting line pull". After motor rotating, the line pull becomes "Max. running line pull" shortly.

## BOOM HOIST DRUM

| Rope diameter | Hoisting line speed     | Lowering line speed     |
|---------------|-------------------------|-------------------------|
| 22 mm(0.87")  | 25 m/min(82 ft/min) × 2 | 25 m/min(82 ft/min) × 2 |



# Working Ranges





# Crane Ratings

## JIS Rating:

The rated loads shown don't exceed 78% of tipping loads with the machine on firm level ground.

## BS Rating:

The rated loads are determined according to BS (British Standard; 1981) on the condition that the machine is stationed on firm, level ground.

## PCSA Rating:

The rated loads, listed are determined according to PCSA (Power Crane and Shovel Association in U.S.A) and do not exceed 75% of tipping load on condition that the machine is stationed on firm, level ground.

## Tubular Chord Crane Boom in 360° Working Area without Mast

| Boom length      | Working radius |        | Rated load |           |         |             |         | Boom length      | Working radius |        | Rated load |           |         |             |         |
|------------------|----------------|--------|------------|-----------|---------|-------------|---------|------------------|----------------|--------|------------|-----------|---------|-------------|---------|
|                  |                |        | JIS rating | BS rating |         | PCSA rating |         |                  |                |        | JIS rating | BS rating |         | PCSA rating |         |
| m(ft in)         | m              | ft in  | kg         | kg        | lb      | kg          | lb      | m(ft in)         | m              | ft in  | kg         | kg        | lb      | kg          | lb      |
| 18.0<br>(59'1")  | 5.0            | 16' 5" | 150 000    | 150 000   | 330 700 | 150 000     | 330 700 | 27.0<br>(88'7")  | 6.5            | 21' 4" | 112 000    | 112 000   | 246 900 | 112 000     | 246 900 |
|                  | 5.5            | 18' 1" | 147 000    | 147 000   | 324 100 | 147 000     | 324 100 |                  | 7.0            | 23' 0" | 112 000    | 112 000   | 246 900 | 112 000     | 246 900 |
|                  | 6.0            | 19' 8" | 141 700    | 141 700   | 312 400 | 141 700     | 312 400 |                  | 8.0            | 26' 3" | 99 000     | 99 000    | 218 300 | 99 000      | 218 300 |
|                  | 6.5            | 21' 4" | 133 000    | 133 000   | 293 200 | 133 000     | 293 200 |                  | 9.0            | 29' 6" | 85 100     | 85 100    | 187 600 | 83 100      | 183 200 |
|                  | 7.0            | 23' 0" | 123 600    | 123 600   | 272 500 | 123 600     | 272 500 |                  | 10.0           | 32'10" | 72 800     | 72 800    | 160 500 | 70 800      | 156 100 |
|                  | 8.0            | 26' 3" | 102 500    | 102 500   | 226 000 | 100 600     | 221 800 |                  | 12.0           | 39' 4" | 56 100     | 56 100    | 123 700 | 54 500      | 120 200 |
|                  | 9.0            | 29' 6" | 85 700     | 85 700    | 188 900 | 83 600      | 184 300 |                  | 14.0           | 45'11" | 45 400     | 45 400    | 100 100 | 44 000      | 97 000  |
|                  | 10.0           | 32'10" | 73 400     | 73 400    | 161 800 | 71 500      | 157 600 |                  | 16.0           | 52' 6" | 38 000     | 38 000    | 83 780  | 36 700      | 80 910  |
|                  | 12.0           | 39' 4" | 56 800     | 56 800    | 125 200 | 55 200      | 121 700 |                  | 18.0           | 59' 1" | 32 500     | 32 500    | 71 650  | 31 400      | 69 230  |
|                  | 14.0           | 45'11" | 46 200     | 46 200    | 101 900 | 44 800      | 98 770  |                  | 20.0           | 65' 7" | 28 300     | 28 300    | 62 400  | 27 300      | 60 200  |
|                  | 16.0           | 52' 6" | 36 900     | 36 900    | 81 350  | 36 900      | 81 350  |                  | 22.0           | 72' 2" | 25 000     | 25 000    | 55 120  | 24 100      | 53 130  |
| 17.3             | 56' 9"         | 30 900 | 30 900     | 68 120    | 30 900  | 68 120      | 24.0    | 78' 9"           | 22 300         | 22 300 | 49 160     | 21 500    | 47 400  |             |         |
| 21.0<br>(68'11") | 5.5            | 18' 1" | 130 000    | 130 000   | 286 600 | 130 000     | 286 600 | 30.0<br>(98'5")  | 25.0           | 82' 0" | 20 300     | 20 300    | 44 750  | 20 300      | 44 750  |
|                  | 6.0            | 19' 8" | 130 000    | 130 000   | 286 600 | 130 000     | 286 600 |                  | 7.0            | 23' 0" | 101 000    | 101 000   | 222 700 | 101 000     | 222 700 |
|                  | 6.5            | 21' 4" | 130 000    | 130 000   | 286 600 | 130 000     | 286 600 |                  | 8.0            | 26' 3" | 98 000     | 98 000    | 216 100 | 98 000      | 216 100 |
|                  | 7.0            | 23' 0" | 121 000    | 121 000   | 266 800 | 121 000     | 266 800 |                  | 9.0            | 29' 6" | 84 900     | 84 900    | 187 200 | 82 900      | 182 800 |
|                  | 8.0            | 26' 3" | 102 100    | 102 100   | 225 100 | 100 300     | 221 100 |                  | 10.0           | 32'10" | 72 600     | 72 600    | 160 100 | 70 600      | 155 600 |
|                  | 9.0            | 29' 6" | 85 400     | 85 400    | 188 300 | 83 300      | 183 600 |                  | 12.0           | 39' 4" | 55 900     | 55 900    | 123 200 | 54 200      | 119 500 |
|                  | 10.0           | 32'10" | 73 100     | 73 100    | 161 200 | 71 100      | 156 700 |                  | 14.0           | 45'11" | 45 200     | 45 200    | 99 650  | 43 700      | 96 340  |
|                  | 12.0           | 39' 4" | 56 500     | 56 500    | 124 600 | 54 800      | 120 800 |                  | 16.0           | 52' 6" | 37 700     | 37 700    | 83 110  | 36 500      | 80 470  |
|                  | 14.0           | 45'11" | 45 800     | 45 800    | 101 000 | 44 400      | 97 900  |                  | 18.0           | 59' 1" | 32 200     | 32 200    | 70 990  | 31 100      | 68 560  |
|                  | 16.0           | 52' 6" | 38 400     | 38 400    | 84 660  | 37 100      | 81 790  |                  | 20.0           | 65' 7" | 28 000     | 28 000    | 61 730  | 27 000      | 59 520  |
|                  | 18.0           | 59' 1" | 32 900     | 32 900    | 72 530  | 31 800      | 70 110  |                  | 22.0           | 72' 2" | 24 700     | 24 700    | 54 450  | 23 800      | 52 470  |
| 19.9             | 65' 3"         | 26 500 | 26 500     | 58 420    | 26 500  | 58 420      | 24.0    | 78' 9"           | 22 000         | 22 000 | 48 500     | 21 200    | 46 740  |             |         |
| 24.0<br>(78'9")  | 6.0            | 19' 8" | 122 000    | 122 000   | 269 000 | 122 000     | 269 000 | 33.0<br>(108'3") | 26.0           | 85' 4" | 19 800     | 19 800    | 43 650  | 19 100      | 42 110  |
|                  | 6.5            | 21' 4" | 122 000    | 122 000   | 269 000 | 122 000     | 269 000 |                  | 27.6           | 90' 7" | 17 800     | 17 800    | 39 240  | 17 700      | 39 020  |
|                  | 7.0            | 23' 0" | 117 000    | 117 000   | 257 900 | 117 000     | 257 900 |                  | 7.6            | 24'11" | 91 400     | 91 400    | 201 500 | 91 400      | 201 500 |
|                  | 8.0            | 26' 3" | 101 000    | 101 000   | 222 700 | 100 100     | 220 700 |                  | 8.0            | 26' 3" | 91 200     | 91 200    | 201 100 | 91 200      | 201 100 |
|                  | 9.0            | 29' 6" | 85 200     | 85 200    | 187 800 | 83 100      | 183 200 |                  | 9.0            | 29' 6" | 83 800     | 83 800    | 184 700 | 82 800      | 182 500 |
|                  | 10.0           | 32'10" | 72 800     | 72 800    | 160 500 | 70 900      | 156 300 |                  | 10.0           | 32'10" | 72 500     | 72 500    | 159 800 | 70 600      | 155 600 |
|                  | 12.0           | 39' 4" | 56 200     | 56 200    | 123 900 | 54 500      | 120 200 |                  | 12.0           | 39' 4" | 55 800     | 55 800    | 123 000 | 54 100      | 119 300 |
|                  | 14.0           | 45'11" | 45 500     | 45 500    | 100 300 | 44 100      | 97 220  |                  | 14.0           | 45'11" | 45 100     | 45 100    | 99 430  | 43 600      | 96 120  |
|                  | 16.0           | 52' 6" | 38 100     | 38 100    | 84 000  | 36 800      | 81 130  |                  | 16.0           | 52' 6" | 37 600     | 37 600    | 82 890  | 36 400      | 80 250  |
|                  | 18.0           | 59' 1" | 32 600     | 32 600    | 71 870  | 31 500      | 69 450  |                  | 18.0           | 59' 1" | 32 100     | 32 100    | 70 770  | 31 000      | 68 340  |
|                  | 20.0           | 65' 7" | 28 400     | 28 400    | 62 610  | 27 400      | 60 410  |                  | 20.0           | 65' 7" | 27 900     | 27 900    | 61 510  | 26 900      | 59 300  |
|                  | 22.0           | 72' 2" | 24 200     | 24 200    | 53 350  | 24 200      | 53 350  |                  | 22.0           | 72' 2" | 24 500     | 24 500    | 54 010  | 23 700      | 52 250  |
| 22.4             | 73' 6"         | 23 200 | 23 200     | 51 150    | 23 200  | 51 150      | 24.0    | 78' 9"           | 21 900         | 21 900 | 48 280     | 21 100    | 46 520  |             |         |
|                  |                |        |            |           |         |             | 26.0    | 85' 4"           | 19 600         | 19 600 | 43 210     | 18 900    | 41 670  |             |         |
|                  |                |        |            |           |         |             | 28.0    | 91'10"           | 17 800         | 17 800 | 39 240     | 17 200    | 37 920  |             |         |
|                  |                |        |            |           |         |             | 30.0    | 98' 5"           | 16 000         | 16 000 | 35 270     | 15 700    | 34 610  |             |         |
|                  |                |        |            |           |         |             | 30.2    | 99' 1"           | 15 800         | 15 800 | 34 830     | 15 500    | 34 170  |             |         |



| Boom length       | Working radius |         | Rated load |           |         |             |         | Boom length      | Working radius |         | Rated load |           |         |             |         |
|-------------------|----------------|---------|------------|-----------|---------|-------------|---------|------------------|----------------|---------|------------|-----------|---------|-------------|---------|
|                   |                |         | JIS rating | BS rating |         | PCSA rating |         |                  |                |         | JIS rating | BS rating |         | PCSA rating |         |
| m(ft in)          | m              | ft in   | kg         | kg        | lb      | kg          | lb      | m(ft in)         | m              | ft in   | kg         | kg        | lb      | kg          | lb      |
| 36.0<br>(118'1")  | 8.1            | 26' 7"  | 80 700     | 80 700    | 177 900 | 80 700      | 177 900 | 45.0<br>(147'8") | 9.7            | 31'10"  | 69 000     | 64 400    | 142 000 | 69 000      | 152 100 |
|                   | 9.0            | 29' 6"  | 80 700     | 80 700    | 177 900 | 80 700      | 177 900 |                  | 10.0           | 32'10"  | 69 000     | 63 900    | 140 900 | 69 000      | 152 100 |
|                   | 10.0           | 32'10"  | 72 000     | 72 000    | 158 700 | 70 400      | 155 200 |                  | 12.0           | 39' 4"  | 55 200     | 55 200    | 121 700 | 53 600      | 118 200 |
|                   | 12.0           | 39' 4"  | 55 600     | 55 600    | 122 600 | 53 900      | 118 800 |                  | 14.0           | 45'11"  | 44 400     | 44 400    | 97 890  | 43 000      | 94 800  |
|                   | 14.0           | 45'11"  | 44 800     | 44 800    | 98 770  | 43 400      | 95 680  |                  | 16.0           | 52' 6"  | 36 900     | 36 900    | 81 350  | 35 700      | 78 710  |
|                   | 16.0           | 52' 6"  | 37 400     | 37 400    | 82 450  | 36 100      | 79 590  |                  | 18.0           | 59' 1"  | 31 400     | 31 400    | 69 230  | 30 300      | 66 800  |
|                   | 18.0           | 59' 1"  | 31 800     | 31 800    | 70 110  | 30 800      | 67 900  |                  | 20.0           | 65' 7"  | 27 200     | 27 200    | 59 970  | 26 200      | 57 760  |
|                   | 20.0           | 65' 7"  | 27 600     | 27 600    | 60 850  | 26 700      | 58 860  |                  | 22.0           | 72' 2"  | 23 800     | 23 800    | 52 470  | 23 000      | 50 710  |
|                   | 22.0           | 72' 2"  | 24 300     | 24 300    | 53 570  | 23 400      | 51 590  |                  | 24.0           | 78' 9"  | 21 100     | 21 100    | 46 520  | 20 300      | 44 750  |
|                   | 24.0           | 78' 9"  | 21 600     | 21 600    | 47 620  | 20 800      | 45 860  |                  | 26.0           | 85' 4"  | 18 800     | 18 800    | 41 450  | 18 200      | 40 120  |
|                   | 26.0           | 85' 4"  | 19 400     | 19 400    | 42 770  | 18 700      | 41 230  |                  | 28.0           | 91'10"  | 17 000     | 17 000    | 37 480  | 16 400      | 36 160  |
|                   | 28.0           | 91'10"  | 17 500     | 17 500    | 38 580  | 16 900      | 37 260  |                  | 30.0           | 98' 5"  | 15 400     | 15 400    | 33 950  | 14 800      | 32 630  |
|                   | 30.0           | 98' 5"  | 15 900     | 15 900    | 35 050  | 15 300      | 33 730  |                  | 32.0           | 105' 0" | 14 000     | 14 000    | 30 860  | 13 500      | 29 760  |
| 32.0              | 105' 0"        | 14 600  | 14 600     | 32 190    | 14 000  | 30 860      | 34.0    | 111' 7"          | 12 800         | 12 800  | 28 220     | 12 300    | 27 120  |             |         |
| 32.8              | 107' 7"        | 14 000  | 14 000     | 30 860    | 13 600  | 29 980      | 36.0    | 118' 1"          | 11 800         | 11 800  | 26 010     | 11 300    | 24 910  |             |         |
| 39.0<br>(127'11") | 8.6            | 28' 3"  | 80 700     | 80 300    | 177 000 | 80 700      | 177 900 | 38.0             | 124' 8"        | 10 900  | 10 900     | 24 030    | 10 500  | 23 150      |         |
|                   | 9.0            | 29' 6"  | 80 700     | 79 200    | 174 600 | 80 700      | 177 900 | 40.0             | 131' 3"        | 10 000  | 10 000     | 22 050    | 9 700   | 21 380      |         |
|                   | 10.0           | 32'10"  | 72 000     | 72 000    | 158 700 | 70 200      | 154 800 | 40.6             | 133' 2"        | 9 600   | 9 600      | 21 160    | 9 500   | 20 940      |         |
|                   | 12.0           | 39' 4"  | 55 400     | 55 400    | 122 100 | 53 800      | 118 600 | 10.2             | 33' 6"         | 58 800  | 57 100     | 125 900   | 58 800  | 129 600     |         |
|                   | 14.0           | 45'11"  | 44 700     | 44 700    | 98 550  | 43 300      | 95 460  | 12.0             | 39' 4"         | 55 000  | 54 700     | 120 600   | 53 400  | 117 700     |         |
|                   | 16.0           | 52' 6"  | 37 200     | 37 200    | 82 010  | 36 000      | 79 370  | 14.0             | 45'11"         | 44 300  | 44 300     | 97 660    | 42 900  | 94 580      |         |
|                   | 18.0           | 59' 1"  | 31 700     | 31 700    | 69 890  | 30 600      | 67 460  | 16.0             | 52' 6"         | 36 800  | 36 800     | 81 130    | 35 600  | 78 480      |         |
|                   | 20.0           | 65' 7"  | 27 400     | 27 400    | 60 410  | 26 500      | 58 420  | 18.0             | 59' 1"         | 31 200  | 31 200     | 68 780    | 30 200  | 66 580      |         |
|                   | 22.0           | 72' 2"  | 24 100     | 24 100    | 53 130  | 23 300      | 51 370  | 20.0             | 65' 7"         | 27 000  | 27 000     | 59 520    | 26 000  | 57 320      |         |
|                   | 24.0           | 78' 9"  | 21 400     | 21 400    | 47 180  | 20 600      | 45 420  | 22.0             | 72' 2"         | 23 600  | 23 600     | 52 030    | 22 800  | 50 270      |         |
|                   | 26.0           | 85' 4"  | 19 200     | 19 200    | 42 330  | 18 500      | 40 790  | 24.0             | 78' 9"         | 20 900  | 20 900     | 46 080    | 20 200  | 44 530      |         |
|                   | 28.0           | 91'10"  | 17 300     | 17 300    | 38 140  | 16 700      | 36 820  | 26.0             | 85' 4"         | 18 700  | 18 700     | 41 230    | 18 000  | 39 680      |         |
|                   | 30.0           | 98' 5"  | 15 700     | 15 700    | 34 610  | 15 200      | 33 510  | 28.0             | 91'10"         | 16 800  | 16 800     | 37 040    | 16 200  | 35 710      |         |
| 32.0              | 105' 0"        | 14 400  | 14 400     | 31 750    | 13 800  | 30 420      | 30.0    | 98' 5"           | 15 200         | 15 200  | 33 510     | 14 600    | 32 190  |             |         |
| 34.0              | 111' 7"        | 13 200  | 13 200     | 29 100    | 12 700  | 28 000      | 32.0    | 105' 0"          | 13 800         | 13 800  | 30 420     | 13 300    | 29 320  |             |         |
| 35.4              | 116' 2"        | 12 100  | 12 100     | 26 680    | 12 000  | 26 460      | 34.0    | 111' 7"          | 12 600         | 12 600  | 27 780     | 12 100    | 26 680  |             |         |
| 42.0<br>(137'10") | 9.2            | 30' 2"  | 69 000     | 69 000    | 152 100 | 69 000      | 152 100 | 36.0             | 118' 1"        | 11 500  | 11 500     | 25 350    | 11 100  | 24 470      |         |
|                   | 10.0           | 32'10"  | 69 000     | 69 000    | 152 100 | 69 000      | 152 100 | 38.0             | 124' 8"        | 10 600  | 10 600     | 23 370    | 10 200  | 22 490      |         |
|                   | 12.0           | 39' 4"  | 55 400     | 55 400    | 122 100 | 53 700      | 118 400 | 40.0             | 131' 3"        | 9 800   | 9 800      | 21 610    | 9 400   | 20 720      |         |
|                   | 14.0           | 45'11"  | 44 600     | 44 600    | 98 330  | 43 200      | 95 240  | 42.0             | 137'10"        | 9 100   | 9 100      | 20 060    | 8 700   | 19 180      |         |
|                   | 16.0           | 52' 6"  | 37 100     | 37 100    | 81 790  | 35 900      | 79 150  | 43.2             | 141' 9"        | 8 700   | 8 700      | 19 180    | 8 400   | 18 520      |         |
|                   | 18.0           | 59' 1"  | 31 600     | 31 600    | 69 670  | 30 500      | 67 240  | 51.0<br>(167'4") | 10.7           | 35' 1"  | 58 800     | 51 000    | 112 400 | 58 800      | 129 600 |
|                   | 20.0           | 65' 7"  | 27 300     | 27 300    | 60 190  | 26 400      | 58 200  |                  | 12.0           | 39' 4"  | 54 900     | 49 500    | 109 100 | 53 200      | 117 300 |
|                   | 22.0           | 72' 2"  | 24 000     | 24 000    | 52 910  | 23 200      | 51 150  |                  | 14.0           | 45'11"  | 44 100     | 44 100    | 97 220  | 42 700      | 94 140  |
|                   | 24.0           | 78' 9"  | 21 300     | 21 300    | 46 960  | 20 500      | 45 190  |                  | 16.0           | 52' 6"  | 36 600     | 36 600    | 80 690  | 35 400      | 78 040  |
|                   | 26.0           | 85' 4"  | 19 100     | 19 100    | 42 110  | 18 400      | 40 570  |                  | 18.0           | 59' 1"  | 31 000     | 31 000    | 68 340  | 30 000      | 66 140  |
|                   | 28.0           | 91'10"  | 17 200     | 17 200    | 37 920  | 16 600      | 36 600  |                  | 20.0           | 65' 7"  | 26 800     | 26 800    | 59 080  | 25 800      | 56 880  |
|                   | 30.0           | 98' 5"  | 15 600     | 15 600    | 34 390  | 15 000      | 33 070  |                  | 22.0           | 72' 2"  | 23 400     | 23 400    | 51 590  | 22 600      | 49 820  |
|                   | 32.0           | 105' 0" | 14 200     | 14 200    | 31 310  | 13 700      | 30 200  |                  | 24.0           | 78' 9"  | 20 700     | 20 700    | 45 640  | 19 900      | 43 870  |
| 34.0              | 111' 7"        | 13 000  | 13 000     | 28 660    | 12 600  | 27 780      | 26.0    |                  | 85' 4"         | 18 400  | 18 400     | 40 570    | 17 800  | 39 240      |         |
| 36.0              | 118' 1"        | 12 000  | 12 000     | 26 460    | 11 600  | 25 570      | 28.0    |                  | 91'10"         | 16 600  | 16 600     | 36 600    | 15 900  | 35 050      |         |
| 38.0              | 124' 8"        | 10 800  | 10 800     | 23 810    | 10 700  | 23 590      | 30.0    |                  | 98' 5"         | 14 900  | 14 900     | 32 850    | 14 400  | 31 750      |         |
|                   |                |         |            |           |         |             | 32.0    |                  | 105' 0"        | 13 600  | 13 600     | 29 980    | 13 100  | 28 880      |         |
|                   |                |         |            |           |         |             | 34.0    |                  | 111' 7"        | 12 400  | 12 400     | 27 340    | 11 900  | 26 240      |         |
|                   |                |         |            |           |         |             | 36.0    | 118' 1"          | 11 300         | 11 300  | 24 910     | 10 900    | 24 030  |             |         |
|                   |                |         |            |           |         |             | 38.0    | 124' 8"          | 10 400         | 10 400  | 22 930     | 10 000    | 22 050  |             |         |
|                   |                |         |            |           |         |             | 40.0    | 131' 3"          | 9 600          | 9 600   | 21 160     | 9 200     | 20 280  |             |         |
|                   |                |         |            |           |         |             | 42.0    | 137'10"          | 8 800          | 8 800   | 19 400     | 8 500     | 18 740  |             |         |
|                   |                |         |            |           |         |             | 44.0    | 144' 4"          | 8 200          | 8 200   | 18 080     | 7 900     | 17 420  |             |         |
|                   |                |         |            |           |         |             | 45.8    | 150' 3"          | 7 600          | 7 600   | 16 760     | 7 400     | 16 310  |             |         |

Continued on next page



| Boom length      | Working radius |         | Rated load |           |        |             |         | Boom length       | Working radius |         | Rated load |           |        |             |         |
|------------------|----------------|---------|------------|-----------|--------|-------------|---------|-------------------|----------------|---------|------------|-----------|--------|-------------|---------|
|                  |                |         | JIS rating | BS rating |        | PCSA rating |         |                   |                |         | JIS rating | BS rating |        | PCSA rating |         |
| m(ft in)         | m              | ft in   | kg         | kg        | lb     | kg          | lb      | m(ft in)          | m              | ft in   | kg         | kg        | lb     | kg          | lb      |
| 54.0<br>(177'2") | 11.2           | 36' 9"  | 47 500     | 45 200    | 99 650 | 47 500      | 104 700 | 60.0<br>(196'10") | 12.3           | 40' 4"  | 46 000     | 35 800    | 78 930 | 46 000      | 101 400 |
|                  | 12.0           | 39' 4"  | 47 500     | 44 400    | 97 890 | 47 500      | 104 700 |                   | 14.0           | 45'11"  | 42 000     | 34 400    | 75 840 | 42 000      | 92 590  |
|                  | 14.0           | 45'11"  | 44 000     | 42 400    | 93 480 | 42 600      | 93 920  |                   | 16.0           | 52' 6"  | 36 100     | 32 900    | 72 530 | 34 900      | 76 940  |
|                  | 16.0           | 52' 6"  | 36 500     | 36 500    | 80 470 | 35 300      | 77 820  |                   | 18.0           | 59' 1"  | 30 500     | 30 500    | 67 240 | 29 500      | 65 040  |
|                  | 18.0           | 59' 1"  | 31 000     | 31 000    | 68 340 | 29 900      | 65 920  |                   | 20.0           | 65' 7"  | 26 200     | 26 200    | 57 760 | 25 300      | 55 780  |
|                  | 20.0           | 65' 7"  | 26 700     | 26 700    | 58 860 | 25 800      | 56 880  |                   | 22.0           | 72' 2"  | 22 900     | 22 900    | 50 490 | 22 100      | 48 720  |
|                  | 22.0           | 72' 2"  | 23 300     | 23 300    | 51 370 | 22 500      | 49 600  |                   | 24.0           | 78' 9"  | 20 100     | 20 100    | 44 310 | 19 400      | 42 770  |
|                  | 24.0           | 78' 9"  | 20 600     | 20 600    | 45 420 | 19 900      | 43 870  |                   | 26.0           | 85' 4"  | 17 900     | 17 900    | 39 460 | 17 200      | 37 920  |
|                  | 26.0           | 85' 4"  | 18 400     | 18 400    | 40 570 | 17 700      | 39 020  |                   | 28.0           | 91'10"  | 16 000     | 16 000    | 35 270 | 15 400      | 33 950  |
|                  | 28.0           | 91'10"  | 16 500     | 16 500    | 36 380 | 15 900      | 35 050  |                   | 30.0           | 98' 5"  | 14 400     | 14 400    | 31 750 | 13 800      | 30 420  |
|                  | 30.0           | 98' 5"  | 14 900     | 14 900    | 32 850 | 14 300      | 31 530  |                   | 32.0           | 105' 0" | 13 000     | 13 000    | 28 660 | 12 500      | 27 560  |
|                  | 32.0           | 105' 0" | 13 500     | 13 500    | 29 760 | 13 000      | 28 660  |                   | 34.0           | 111' 7" | 11 800     | 11 800    | 26 010 | 11 300      | 24 910  |
|                  | 34.0           | 111' 7" | 12 300     | 12 300    | 27 120 | 11 800      | 26 010  |                   | 36.0           | 118' 1" | 10 700     | 10 700    | 23 590 | 10 300      | 22 710  |
|                  | 36.0           | 118' 1" | 11 200     | 11 200    | 24 690 | 10 800      | 23 810  |                   | 38.0           | 124' 8" | 9 800      | 9 800     | 21 610 | 9 400       | 20 720  |
|                  | 38.0           | 124' 8" | 10 300     | 10 300    | 22 710 | 9 900       | 21 830  |                   | 40.0           | 131' 3" | 8 900      | 8 900     | 19 620 | 8 600       | 18 960  |
|                  | 40.0           | 131' 3" | 9 500      | 9 500     | 20 940 | 9 100       | 20 060  |                   | 42.0           | 137'10" | 8 200      | 8 200     | 18 080 | 7 900       | 17 420  |
|                  | 42.0           | 137'10" | 8 700      | 8 700     | 19 180 | 8 400       | 18 520  |                   | 44.0           | 144' 4" | 7 500      | 7 400     | 16 310 | 7 200       | 15 870  |
|                  | 44.0           | 144' 4" | 8 100      | 8 100     | 17 860 | 7 700       | 16 980  |                   | 46.0           | 150'11" | 6 900      | 6 800     | 14 990 | 6 700       | 14 770  |
|                  | 46.0           | 150'11" | 7 500      | 7 400     | 16 310 | 7 200       | 15 870  |                   | 48.0           | 157' 6" | 6 300      | 6 200     | 13 670 | 6 100       | 13 450  |
|                  | 48.0           | 157' 6" | 6 700      | 6 700     | 14 770 | 6 700       | 14 770  |                   | 50.0           | 164' 1" | 5 800      | 5 700     | 12 570 | 5 600       | 12 350  |
| 48.4             | 158'10"        | 6 600   | 6 600      | 14 550    | 6 600  | 14 550      | 52.0    | 170' 7"           | 5 200          | 5 200   | 11 460     | 5 200     | 11 460 |             |         |
| 57.0<br>(187'0") | 11.8           | 38' 9"  | 47 500     | 40 100    | 88 410 | 47 500      | 104 700 | 63.0<br>(206'8")  | 53.6           | 175'10" | 4 600      | 4 600     | 10 140 | 4 600       | 10 140  |
|                  | 12.0           | 39' 4"  | 47 500     | 39 900    | 87 960 | 47 500      | 104 700 |                   | 12.8           | 42' 0"  | 36 000     | 31 500    | 69 450 | 36 000      | 79 370  |
|                  | 14.0           | 45'11"  | 43 800     | 38 200    | 84 220 | 42 400      | 93 480  |                   | 14.0           | 45'11"  | 36 000     | 30 600    | 67 460 | 36 000      | 79 370  |
|                  | 16.0           | 52' 6"  | 36 300     | 36 300    | 80 030 | 35 100      | 77 380  |                   | 16.0           | 52' 6"  | 36 000     | 29 200    | 64 380 | 34 800      | 76 720  |
|                  | 18.0           | 59' 1"  | 30 700     | 30 700    | 67 680 | 29 700      | 65 480  |                   | 18.0           | 59' 1"  | 30 400     | 28 000    | 61 730 | 29 400      | 64 820  |
|                  | 20.0           | 65' 7"  | 26 400     | 26 400    | 58 200 | 25 500      | 56 220  |                   | 20.0           | 65' 7"  | 26 100     | 26 100    | 57 540 | 25 200      | 55 560  |
|                  | 22.0           | 72' 2"  | 23 100     | 23 100    | 50 930 | 22 300      | 49 160  |                   | 22.0           | 72' 2"  | 22 700     | 22 700    | 50 040 | 21 900      | 48 280  |
|                  | 24.0           | 78' 9"  | 20 300     | 20 300    | 44 750 | 19 600      | 43 210  |                   | 24.0           | 78' 9"  | 20 000     | 20 000    | 44 090 | 19 300      | 42 550  |
|                  | 26.0           | 85' 4"  | 18 100     | 18 100    | 39 900 | 17 400      | 38 360  |                   | 26.0           | 85' 4"  | 17 700     | 17 700    | 39 020 | 17 100      | 37 700  |
|                  | 28.0           | 91'10"  | 16 200     | 16 200    | 35 710 | 15 600      | 34 390  |                   | 28.0           | 91'10"  | 15 800     | 15 800    | 34 830 | 15 300      | 33 730  |
|                  | 30.0           | 98' 5"  | 14 600     | 14 600    | 32 190 | 14 000      | 30 860  |                   | 30.0           | 98' 5"  | 14 200     | 14 200    | 31 310 | 13 700      | 30 200  |
|                  | 32.0           | 105' 0" | 13 200     | 13 200    | 29 100 | 12 700      | 28 000  |                   | 32.0           | 105' 0" | 12 800     | 12 800    | 28 220 | 12 400      | 27 340  |
|                  | 34.0           | 111' 7" | 12 000     | 12 000    | 26 460 | 11 500      | 25 350  |                   | 34.0           | 111' 7" | 11 600     | 11 600    | 25 570 | 11 200      | 24 690  |
|                  | 36.0           | 118' 1" | 10 900     | 10 900    | 24 030 | 10 500      | 23 150  |                   | 36.0           | 118' 1" | 10 500     | 10 500    | 23 150 | 10 200      | 22 490  |
|                  | 38.0           | 124' 8" | 10 000     | 10 000    | 22 050 | 9 600       | 21 160  |                   | 38.0           | 124' 8" | 9 600      | 9 600     | 21 160 | 9 200       | 20 280  |
|                  | 40.0           | 131' 3" | 9 200      | 9 200     | 20 280 | 8 800       | 19 400  |                   | 40.0           | 131' 3" | 8 800      | 8 800     | 19 400 | 8 400       | 18 520  |
|                  | 42.0           | 137'10" | 8 400      | 8 400     | 18 520 | 8 100       | 17 860  |                   | 42.0           | 137'10" | 8 000      | 7 900     | 17 420 | 7 700       | 16 980  |
|                  | 44.0           | 144' 4" | 7 700      | 7 700     | 16 980 | 7 400       | 16 310  |                   | 44.0           | 144' 4" | 7 300      | 7 200     | 15 870 | 7 100       | 15 650  |
|                  | 46.0           | 150'11" | 7 100      | 7 100     | 15 650 | 6 900       | 15 210  |                   | 46.0           | 150'10" | 6 700      | 6 600     | 14 550 | 6 500       | 14 330  |
|                  | 48.0           | 157' 6" | 6 600      | 6 500     | 14 330 | 6 300       | 13 890  |                   | 48.0           | 157' 6" | 6 100      | 6 000     | 13 230 | 5 900       | 13 010  |
| 50.0             | 164' 1"        | 5 900   | 5 900      | 13 010    | 5 900  | 13 010      | 50.0    | 164' 1"           | 5 500          | 5 400   | 11 900     | 5 500     | 12 130 |             |         |
| 51.0             | 167' 4"        | 5 500   | 5 500      | 12 130    | 5 500  | 12 130      | 52.0    | 170' 7"           | 5 000          | 4 900   | 10 800     | 5 000     | 11 020 |             |         |
|                  |                |         |            |           |        |             | 54.0    | 177' 2"           | 4 500          | 4 500   | 9 920      | 4 500     | 9 920  |             |         |
|                  |                |         |            |           |        |             | 56.0    | 183' 9"           | 4 100          | 4 100   | 9 040      | 4 100     | 9 040  |             |         |
|                  |                |         |            |           |        |             | 56.2    | 184' 5"           | 4 000          | 4 000   | 8 820      | 4 000     | 8 820  |             |         |



| Boom length      | Working radius |         | Rated load |           |         |             |         | Boom length            | Working radius |         | Rated load |           |         |             |         |
|------------------|----------------|---------|------------|-----------|---------|-------------|---------|------------------------|----------------|---------|------------|-----------|---------|-------------|---------|
|                  |                |         | JIS rating | BS rating |         | PCSA rating |         |                        |                |         | JIS rating | BS rating |         | PCSA rating |         |
| m(ft in)         | m              | ft in   | kg         | kg        | lb      | kg          | lb      | m(ft in)               | m              | ft in   | kg         | kg        | lb      | kg          | lb      |
| 45.0<br>(147'8") | 9.7            | 31'10"  | 69 000     | 69 000    | 152 100 | 69 000      | 152 100 | 54.0<br>(177'2")       | 11.2           | 36' 9"  | 47 500     | 47 500    | 104 700 | 47 500      | 104 700 |
|                  | 10.0           | 32'10"  | 69 000     | 69 000    | 152 100 | 69 000      | 152 100 |                        | 12.0           | 39' 4"  | 47 500     | 47 500    | 104 700 | 47 500      | 104 700 |
|                  | 12.0           | 39' 4"  | 56 300     | 56 300    | 124 100 | 54 700      | 120 600 |                        | 14.0           | 45'11"  | 44 900     | 44 900    | 98 990  | 43 600      | 96 120  |
|                  | 14.0           | 45'11"  | 45 300     | 45 300    | 99 870  | 43 900      | 96 780  |                        | 16.0           | 52' 6"  | 37 300     | 37 300    | 82 230  | 36 100      | 79 590  |
|                  | 16.0           | 52' 6"  | 37 600     | 37 600    | 82 890  | 36 500      | 80 470  |                        | 18.0           | 59' 1"  | 31 600     | 31 600    | 69 670  | 30 600      | 67 460  |
|                  | 18.0           | 59' 1"  | 32 000     | 32 000    | 70 550  | 31 000      | 68 340  |                        | 20.0           | 65' 7"  | 27 200     | 27 200    | 59 970  | 26 400      | 58 200  |
|                  | 20.0           | 65' 7"  | 27 700     | 27 700    | 61 070  | 26 800      | 59 080  |                        | 22.0           | 72' 2"  | 23 800     | 23 800    | 52 470  | 23 000      | 50 710  |
|                  | 22.0           | 72' 2"  | 24 200     | 24 200    | 53 350  | 23 400      | 51 590  |                        | 24.0           | 78' 9"  | 21 000     | 21 000    | 46 300  | 20 300      | 44 750  |
|                  | 24.0           | 78' 9"  | 21 500     | 21 500    | 47 400  | 20 700      | 45 640  |                        | 26.0           | 85' 4"  | 18 700     | 18 700    | 41 230  | 18 100      | 39 900  |
|                  | 26.0           | 85' 4"  | 19 200     | 19 200    | 42 330  | 18 500      | 40 790  |                        | 28.0           | 91'10"  | 16 400     | 16 400    | 36 160  | 16 200      | 35 710  |
|                  | 28.0           | 91'10"  | 17 200     | 17 200    | 37 920  | 16 700      | 36 820  |                        | 30.0           | 98' 5"  | 14 900     | 14 900    | 32 850  | 14 600      | 32 190  |
|                  | 30.0           | 98' 5"  | 15 600     | 15 600    | 34 390  | 15 100      | 33 290  |                        | 32.0           | 105' 0" | 13 500     | 13 500    | 29 760  | 13 300      | 29 320  |
|                  | 32.0           | 105' 0" | 14 200     | 14 200    | 31 310  | 13 700      | 30 200  |                        | 34.0           | 111' 7" | 12 600     | 12 600    | 27 780  | 12 100      | 26 680  |
|                  | 34.0           | 111' 7" | 13 000     | 13 000    | 28 660  | 12 500      | 27 560  |                        | 36.0           | 118' 1" | 11 400     | 11 400    | 25 130  | 11 000      | 24 250  |
|                  | 36.0           | 118' 1" | 11 900     | 11 900    | 26 240  | 11 500      | 25 350  |                        | 38.0           | 124' 8" | 10 500     | 10 500    | 23 150  | 10 100      | 22 270  |
|                  | 38.0           | 124' 8" | 11 000     | 11 000    | 24 250  | 10 600      | 23 370  |                        | 40.0           | 131' 3" | 9 600      | 9 600     | 21 160  | 9 300       | 20 500  |
|                  | 40.0           | 131' 3" | 10 200     | 10 200    | 22 490  | 9 800       | 21 610  |                        | 42.0           | 137'10" | 8 800      | 8 800     | 19 400  | 8 500       | 18 740  |
| 40.6             | 133' 2"        | 9 900   | 9 900      | 21 830    | 9 600   | 21 160      | 44.0    | 144' 4"                | 8 200          | 8 200   | 18 080     | 7 900     | 17 420  |             |         |
| 48.0<br>(157'6") | 10.2           | 33' 6"  | 58 800     | 58 800    | 129 600 | 58 800      | 129 600 | 46.0                   | 150'11"        | 7 500   | 7 500      | 16 530    | 7 300   | 16 090      |         |
|                  | 12.0           | 39' 4"  | 56 100     | 56 100    | 123 700 | 54 600      | 120 400 | 48.0                   | 157' 6"        | 7 000   | 7 000      | 15 430    | 6 700   | 14 770      |         |
|                  | 14.0           | 45'11"  | 45 200     | 45 200    | 99 650  | 43 800      | 96 560  | 48.4                   | 158'10"        | 6 900   | 6 800      | 14 990    | 6 600   | 14 550      |         |
|                  | 16.0           | 52' 6"  | 37 500     | 37 500    | 82 670  | 36 300      | 80 030  | 57.0<br>(187'0")       | 11.8           | 38' 9"  | 47 500     | 44 300    | 97 660  | 47 500      | 104 700 |
|                  | 18.0           | 59' 1"  | 31 800     | 31 800    | 70 110  | 30 800      | 67 900  |                        | 12.0           | 39' 4"  | 47 500     | 44 100    | 97 220  | 47 500      | 104 700 |
|                  | 20.0           | 65' 7"  | 27 500     | 27 500    | 60 630  | 26 600      | 58 640  |                        | 14.0           | 45'11"  | 44 700     | 42 300    | 93 260  | 43 400      | 95 680  |
|                  | 22.0           | 72' 2"  | 24 100     | 24 100    | 53 130  | 23 300      | 51 370  |                        | 16.0           | 52' 6"  | 37 000     | 37 000    | 81 570  | 35 900      | 79 150  |
|                  | 24.0           | 78' 9"  | 21 300     | 21 300    | 46 960  | 20 600      | 45 420  |                        | 18.0           | 59' 1"  | 31 300     | 31 300    | 69 000  | 30 300      | 66 800  |
|                  | 26.0           | 85' 4"  | 19 000     | 19 000    | 41 890  | 18 300      | 40 340  |                        | 20.0           | 65' 7"  | 27 000     | 27 000    | 59 520  | 26 100      | 57 540  |
|                  | 28.0           | 91'10"  | 17 100     | 17 100    | 37 700  | 16 500      | 36 380  |                        | 22.0           | 72' 2"  | 23 500     | 23 500    | 51 810  | 22 800      | 50 270  |
|                  | 30.0           | 98' 5"  | 15 400     | 15 400    | 33 950  | 14 900      | 32 850  |                        | 24.0           | 78' 9"  | 20 800     | 20 800    | 45 860  | 20 100      | 44 310  |
|                  | 32.0           | 105' 0" | 14 000     | 14 000    | 30 860  | 13 500      | 29 760  |                        | 26.0           | 85' 4"  | 18 500     | 18 500    | 40 790  | 17 800      | 39 240  |
|                  | 34.0           | 111' 7" | 12 800     | 12 800    | 28 220  | 12 300      | 27 120  |                        | 28.0           | 91'10"  | 16 500     | 16 500    | 36 380  | 16 000      | 35 270  |
|                  | 36.0           | 118' 1" | 11 700     | 11 700    | 25 790  | 11 300      | 24 910  |                        | 30.0           | 98' 5"  | 14 900     | 14 900    | 32 850  | 14 400      | 31 750  |
|                  | 38.0           | 124' 8" | 10 800     | 10 800    | 23 810  | 10 400      | 22 930  |                        | 32.0           | 105' 0" | 13 400     | 13 400    | 29 540  | 13 000      | 28 660  |
|                  | 40.0           | 131' 3" | 9 900      | 9 900     | 21 830  | 9 600       | 21 160  |                        | 34.0           | 111' 7" | 12 200     | 12 200    | 26 900  | 11 800      | 26 010  |
|                  | 42.0           | 137'10" | 9 200      | 9 200     | 20 280  | 8 900       | 19 620  |                        | 36.0           | 118' 1" | 11 100     | 11 100    | 24 470  | 10 700      | 23 590  |
| 43.2             | 141' 9"        | 8 800   | 8 800      | 19 400    | 8 500   | 18 740      | 38.0    |                        | 124' 8"        | 10 200  | 10 200     | 22 490    | 9 800   | 21 610      |         |
| 51.0<br>(167'4") | 10.7           | 35' 1"  | 58 800     | 55 800    | 123 000 | 58 800      | 129 600 |                        | 40.0           | 131' 3" | 9 300      | 9 300     | 20 500  | 9 000       | 19 840  |
|                  | 12.0           | 39' 4"  | 56 000     | 54 300    | 119 700 | 54 400      | 119 900 |                        | 42.0           | 137'10" | 8 600      | 8 600     | 18 960  | 8 300       | 18 300  |
|                  | 14.0           | 45'11"  | 45 000     | 45 000    | 99 210  | 43 600      | 96 120  | 44.0                   | 144' 4"        | 7 900   | 7 900      | 17 420    | 7 600   | 16 760      |         |
|                  | 16.0           | 52' 6"  | 37 300     | 37 300    | 82 230  | 36 100      | 79 590  | 46.0                   | 150'11"        | 7 300   | 7 200      | 15 870    | 7 000   | 15 430      |         |
|                  | 18.0           | 59' 1"  | 31 600     | 31 600    | 69 670  | 30 600      | 67 460  | 48.0                   | 157' 6"        | 6 700   | 6 600      | 14 550    | 6 500   | 14 330      |         |
|                  | 20.0           | 65' 7"  | 27 300     | 27 300    | 60 190  | 26 400      | 58 200  | 50.0                   | 164' 1"        | 6 200   | 6 100      | 13 450    | 6 000   | 13 230      |         |
|                  | 22.0           | 72' 2"  | 23 900     | 23 900    | 52 690  | 23 100      | 50 930  | 51.0                   | 167' 1"        | 5 900   | 5 800      | 12 790    | 5 700   | 12 570      |         |
|                  | 24.0           | 78' 9"  | 21 100     | 21 100    | 46 520  | 20 400      | 44 970  | Continued on next page |                |         |            |           |         |             |         |
|                  | 26.0           | 85' 4"  | 18 800     | 18 800    | 41 450  | 18 200      | 40 120  |                        |                |         |            |           |         |             |         |
|                  | 28.0           | 91'10"  | 16 900     | 16 900    | 37 260  | 16 300      | 35 940  |                        |                |         |            |           |         |             |         |
|                  | 30.0           | 98' 5"  | 15 200     | 15 200    | 33 510  | 14 700      | 32 410  |                        |                |         |            |           |         |             |         |
|                  | 32.0           | 105' 0" | 13 800     | 13 800    | 30 420  | 13 300      | 29 320  |                        |                |         |            |           |         |             |         |
|                  | 34.0           | 111' 7" | 12 600     | 12 600    | 27 780  | 12 100      | 26 680  |                        |                |         |            |           |         |             |         |
|                  | 36.0           | 118' 1" | 11 500     | 11 500    | 25 350  | 11 100      | 24 470  |                        |                |         |            |           |         |             |         |
|                  | 38.0           | 124' 8" | 10 600     | 10 600    | 23 370  | 10 200      | 22 490  |                        |                |         |            |           |         |             |         |
|                  | 40.0           | 131' 3" | 9 700      | 9 700     | 21 380  | 9 400       | 20 720  |                        |                |         |            |           |         |             |         |
|                  | 42.0           | 137'10" | 9 000      | 9 000     | 19 840  | 8 600       | 18 960  |                        |                |         |            |           |         |             |         |
| 44.0             | 144' 4"        | 8 300   | 8 300      | 18 300    | 8 000   | 17 640      |         |                        |                |         |            |           |         |             |         |
| 45.8             | 150' 3"        | 7 700   | 7 700      | 16 980    | 7 500   | 16 530      |         |                        |                |         |            |           |         |             |         |

Continued on next page



| Boom<br>length    | Working<br>radius |         | Rated load    |           |        |             |         | Boom<br>length   | Working<br>radius |         | Rated load    |           |        |             |        |
|-------------------|-------------------|---------|---------------|-----------|--------|-------------|---------|------------------|-------------------|---------|---------------|-----------|--------|-------------|--------|
|                   |                   |         | JIS<br>rating | BS rating |        | PCSA rating |         |                  |                   |         | JIS<br>rating | BS rating |        | PCSA rating |        |
| m(ft in)          | m                 | ft in   | kg            | kg        | lb     | kg          | lb      | m(ft in)         | m                 | ft in   | kg            | kg        | lb     | kg          | lb     |
| 60.0<br>(196'10") | 12.3              | 40' 4"  | 46 000        | 39 600    | 87 300 | 46 000      | 101 400 | 66.0<br>(216'6") | 13.3              | 43' 8"  | 36 000        | 31 800    | 70 110 | 36 000      | 79 370 |
|                   | 14.0              | 45'11"  | 44 500        | 38 300    | 84 440 | 43 200      | 95 240  |                  | 14.0              | 45'11"  | 36 000        | 31 300    | 69 000 | 36 000      | 79 370 |
|                   | 16.0              | 52' 6"  | 36 800        | 36 800    | 81 130 | 35 700      | 78 710  |                  | 16.0              | 52' 6"  | 36 000        | 30 100    | 66 360 | 35 700      | 78 710 |
|                   | 18.0              | 59' 1"  | 31 100        | 31 100    | 68 560 | 30 200      | 66 580  |                  | 18.0              | 59' 1"  | 31 200        | 28 800    | 63 490 | 30 200      | 66 580 |
|                   | 20.0              | 65' 7"  | 26 800        | 26 800    | 59 080 | 25 900      | 57 100  |                  | 20.0              | 65' 7"  | 26 800        | 26 800    | 59 080 | 25 900      | 57 100 |
|                   | 22.0              | 72' 2"  | 23 400        | 23 400    | 51 590 | 22 600      | 49 820  |                  | 22.0              | 72' 2"  | 23 400        | 23 400    | 51 590 | 22 600      | 49 820 |
|                   | 24.0              | 78' 9"  | 20 600        | 20 600    | 45 420 | 19 900      | 43 870  |                  | 24.0              | 78' 9"  | 20 600        | 20 600    | 45 420 | 19 900      | 43 870 |
|                   | 26.0              | 85' 4"  | 18 300        | 18 300    | 40 340 | 17 600      | 38 800  |                  | 26.0              | 85' 4"  | 18 300        | 18 300    | 40 340 | 17 600      | 38 800 |
|                   | 28.0              | 91'10"  | 16 300        | 16 300    | 35 940 | 15 800      | 34 830  |                  | 28.0              | 91'10"  | 16 300        | 16 300    | 35 940 | 15 800      | 34 830 |
|                   | 30.0              | 98' 5"  | 14 700        | 14 700    | 32 410 | 14 200      | 31 310  |                  | 30.0              | 98' 5"  | 14 700        | 14 700    | 32 410 | 14 200      | 31 310 |
|                   | 32.0              | 105' 0" | 13 200        | 13 200    | 29 100 | 12 800      | 28 220  |                  | 32.0              | 105' 0" | 13 200        | 13 200    | 29 100 | 12 800      | 28 220 |
|                   | 34.0              | 111' 7" | 12 000        | 12 000    | 26 460 | 11 600      | 25 570  |                  | 34.0              | 111' 7" | 12 000        | 12 000    | 26 460 | 11 600      | 25 570 |
|                   | 36.0              | 118' 1" | 10 900        | 10 900    | 24 030 | 10 500      | 23 150  |                  | 36.0              | 118' 1" | 10 900        | 10 900    | 24 030 | 10 500      | 23 150 |
|                   | 38.0              | 124' 8" | 10 000        | 10 000    | 22 050 | 9 600       | 21 160  |                  | 38.0              | 124' 8" | 9 900         | 9 900     | 21 830 | 9 600       | 21 160 |
|                   | 40.0              | 131' 3" | 9 100         | 9 100     | 20 060 | 8 800       | 19 400  |                  | 40.0              | 131' 3" | 9 100         | 9 100     | 20 060 | 8 800       | 19 400 |
|                   | 42.0              | 137'10" | 8 300         | 8 300     | 18 300 | 8 100       | 17 860  |                  | 42.0              | 137'10" | 8 300         | 8 300     | 18 300 | 8 000       | 17 640 |
|                   | 44.0              | 144' 4" | 7 700         | 7 600     | 16 760 | 7 400       | 16 310  |                  | 44.0              | 144' 4" | 7 600         | 7 600     | 16 760 | 7 400       | 16 310 |
|                   | 46.0              | 150'11" | 7 000         | 7 000     | 15 430 | 6 800       | 14 990  |                  | 46.0              | 150'11" | 7 000         | 6 900     | 15 210 | 6 700       | 14 770 |
|                   | 48.0              | 157' 6" | 6 500         | 6 400     | 14 110 | 6 300       | 13 890  |                  | 48.0              | 157' 6" | 6 400         | 6 300     | 13 890 | 6 200       | 13 670 |
|                   | 50.0              | 164' 1" | 5 900         | 5 800     | 12 790 | 5 800       | 12 790  |                  | 50.0              | 164' 1" | 5 800         | 5 700     | 12 570 | 5 700       | 12 570 |
| 52.0              | 170' 7"           | 5 400   | 5 300         | 11 680    | 5 300  | 11 680      | 52.0    | 170' 7"          | 5 200             | 5 200   | 11 460        | 5 200     | 11 460 |             |        |
| 53.6              | 175'10"           | 5 000   | 5 000         | 11 020    | 5 000  | 11 020      | 54.0    | 177' 2"          | 4 800             | 4 800   | 10 580        | 4 800     | 10 580 |             |        |
| 63.0<br>(206'8")  | 12.8              | 42' 0"  | 36 000        | 35 100    | 77 380 | 36 000      | 79 370  | 56.0             | 183' 9"           | 4 300   | 4 300         | 9 480     | 4 300  | 9 480       |        |
|                   | 14.0              | 45'11"  | 36 000        | 34 200    | 75 400 | 36 000      | 79 370  | 58.0             | 190' 3"           | 3 900   | 3 900         | 8 600     | 3 900  | 8 600       |        |
|                   | 16.0              | 52' 6"  | 36 000        | 32 800    | 72 310 | 35 600      | 78 480  | 58.8             | 192'11"           | 3 700   | 3 700         | 8 160     | 3 700  | 8 160       |        |
|                   | 18.0              | 59' 1"  | 31 100        | 31 100    | 68 560 | 30 100      | 66 360  | 69.0<br>(226'5") | 13.9              | 45' 7"  | 36 000        | 28 400    | 62 610 | 36 000      | 79 370 |
|                   | 20.0              | 65' 7"  | 26 700        | 26 700    | 58 860 | 25 800      | 56 880  |                  | 14.0              | 45'11"  | 36 000        | 28 400    | 62 610 | 36 000      | 79 370 |
|                   | 22.0              | 72' 2"  | 23 200        | 23 200    | 51 150 | 22 500      | 49 600  |                  | 16.0              | 52' 6"  | 36 000        | 27 200    | 59 970 | 35 500      | 78 260 |
|                   | 24.0              | 78' 9"  | 20 400        | 20 400    | 44 970 | 19 800      | 43 650  |                  | 18.0              | 59' 1"  | 30 900        | 26 000    | 57 320 | 29 900      | 65 920 |
|                   | 26.0              | 85' 4"  | 18 100        | 18 100    | 39 900 | 17 500      | 38 580  |                  | 20.0              | 65' 7"  | 26 600        | 25 000    | 55 120 | 25 700      | 56 660 |
|                   | 28.0              | 91'10"  | 16 200        | 16 200    | 35 710 | 15 600      | 34 390  |                  | 22.0              | 72' 2"  | 23 100        | 23 100    | 50 930 | 22 300      | 49 160 |
|                   | 30.0              | 98' 5"  | 14 500        | 14 500    | 31 970 | 14 000      | 30 860  |                  | 24.0              | 78' 9"  | 20 300        | 20 300    | 44 750 | 19 600      | 43 210 |
|                   | 32.0              | 105' 0" | 13 100        | 13 100    | 28 880 | 12 700      | 28 000  |                  | 26.0              | 85' 4"  | 18 000        | 18 000    | 39 680 | 17 400      | 38 360 |
|                   | 34.0              | 111' 7" | 11 900        | 11 900    | 26 240 | 11 500      | 25 350  |                  | 28.0              | 91'10"  | 16 100        | 16 100    | 35 490 | 15 500      | 34 170 |
|                   | 36.0              | 118' 1" | 10 800        | 10 800    | 23 810 | 10 400      | 22 930  |                  | 30.0              | 98' 5"  | 14 400        | 14 400    | 31 750 | 13 900      | 30 640 |
|                   | 38.0              | 124' 8" | 9 800         | 9 800     | 21 610 | 9 500       | 20 940  |                  | 32.0              | 105' 0" | 13 000        | 13 000    | 28 660 | 12 500      | 27 560 |
|                   | 40.0              | 131' 3" | 8 900         | 8 900     | 19 620 | 8 600       | 18 960  |                  | 34.0              | 111' 7" | 11 700        | 11 700    | 25 790 | 11 300      | 24 910 |
|                   | 42.0              | 137'10" | 8 200         | 8 200     | 18 080 | 7 900       | 17 420  |                  | 36.0              | 118' 1" | 10 600        | 10 600    | 23 370 | 10 300      | 22 710 |
|                   | 44.0              | 144' 4" | 7 500         | 7 400     | 16 310 | 7 200       | 15 870  |                  | 38.0              | 124' 8" | 9 700         | 9 700     | 21 380 | 9 300       | 20 500 |
|                   | 46.0              | 150'11" | 6 900         | 6 700     | 14 770 | 6 600       | 14 550  |                  | 40.0              | 131' 3" | 8 800         | 8 800     | 19 400 | 8 500       | 18 740 |
|                   | 48.0              | 157' 6" | 6 200         | 6 100     | 13 450 | 6 100       | 13 450  |                  | 42.0              | 137'10" | 8 000         | 8 000     | 17 640 | 7 800       | 17 200 |
|                   | 50.0              | 164' 1" | 5 600         | 5 600     | 12 350 | 5 600       | 12 350  |                  | 44.0              | 144' 4" | 7 300         | 7 200     | 15 870 | 7 100       | 15 650 |
| 52.0              | 170' 7"           | 5 100   | 5 100         | 11 240    | 5 100  | 11 240      | 46.0    |                  | 150'11"           | 6 700   | 6 600         | 14 550    | 6 500  | 14 330      |        |
| 54.0              | 177' 2"           | 4 600   | 4 600         | 10 140    | 4 600  | 10 140      | 48.0    |                  | 157' 6"           | 6 000   | 6 000         | 13 230    | 5 900  | 13 010      |        |
| 56.0              | 183' 9"           | 4 200   | 4 200         | 9 260     | 4 200  | 9 260       | 50.0    |                  | 164' 1"           | 5 400   | 5 400         | 11 900    | 5 400  | 11 900      |        |
| 56.2              | 184' 5"           | 4 100   | 4 100         | 9 040     | 4 100  | 9 040       | 52.0    | 170' 7"          | 4 900             | 4 900   | 10 800        | 4 900     | 10 800 |             |        |
|                   |                   |         |               |           |        |             | 54.0    | 177' 2"          | 4 400             | 4 400   | 9 700         | 4 400     | 9 700  |             |        |
|                   |                   |         |               |           |        |             | 56.0    | 183' 9"          | 4 000             | 4 000   | 8 820         | 4 000     | 8 820  |             |        |
|                   |                   |         |               |           |        |             | 58.0    | 190' 3"          | 3 500             | 3 500   | 7 720         | 3 500     | 7 720  |             |        |
|                   |                   |         |               |           |        |             | 60.0    | 196'10"          | 3 200             | 3 200   | 7 050         | 3 200     | 7 050  |             |        |
|                   |                   |         |               |           |        |             | 61.4    | 201' 5"          | 2 900             | 2 900   | 6 390         | 2 900     | 6 390  |             |        |



| Boom length      | Working radius |         | Rated load |           |        |             |        | Boom length       | Working radius |         | Rated load |           |        |             |        |
|------------------|----------------|---------|------------|-----------|--------|-------------|--------|-------------------|----------------|---------|------------|-----------|--------|-------------|--------|
|                  |                |         | JIS rating | BS rating |        | PCSA rating |        |                   |                |         | JIS rating | BS rating |        | PCSA rating |        |
| m(ft in)         | m              | ft in   | kg         | kg        | lb     | kg          | lb     | m(ft in)          | m              | ft in   | kg         | kg        | lb     | kg          | lb     |
| 72.0<br>(236'3") | 14.4           | 47' 3"  | 34 900     | 25 700    | 56 660 | 34 900      | 76 940 | 78.0<br>(255'11") | 15.4           | 50' 6"  | 24 400     | 20 300    | 44 750 | 24 400      | 53 790 |
|                  | 16.0           | 52' 6"  | 34 400     | 24 800    | 54 670 | 34 400      | 75 840 |                   | 16.0           | 52' 6"  | 24 400     | 20 000    | 44 090 | 24 400      | 53 790 |
|                  | 18.0           | 59' 1"  | 30 700     | 23 700    | 52 250 | 29 900      | 65 920 |                   | 18.0           | 59' 1"  | 24 400     | 19 100    | 42 110 | 24 400      | 53 790 |
|                  | 20.0           | 65' 7"  | 26 400     | 22 800    | 50 270 | 25 700      | 56 660 |                   | 20.0           | 65' 7"  | 24 400     | 18 200    | 40 120 | 24 400      | 53 790 |
|                  | 22.0           | 72' 2"  | 22 900     | 21 800    | 48 060 | 22 300      | 49 160 |                   | 22.0           | 72' 2"  | 22 900     | 17 500    | 38 580 | 22 100      | 48 720 |
|                  | 24.0           | 78' 9"  | 20 100     | 20 100    | 44 310 | 19 600      | 43 210 |                   | 24.0           | 78' 9"  | 20 100     | 16 700    | 36 820 | 19 400      | 42 770 |
|                  | 26.0           | 85' 4"  | 17 800     | 17 800    | 39 240 | 17 400      | 38 360 |                   | 26.0           | 85' 4"  | 17 800     | 16 000    | 35 270 | 17 200      | 37 920 |
|                  | 28.0           | 91'10"  | 15 900     | 15 900    | 35 050 | 15 500      | 34 170 |                   | 28.0           | 91'10"  | 15 800     | 15 300    | 33 730 | 15 300      | 33 730 |
|                  | 30.0           | 98' 5"  | 14 200     | 14 200    | 31 310 | 13 900      | 30 640 |                   | 30.0           | 98' 5"  | 14 100     | 14 100    | 31 090 | 13 700      | 30 200 |
|                  | 32.0           | 105' 0" | 12 800     | 12 800    | 28 220 | 12 500      | 27 560 |                   | 32.0           | 105' 0" | 12 700     | 12 700    | 28 000 | 12 300      | 27 120 |
|                  | 34.0           | 111' 7" | 11 600     | 11 600    | 25 570 | 11 300      | 24 910 |                   | 34.0           | 111' 7" | 11 500     | 11 500    | 25 350 | 11 100      | 24 470 |
|                  | 36.0           | 118' 1" | 10 500     | 10 500    | 23 150 | 10 200      | 22 490 |                   | 36.0           | 118' 1" | 10 400     | 10 400    | 22 930 | 10 000      | 22 050 |
|                  | 38.0           | 124' 8" | 9 500      | 9 500     | 20 940 | 9 300       | 20 500 |                   | 38.0           | 124' 8" | 9 400      | 9 400     | 20 720 | 9 100       | 20 060 |
|                  | 40.0           | 131' 3" | 8 700      | 8 700     | 19 180 | 8 500       | 18 740 |                   | 40.0           | 131' 3" | 8 500      | 8 500     | 18 740 | 8 200       | 18 080 |
|                  | 42.0           | 137'10" | 7 900      | 7 900     | 17 420 | 7 700       | 16 980 |                   | 42.0           | 137'10" | 7 800      | 7 700     | 16 980 | 7 500       | 16 530 |
|                  | 44.0           | 144' 4" | 7 100      | 7 100     | 15 650 | 7 000       | 15 430 |                   | 44.0           | 144' 4" | 7 000      | 6 900     | 15 210 | 6 800       | 14 990 |
|                  | 46.0           | 150'11" | 6 400      | 6 400     | 14 110 | 6 400       | 14 110 |                   | 46.0           | 150'11" | 6 300      | 6 200     | 13 670 | 6 200       | 13 670 |
|                  | 48.0           | 157' 6" | 5 800      | 5 800     | 12 790 | 5 800       | 12 790 |                   | 48.0           | 157' 6" | 5 600      | 5 600     | 12 350 | 5 600       | 12 350 |
|                  | 50.0           | 164' 1" | 5 200      | 5 200     | 11 460 | 5 200       | 11 460 |                   | 50.0           | 164' 1" | 5 000      | 5 000     | 11 020 | 5 000       | 11 020 |
|                  | 52.0           | 170' 7" | 4 600      | 4 600     | 10 140 | 4 600       | 10 140 |                   | 52.0           | 170' 7" | 4 500      | 4 500     | 9 920  | 4 500       | 9 920  |
| 54.0             | 177' 2"        | 4 100   | 4 100      | 9 040     | 4 100  | 9 040       | 54.0   | 177' 2"           | 4 000          | 4 000   | 8 820      | 4 000     | 8 820  |             |        |
| 56.0             | 183' 9"        | 3 700   | 3 700      | 8 160     | 3 700  | 8 160       | 56.0   | 183' 9"           | 3 500          | 3 500   | 7 720      | 3 500     | 7 720  |             |        |
| 58.0             | 190' 3"        | 3 300   | 3 300      | 7 280     | 3 300  | 7 280       | 58.0   | 190' 3"           | 3 100          | 3 100   | 6 830      | 3 100     | 6 830  |             |        |
| 60.0             | 196'10"        | 2 900   | 2 900      | 6 390     | 2 900  | 6 390       | 60.0   | 196'10"           | 2 700          | 2 700   | 5 950      | 2 700     | 5 950  |             |        |
| 62.0             | 203' 5"        | 2 500   | 2 500      | 5 510     | 2 500  | 5 510       | 62.0   | 203' 5"           | 2 400          | 2 400   | 5 290      | 2 300     | 5 070  |             |        |
| 64.0             | 210' 0"        | 2 200   | 2 200      | 4 850     | 2 200  | 4 850       | 64.0   | 210' 0"           | 2 000          | 2 000   | 4 410      | 2 000     | 4 410  |             |        |
| 75.0<br>(246'1") | 14.9           | 48'11"  | 33 000     | 23 000    | 50 710 | 33 000      | 72 750 | 81.0<br>(265'9")  | 15.9           | 52' 2"  | 24 400     | 18 100    | 39 900 | 24 400      | 53 790 |
|                  | 16.0           | 52' 6"  | 31 700     | 22 500    | 49 600 | 31 700      | 69 890 |                   | 16.0           | 52' 6"  | 24 400     | 18 100    | 39 900 | 24 400      | 53 790 |
|                  | 18.0           | 59' 1"  | 30 700     | 21 500    | 47 400 | 29 700      | 65 480 |                   | 18.0           | 59' 1"  | 24 400     | 17 200    | 37 920 | 24 400      | 53 790 |
|                  | 20.0           | 65' 7"  | 26 300     | 20 600    | 45 420 | 25 500      | 56 220 |                   | 20.0           | 65' 7"  | 23 000     | 16 400    | 36 160 | 23 000      | 50 710 |
|                  | 22.0           | 72' 2"  | 22 900     | 19 700    | 43 430 | 22 100      | 48 720 |                   | 22.0           | 72' 2"  | 21 000     | 15 700    | 34 610 | 21 000      | 46 300 |
|                  | 24.0           | 78' 9"  | 20 100     | 18 900    | 41 670 | 19 400      | 42 770 |                   | 24.0           | 78' 9"  | 19 800     | 15 000    | 33 070 | 19 200      | 42 330 |
|                  | 26.0           | 85' 4"  | 17 800     | 17 800    | 39 240 | 17 200      | 37 920 |                   | 26.0           | 85' 4"  | 17 500     | 14 300    | 31 530 | 16 900      | 37 260 |
|                  | 28.0           | 91'10"  | 15 800     | 15 800    | 34 830 | 15 300      | 33 730 |                   | 28.0           | 91'10"  | 15 600     | 13 700    | 30 200 | 15 000      | 33 070 |
|                  | 30.0           | 98' 5"  | 14 200     | 14 200    | 31 310 | 13 700      | 30 200 |                   | 30.0           | 98' 5"  | 13 900     | 13 100    | 28 880 | 13 400      | 29 540 |
|                  | 32.0           | 105' 0" | 12 700     | 12 700    | 28 000 | 12 300      | 27 120 |                   | 32.0           | 105' 0" | 12 500     | 12 500    | 27 560 | 12 000      | 26 460 |
|                  | 34.0           | 111' 7" | 11 500     | 11 500    | 25 350 | 11 100      | 24 470 |                   | 34.0           | 111' 7" | 11 200     | 11 200    | 24 690 | 10 800      | 23 810 |
|                  | 36.0           | 118' 1" | 10 400     | 10 400    | 22 930 | 10 000      | 22 050 |                   | 36.0           | 118' 1" | 10 100     | 10 100    | 22 270 | 9 800       | 21 610 |
|                  | 38.0           | 124' 8" | 9 400      | 9 400     | 20 720 | 9 100       | 20 060 |                   | 38.0           | 124' 8" | 9 200      | 9 100     | 20 060 | 8 800       | 19 400 |
|                  | 40.0           | 131' 3" | 8 600      | 8 500     | 18 740 | 8 300       | 18 300 |                   | 40.0           | 131' 3" | 8 300      | 8 200     | 18 080 | 8 000       | 17 640 |
|                  | 42.0           | 137'10" | 7 800      | 7 700     | 16 980 | 7 500       | 16 530 |                   | 42.0           | 137'10" | 7 500      | 7 400     | 16 310 | 7 200       | 15 870 |
|                  | 44.0           | 144' 4" | 7 100      | 7 000     | 15 430 | 6 800       | 14 990 |                   | 44.0           | 144' 4" | 6 700      | 6 600     | 14 550 | 6 600       | 14 550 |
|                  | 46.0           | 150'11" | 6 400      | 6 300     | 13 890 | 6 200       | 13 670 |                   | 46.0           | 150'11" | 6 000      | 5 900     | 13 010 | 6 000       | 13 230 |
|                  | 48.0           | 157' 6" | 5 700      | 5 700     | 12 570 | 5 700       | 12 570 |                   | 48.0           | 157' 6" | 5 300      | 5 300     | 11 680 | 5 300       | 11 680 |
|                  | 50.0           | 164' 1" | 5 100      | 5 100     | 11 240 | 5 100       | 11 240 |                   | 50.0           | 164' 1" | 4 700      | 4 700     | 10 360 | 4 700       | 10 360 |
|                  | 52.0           | 170' 7" | 4 600      | 4 600     | 10 140 | 4 600       | 10 140 |                   | 52.0           | 170' 7" | 4 200      | 4 200     | 9 260  | 4 200       | 9 260  |
| 54.0             | 177' 2"        | 4 100   | 4 100      | 9 040     | 4 100  | 9 040       | 54.0   | 177' 2"           | 3 700          | 3 700   | 8 160      | 3 700     | 8 160  |             |        |
| 56.0             | 183' 9"        | 3 600   | 3 600      | 7 940     | 3 600  | 7 940       | 56.0   | 183' 9"           | 3 200          | 3 200   | 7 050      | 3 200     | 7 050  |             |        |
| 58.0             | 190' 3"        | 3 200   | 3 200      | 7 050     | 3 200  | 7 050       | 58.0   | 190' 3"           | 2 800          | 2 800   | 6 170      | 2 800     | 6 170  |             |        |
| 60.0             | 196'10"        | 2 800   | 2 800      | 6 170     | 2 800  | 6 170       | 60.0   | 196'10"           | 2 400          | 2 400   | 5 290      | 2 400     | 5 290  |             |        |
| 62.0             | 203' 5"        | 2 500   | 2 500      | 5 510     | 2 500  | 5 510       | 62.0   | 203' 5"           | 2 000          | 2 000   | 4 410      | 2 000     | 4 410  |             |        |
| 64.0             | 210' 0"        | 2 100   | 2 100      | 4 630     | 2 100  | 4 630       | 64.0   | 210' 0"           | 2 000          | 2 000   | 4 410      | 2 000     | 4 410  |             |        |

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| Boom length      | Working radius |          | Rated load |           |        |             |        |
|------------------|----------------|----------|------------|-----------|--------|-------------|--------|
|                  |                |          | JIS rating | BS rating |        | PCSA rating |        |
| m(ft in)         | m              | ft in    | kg         | kg        | lb     | kg          | lb     |
| 84.0<br>(275'7") | 16.5           | 54' 2"   | 22 000     | 16 200    | 35 710 | 22 000      | 48 500 |
|                  | 18.0           | 59' 1"   | 21 000     | 15 500    | 34 170 | 21 000      | 46 300 |
|                  | 20.0           | 65' 7"   | 20 500     | 14 800    | 32 630 | 20 500      | 45 190 |
|                  | 22.0           | 72' 2"   | 20 000     | 14 100    | 31 090 | 20 000      | 44 090 |
|                  | 24.0           | 78' 9"   | 18 700     | 13 400    | 29 540 | 18 700      | 41 230 |
|                  | 26.0           | 85' 4"   | 17 300     | 12 800    | 28 220 | 16 700      | 36 820 |
|                  | 28.0           | 91' 10"  | 15 400     | 12 200    | 26 900 | 14 800      | 32 630 |
|                  | 30.0           | 98' 5"   | 13 700     | 11 600    | 25 570 | 13 200      | 29 100 |
|                  | 32.0           | 105' 0"  | 12 300     | 11 100    | 24 470 | 11 800      | 26 010 |
|                  | 34.0           | 111' 7"  | 11 000     | 10 600    | 23 370 | 10 600      | 23 370 |
|                  | 36.0           | 118' 1"  | 9 900      | 9 900     | 21 830 | 9 600       | 21 160 |
|                  | 38.0           | 124' 8"  | 9 000      | 8 900     | 19 620 | 8 600       | 18 960 |
|                  | 40.0           | 131' 3"  | 8 100      | 8 000     | 17 640 | 7 800       | 17 200 |
|                  | 42.0           | 137' 10" | 7 200      | 7 100     | 15 650 | 7 100       | 15 650 |
|                  | 44.0           | 144' 4"  | 6 400      | 6 400     | 14 110 | 6 400       | 14 110 |
|                  | 46.0           | 150' 11" | 5 700      | 5 700     | 12 570 | 5 700       | 12 570 |
|                  | 48.0           | 157' 6"  | 5 100      | 5 100     | 11 240 | 5 100       | 11 240 |
|                  | 50.0           | 164' 1"  | 4 500      | 4 500     | 9 920  | 4 500       | 9 920  |
|                  | 52.0           | 170' 7"  | 3 900      | 3 900     | 8 600  | 3 900       | 8 600  |
|                  | 54.0           | 177' 2"  | 3 400      | 3 400     | 7 500  | 3 400       | 7 500  |
|                  | 56.0           | 183' 9"  | 3 000      | 3 000     | 6 610  | 2 900       | 6 390  |
|                  | 58.0           | 190' 3"  | 2 500      | 2 500     | 5 510  | 2 500       | 5 510  |
|                  | 60.0           | 196' 10" | 2 100      | 2 100     | 4 630  | 2 100       | 4 630  |

## Rated Load for Main Boom

### Notes:

1. The rated loads shown are based on the machine on firm level ground without traveling.
2. The rated loads shown include the weights of all lifting attachments, such as hook and bucket. The load to be actually lifted is the rated load minus the weight of all lifting attachments.
3. The loads marked by ☐ are based upon structural strength limitation of the machine.
4. Counterweight is 57 700 kg (127 200 lb).
5. In operation, crawlers must be extended.
6. When using a mast, the gantry postures a semi-gantry.





# Main Boom & Jib Construction

## Main Boom Construction

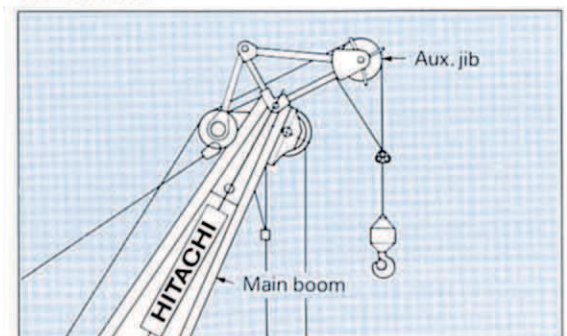
| Boom Length           | 18.0 m<br>(59'1")                   | 21.0 m<br>(68'11") | 24.0 m<br>(78'9") | 27.0 m<br>(88'7") | 30.0 m<br>(98'5") | 33.0 m<br>(108'3") | 36.0 m<br>(118'1") | 39.0 m<br>(127'11") | 42.0 m<br>(137'10") | 45.0 m<br>(147'8") | 48.0 m<br>(157'6")                  | 51.0 m<br>(167'4") | 54.0 m<br>(177'2") | 57.0 m<br>(187'0") | 60.0 m<br>(196'10") | 63.0 m<br>(206'8") | 66.0 m<br>(216'6") | 69.0 m<br>(226'5") | 72.0 m<br>(236'3")                 | 75.0 m<br>(246'1") | 78.0 m<br>(255'11") | 81.0 m<br>(265'9") | 84.0 m<br>(275'7") |  |  |  |                                    |  |
|-----------------------|-------------------------------------|--------------------|-------------------|-------------------|-------------------|--------------------|--------------------|---------------------|---------------------|--------------------|-------------------------------------|--------------------|--------------------|--------------------|---------------------|--------------------|--------------------|--------------------|------------------------------------|--------------------|---------------------|--------------------|--------------------|--|--|--|------------------------------------|--|
| Element               |                                     |                    |                   |                   |                   |                    |                    |                     |                     |                    |                                     |                    |                    |                    |                     |                    |                    |                    |                                    |                    |                     |                    |                    |  |  |  |                                    |  |
| Lower 7.5 m(24'7")    | 1                                   | 1                  | 1                 | 1                 | 1                 | 1                  | 1                  | 1                   | 1                   | 1                  | 1                                   | 1                  | 1                  | 1                  | 1                   | 1                  | 1                  | 1                  | 1                                  | 1                  | 1                   | 1                  | 1                  |  |  |  |                                    |  |
| Upper 10.5 m(34'5")   | 1                                   | 1                  | 1                 | 1                 | 1                 | 1                  | 1                  | 1                   | 1                   | 1                  | 1                                   | 1                  | 1                  | 1                  | 1                   | 1                  | 1                  | 1                  | 1                                  | 1                  | 1                   | 1                  | 1                  |  |  |  |                                    |  |
| Insert A 3.0 m(9'10") | —                                   | 1                  | 2                 | 1                 | 2                 | 1                  | 2                  | 2                   | 1                   | 1                  | 2                                   | 1                  | 1                  | 2                  | 1                   | 2                  | 1                  | 2                  | 2                                  | 1                  | 1                   | 2                  | 1                  |  |  |  |                                    |  |
| Insert 6.0 m(19'8")   | —                                   | —                  | —                 | 1                 | 1                 | 2                  | 2                  | 1                   | 2                   | 1                  | 1                                   | 2                  | 1                  | 1                  | 2                   | 2                  | 1                  | 1                  | 1                                  | 2                  | 1                   | 1                  | 2                  |  |  |  |                                    |  |
| Insert 9.0 m(29'6")   | —                                   | —                  | —                 | —                 | —                 | —                  | —                  | 1                   | 1                   | 2                  | 2                                   | 2                  | 3                  | 3                  | 3                   | 3                  | 3                  | 3                  | 2                                  | 2                  | 3                   | 3                  | 3                  |  |  |  |                                    |  |
| Insert 12.0 m(39'4")  | —                                   | —                  | —                 | —                 | —                 | —                  | —                  | —                   | —                   | —                  | —                                   | —                  | —                  | —                  | —                   | —                  | 1                  | 1                  | 2                                  | 2                  | 2                   | 2                  | 2                  |  |  |  |                                    |  |
| Without mast          |                                     |                    |                   |                   |                   |                    |                    |                     |                     |                    |                                     |                    |                    |                    |                     |                    |                    |                    |                                    |                    |                     |                    |                    |  |  |  |                                    |  |
| With mast             |                                     |                    |                   |                   |                   |                    |                    |                     |                     |                    |                                     |                    |                    |                    |                     |                    |                    |                    |                                    |                    |                     |                    |                    |  |  |  |                                    |  |
| Available hook        | 150 000 kg(330 700 lb)capacity hook |                    |                   |                   |                   |                    |                    |                     |                     |                    | 100 000 kg(220 500 lb)capacity hook |                    |                    |                    |                     |                    |                    |                    | 60 000 kg(132 300 lb)capacity hook |                    |                     |                    |                    |  |  |  | 25 000 kg(55 120 lb) capacity hook |  |
| Attachable Jib        |                                     |                    |                   |                   |                   |                    |                    |                     |                     |                    | 13 m(42'8") to 31 m(101'8")Jib      |                    |                    |                    |                     |                    |                    |                    |                                    |                    |                     |                    |                    |  |  |  |                                    |  |
| Auxiliary Jib         |                                     |                    |                   |                   |                   |                    |                    |                     |                     |                    |                                     |                    |                    |                    |                     |                    |                    |                    |                                    |                    |                     |                    |                    |  |  |  |                                    |  |

## Jib Construction

| Jib length              | 13.0 m<br>(42'8")                 | 19.0 m<br>(62'4") | 25.0 m<br>(82'0") | 31.0 m<br>(101'8") |
|-------------------------|-----------------------------------|-------------------|-------------------|--------------------|
| Element                 |                                   |                   |                   |                    |
| Lower 5.5 m(16'5")      | 1                                 | 1                 | 1                 | 1                  |
| Upper 5.0 m(16'5")      | 1                                 | 1                 | 1                 | 1                  |
| Insert 3.0 m(9'10")     | 1                                 | 1                 | 1                 | 1                  |
| Insert 6.0 m(19'8")     | —                                 | 1                 | 2                 | 3                  |
| Number of rope reevings | 1                                 | 1                 | 1                 | 1                  |
| Available hook          | 12 500 kg(27 560 lb)capacity hook |                   |                   |                    |

### Auxiliary jib (Optional)

Attachable to main boom top for hoisting light-weight load quickly with a single rope used. (Never use the main and auxiliary hooks at the same time.)

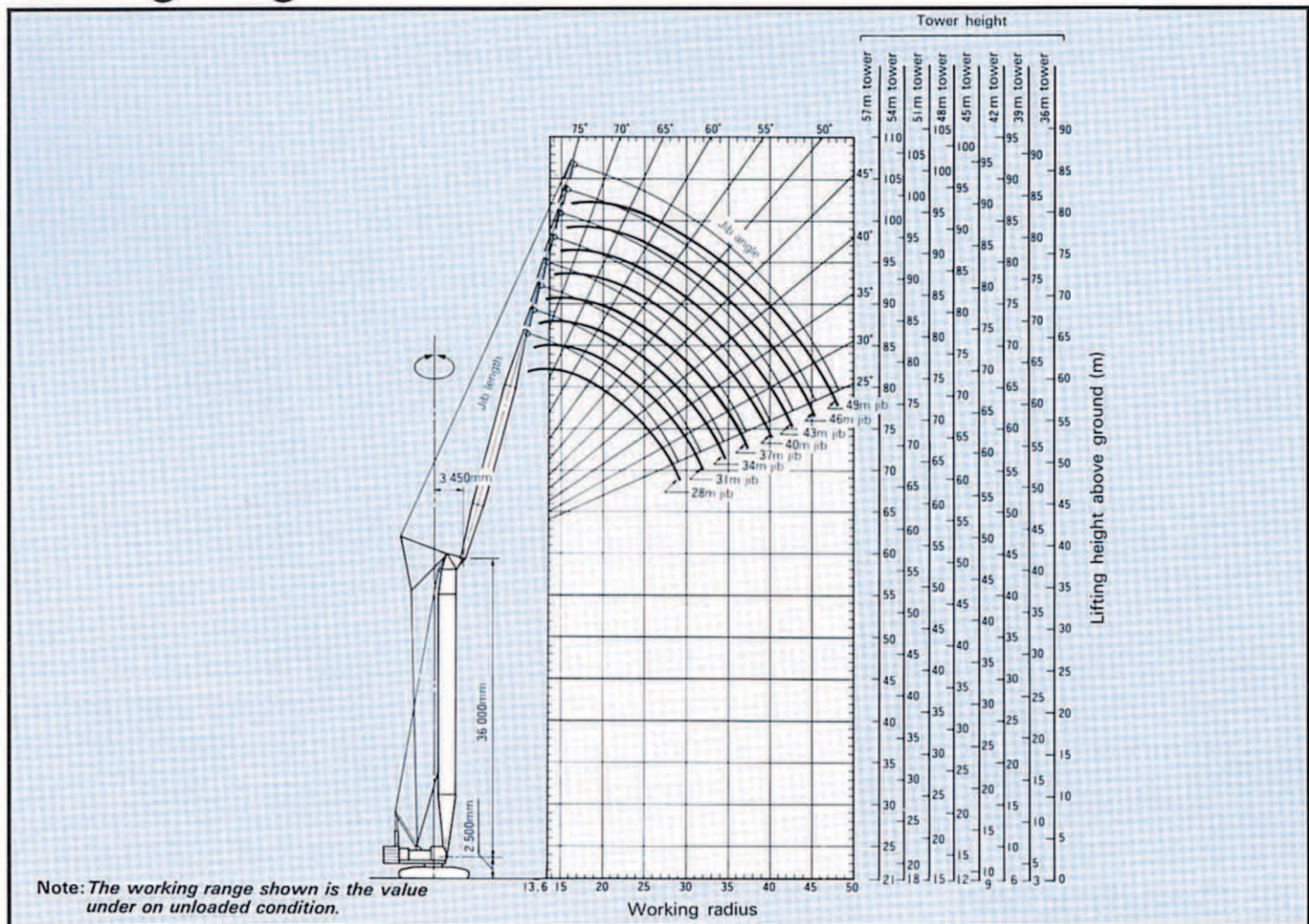




# TOWER CRANE

## With Tubular TOWER Boom

### Working Ranges (90° Tower Angle)



### Specifications

|                                     |                                                                                                                                                               |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum rated load                  | 23 000 kg(50 700 lb) at 14 m(45'11")                                                                                                                          |
| Tower boom length                   | 36 m(118'1") to 57 m(187'0")                                                                                                                                  |
| Jib length                          | 28 m(91'10") to 49 m(160'9")                                                                                                                                  |
| Max. tower boom + Jib boom          | 57 m(187'0") + 49 m(160'9")                                                                                                                                   |
| Working radius*1                    | 13.5 m(44'3") to 60.7 m(199'2")                                                                                                                               |
| Maximum lifting height above ground | 102 m(334'8")                                                                                                                                                 |
| Ground pressure                     | 1.02 bar(1.02 kgf/cm <sup>2</sup> , 14.5 psi)                                                                                                                 |
| Operating weight                    | Equipped with 57 m(187'0") tower boom, 49 m(160'9") jib, 25 000 kg(55 120 lb) capacity hook and 57 700 kg(127 200 lb) counterweight<br>167 000 kg(368 200 lb) |

Notes: \*1 With the load being lifted.  
For common specifications which are not listed above, refer to P.1 and P.2



**JIS Rating:**

The rated loads shown don't exceed 78% of tipping loads with the machine on firm level ground.

**PCSA Rating:**

The rated loads, listed are determined according to PCSA(Power Crane and Shovel Association in U.S.A) and do not exceed 75% of tipping load on condition that the machine is stationed on firm, level ground.

**Rated Loads (90° Tower Angle)**

| Tower length<br>m(ft in)                    | Jib length<br>m(ft in) | Working radius<br>m ft in |          | Rated load       |                      |        |
|---------------------------------------------|------------------------|---------------------------|----------|------------------|----------------------|--------|
|                                             |                        |                           |          | JIS rating<br>kg | PCSA rating<br>kg lb |        |
| 36.0<br>(118'1")<br>to<br>57.0<br>(187'0")  | 28.0<br>(91'10")       | 13.6                      | 44' 7"   | 23 000           | 23 000               | 50 700 |
|                                             |                        | 14.0                      | 45' 11"  | 23 000           | 23 000               | 50 700 |
|                                             |                        | 16.0                      | 52' 6"   | 20 500           | 20 500               | 45 190 |
|                                             |                        | 18.0                      | 59' 1"   | 18 400           | 18 400               | 40 560 |
|                                             |                        | 20.0                      | 65' 7"   | 16 600           | 16 600               | 36 590 |
|                                             |                        | 22.0                      | 72' 2"   | 15 100           | 15 100               | 33 280 |
|                                             |                        | 24.0                      | 78' 9"   | 13 800           | 13 800               | 30 420 |
|                                             |                        | 26.0                      | 85' 4"   | 12 500           | 12 500               | 27 550 |
|                                             |                        | 28.0                      | 91' 10"  | 11 300           | 11 300               | 24 910 |
|                                             |                        | 28.9                      | 94' 10"  | 10 900           | 10 900               | 24 030 |
|                                             | 31.0<br>(101'8")       | 14.3                      | 46' 11"  | 21 700           | 21 700               | 47 840 |
|                                             |                        | 16.0                      | 52' 6"   | 20 500           | 20 500               | 45 190 |
|                                             |                        | 18.0                      | 59' 1"   | 18 400           | 18 400               | 40 560 |
|                                             |                        | 20.0                      | 65' 7"   | 16 600           | 16 600               | 36 590 |
|                                             |                        | 22.0                      | 72' 2"   | 15 100           | 15 100               | 33 280 |
|                                             |                        | 24.0                      | 78' 9"   | 13 800           | 13 800               | 30 420 |
|                                             |                        | 26.0                      | 85' 4"   | 12 500           | 12 500               | 27 550 |
|                                             |                        | 28.0                      | 91' 10"  | 11 300           | 11 300               | 24 910 |
|                                             |                        | 30.0                      | 98' 5"   | 10 200           | 10 200               | 22 480 |
|                                             |                        | 31.7                      | 104' 0"  | 9 600            | 9 600                | 21 160 |
| 39.0<br>(127'11")<br>to<br>57.0<br>(187'0") | 34.0<br>(111'7")       | 15.3                      | 50' 2"   | 20 500           | 20 500               | 45 190 |
|                                             |                        | 16.0                      | 52' 6"   | 20 000           | 20 000               | 44 090 |
|                                             |                        | 18.0                      | 59' 1"   | 18 400           | 18 400               | 40 560 |
|                                             |                        | 20.0                      | 65' 7"   | 16 600           | 16 600               | 36 590 |
|                                             |                        | 22.0                      | 72' 2"   | 15 100           | 15 100               | 33 280 |
|                                             |                        | 24.0                      | 78' 9"   | 13 800           | 13 800               | 30 420 |
|                                             |                        | 26.0                      | 85' 4"   | 12 500           | 12 500               | 27 550 |
|                                             |                        | 28.0                      | 91' 10"  | 11 300           | 11 300               | 24 910 |
|                                             |                        | 30.0                      | 98' 5"   | 10 200           | 10 200               | 22 480 |
|                                             |                        | 32.0                      | 105' 0"  | 9 400            | 9 400                | 20 720 |
|                                             |                        | 34.0                      | 111' 7"  | 8 700            | 8 700                | 19 180 |
|                                             |                        | 34.4                      | 112' 10" | 8 600            | 8 600                | 18 950 |
| 42.0<br>(137'10")<br>to<br>57.0<br>(187'0") | 37.0<br>(121'5")       | 16.4                      | 53' 10"  | 18 900           | 18 900               | 41 660 |
|                                             |                        | 18.0                      | 59' 1"   | 18 100           | 18 100               | 39 900 |
|                                             |                        | 20.0                      | 65' 7"   | 16 600           | 16 600               | 36 590 |
|                                             |                        | 22.0                      | 72' 2"   | 15 100           | 15 100               | 33 280 |
|                                             |                        | 24.0                      | 78' 9"   | 13 800           | 13 800               | 30 420 |
|                                             |                        | 26.0                      | 85' 4"   | 12 500           | 12 500               | 27 550 |
|                                             |                        | 28.0                      | 91' 10"  | 11 300           | 11 300               | 24 910 |
|                                             |                        | 30.0                      | 98' 5"   | 10 200           | 10 200               | 22 480 |
|                                             |                        | 32.0                      | 105' 0"  | 9 400            | 9 400                | 20 720 |
|                                             |                        | 34.0                      | 111' 7"  | 8 700            | 8 700                | 19 180 |
|                                             |                        | 36.0                      | 118' 1"  | 8 000            | 8 000                | 17 630 |
|                                             |                        | 37.1                      | 121' 9"  | 7 600            | 7 600                | 16 750 |
|                                             | 40.0<br>(131'3")       | 17.1                      | 56' 1"   | 17 400           | 17 400               | 38 360 |
|                                             |                        | 18.0                      | 59' 1"   | 17 000           | 17 000               | 37 470 |
|                                             |                        | 20.0                      | 65' 7"   | 16 200           | 16 200               | 35 710 |
|                                             |                        | 22.0                      | 72' 2"   | 15 100           | 15 100               | 33 280 |
|                                             |                        | 24.0                      | 78' 9"   | 13 800           | 13 800               | 30 420 |
|                                             |                        | 26.0                      | 85' 4"   | 12 500           | 12 500               | 27 550 |
|                                             |                        | 28.0                      | 91' 10"  | 11 300           | 11 300               | 24 910 |
|                                             |                        | 30.0                      | 98' 5"   | 10 200           | 10 200               | 22 480 |
|                                             |                        | 32.0                      | 105' 0"  | 9 400            | 9 400                | 20 720 |
|                                             |                        | 34.0                      | 111' 7"  | 8 700            | 8 700                | 19 180 |
|                                             |                        | 36.0                      | 118' 1"  | 8 000            | 8 000                | 17 630 |
|                                             |                        | 38.0                      | 124' 8"  | 7 400            | 7 400                | 16 310 |
|                                             |                        | 39.8                      | 130' 7"  | 7 000            | 7 000                | 15 430 |
| 48.0<br>(157'6")<br>to<br>57.0<br>(187'0")  | 43.0<br>(141'1")       | 18.0                      | 59' 1"   | 15 100           | 15 100               | 33 280 |
|                                             |                        | 20.0                      | 65' 7"   | 14 500           | 14 500               | 31 960 |
|                                             |                        | 22.0                      | 72' 2"   | 13 900           | 13 900               | 30 640 |
|                                             |                        | 24.0                      | 78' 9"   | 13 200           | 13 200               | 29 100 |
|                                             |                        | 26.0                      | 85' 4"   | 12 500           | 12 500               | 27 550 |
|                                             |                        | 28.0                      | 91' 10"  | 11 300           | 11 300               | 24 910 |
|                                             |                        | 30.0                      | 98' 5"   | 10 200           | 10 200               | 22 480 |
|                                             |                        | 32.0                      | 105' 0"  | 9 400            | 9 400                | 20 720 |
|                                             |                        | 34.0                      | 111' 7"  | 8 700            | 8 700                | 19 180 |
|                                             |                        | 36.0                      | 118' 1"  | 8 000            | 8 000                | 17 630 |
|                                             |                        | 38.0                      | 124' 8"  | 7 400            | 7 400                | 16 310 |
|                                             |                        | 40.0                      | 131' 3"  | 6 800            | 6 800                | 14 990 |
|                                             |                        | 42.0                      | 137' 10" | 6 300            | 6 300                | 13 880 |
|                                             |                        | 42.5                      | 139' 5"  | 6 200            | 6 200                | 13 660 |

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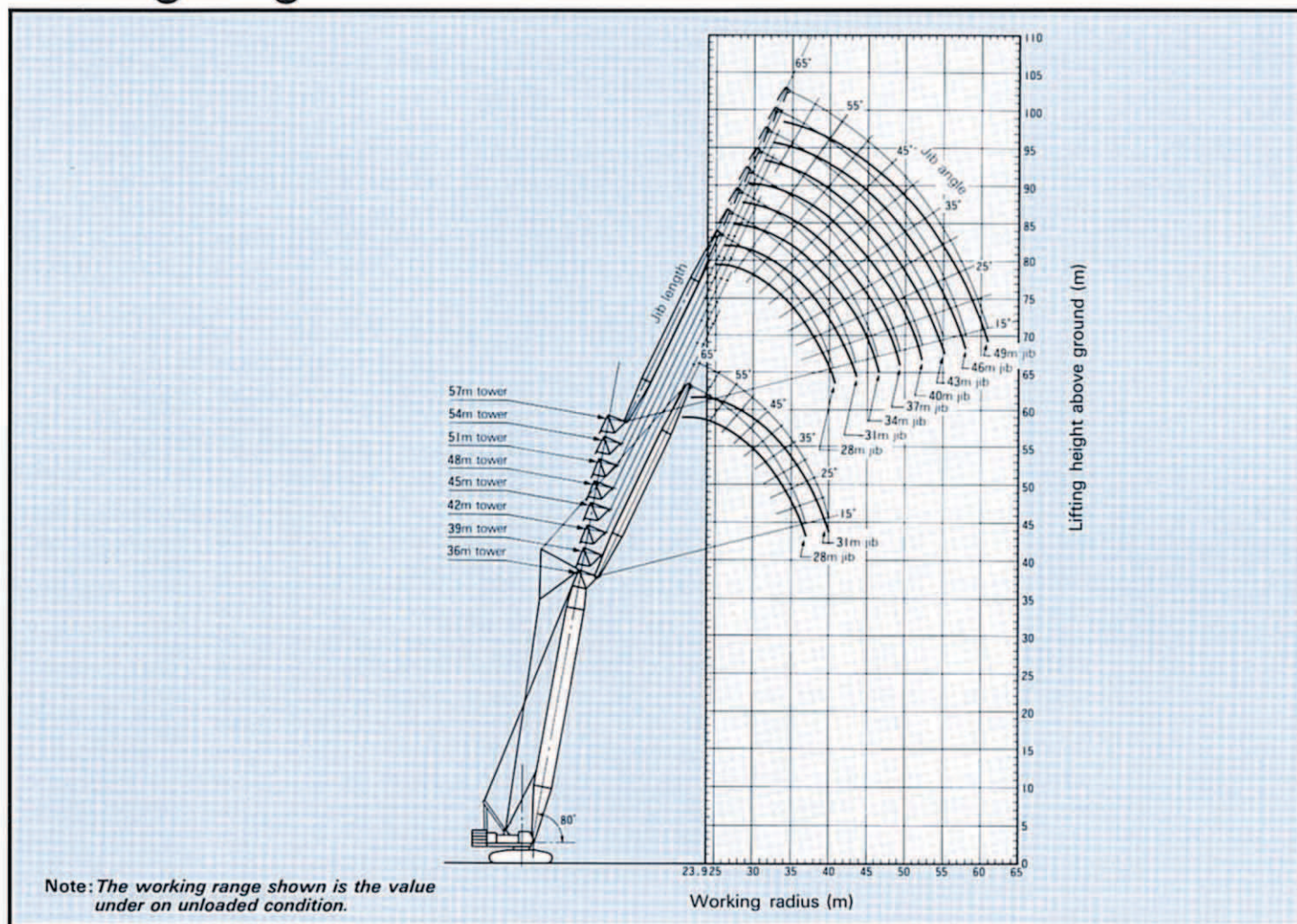
| Tower length                               | Jib length        | Working radius |          | Rated load |             |        |
|--------------------------------------------|-------------------|----------------|----------|------------|-------------|--------|
|                                            |                   |                |          | JIS rating | PCSA rating |        |
| m(ft in)                                   | m(ft in)          | m              | ft in    | kg         | kg          | lb     |
| 51.0<br>(167'4")<br>to<br>57.0<br>(187'0") | 46.0<br>(150'11") | 18.7           | 61' 4"   | 14 000     | 14 000      | 30 860 |
|                                            |                   | 20.0           | 65' 7"   | 13 500     | 13 500      | 29 760 |
|                                            |                   | 22.0           | 72' 2"   | 12 800     | 12 800      | 28 210 |
|                                            |                   | 24.0           | 78' 9"   | 12 200     | 12 200      | 26 890 |
|                                            |                   | 26.0           | 85' 4"   | 11 600     | 11 600      | 25 570 |
|                                            |                   | 28.0           | 91' 10"  | 11 000     | 11 000      | 24 250 |
|                                            |                   | 30.0           | 98' 5"   | 10 200     | 10 200      | 22 480 |
|                                            |                   | 32.0           | 105' 0"  | 9 400      | 9 400       | 20 720 |
|                                            |                   | 34.0           | 111' 7"  | 8 700      | 8 700       | 19 180 |
|                                            |                   | 36.0           | 118' 1"  | 8 000      | 8 000       | 17 630 |
|                                            |                   | 38.0           | 124' 8"  | 7 400      | 7 400       | 16 310 |
|                                            |                   | 40.0           | 131' 3"  | 6 800      | 6 800       | 14 990 |
|                                            |                   | 42.0           | 137' 10" | 6 300      | 6 300       | 13 880 |
|                                            |                   | 44.0           | 144' 4"  | 5 900      | 5 900       | 13 000 |
|                                            |                   | 45.2           | 148' 4"  | 5 600      | 5 600       | 12 340 |
| 54.0<br>(177'2")<br>to<br>57.0<br>(187'0") | 49.0<br>(160'9")  | 19.3           | 63' 4"   | 11 700     | 11 700      | 25 790 |
|                                            |                   | 20.0           | 65' 7"   | 11 500     | 11 500      | 25 350 |
|                                            |                   | 22.0           | 72' 2"   | 11 100     | 11 100      | 24 470 |
|                                            |                   | 24.0           | 78' 9"   | 10 700     | 10 700      | 23 580 |
|                                            |                   | 26.0           | 85' 4"   | 10 300     | 10 300      | 22 700 |
|                                            |                   | 28.0           | 91' 10"  | 9 800      | 9 800       | 21 600 |
|                                            |                   | 30.0           | 98' 5"   | 9 300      | 9 300       | 20 500 |
|                                            |                   | 32.0           | 105' 0"  | 8 700      | 8 700       | 19 180 |
|                                            |                   | 34.0           | 111' 7"  | 8 200      | 8 200       | 18 070 |
|                                            |                   | 36.0           | 118' 1"  | 7 700      | 7 700       | 16 970 |
|                                            |                   | 38.0           | 124' 8"  | 7 200      | 7 200       | 15 870 |
|                                            |                   | 40.0           | 131' 3"  | 6 700      | 6 700       | 14 770 |
|                                            |                   | 42.0           | 137' 10" | 6 300      | 6 300       | 13 880 |
|                                            |                   | 44.0           | 144' 4"  | 5 800      | 5 800       | 12 780 |
|                                            |                   | 46.0           | 150' 11" | 5 300      | 5 300       | 11 680 |
|                                            |                   | 48.0           | 157' 6"  | 4 700      | 4 700       | 10 360 |

#### Notes:

- 1.The rated loads shown are based on the machine on firm, level ground.
- 2.The rated loads shown include the weights of all lifting attachments such as a hook. The load to be actually lifted is the rated load minus the weights of all lifting attachments.
- 3.The rated loads shown are limited by structural strength of the machine.
- 4.Counterweight is 57 700 kg(127 200 lb).
- 5.In operation, crawlers must be extended.



## Working Ranges (80° Tower Angle)





# Rated Loads (80° Tower Angle)

| Tower length      | Jib length       | Working radius   |         | Rated load |             |        | Tower length      | Jib length       | Working radius   |          | Rated load |             |        |
|-------------------|------------------|------------------|---------|------------|-------------|--------|-------------------|------------------|------------------|----------|------------|-------------|--------|
|                   |                  |                  |         | JIS rating | PCSA rating |        |                   |                  |                  |          | JIS rating | PCSA rating |        |
| m(ft in)          | m(ft in)         | m                | ft in   | kg         | kg          | lb     | m(ft in)          | m(ft in)         | m                | ft in    | kg         | kg          | lb     |
| 36.0<br>(118'1")  | 28.0<br>(91'10") | 23.9             | 78' 5"  | 13 900     | 13 900      | 30 640 | 42.0<br>(137'10") | 28.0<br>(91'10") | 25.0             | 82' 0"   | 131 00     | 13 100      | 28 880 |
|                   |                  | 24.0             | 78' 9"  | 13 800     | 13 800      | 30 420 |                   |                  | 26.0             | 85' 4"   | 12 500     | 12 500      | 27 550 |
|                   |                  | 26.0             | 85' 4"  | 12 500     | 12 500      | 27 550 |                   |                  | 28.0             | 91' 10"  | 11 300     | 11 300      | 24 910 |
|                   |                  | 28.0             | 91' 10" | 11 300     | 11 300      | 24 910 |                   |                  | 30.0             | 98' 5"   | 10 200     | 10 200      | 22 480 |
|                   |                  | 30.0             | 98' 5"  | 10 200     | 10 200      | 22 480 |                   |                  | 32.0             | 105' 0"  | 9 400      | 9 400       | 20 720 |
|                   |                  | 32.0             | 105' 0" | 9 400      | 9 400       | 20 720 |                   |                  | 34.0             | 111' 7"  | 8 700      | 8 700       | 19 180 |
|                   |                  | 34.0             | 111' 7" | 8 700      | 8 700       | 19 180 |                   |                  | 36.0             | 118' 1"  | 8 000      | 8 000       | 17 630 |
|                   |                  | 36.0             | 118' 1" | 8 000      | 8 000       | 17 630 |                   |                  | 37.8             | 124' 0"  | 7 500      | 7 500       | 16 530 |
|                   |                  | 36.8             | 120' 9" | 7 800      | 7 800       | 17 190 |                   |                  | 31.0<br>(101'8") | 26.5     | 86' 11"    | 12 200      | 12 200 |
|                   | 31.0<br>(101'8") | 25.3             | 83' 0"  | 12 900     | 12 900      | 28 430 |                   | 28.0             |                  | 91' 10"  | 11 300     | 11 300      | 24 910 |
|                   |                  | 26.0             | 85' 4"  | 12 500     | 12 500      | 27 550 |                   | 30.0             |                  | 98' 5"   | 10 200     | 10 200      | 22 480 |
|                   |                  | 28.0             | 91' 10" | 11 300     | 11 300      | 24 910 |                   | 32.0             |                  | 105' 0"  | 9 400      | 9 400       | 20 720 |
|                   |                  | 30.0             | 98' 5"  | 10 200     | 10 200      | 22 480 |                   | 34.0             |                  | 111' 7"  | 8 700      | 8 700       | 19 180 |
|                   |                  | 32.0             | 105' 0" | 9 400      | 9 400       | 20 720 |                   | 36.0             |                  | 118' 1"  | 8 000      | 8 000       | 17 630 |
|                   |                  | 34.0             | 111' 7" | 8 700      | 8 700       | 19 180 |                   | 38.0             |                  | 124' 8"  | 7 400      | 7 400       | 16 310 |
|                   |                  | 36.0             | 118' 1" | 8 000      | 8 000       | 17 630 |                   | 40.0             |                  | 131' 3"  | 6 800      | 6 800       | 14 990 |
|                   |                  | 38.0             | 124' 8" | 7 400      | 7 400       | 16 310 |                   | 40.7             |                  | 133' 6"  | 6 600      | 6 600       | 14 550 |
|                   |                  | 39.7             | 130' 3" | 6 900      | 6 900       | 15 210 |                   | 34.0<br>(111'7") | 27.9             | 91' 6"   | 11 400     | 11 400      | 25 130 |
| 39.0<br>(127'11") | 28.0<br>(91'10") | 24.5             | 80' 5"  | 13 500     | 13 500      | 29 760 | 28.0              |                  | 91' 10"          | 11 300   | 11 300     | 24 910      |        |
|                   |                  | 26.0             | 85' 4"  | 12 500     | 12 500      | 27 550 | 30.0              |                  | 98' 5"           | 10 200   | 10 200     | 22 480      |        |
|                   |                  | 28.0             | 91' 10" | 11 300     | 11 300      | 24 910 | 32.0              |                  | 105' 0"          | 9 400    | 9 400      | 20 720      |        |
|                   |                  | 30.0             | 98' 5"  | 10 200     | 10 200      | 22 480 | 34.0              |                  | 111' 7"          | 8 700    | 8 700      | 19 180      |        |
|                   |                  | 32.0             | 105' 0" | 9 400      | 9 400       | 20 720 | 36.0              |                  | 118' 1"          | 8 000    | 8 000      | 17 630      |        |
|                   |                  | 34.0             | 111' 7" | 8 700      | 8 700       | 19 180 | 38.0              |                  | 124' 8"          | 7 400    | 7 400      | 16 310      |        |
|                   |                  | 36.0             | 118' 1" | 8 000      | 8 000       | 17 630 | 40.0              |                  | 131' 3"          | 6 800    | 6 800      | 14 990      |        |
|                   |                  | 37.3             | 122' 5" | 7 000      | 7 000       | 15 430 | 42.0              |                  | 137' 10"         | 6 300    | 6 300      | 13 880      |        |
|                   | 31.0<br>(101'8") | 25.9             | 85' 0"  | 12 600     | 12 600      | 27 770 | 43.6              | 143' 1"          | 6 000            | 6 000    | 13 220     |             |        |
|                   |                  | 31.0<br>(101'8") | 26.0    | 85' 4"     | 12 500      | 12 500 | 27 550            | 37.0<br>(121'5") | 29.3             | 96' 2"   | 10 600     | 10 600      | 23 360 |
|                   |                  |                  | 28.0    | 91' 10"    | 11 300      | 11 300 | 24 910            |                  | 30.0             | 98' 5"   | 10 200     | 10 200      | 22 480 |
|                   |                  |                  | 30.0    | 98' 5"     | 10 200      | 10 200 | 22 480            |                  | 32.0             | 105' 0"  | 9 400      | 9 400       | 20 720 |
|                   |                  |                  | 32.0    | 105' 0"    | 9 400       | 9 400  | 20 720            |                  | 34.0             | 111' 7"  | 8 700      | 8 700       | 19 180 |
|                   |                  |                  | 34.0    | 111' 7"    | 8 700       | 8 700  | 19 180            |                  | 36.0             | 118' 1"  | 8 000      | 8 000       | 17 630 |
|                   |                  |                  | 36.0    | 118' 1"    | 8 000       | 8 000  | 17 630            |                  | 38.0             | 124' 8"  | 7 400      | 7 400       | 16 310 |
|                   |                  |                  | 38.0    | 124' 8"    | 7 400       | 7 400  | 16 310            |                  | 40.0             | 131' 3"  | 6 800      | 6 800       | 14 990 |
|                   |                  |                  | 40.0    | 131' 3"    | 6 800       | 6 800  | 14 990            |                  | 42.0             | 137' 10" | 6 300      | 6 300       | 13 880 |
|                   |                  |                  | 40.2    | 131' 11"   | 6 700       | 6 700  | 14 770            |                  | 44.0             | 144' 4"  | 5 900      | 5 900       | 13 000 |
|                   | 34.0<br>(111'7") |                  | 27.3    | 89' 7"     | 11 700      | 11 700 | 25 790            |                  | 46.0             | 150' 11" | 5 400      | 5 400       | 11 900 |
|                   |                  | 28.0             | 91' 10" | 11 300     | 11 300      | 24 910 | 46.5              | 152' 7"          | 5 300            | 5 300    | 11 680     |             |        |
|                   |                  | 30.0             | 98' 5"  | 10 200     | 10 200      | 22 480 |                   |                  |                  |          |            |             |        |
|                   |                  | 32.0             | 105' 0" | 9 400      | 9 400       | 20 720 |                   |                  |                  |          |            |             |        |
|                   |                  | 34.0             | 111' 7" | 8 700      | 8 700       | 19 180 |                   |                  |                  |          |            |             |        |
|                   |                  | 36.0             | 118' 1" | 8 000      | 8 000       | 17 630 |                   |                  |                  |          |            |             |        |
|                   |                  | 38.0             | 124' 8" | 7 400      | 7 400       | 16 310 |                   |                  |                  |          |            |             |        |
|                   |                  | 40.0             | 131' 3" | 6 800      | 6 800       | 14 990 |                   |                  |                  |          |            |             |        |
|                   | 42.0             | 137' 10"         | 6 300   | 6 300      | 13 880      |        |                   |                  |                  |          |            |             |        |
|                   | 43.1             | 141' 5"          | 6 100   | 6 100      | 13 440      |        |                   |                  |                  |          |            |             |        |



| Tower length     | Jib length       | Working radius   |         | Rated load |             |        | Tower length     | Jib length       | Working radius   |         | Rated load |             |        |
|------------------|------------------|------------------|---------|------------|-------------|--------|------------------|------------------|------------------|---------|------------|-------------|--------|
|                  |                  |                  |         | JIS rating | PCSA rating |        |                  |                  |                  |         | JIS rating | PCSA rating |        |
| m(ft in)         | m(ft in)         | m                | ft in   | kg         | kg          | lb     | m(ft in)         | m(ft in)         | m                | ft in   | kg         | kg          | lb     |
| 45.0<br>(147'8") | 28.0<br>(91'10") | 25.6             | 84' 0"  | 12 800     | 12 800      | 28 210 | 48.0<br>(157'6") | 28.0<br>(91'10") | 26.2             | 85'11"  | 12 400     | 124 00      | 27 330 |
|                  |                  | 26.0             | 85' 4"  | 12 500     | 12 500      | 27 550 |                  |                  | 28.0             | 91'10"  | 11 300     | 113 00      | 24 910 |
|                  |                  | 28.0             | 91'10"  | 11 300     | 11 300      | 24 910 |                  |                  | 30.0             | 98' 5"  | 10 200     | 10 200      | 22 480 |
|                  |                  | 30.0             | 98' 5"  | 10 200     | 10 200      | 22 480 |                  |                  | 32.0             | 105' 0" | 9 400      | 9 400       | 20 720 |
|                  |                  | 32.0             | 105' 0" | 9 400      | 9 400       | 20 720 |                  |                  | 34.0             | 111' 7" | 8 700      | 8 700       | 19 180 |
|                  |                  | 34.0             | 111' 7" | 8 700      | 8 700       | 19 180 |                  |                  | 36.0             | 118' 1" | 8 000      | 8 000       | 17 630 |
|                  |                  | 36.0             | 118' 1" | 8 000      | 8 000       | 17 630 |                  |                  | 38.0             | 124' 8" | 7 400      | 7 400       | 16 310 |
|                  |                  | 38.0             | 124' 8" | 7 400      | 7 400       | 16 310 |                  |                  | 38.9             | 127' 7" | 7 100      | 7 100       | 15 560 |
|                  |                  | 38.3             | 125' 8" | 7 300      | 7 300       | 16 090 |                  |                  | 31.0<br>(101'8") | 27.6    | 90' 7"     | 11 500      | 11 500 |
|                  | 31.0<br>(101'8") | 27.0             | 88' 7"  | 11 900     | 11 900      | 26 230 |                  | 28.0             |                  | 91'10"  | 11 300     | 11 300      | 24 910 |
|                  |                  | 28.0             | 91'10"  | 11 300     | 11 300      | 24 910 |                  | 30.0             |                  | 98' 5"  | 10 200     | 10 200      | 22 480 |
|                  |                  | 30.0             | 98' 5"  | 10 200     | 10 200      | 22 480 |                  | 32.0             |                  | 105' 0" | 9 400      | 9 400       | 20 720 |
|                  |                  | 32.0             | 105' 0" | 9 400      | 9 400       | 20 720 |                  | 34.0             |                  | 111' 7" | 8 700      | 8 700       | 19 180 |
|                  |                  | 34.0             | 111' 7" | 8 700      | 8 700       | 19 180 |                  | 36.0             |                  | 118' 1" | 8 000      | 8 000       | 17 630 |
|                  |                  | 36.0             | 118' 1" | 8 000      | 8 000       | 17 630 |                  | 38.0             |                  | 124' 8" | 7 400      | 7 400       | 16 310 |
|                  |                  | 38.0             | 124' 8" | 7 400      | 7 400       | 16 310 |                  | 40.0             |                  | 131' 3" | 6 800      | 6 800       | 14 990 |
|                  |                  | 40.0             | 131' 3" | 6 800      | 6 800       | 14 990 |                  | 41.8             |                  | 137' 2" | 6 400      | 6 400       | 14 100 |
|                  | 34.0<br>(111'7") | 41.2             | 135' 2" | 6 500      | 6 500       | 14 330 |                  | 34.0<br>(111'7") | 29.0             | 95' 2"  | 10 700     | 10 700      | 23 580 |
|                  |                  | 28.5             | 93' 6"  | 11 000     | 11 000      | 24 250 |                  |                  | 30.0             | 98' 5"  | 10 200     | 10 200      | 22 480 |
|                  |                  | 30.0             | 98' 5"  | 10 200     | 10 200      | 22 480 |                  |                  | 32.0             | 105' 0" | 9 400      | 9 400       | 20 720 |
|                  |                  | 32.0             | 105' 0" | 9 400      | 9 400       | 20 720 |                  |                  | 34.0             | 111' 7" | 8 700      | 8 700       | 19 180 |
|                  |                  | 34.0             | 111' 7" | 8 700      | 8 700       | 19 180 |                  |                  | 36.0             | 118' 1" | 8 000      | 8 000       | 17 630 |
|                  |                  | 36.0             | 118' 1" | 8 000      | 8 000       | 17 630 |                  |                  | 38.0             | 124' 8" | 7 400      | 7 400       | 16 310 |
|                  |                  | 38.0             | 124' 8" | 7 400      | 7 400       | 16 310 |                  |                  | 40.0             | 131' 3" | 6 800      | 6 800       | 14 990 |
|                  |                  | 40.0             | 131' 3" | 6 800      | 6 800       | 14 990 |                  |                  | 42.0             | 137'10" | 6 300      | 6 300       | 13 880 |
|                  |                  | 42.0             | 137'10" | 6 300      | 6 300       | 13 880 |                  |                  | 44.0             | 144' 4" | 5 900      | 5 900       | 13 000 |
|                  | 37.0<br>(121'5") | 44.0             | 144' 4" | 5 900      | 5 900       | 13 000 |                  |                  | 44.7             | 146' 8" | 5 700      | 5 700       | 12 560 |
|                  |                  | 37.0<br>(121'5") | 29.9    | 98' 1"     | 10 300      | 10 300 |                  | 22 700           | 30.5             | 100' 1" | 10 000     | 10 000      | 22 040 |
|                  |                  |                  | 30.0    | 98' 5"     | 10 200      | 10 200 |                  | 22 480           | 32.0             | 105' 0" | 9 400      | 9 400       | 20 720 |
|                  |                  |                  | 32.0    | 105' 0"    | 9 400       | 9 400  |                  | 20 720           | 34.0             | 111' 7" | 8 700      | 8 700       | 19 180 |
|                  |                  |                  | 34.0    | 111' 7"    | 8 700       | 8 700  |                  | 19 180           | 36.0             | 118' 1" | 8 000      | 8 000       | 17 630 |
|                  |                  |                  | 36.0    | 118' 1"    | 8 000       | 8 000  |                  | 17 630           | 38.0             | 124' 8" | 7 400      | 7 400       | 16 310 |
|                  |                  |                  | 38.0    | 124' 8"    | 7 400       | 7 400  |                  | 16 310           | 40.0             | 131' 3" | 6 800      | 6 800       | 14 990 |
|                  |                  |                  | 40.0    | 131' 3"    | 6 800       | 6 800  |                  | 14 990           | 42.0             | 137'10" | 6 300      | 6 300       | 13 880 |
|                  |                  |                  | 42.0    | 137'10"    | 6 300       | 6 300  |                  | 13 880           | 44.0             | 144' 4" | 5 900      | 5 900       | 13 000 |
|                  | 44.0             |                  | 144' 4" | 5 900      | 5 900       | 13 000 |                  | 46.0             | 150'11"          | 5 400   | 5 400      | 11 900      |        |
|                  | 40.0<br>(131'3") |                  | 46.0    | 150'11"    | 5 400       | 5 400  |                  | 11 900           | 47.6             | 156' 2" | 5 100      | 5 100       | 11 240 |
|                  |                  | 47.0             | 154' 2" | 5 200      | 5 200       | 11 460 |                  | 40.0<br>(131'3") | 31.9             | 104' 8" | 9 400      | 9 400       | 20 720 |
|                  |                  | 31.3             | 102' 8" | 9 700      | 9 700       | 21 380 |                  |                  | 32.0             | 105' 0" | 9 400      | 9 400       | 20 720 |
|                  |                  | 32.0             | 105' 0" | 9 400      | 9 400       | 20 720 |                  |                  | 34.0             | 111' 7" | 8 700      | 8 700       | 19 180 |
|                  |                  | 34.0             | 111' 7" | 8 700      | 8 700       | 19 180 |                  |                  | 36.0             | 118' 1" | 8 000      | 8 000       | 17 630 |
|                  |                  | 36.0             | 118' 1" | 8 000      | 8 000       | 17 630 |                  |                  | 38.0             | 124' 8" | 7 400      | 7 400       | 16 310 |
|                  |                  | 38.0             | 124' 8" | 7 400      | 7 400       | 16 310 |                  |                  | 40.0             | 131' 3" | 6 800      | 6 800       | 14 990 |
|                  |                  | 40.0             | 131' 3" | 6 800      | 6 800       | 14 990 |                  |                  | 42.0             | 137'10" | 6 300      | 6 300       | 13 880 |
|                  |                  | 42.0             | 137'10" | 6 300      | 6 300       | 13 880 |                  |                  | 44.0             | 144' 4" | 5 900      | 5 900       | 13 000 |
|                  | 44.0             | 144' 4"          | 5 900   | 5 900      | 13 000      | 46.0   |                  |                  | 150'11"          | 5 400   | 5 400      | 11 900      |        |
|                  | 46.0             | 150'11"          | 5 400   | 5 400      | 11 900      | 48.0   |                  |                  | 157' 6"          | 5 000   | 5 000      | 11 020      |        |
|                  | 48.0             | 157' 6"          | 5 000   | 5 000      | 11 020      | 50.0   |                  |                  | 164' 1"          | 4 700   | 4 700      | 10 360      |        |
|                  | 49.9             | 163' 9"          | 4 700   | 4 700      | 10 360      | 50.5   |                  |                  | 165' 8"          | 4 600   | 4 600      | 10 140      |        |

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| Tower length     | Jib length       | Working radius |          | Rated load |             |        | Tower length     | Jib length        | Working radius |          | Rated load |             |        |  |
|------------------|------------------|----------------|----------|------------|-------------|--------|------------------|-------------------|----------------|----------|------------|-------------|--------|--|
|                  |                  |                |          | JIS rating | PCSA rating |        |                  |                   |                |          | JIS rating | PCSA rating |        |  |
| m(ft in)         | m(ft in)         | m              | ft in    | kg         | kg          | lb     | m(ft in)         | m(ft in)          | m              | ft in    | kg         | kg          | lb     |  |
| 48.0<br>(157'6") | 43.0<br>(141'1") | 33.3           | 109' 3"  | 8 900      | 8 900       | 19 620 | 51.0<br>(167'4") | 40.0<br>(131'3")  | 32.5           | 106' 8"  | 9 200      | 9 200       | 20 280 |  |
|                  |                  | 34.0           | 111' 7"  | 8 700      | 8 700       | 19 180 |                  |                   | 34.0           | 111' 7"  | 8 700      | 8 700       | 19 180 |  |
|                  |                  | 36.0           | 118' 1"  | 8 000      | 8 000       | 17 630 |                  |                   | 36.0           | 118' 1"  | 8 000      | 8 000       | 17 630 |  |
|                  |                  | 38.0           | 124' 8"  | 7 400      | 7 400       | 16 310 |                  |                   | 38.0           | 124' 8"  | 7 400      | 7 400       | 16 310 |  |
|                  |                  | 40.0           | 131' 3"  | 6 800      | 6 800       | 14 990 |                  |                   | 40.0           | 131' 3"  | 6 800      | 6 800       | 14 990 |  |
|                  |                  | 42.0           | 137' 10" | 6 300      | 6 300       | 13 880 |                  |                   | 42.0           | 137' 10" | 6 300      | 6 300       | 13 880 |  |
|                  |                  | 44.0           | 144' 4"  | 5 900      | 5 900       | 13 000 |                  |                   | 44.0           | 144' 4"  | 5 900      | 5 900       | 13 000 |  |
|                  |                  | 46.0           | 150' 11" | 5 400      | 5 400       | 11 900 |                  |                   | 46.0           | 150' 11" | 5 400      | 5 400       | 11 900 |  |
|                  |                  | 48.0           | 157' 6"  | 5 000      | 5 000       | 11 000 |                  |                   | 48.0           | 157' 6"  | 5 000      | 5 000       | 11 020 |  |
|                  |                  | 50.0           | 164' 1"  | 4 700      | 4 700       | 10 360 |                  |                   | 50.0           | 164' 1"  | 4 700      | 4 700       | 10 360 |  |
|                  |                  | 52.0           | 170' 7"  | 4 400      | 4 400       | 9 700  |                  |                   | 51.0           | 167' 4"  | 4 600      | 4 600       | 10 140 |  |
| 53.4             | 175' 2"          | 4 200          | 4 200    | 9 250      |             |        |                  |                   |                |          |            |             |        |  |
| 51.0<br>(167'4") | 28.0<br>(91'10") | 26.7           | 87' 7"   | 12 100     | 12 100      | 26 670 |                  | 43.0<br>(141'1")  | 33.9           | 111' 3"  | 8 700      | 8 700       | 19 180 |  |
|                  |                  | 28.0           | 91' 10"  | 11 300     | 11 300      | 24 910 |                  |                   | 34.0           | 111' 7"  | 8 700      | 8 700       | 19 180 |  |
|                  |                  | 30.0           | 98' 5"   | 10 200     | 10 200      | 22 480 |                  |                   | 36.0           | 118' 1"  | 8 000      | 8 000       | 17 630 |  |
|                  |                  | 32.0           | 105' 0"  | 9 400      | 9 400       | 20 720 |                  |                   | 38.0           | 124' 8"  | 7 400      | 7 400       | 16 310 |  |
|                  |                  | 34.0           | 111' 7"  | 8 700      | 8 700       | 19 180 |                  |                   | 40.0           | 131' 3"  | 6 800      | 6 800       | 14 990 |  |
|                  |                  | 36.0           | 118' 1"  | 8 000      | 8 000       | 17 630 |                  |                   | 42.0           | 137' 10" | 6 300      | 6 300       | 13 880 |  |
|                  |                  | 38.0           | 124' 8"  | 7 400      | 7 400       | 16 310 |                  |                   | 44.0           | 144' 4"  | 5 900      | 5 900       | 13 000 |  |
|                  |                  | 39.4           | 129' 3"  | 7 000      | 7 000       | 15 430 |                  |                   | 46.0           | 150' 11" | 5 400      | 5 400       | 11 900 |  |
|                  |                  |                |          |            |             |        |                  |                   | 48.0           | 157' 6"  | 5 000      | 5 000       | 11 020 |  |
|                  | 31.0<br>(101'8") | 28.2           | 92' 6"   | 11 200     | 11 200      | 24 690 |                  |                   | 50.0           | 164' 1"  | 4 700      | 4 700       | 10 360 |  |
|                  |                  | 30.0           | 98' 5"   | 10 200     | 10 200      | 22 480 |                  |                   | 52.0           | 170' 7"  | 4 400      | 4 400       | 9 700  |  |
|                  |                  | 32.0           | 105' 0"  | 9 400      | 9 400       | 20 720 |                  |                   | 53.9           | 176' 10" | 4 100      | 4 100       | 9 030  |  |
|                  |                  | 34.0           | 111' 7"  | 8 700      | 8 700       | 19 180 |                  | 46.0<br>(150'11") | 35.3           | 115' 10" | 8 200      | 8 200       | 18 070 |  |
|                  |                  | 36.0           | 118' 1"  | 8 000      | 8 000       | 17 630 |                  |                   | 36.0           | 118' 1"  | 8 000      | 8 000       | 17 630 |  |
|                  |                  | 38.0           | 124' 8"  | 7 400      | 7 400       | 16 310 |                  |                   | 38.0           | 124' 8"  | 7 400      | 7 400       | 16 310 |  |
|                  |                  | 40.0           | 131' 3"  | 6 800      | 6 800       | 14 990 |                  |                   | 40.0           | 131' 3"  | 6 800      | 6 800       | 14 990 |  |
|                  |                  | 42.0           | 137' 10" | 6 300      | 6 300       | 13 880 |                  |                   | 42.0           | 137' 10" | 6 300      | 6 300       | 13 880 |  |
|                  |                  | 42.3           | 138' 9"  | 6 200      | 6 200       | 13 660 |                  |                   | 44.0           | 144' 4"  | 5 900      | 5 900       | 13 000 |  |
|                  | 34.0<br>(111'7") | 29.6           | 97' 1"   | 10 400     | 10 400      | 22 920 |                  |                   | 46.0           | 150' 11" | 5 400      | 5 400       | 11 900 |  |
|                  |                  | 30.0           | 98' 5"   | 10 200     | 10 200      | 22 480 |                  |                   | 48.0           | 157' 6"  | 5 000      | 5 000       | 11 020 |  |
|                  |                  | 32.0           | 105' 0"  | 9 400      | 9 400       | 20 720 |                  |                   | 50.0           | 164' 1"  | 4 700      | 4 700       | 10 360 |  |
|                  |                  | 34.0           | 111' 7"  | 8 700      | 8 700       | 19 180 |                  |                   | 52.0           | 170' 7"  | 4 400      | 4 400       | 9 700  |  |
|                  |                  | 36.0           | 118' 1"  | 8 000      | 8 000       | 17 630 |                  |                   | 54.0           | 177' 2"  | 4 100      | 4 100       | 9 030  |  |
|                  |                  | 38.0           | 124' 8"  | 7 400      | 7 400       | 16 310 |                  |                   | 56.0           | 183' 9"  | 3 800      | 3 800       | 8 370  |  |
|                  |                  | 40.0           | 131' 3"  | 6 800      | 6 800       | 14 990 |                  |                   | 56.8           | 186' 4"  | 3 700      | 3 700       | 8 150  |  |
|                  |                  | 42.0           | 137' 10" | 6 300      | 6 300       | 13 880 |                  |                   |                |          |            |             |        |  |
|                  |                  | 44.0           | 144' 4"  | 5 900      | 5 900       | 13 000 |                  |                   |                |          |            |             |        |  |
|                  | 45.2             | 148' 4"        | 5 600    | 5 600      | 12 340      |        |                  |                   |                |          |            |             |        |  |
|                  | 37.0<br>(121'5") | 31.0           | 101' 8"  | 9 800      | 9 800       | 21 600 |                  |                   |                |          |            |             |        |  |
|                  |                  | 32.0           | 105' 0"  | 9 400      | 9 400       | 20 720 |                  |                   |                |          |            |             |        |  |
|                  |                  | 34.0           | 111' 7"  | 8 700      | 8 700       | 19 180 |                  |                   |                |          |            |             |        |  |
|                  |                  | 36.0           | 118' 1"  | 8 000      | 8 000       | 17 630 |                  |                   |                |          |            |             |        |  |
|                  |                  | 38.0           | 124' 8"  | 7 400      | 7 400       | 16 310 |                  |                   |                |          |            |             |        |  |
|                  |                  | 40.0           | 131' 3"  | 6 800      | 6 800       | 14 990 |                  |                   |                |          |            |             |        |  |
|                  |                  | 42.0           | 137' 10" | 6 300      | 6 300       | 13 880 |                  |                   |                |          |            |             |        |  |
|                  |                  | 44.0           | 144' 4"  | 5 900      | 5 900       | 13 000 |                  |                   |                |          |            |             |        |  |
|                  |                  | 46.0           | 150' 11" | 5 400      | 5 400       | 11 900 |                  |                   |                |          |            |             |        |  |
|                  |                  | 48.0           | 157' 6"  | 5 000      | 5 000       | 11 020 |                  |                   |                |          |            |             |        |  |
|                  |                  | 48.1           | 157' 10" | 5 000      | 5 000       | 11 020 |                  |                   |                |          |            |             |        |  |



| Tower length     | Jib length        | Working radius |         | Rated load |             |        |
|------------------|-------------------|----------------|---------|------------|-------------|--------|
|                  |                   |                |         | JIS rating | PCSA rating |        |
| m(ft in)         | m(ft in)          | m              | ft in   | kg         | kg          | lb     |
| 54.0<br>(177'2") | 28.0<br>(91'10")  | 27.3           | 89' 7"  | 11 700     | 11 700      | 25 790 |
|                  |                   | 28.0           | 91'10"  | 11 300     | 11 300      | 24 910 |
|                  |                   | 30.0           | 98' 5"  | 10 200     | 10 200      | 22 480 |
|                  |                   | 32.0           | 105' 0" | 9 400      | 9 400       | 20 720 |
|                  |                   | 34.0           | 111' 7" | 8 700      | 8 700       | 19 180 |
|                  |                   | 36.0           | 118' 1" | 8 000      | 8 000       | 17 630 |
|                  |                   | 38.0           | 124' 8" | 7 400      | 7 400       | 16 310 |
|                  |                   | 39.9           | 130'11" | 6 800      | 6 800       | 14 990 |
|                  | 31.0<br>(101'8")  | 28.7           | 94' 2"  | 10 900     | 10 900      | 24 030 |
|                  |                   | 30.0           | 98' 5"  | 10 200     | 10 200      | 22 480 |
|                  |                   | 32.0           | 105' 0" | 9 400      | 9 400       | 20 720 |
|                  |                   | 34.0           | 111' 7" | 8 700      | 8 700       | 19 180 |
|                  |                   | 36.0           | 118' 1" | 8 000      | 8 000       | 17 630 |
|                  |                   | 38.0           | 124' 8" | 7 400      | 7 400       | 16 310 |
|                  |                   | 40.0           | 131' 3" | 6 800      | 6 800       | 14 990 |
|                  |                   | 42.0           | 137'10" | 6 300      | 6 300       | 13 880 |
|                  |                   | 42.8           | 140' 5" | 6 100      | 6 100       | 13 440 |
|                  | 34.0<br>(111'7")  | 30.2           | 99' 1"  | 10 100     | 10 100      | 22 260 |
|                  |                   | 32.0           | 105' 0" | 9 400      | 9 400       | 20 720 |
|                  |                   | 34.0           | 111' 7" | 8 700      | 8 700       | 19 180 |
|                  |                   | 36.0           | 118' 1" | 8 000      | 8 000       | 17 630 |
|                  |                   | 38.0           | 124' 8" | 7 400      | 7 400       | 16 310 |
|                  |                   | 40.0           | 131' 3" | 6 800      | 6 800       | 14 990 |
|                  |                   | 42.0           | 137'10" | 6 300      | 6 300       | 13 880 |
|                  |                   | 44.0           | 144' 4" | 5 900      | 5 900       | 13 000 |
|                  |                   | 45.7           | 149'11" | 5 500      | 5 500       | 12 120 |
|                  | 37.0<br>(121'5")  | 31.6           | 103' 8" | 9 600      | 9 600       | 21 160 |
|                  |                   | 32.0           | 105' 0" | 9 400      | 9 400       | 20 720 |
|                  |                   | 34.0           | 111' 7" | 8 700      | 8 700       | 19 180 |
|                  |                   | 36.0           | 118' 1" | 8 000      | 8 000       | 17 630 |
|                  |                   | 38.0           | 124' 8" | 7 400      | 7 400       | 16 310 |
|                  |                   | 40.0           | 131' 3" | 6 800      | 6 800       | 14 990 |
|                  |                   | 42.0           | 137'10" | 6 300      | 6 300       | 13 880 |
|                  |                   | 44.0           | 144' 4" | 5 900      | 5 900       | 13 000 |
|                  |                   | 46.0           | 150'11" | 5 400      | 5 400       | 11 900 |
|                  |                   | 48.0           | 157' 6" | 5 000      | 5 000       | 11 020 |
|                  |                   | 48.6           | 159' 5" | 4 900      | 4 900       | 10 800 |
|                  | 40.0<br>(131'3")  | 33.0           | 108' 3" | 9 000      | 9 000       | 19 840 |
|                  |                   | 34.0           | 111' 7" | 8 700      | 8 700       | 19 180 |
|                  |                   | 36.0           | 118' 1" | 8 000      | 8 000       | 17 630 |
|                  |                   | 38.0           | 124' 8" | 7 400      | 7 400       | 16 310 |
|                  |                   | 40.0           | 131' 3" | 6 800      | 6 800       | 14 990 |
|                  |                   | 42.0           | 137'10" | 6 300      | 6 300       | 13 880 |
|                  |                   | 44.0           | 144' 4" | 5 900      | 5 900       | 13 000 |
|                  |                   | 46.0           | 150'11" | 5 400      | 5 400       | 11 900 |
|                  |                   | 48.0           | 157' 6" | 5 000      | 5 000       | 11 020 |
|                  |                   | 50.0           | 164' 1" | 4 700      | 4 700       | 10 360 |
|                  |                   | 51.5           | 169' 0" | 4 500      | 4 500       | 9 920  |
| 54.0<br>(177'2") | 43.0<br>(141'1")  | 34.5           | 113' 2" | 8 500      | 8 500       | 18 730 |
|                  |                   | 36.0           | 118' 1" | 8 000      | 8 000       | 17 630 |
|                  |                   | 38.0           | 124' 8" | 7 400      | 7 400       | 16 310 |
|                  |                   | 40.0           | 131' 3" | 6 800      | 6 800       | 14 990 |
|                  |                   | 42.0           | 137'10" | 6 300      | 6 300       | 13 880 |
|                  |                   | 44.0           | 144' 4" | 5 900      | 5 900       | 13 000 |
|                  |                   | 46.0           | 150'11" | 5 400      | 5 400       | 11 900 |
|                  |                   | 48.0           | 157' 6" | 5 000      | 5 000       | 11 020 |
|                  |                   | 50.0           | 164' 1" | 4 700      | 4 700       | 10 360 |
|                  |                   | 52.0           | 170' 7" | 4 400      | 4 400       | 9 700  |
|                  | 46.0<br>(150'11") | 54.0           | 177' 2" | 4 100      | 4 100       | 9 030  |
|                  |                   | 54.4           | 178' 6" | 4 000      | 4 000       | 8 810  |
|                  |                   | 35.9           | 117' 9" | 8 000      | 8 000       | 17 630 |
|                  |                   | 36.0           | 118' 1" | 8 000      | 8 000       | 17 630 |
|                  |                   | 38.0           | 124' 8" | 7 400      | 7 400       | 16 310 |
|                  |                   | 40.0           | 131' 3" | 6 800      | 6 800       | 14 990 |
|                  |                   | 42.0           | 137'10" | 6 300      | 6 300       | 13 880 |
|                  |                   | 44.0           | 144' 4" | 5 900      | 5 900       | 13 000 |
|                  |                   | 46.0           | 150'11" | 5 400      | 5 400       | 11 900 |
|                  |                   | 48.0           | 157' 6" | 5 000      | 5 000       | 11 020 |
|                  | 49.0<br>(160'9")  | 50.0           | 164' 1" | 4 700      | 4 700       | 10 360 |
|                  |                   | 52.0           | 170' 7" | 4 400      | 4 400       | 9 700  |
|                  |                   | 54.0           | 177' 2" | 4 100      | 4 100       | 9 030  |
|                  |                   | 56.0           | 183' 9" | 3 800      | 3 800       | 8 370  |
|                  |                   | 57.3           | 188' 0" | 3 600      | 3 600       | 7 930  |
|                  |                   | 37.3           | 122' 5" | 7 400      | 7 400       | 16 310 |
|                  |                   | 38.0           | 124' 8" | 7 200      | 7 200       | 15 870 |
|                  |                   | 40.0           | 131' 3" | 6 700      | 6 700       | 14 770 |
|                  |                   | 42.0           | 137'10" | 6 300      | 6 300       | 13 880 |
|                  |                   | 44.0           | 144' 4" | 5 800      | 5 800       | 12 780 |
|                  |                   | 46.0           | 150'11" | 5 300      | 5 300       | 11 680 |
|                  |                   | 48.0           | 157' 6" | 4 700      | 4 700       | 10 360 |
|                  |                   | 50.0           | 164' 1" | 4 400      | 4 400       | 9 700  |
|                  |                   | 52.0           | 170' 7" | 4 100      | 4 100       | 9 030  |
|                  |                   | 54.0           | 177' 2" | 3 800      | 3 800       | 8 370  |
|                  |                   | 56.0           | 183' 9" | 3 500      | 3 500       | 7 710  |
|                  |                   | 58.0           | 190' 3" | 3 200      | 3 200       | 7 050  |
|                  |                   | 60.0           | 196'10" | 3 000      | 3 000       | 6 610  |
|                  |                   | 60.2           | 197' 6" | 3 000      | 3 000       | 6 610  |

Continued on next page



| Tower length     | Jib length       | Working radius |          | Rated load |             |        | Tower length     | Jib length        | Working radius |          | Rated load |             |        |
|------------------|------------------|----------------|----------|------------|-------------|--------|------------------|-------------------|----------------|----------|------------|-------------|--------|
|                  |                  |                |          | JIS rating | PCSA rating |        |                  |                   |                |          | JIS rating | PCSA rating |        |
| m(ft in)         | m(ft in)         | m              | ft in    | kg         | kg          | lb     | m(ft in)         | m(ft in)          | m              | ft in    | kg         | kg          | lb     |
| 57.0<br>(187'0") | 28.0<br>(91'10") | 27.9           | 91' 6"   | 11 400     | 11 400      | 25 130 | 57.0<br>(187'0") | 43.0<br>(141'1")  | 35.0           | 114' 10" | 8 300      | 8 300       | 18 290 |
|                  |                  | 28.0           | 91' 10"  | 11 300     | 11 300      | 24 910 |                  |                   | 36.0           | 118' 1"  | 8 000      | 8 000       | 17 630 |
|                  |                  | 30.0           | 98' 5"   | 10 200     | 10 200      | 22 480 |                  |                   | 38.0           | 124' 8"  | 7 400      | 7 400       | 16 310 |
|                  |                  | 32.0           | 105' 0"  | 9 400      | 9 400       | 20 720 |                  |                   | 40.0           | 131' 3"  | 6 800      | 6 800       | 14 990 |
|                  |                  | 34.0           | 111' 7"  | 8 700      | 8 700       | 19 180 |                  |                   | 42.0           | 137' 10" | 6 300      | 6 300       | 13 880 |
|                  |                  | 36.0           | 118' 1"  | 8 000      | 8 000       | 17 630 |                  |                   | 44.0           | 144' 4"  | 5 900      | 5 900       | 13 000 |
|                  |                  | 38.0           | 124' 8"  | 7 400      | 7 400       | 16 310 |                  |                   | 46.0           | 150' 11" | 5 400      | 5 400       | 11 900 |
|                  |                  | 40.0           | 131' 3"  | 6 800      | 6 800       | 14 990 |                  |                   | 48.0           | 157' 6"  | 5 000      | 5 000       | 11 020 |
|                  | 31.0<br>(101'8") | 40.4           | 132' 7"  | 6 700      | 6 700       | 14 770 |                  |                   | 50.0           | 164' 1"  | 4 700      | 4 700       | 10 360 |
|                  |                  | 29.3           | 96' 2"   | 10 600     | 10 600      | 23 360 |                  |                   | 52.0           | 170' 7"  | 4 400      | 4 400       | 9 700  |
|                  |                  | 30.0           | 98' 5"   | 10 200     | 10 200      | 22 480 |                  |                   | 54.0           | 177' 2"  | 4 100      | 4 100       | 9 030  |
|                  |                  | 32.0           | 105' 0"  | 9 400      | 9 400       | 20 720 |                  |                   | 54.9           | 180' 1"  | 4 000      | 4 000       | 8 810  |
|                  |                  | 34.0           | 111' 7"  | 8 700      | 8 700       | 19 180 |                  | 46.0<br>(150'11") | 36.5           | 119' 9"  | 7 900      | 7 900       | 17 410 |
|                  |                  | 36.0           | 118' 1"  | 8 000      | 8 000       | 17 630 |                  |                   | 38.0           | 124' 8"  | 7 400      | 7 400       | 16 310 |
|                  |                  | 38.0           | 124' 8"  | 7 400      | 7 400       | 16 310 |                  |                   | 40.0           | 131' 3"  | 6 800      | 6 800       | 14 990 |
|                  |                  | 40.0           | 131' 3"  | 6 800      | 6 800       | 14 990 |                  |                   | 42.0           | 137' 10" | 6 300      | 6 300       | 13 880 |
|                  | 42.0             | 137' 10"       | 6 300    | 6 300      | 13 880      | 44.0   |                  |                   | 144' 4"        | 5 900    | 5 900      | 13 000      |        |
|                  | 43.3             | 142' 1"        | 6 000    | 6 000      | 13 220      | 46.0   |                  |                   | 150' 11"       | 5 400    | 5 400      | 11 900      |        |
|                  | 34.0<br>(111'7") | 30.8           | 101' 1"  | 9 900      | 9 900       | 21 820 |                  |                   | 48.0           | 157' 6"  | 5 000      | 5 000       | 11 020 |
|                  |                  | 32.0           | 105' 0"  | 9 400      | 9 400       | 20 720 |                  |                   | 50.0           | 164' 1"  | 4 700      | 4 700       | 10 360 |
|                  |                  | 34.0           | 111' 7"  | 8 700      | 8 700       | 19 180 |                  |                   | 52.0           | 170' 7"  | 4 400      | 4 400       | 9 700  |
|                  |                  | 36.0           | 118' 1"  | 8 000      | 8 000       | 17 630 |                  |                   | 54.0           | 177' 2"  | 4 100      | 4 100       | 9 030  |
|                  |                  | 38.0           | 124' 8"  | 7 400      | 7 400       | 16 310 |                  |                   | 56.0           | 183' 9"  | 3 800      | 3 800       | 8 370  |
|                  |                  | 40.0           | 131' 3"  | 6 800      | 6 800       | 14 990 |                  |                   | 57.8           | 189' 8"  | 3 500      | 3 500       | 7 710  |
|                  |                  | 42.0           | 137' 10" | 6 300      | 6 300       | 13 880 |                  | 49.0<br>(160'9")  | 37.9           | 124' 4"  | 7 200      | 7 200       | 15 870 |
|                  |                  | 44.0           | 144' 4"  | 5 900      | 5 900       | 13 000 |                  |                   | 38.0           | 124' 8"  | 7 200      | 7 200       | 15 870 |
|                  | 37.0<br>(121'5") | 46.0           | 150' 11" | 5 400      | 5 400       | 11 900 |                  |                   | 40.0           | 131' 3"  | 6 700      | 6 700       | 14 770 |
|                  |                  | 46.2           | 151' 7"  | 5 400      | 5 400       | 11 900 |                  |                   | 42.0           | 137' 10" | 6 300      | 6 300       | 13 880 |
|                  |                  | 32.2           | 105' 8"  | 9 300      | 9 300       | 20 500 |                  |                   | 44.0           | 144' 4"  | 5 800      | 5 800       | 12 780 |
|                  |                  | 34.0           | 111' 7"  | 8 700      | 8 700       | 19 180 |                  |                   | 46.0           | 150' 11" | 5 300      | 5 300       | 11 680 |
|                  |                  | 36.0           | 118' 1"  | 8 000      | 8 000       | 17 630 |                  |                   | 48.0           | 157' 6"  | 4 700      | 4 700       | 10 360 |
|                  |                  | 38.0           | 124' 8"  | 7 400      | 7 400       | 16 310 |                  |                   | 50.0           | 164' 1"  | 4 400      | 4 400       | 9 700  |
|                  |                  | 40.0           | 131' 3"  | 6 800      | 6 800       | 14 990 |                  |                   | 52.0           | 170' 7"  | 4 100      | 4 100       | 9 030  |
|                  |                  | 42.0           | 137' 10" | 6 300      | 6 300       | 13 880 |                  |                   | 54.0           | 177' 2"  | 3 800      | 3 800       | 8 370  |
|                  | 40.0<br>(131'3") | 44.0           | 144' 4"  | 5 900      | 5 900       | 13 000 |                  |                   | 56.0           | 183' 9"  | 3 500      | 3 500       | 7 710  |
|                  |                  | 46.0           | 150' 11" | 5 400      | 5 400       | 11 900 |                  |                   | 58.0           | 190' 3"  | 3 200      | 3 200       | 7 050  |
|                  |                  | 48.0           | 157' 6"  | 5 000      | 5 000       | 11 020 |                  |                   | 60.0           | 196' 10" | 3 000      | 3 000       | 6 610  |
|                  |                  | 49.1           | 161' 1"  | 4 800      | 4 800       | 10 580 |                  |                   | 60.7           | 199' 2"  | 2 900      | 2 900       | 6 390  |
|                  |                  | 33.6           | 110' 3"  | 8 800      | 8 800       | 19 400 |                  |                   |                |          |            |             |        |
|                  |                  | 34.0           | 111' 7"  | 8 700      | 8 700       | 19 180 |                  |                   |                |          |            |             |        |
|                  |                  | 36.0           | 118' 1"  | 8 000      | 8 000       | 17 630 |                  |                   |                |          |            |             |        |
|                  |                  | 38.0           | 124' 8"  | 7 400      | 7 400       | 16 310 |                  |                   |                |          |            |             |        |
|                  |                  | 40.0           | 131' 3"  | 6 800      | 6 800       | 14 990 |                  |                   |                |          |            |             |        |
|                  |                  | 42.0           | 137' 10" | 6 300      | 6 300       | 13 880 |                  |                   |                |          |            |             |        |
|                  |                  | 44.0           | 144' 4"  | 5 900      | 5 900       | 13 000 |                  |                   |                |          |            |             |        |
|                  |                  | 46.0           | 150' 11" | 5 400      | 5 400       | 11 900 |                  |                   |                |          |            |             |        |
|                  |                  | 48.0           | 157' 6"  | 5 000      | 5 000       | 11 020 |                  |                   |                |          |            |             |        |
|                  |                  | 50.0           | 164' 1"  | 4 700      | 4 700       | 10 360 |                  |                   |                |          |            |             |        |
|                  |                  | 52.0           | 170' 7"  | 4 400      | 4 400       | 9 700  |                  |                   |                |          |            |             |        |

Notes:

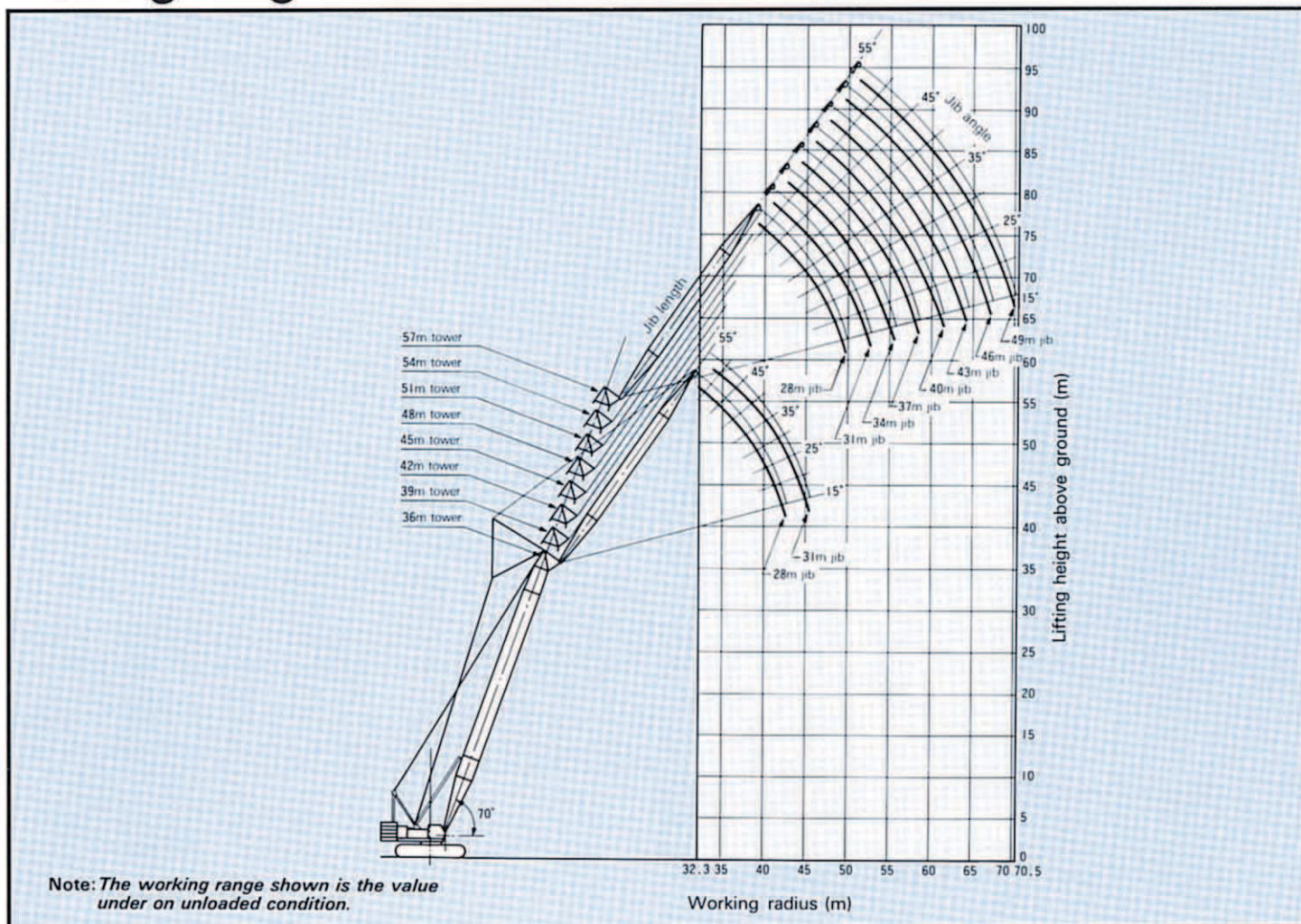
- The rated loads shown are based on the machine on firm, level ground.
- The rated loads shown include the weights of all lifting attachments such as a hook. The load to be actually lifted is the rated load minus the weights of all lifting attachments.
- The rated loads shown are limited by structural strength of the machine.
- Counterweight is 57 700 kg(127 200 lb).
- In operation, crawlers must be extended.

#### Notes:

- 1.The rated loads shown are based on the machine on firm, level ground.
- 2.The rated loads shown include the weights of all lifting attachments such as a hook. The load to be actually lifted is the rated load minus the weights of all lifting attachments.
- 3.The rated loads shown are limited by structural strength of the machine.
- 4.Counterweight is 57 700 kg(127 200 lb).
- 5.In operation, crawlers must be extended.



## Working Ranges (70° Tower Angle)





# Rated Loads (70° Tower Angle)

| Tower length      | Jib length       | Working radius |         | Rated load |             |         | Tower length      | Jib length       | Working radius |         | Rated load |             |        |
|-------------------|------------------|----------------|---------|------------|-------------|---------|-------------------|------------------|----------------|---------|------------|-------------|--------|
|                   |                  |                |         | JIS rating | PCSA rating |         |                   |                  |                |         | JIS rating | PCSA rating |        |
| m(ft in)          | m(ft in)         | m              | ft in   | kg         | kg          | lb      | m(ft in)          | m(ft in)         | m              | ft in   | kg         | kg          | lb     |
| 36.0<br>(118'1")  | 28.0<br>(91'10") | 32.0           | 105' 0" | 8 500      | 8 500       | 18 730  | 42.0<br>(137'10") | 28.0<br>(91'10") | 34.0           | 111' 7" | 7 900      | 7 900       | 17 410 |
|                   |                  | 34.0           | 111' 7" | 7 900      | 7 900       | 17 410  |                   |                  | 36.0           | 118' 1" | 7 400      | 7 400       | 16 310 |
|                   |                  | 36.0           | 118' 1" | 7 400      | 7 400       | 16 310  |                   |                  | 38.0           | 124' 8" | 6 900      | 6 900       | 15 210 |
|                   |                  | 38.0           | 124' 8" | 6 900      | 6 900       | 15 210  |                   |                  | 40.0           | 131' 3" | 6 500      | 6 500       | 14 330 |
|                   |                  | 40.0           | 131' 3" | 6 500      | 6 500       | 14 330  |                   |                  | 42.0           | 137'10" | 6 100      | 6 100       | 13 440 |
|                   |                  | 42.0           | 137'10" | 6 100      | 6 100       | 13 440  |                   |                  | 44.0           | 144' 4" | 5 800      | 5 800       | 12 780 |
|                   |                  | 42.7           | 140' 1" | 6 000      | 6 000       | 13 220  |                   |                  | 44.8           | 147' 0" | 5 700      | 5 700       | 12 560 |
|                   | 31.0<br>(101'8") | 33.7           | 110' 7" | 7 800      | 7 800       | 17 190  |                   | 31.0<br>(101'8") | 35.7           | 117' 2" | 7 300      | 7 300       | 16 090 |
|                   |                  | 34.0           | 111' 7" | 7 700      | 7 700       | 16 970  |                   |                  | 36.0           | 118' 1" | 7 200      | 7 200       | 15 870 |
|                   |                  | 36.0           | 118' 1" | 7 200      | 7 200       | 15 870  |                   |                  | 38.0           | 124' 8" | 6 700      | 6 700       | 14 770 |
|                   |                  | 38.0           | 124' 8" | 6 700      | 6 700       | 14 770  |                   |                  | 40.0           | 131' 3" | 6 300      | 6 300       | 13 880 |
|                   |                  | 40.0           | 131' 3" | 6 300      | 6 300       | 13 880  |                   |                  | 42.0           | 137'10" | 5 900      | 5 900       | 13 000 |
|                   |                  | 42.0           | 137'10" | 5 900      | 5 900       | 13 000  |                   |                  | 44.0           | 144' 4" | 5 500      | 5 500       | 12 120 |
|                   |                  | 44.0           | 144' 4" | 5 500      | 5 500       | 12 120  |                   |                  | 46.0           | 150'11" | 5 200      | 5 200       | 11 460 |
| 45.6              | 149' 7"          | 5 200          | 5 200   | 11 460     | 47.7        | 156' 6" | 4 900             | 4 900            | 10 800         |         |            |             |        |
| 39.0<br>(127'11") | 28.0<br>(91'10") | 33.0           | 108' 3" | 8 200      | 8 200       | 18 070  | 34.0<br>(111'7")  | 37.4             | 122' 8"        | 6 700   | 6 700      | 14 770      |        |
|                   |                  | 34.0           | 111' 7" | 7 900      | 7 900       | 17 410  |                   | 38.0             | 124' 8"        | 6 500   | 6 500      | 14 330      |        |
|                   |                  | 36.0           | 118' 1" | 7 400      | 7 400       | 16 310  |                   | 40.0             | 131' 3"        | 6 100   | 6 100      | 13 440      |        |
|                   |                  | 38.0           | 124' 8" | 6 900      | 6 900       | 15 210  |                   | 42.0             | 137'10"        | 5 700   | 5 700      | 12 560      |        |
|                   |                  | 40.0           | 131' 3" | 6 500      | 6 500       | 14 330  |                   | 44.0             | 144' 4"        | 5 400   | 5 400      | 11 900      |        |
|                   |                  | 42.0           | 137'10" | 6 100      | 6 100       | 13 440  |                   | 46.0             | 150'11"        | 5 200   | 5 200      | 11 460      |        |
|                   |                  | 43.7           | 143' 4" | 5 800      | 5 800       | 12 780  |                   | 48.0             | 157' 6"        | 4 900   | 4 900      | 10 800      |        |
|                   | 31.0<br>(101'8") | 34.7           | 113'10" | 7 500      | 7 500       | 16 530  |                   | 50.0             | 164' 1"        | 4 600   | 4 600      | 10 140      |        |
|                   |                  | 36.0           | 118' 1" | 7 200      | 7 200       | 15 870  |                   | 50.6             | 166' 0"        | 4 500   | 4 500      | 9 920       |        |
|                   |                  | 38.0           | 124' 8" | 6 700      | 6 700       | 14 770  |                   | 37.0<br>(121'5") | 39.1           | 128' 3" | 6 200      | 6 200       | 13 660 |
|                   |                  | 40.0           | 131' 3" | 6 300      | 6 300       | 13 880  |                   |                  | 40.0           | 131' 3" | 6 000      | 6 000       | 13 220 |
|                   |                  | 42.0           | 137'10" | 5 900      | 5 900       | 13 000  |                   |                  | 42.0           | 137'10" | 5 600      | 5 600       | 12 340 |
|                   |                  | 44.0           | 144' 4" | 5 500      | 5 500       | 12 120  |                   |                  | 44.0           | 144' 4" | 5 300      | 5 300       | 11 680 |
|                   |                  | 46.0           | 150'11" | 5 200      | 5 200       | 11 460  |                   |                  | 46.0           | 150'11" | 5 100      | 5 100       | 11 240 |
|                   | 46.6             | 152'11"        | 5 100   | 5 100      | 11 240      | 48.0    | 157' 6"           |                  | 4 800          | 4 800   | 10 580     |             |        |
|                   | 34.0<br>(111'7") | 36.4           | 119' 5" | 6 900      | 6 900       | 15 210  | 50.0              |                  | 164' 1"        | 4 500   | 4 500      | 9 920       |        |
|                   |                  | 38.0           | 124' 8" | 6 500      | 6 500       | 14 330  | 52.0              | 170' 7"          | 4 100          | 4 100   | 9 030      |             |        |
|                   |                  | 40.0           | 131' 3" | 6 100      | 6 100       | 13 440  | 53.5              | 175' 6"          | 3 900          | 3 900   | 8 590      |             |        |
|                   |                  | 42.0           | 137'10" | 5 700      | 5 700       | 12 560  |                   |                  |                |         |            |             |        |
|                   |                  | 44.0           | 144' 4" | 5 400      | 5 400       | 11 900  |                   |                  |                |         |            |             |        |
|                   |                  | 46.0           | 150'11" | 5 200      | 5 200       | 11 460  |                   |                  |                |         |            |             |        |
| 48.0              |                  | 157' 6"        | 4 900   | 4 900      | 10 800      |         |                   |                  |                |         |            |             |        |
| 49.5              |                  | 162' 5"        | 4 700   | 4 700      | 10 360      |         |                   |                  |                |         |            |             |        |



| Tower length     | Jib length       | Working radius |          | Rated load |             |          | Tower length     | Jib length       | Working radius |          | Rated load |             |        |
|------------------|------------------|----------------|----------|------------|-------------|----------|------------------|------------------|----------------|----------|------------|-------------|--------|
|                  |                  |                |          | JIS rating | PCSA rating |          |                  |                  |                |          | JIS rating | PCSA rating |        |
| m(ft in)         | m(ft in)         | m              | ft in    | kg         | kg          | lb       | m(ft in)         | m(ft in)         | m              | ft in    | kg         | kg          | lb     |
| 45.0<br>(147'8") | 28.0<br>(91'10") | 35.0           | 114' 10" | 7 700      | 7 700       | 16 970   | 48.0<br>(157'6") | 28.0<br>(91'10") | 36.1           | 118' 5"  | 7 400      | 7 400       | 16 310 |
|                  |                  | 36.0           | 118' 1"  | 7 400      | 7 400       | 16 310   |                  |                  | 38.0           | 124' 8"  | 6 900      | 6 900       | 15 210 |
|                  |                  | 38.0           | 124' 8"  | 6 900      | 6 900       | 15 210   |                  |                  | 40.0           | 131' 3"  | 6 500      | 6 500       | 14 330 |
|                  |                  | 40.0           | 131' 3"  | 6 500      | 6 500       | 14 330   |                  |                  | 42.0           | 137' 10" | 6 100      | 6 100       | 13 440 |
|                  |                  | 42.0           | 137' 10" | 6 100      | 6 100       | 13 440   |                  |                  | 44.0           | 144' 4"  | 5 800      | 5 800       | 12 780 |
|                  |                  | 44.0           | 144' 4"  | 5 800      | 5 800       | 12 780   |                  |                  | 46.0           | 150' 11" | 5 400      | 5 400       | 11 900 |
|                  |                  | 45.8           | 150' 3"  | 5 500      | 5 500       | 12 120   |                  |                  | 46.8           | 153' 7"  | 5 200      | 5 200       | 11 460 |
|                  | 31.0<br>(101'8") | 36.8           | 120' 9"  | 6 900      | 6 900       | 15 210   |                  | 31.0<br>(101'8") | 37.8           | 124' 0"  | 6 700      | 6 700       | 14 770 |
|                  |                  | 38.0           | 124' 8"  | 6 700      | 6 700       | 14 770   |                  |                  | 38.0           | 124' 8"  | 6 700      | 6 700       | 14 770 |
|                  |                  | 40.0           | 131' 3"  | 6 300      | 6 300       | 13 880   |                  |                  | 40.0           | 131' 3"  | 6 300      | 6 300       | 13 880 |
|                  |                  | 42.0           | 137' 10" | 5 900      | 5 900       | 13 000   |                  |                  | 42.0           | 137' 10" | 5 900      | 5 900       | 13 000 |
|                  |                  | 44.0           | 144' 4"  | 5 500      | 5 500       | 12 120   |                  |                  | 44.0           | 144' 4"  | 5 500      | 5 500       | 12 120 |
|                  |                  | 46.0           | 150' 11" | 5 200      | 5 200       | 11 460   |                  |                  | 46.0           | 150' 11" | 5 200      | 5 200       | 11 460 |
|                  |                  | 48.0           | 157' 6"  | 4 900      | 4 900       | 10 800   |                  |                  | 48.0           | 157' 6"  | 4 900      | 4 900       | 10 800 |
|                  | 34.0<br>(111'7") | 48.7           | 159' 9"  | 4 800      | 4 800       | 10 580   |                  | 34.0<br>(111'7") | 49.7           | 163' 1"  | 4 600      | 4 600       | 10 140 |
|                  |                  | 38.5           | 126' 4"  | 6 400      | 6 400       | 14 100   |                  |                  | 39.5           | 129' 7"  | 6 200      | 6 200       | 13 660 |
|                  |                  | 40.0           | 131' 3"  | 6 100      | 6 100       | 13 440   |                  |                  | 40.0           | 131' 3"  | 6 100      | 6 100       | 13 440 |
|                  |                  | 42.0           | 137' 10" | 5 700      | 5 700       | 12 560   |                  |                  | 42.0           | 137' 10" | 5 700      | 5 700       | 12 560 |
|                  |                  | 44.0           | 144' 4"  | 5 400      | 5 400       | 11 900   |                  |                  | 44.0           | 144' 4"  | 5 400      | 5 400       | 11 900 |
|                  |                  | 46.0           | 150' 11" | 5 200      | 5 200       | 11 460   |                  |                  | 46.0           | 150' 11" | 5 200      | 5 200       | 11 460 |
|                  |                  | 48.0           | 157' 6"  | 4 900      | 4 900       | 10 800   |                  |                  | 48.0           | 157' 6"  | 4 900      | 4 900       | 10 800 |
|                  | 37.0<br>(121'5") | 50.0           | 164' 1"  | 4 600      | 4 600       | 10 140   |                  | 37.0<br>(121'5") | 50.0           | 164' 1"  | 4 600      | 4 600       | 10 140 |
|                  |                  | 51.6           | 169' 3"  | 4 400      | 4 400       | 9 700    |                  |                  | 52.0           | 170' 7"  | 4 200      | 4 200       | 9 250  |
|                  |                  | 40.2           | 131' 11" | 5 900      | 5 900       | 13 000   |                  |                  | 52.6           | 172' 7"  | 4 100      | 4 100       | 9 030  |
|                  |                  | 42.0           | 137' 10" | 5 600      | 5 600       | 12 340   |                  |                  | 41.2           | 135' 2"  | 5 700      | 5 700       | 12 560 |
|                  |                  | 44.0           | 144' 4"  | 5 300      | 5 300       | 11 680   |                  |                  | 42.0           | 137' 10" | 5 600      | 5 600       | 12 340 |
|                  |                  | 46.0           | 150' 11" | 5 100      | 5 100       | 11 240   |                  |                  | 44.0           | 144' 4"  | 5 300      | 5 300       | 11 680 |
|                  |                  | 48.0           | 157' 6"  | 4 800      | 4 800       | 10 580   |                  |                  | 46.0           | 150' 11" | 5 100      | 5 100       | 11 240 |
|                  | 40.0<br>(131'3") | 50.0           | 164' 1"  | 4 500      | 4 500       | 9 920    |                  | 40.0<br>(131'3") | 48.0           | 157' 6"  | 4 800      | 4 800       | 10 580 |
|                  |                  | 52.0           | 170' 7"  | 4 100      | 4 100       | 9 030    |                  |                  | 50.0           | 164' 1"  | 4 500      | 4 500       | 9 920  |
|                  |                  | 54.0           | 177' 2"  | 3 900      | 3 900       | 8 590    |                  |                  | 52.0           | 170' 7"  | 4 100      | 4 100       | 9 030  |
|                  |                  | 54.5           | 178' 10" | 3 800      | 3 800       | 8 370    |                  |                  | 54.0           | 177' 2"  | 3 900      | 3 900       | 8 590  |
|                  |                  | 41.9           | 137' 6"  | 5 600      | 5 600       | 12 340   |                  |                  | 55.5           | 182' 1"  | 3 700      | 3 700       | 8 150  |
|                  |                  | 42.0           | 137' 10" | 5 600      | 5 600       | 12 340   |                  |                  | 43.0           | 141' 1"  | 5 400      | 5 400       | 11 900 |
|                  |                  | 44.0           | 144' 4"  | 5 300      | 5 300       | 11 680   |                  |                  | 44.0           | 144' 4"  | 5 300      | 5 300       | 11 680 |
|                  | 43.0<br>(141'1") | 46.0           | 150' 11" | 5 000      | 5 000       | 11 020   |                  | 46.0             | 150' 11"       | 5 000    | 5 000      | 11 020      |        |
|                  |                  | 48.0           | 157' 6"  | 4 700      | 4 700       | 10 360   |                  | 48.0             | 157' 6"        | 4 700    | 4 700      | 10 360      |        |
|                  |                  | 50.0           | 164' 1"  | 4 400      | 4 400       | 9 700    |                  | 50.0             | 164' 1"        | 4 400    | 4 400      | 9 700       |        |
|                  |                  | 52.0           | 170' 7"  | 4 000      | 4 000       | 8 810    |                  | 52.0             | 170' 7"        | 4 000    | 4 000      | 8 810       |        |
|                  |                  | 54.0           | 177' 2"  | 3 800      | 3 800       | 8 370    |                  | 54.0             | 177' 2"        | 3 800    | 3 800      | 8 370       |        |
|                  |                  | 56.0           | 183' 9"  | 3 600      | 3 600       | 7 930    |                  | 56.0             | 183' 9"        | 3 600    | 3 600      | 7 930       |        |
|                  |                  | 57.4           | 188' 4"  | 3 500      | 3 500       | 7 710    |                  | 58.0             | 190' 3"        | 3 400    | 3 400      | 7 490       |        |
|                  |                  |                |          |            |             |          |                  | 58.4             | 191' 7"        | 3 400    | 3 400      | 7 490       |        |
|                  |                  |                |          |            |             |          |                  | 44.7             | 146' 8"        | 4 900    | 4 900      | 10 800      |        |
|                  |                  |                |          |            |             | 46.0     | 150' 11"         | 4 700            | 4 700          | 10 360   |            |             |        |
|                  |                  |                |          |            |             | 48.0     | 157' 6"          | 4 400            | 4 400          | 9 700    |            |             |        |
|                  |                  |                |          |            |             | 50.0     | 164' 1"          | 4 200            | 4 200          | 9 250    |            |             |        |
|                  |                  |                |          |            |             | 52.0     | 170' 7"          | 3 900            | 3 900          | 8 590    |            |             |        |
|                  |                  |                |          |            |             | 54.0     | 177' 2"          | 3 700            | 3 700          | 8 150    |            |             |        |
|                  |                  |                |          |            | 56.0        | 183' 9"  | 3 500            | 3 500            | 7 710          |          |            |             |        |
|                  |                  |                |          |            | 58.0        | 190' 3"  | 3 300            | 3 300            | 7 270          |          |            |             |        |
|                  |                  |                |          |            | 60.0        | 196' 10" | 3 000            | 3 000            | 6 610          |          |            |             |        |
|                  |                  |                |          |            | 61.3        | 201' 1"  | 2 800            | 2 800            | 6 170          |          |            |             |        |

Continued on next page



| Tower length     | Jib length       | Working radius |         | Rated load |             |        | Tower length     | Jib length        | Working radius |         | Rated load |             |        |
|------------------|------------------|----------------|---------|------------|-------------|--------|------------------|-------------------|----------------|---------|------------|-------------|--------|
|                  |                  |                |         | JIS rating | PCSA rating |        |                  |                   |                |         | JIS rating | PCSA rating |        |
| m(ft in)         | m(ft in)         | m              | ft in   | kg         | kg          | lb     | m(ft in)         | m(ft in)          | m              | ft in   | kg         | kg          | lb     |
| 51.0<br>(167'4") | 28.0<br>(91'10") | 37.1           | 121' 9" | 7 100      | 7 100       | 15 650 | 51.0<br>(167'4") | 43.0<br>(141'1")  | 45.7           | 149'11" | 4 700      | 4 700       | 10 360 |
|                  |                  | 38.0           | 124' 8" | 6 900      | 6 900       | 15 210 |                  |                   | 46.0           | 150'11" | 4 700      | 4 700       | 10 360 |
|                  |                  | 40.0           | 131' 3" | 6 500      | 6 500       | 14 330 |                  |                   | 48.0           | 157' 6" | 4 400      | 4 400       | 9 700  |
|                  |                  | 42.0           | 137'10" | 6 100      | 6 100       | 13 440 |                  |                   | 50.0           | 164' 1" | 4 200      | 4 200       | 9 250  |
|                  |                  | 44.0           | 144' 4" | 5 800      | 5 800       | 12 780 |                  |                   | 52.0           | 170' 7" | 3 900      | 3 900       | 8 590  |
|                  |                  | 46.0           | 150'11" | 5 400      | 5 400       | 11 900 |                  |                   | 54.0           | 177' 2" | 3 700      | 3 700       | 8 150  |
|                  |                  | 47.8           | 156'10" | 5 000      | 5 000       | 11 020 |                  |                   | 56.0           | 183' 9" | 3 500      | 3 500       | 7 710  |
|                  | 31.0<br>(101'8") | 38.8           | 127' 4" | 6 500      | 6 500       | 14 330 |                  |                   | 58.0           | 190' 3" | 3 300      | 3 300       | 7 270  |
|                  |                  | 40.0           | 131' 3" | 6 300      | 6 300       | 13 880 |                  |                   | 60.0           | 196'10" | 3 000      | 3 000       | 6 610  |
|                  |                  | 42.0           | 137'10" | 5 900      | 5 900       | 13 000 |                  |                   | 62.0           | 203' 5" | 2 800      | 2 800       | 6 170  |
|                  |                  | 44.0           | 144' 4" | 5 500      | 5 500       | 12 120 |                  |                   | 62.3           | 204' 5" | 2 800      | 2 800       | 6 170  |
|                  |                  | 46.0           | 150'11" | 5 200      | 5 200       | 11 460 |                  | 46.0<br>(150'11") | 47.4           | 155' 6" | 4 300      | 4 300       | 9 470  |
|                  |                  | 48.0           | 157' 6" | 4 900      | 4 900       | 10 800 |                  |                   | 48.0           | 157' 6" | 4 200      | 4 200       | 9 250  |
|                  |                  | 50.0           | 164' 1" | 4 600      | 4 600       | 10 140 |                  |                   | 50.0           | 164' 1" | 3 900      | 3 900       | 8 590  |
|                  | 50.7             | 166' 4"        | 4 500   | 4 500      | 9 920       | 52.0   |                  |                   | 170' 7"        | 3 700   | 3 700      | 8 150       |        |
|                  | 34.0<br>(111'7") | 40.5           | 132'10" | 5 800      | 5 800       | 12 780 |                  |                   | 54.0           | 177' 2" | 3 500      | 3 500       | 7 710  |
|                  |                  | 42.0           | 137'10" | 5 700      | 5 700       | 12 560 |                  |                   | 56.0           | 183' 9" | 3 400      | 3 400       | 7 490  |
|                  |                  | 44.0           | 144' 4" | 5 400      | 5 400       | 11 900 |                  |                   | 58.0           | 190' 3" | 3 200      | 3 200       | 7 050  |
|                  |                  | 46.0           | 150'11" | 5 200      | 5 200       | 11 460 |                  |                   | 60.0           | 196'10" | 2 900      | 2 900       | 6 390  |
|                  |                  | 48.0           | 157' 6" | 4 900      | 4 900       | 10 800 |                  |                   | 62.0           | 203' 5" | 2 700      | 2 700       | 5 950  |
|                  |                  | 50.0           | 164' 1" | 4 600      | 4 600       | 10 140 |                  |                   | 64.0           | 210' 0" | 2 500      | 2 500       | 5 510  |
|                  |                  | 52.0           | 170' 7" | 4 200      | 4 200       | 9 250  |                  |                   | 65.2           | 213'11" | 2 400      | 2 400       | 5 290  |
|                  | 37.0<br>(121'5") | 53.6           | 175'10" | 4 000      | 4 000       | 8 810  | 54.0<br>(177'2") | 28.0<br>(91'10")  | 38.1           | 125' 0" | 6 800      | 6 800       | 14 990 |
|                  |                  | 42.3           | 138' 9" | 5 500      | 5 500       | 12 120 |                  |                   | 40.0           | 131' 3" | 6 500      | 6 500       | 14 330 |
|                  |                  | 44.0           | 144' 4" | 5 300      | 5 300       | 11 680 |                  |                   | 42.0           | 137'10" | 6 100      | 6 100       | 13 440 |
|                  |                  | 46.0           | 150'11" | 5 100      | 5 100       | 11 240 |                  |                   | 44.0           | 144' 4" | 5 800      | 5 800       | 12 780 |
|                  |                  | 48.0           | 157' 6" | 4 800      | 4 800       | 10 580 |                  |                   | 46.0           | 150'11" | 5 400      | 5 400       | 11 900 |
|                  |                  | 50.0           | 164' 1" | 4 500      | 4 500       | 9 920  |                  |                   | 48.0           | 157' 6" | 5 000      | 5 000       | 11 020 |
|                  |                  | 52.0           | 170' 7" | 4 100      | 4 100       | 9 030  |                  |                   | 48.9           | 160' 5" | 4 800      | 4 800       | 10 580 |
|                  | 40.0<br>(131'3") | 54.0           | 177' 2" | 3 900      | 3 900       | 8 590  |                  | 31.0<br>(101'8")  | 39.8           | 130' 7" | 6 300      | 6 300       | 13 880 |
|                  |                  | 56.0           | 183' 9" | 3 700      | 3 700       | 8 150  |                  |                   | 40.0           | 131' 3" | 6 300      | 6 300       | 13 880 |
|                  |                  | 56.5           | 185' 4" | 3 600      | 3 600       | 7 930  |                  |                   | 42.0           | 137'10" | 5 900      | 5 900       | 13 000 |
|                  |                  | 44.0           | 144' 4" | 5 300      | 5 300       | 11 680 |                  |                   | 44.0           | 144' 4" | 5 500      | 5 500       | 12 120 |
|                  |                  | 46.0           | 150'11" | 5 000      | 5 000       | 11 020 |                  |                   | 46.0           | 150'11" | 5 200      | 5 200       | 11 460 |
|                  |                  | 48.0           | 157' 6" | 4 700      | 4 700       | 10 360 |                  |                   | 48.0           | 157' 6" | 4 900      | 4 900       | 10 800 |
|                  |                  | 50.0           | 164' 1" | 4 400      | 4 400       | 9 700  |                  |                   | 50.0           | 164' 1" | 4 600      | 4 600       | 10 140 |
|                  | 40.0<br>(131'3") | 52.0           | 170' 7" | 4 000      | 4 000       | 8 810  |                  | 34.0<br>(111'7")  | 51.8           | 169'11" | 4 300      | 4 300       | 9 470  |
|                  |                  | 54.0           | 177' 2" | 3 800      | 3 800       | 8 370  |                  |                   | 41.6           | 136' 6" | 5 700      | 5 700       | 12 560 |
|                  |                  | 56.0           | 183' 9" | 3 600      | 3 600       | 7 930  |                  |                   | 42.0           | 137'10" | 5 700      | 5 700       | 12 560 |
|                  |                  | 58.0           | 190' 3" | 3 400      | 3 400       | 7 490  |                  |                   | 44.0           | 144' 4" | 5 400      | 5 400       | 11 900 |
|                  |                  | 59.4           | 194'11" | 3 300      | 3 300       | 7 270  |                  |                   | 46.0           | 150'11" | 5 200      | 5 200       | 11 460 |
|                  |                  |                |         |            |             |        |                  |                   | 48.0           | 157' 6" | 4 900      | 4 900       | 10 800 |
|                  |                  |                |         |            |             |        |                  |                   | 50.0           | 164' 1" | 4 600      | 4 600       | 10 140 |
|                  |                  |                |         |            |             |        |                  |                   | 52.0           | 170' 7" | 4 200      | 4 200       | 9 250  |
|                  |                  |                |         |            |             |        |                  |                   | 54.0           | 177' 2" | 4 000      | 4 000       | 8 810  |
|                  |                  |                |         |            |             |        |                  |                   | 54.7           | 179' 6" | 3 900      | 3 900       | 8 590  |
|                  |                  |                |         |            |             |        |                  |                   |                |         |            |             |        |
|                  |                  |                |         |            |             |        |                  |                   |                |         |            |             |        |
|                  |                  |                |         |            |             |        |                  |                   |                |         |            |             |        |
|                  |                  |                |         |            |             |        |                  |                   |                |         |            |             |        |



| Tower length     | Jib length        | Working radius |          | Rated load |             |        | Tower length     | Jib length       | Workink radius |          | Rated load |             |        |
|------------------|-------------------|----------------|----------|------------|-------------|--------|------------------|------------------|----------------|----------|------------|-------------|--------|
|                  |                   |                |          | JIS rating | PCSA rating |        |                  |                  |                |          | JIS rating | PCSA rating |        |
| m(ft in)         | m(ft in)          | m              | ft in    | kg         | kg          | lb     | m(ft in)         | m(ft in)         | m              | ft in    | kg         | kg          | lb     |
| 54.0<br>(177'2") | 37.0<br>(121'5")  | 43.3           | 142' 1"  | 5 300      | 5 300       | 11 680 | 57.0<br>(187'0") | 28.0<br>(91'10") | 39.1           | 128' 3"  | 6 600      | 6 600       | 14 550 |
|                  |                   | 44.0           | 144' 4"  | 5 300      | 5 300       | 11 680 |                  |                  | 40.0           | 131' 3"  | 6 500      | 6 500       | 14 330 |
|                  |                   | 46.0           | 150' 11" | 5 100      | 5 100       | 11 240 |                  |                  | 42.0           | 137' 10" | 6 100      | 6 100       | 13 440 |
|                  |                   | 48.0           | 157' 6"  | 4 800      | 4 800       | 10 580 |                  |                  | 44.0           | 144' 4"  | 5 800      | 5 800       | 12 780 |
|                  |                   | 50.0           | 164' 1"  | 4 500      | 4 500       | 9 920  |                  |                  | 46.0           | 150' 11" | 5 400      | 5 400       | 11 900 |
|                  |                   | 52.0           | 170' 7"  | 4 100      | 4 100       | 9 030  |                  |                  | 48.0           | 157' 6"  | 5 000      | 5 000       | 11 020 |
|                  |                   | 54.0           | 177' 2"  | 3 900      | 3 900       | 8 590  |                  |                  | 49.9           | 163' 9"  | 4 600      | 4 600       | 10 140 |
|                  |                   | 56.0           | 183' 9"  | 3 700      | 3 700       | 8 150  |                  | 31.0<br>(101'8") | 40.9           | 134' 2"  | 6 100      | 6 100       | 13 440 |
|                  |                   | 57.6           | 188' 12" | 3 500      | 3 500       | 7 710  |                  |                  | 42.0           | 137' 10" | 5 900      | 5 900       | 13 000 |
|                  | 40.0<br>(131'3")  | 45.0           | 147' 8"  | 5 100      | 5 100       | 11 240 |                  |                  | 44.0           | 144' 4"  | 5 500      | 5 500       | 12 120 |
|                  |                   | 46.0           | 150' 11" | 5 000      | 5 000       | 11 020 |                  |                  | 46.0           | 150' 11" | 5 200      | 5 200       | 11 460 |
|                  |                   | 48.0           | 157' 6"  | 4 700      | 4 700       | 10 360 |                  |                  | 48.0           | 157' 6"  | 4 900      | 4 900       | 10 800 |
|                  |                   | 50.0           | 164' 1"  | 4 400      | 4 400       | 9 700  |                  |                  | 50.0           | 164' 1"  | 4 600      | 4 600       | 10 140 |
|                  |                   | 52.0           | 170' 7"  | 4 000      | 4 000       | 8 810  |                  |                  | 52.0           | 170' 7"  | 4 200      | 4 200       | 9 250  |
|                  |                   | 54.0           | 177' 2"  | 3 800      | 3 800       | 8 370  |                  |                  | 52.8           | 173' 3"  | 4 100      | 4 100       | 9 030  |
|                  |                   | 56.0           | 183' 9"  | 3 600      | 3 600       | 7 930  |                  | 34.0<br>(111'7") | 42.6           | 139' 9"  | 5 600      | 5 600       | 12 340 |
|                  |                   | 58.0           | 190' 3"  | 3 400      | 3 400       | 7 490  |                  |                  | 44.0           | 144' 4"  | 5 400      | 5 400       | 11 900 |
|                  |                   | 60.0           | 196' 10" | 3 200      | 3 200       | 7 050  |                  |                  | 46.0           | 150' 11" | 5 200      | 5 200       | 11 460 |
|                  |                   | 60.5           | 198' 6"  | 3 100      | 3 100       | 6 830  |                  |                  | 48.0           | 157' 6"  | 4 900      | 4 900       | 10 800 |
|                  | 43.0<br>(141'1")  | 46.7           | 153' 3"  | 4 500      | 4 500       | 9 920  |                  |                  | 50.0           | 164' 1"  | 4 600      | 4 600       | 10 140 |
|                  |                   | 48.0           | 157' 6"  | 4 400      | 4 400       | 9 700  |                  |                  | 52.0           | 170' 7"  | 4 200      | 4 200       | 9 250  |
|                  |                   | 50.0           | 164' 1"  | 4 200      | 4 200       | 9 250  |                  |                  | 54.0           | 177' 2"  | 4 000      | 4 000       | 8 810  |
|                  |                   | 52.0           | 170' 7"  | 3 900      | 3 900       | 8 590  |                  |                  | 55.7           | 182' 9"  | 3 800      | 3 800       | 8 370  |
|                  |                   | 54.0           | 177' 2"  | 3 700      | 3 700       | 8 150  |                  | 37.0<br>(121'5") | 44.3           | 145' 4"  | 5 300      | 5 300       | 11 680 |
|                  |                   | 56.0           | 183' 9"  | 3 500      | 3 500       | 7 710  |                  |                  | 46.0           | 150' 11" | 5 100      | 5 100       | 11 240 |
|                  |                   | 58.0           | 190' 3"  | 3 300      | 3 300       | 7 270  |                  |                  | 48.0           | 157' 6"  | 4 800      | 4 800       | 10 580 |
|                  |                   | 60.0           | 196' 10" | 3 000      | 3 000       | 6 610  |                  |                  | 50.0           | 164' 1"  | 4 500      | 4 500       | 9 920  |
|                  | 62.0              | 203' 5"        | 2 800    | 2 800      | 6 170       | 52.0   |                  |                  | 170' 7"        | 4 100    | 4 100      | 9 030       |        |
|                  | 63.4              | 208' 0"        | 2 700    | 2 700      | 5 950       | 54.0   |                  |                  | 177' 2"        | 3 900    | 3 900      | 8 590       |        |
|                  | 46.0<br>(150'11") | 48.4           | 158' 10" | 4 000      | 4 000       | 8 810  |                  |                  | 56.0           | 183' 9"  | 3 700      | 3 700       | 8 150  |
|                  |                   | 50.0           | 164' 1"  | 3 900      | 3 900       | 8 590  |                  |                  | 58.0           | 190' 3"  | 3 500      | 3 500       | 7 710  |
|                  |                   | 52.0           | 170' 7"  | 3 700      | 3 700       | 8 150  |                  |                  | 58.6           | 192' 3"  | 3 400      | 3 400       | 7 490  |
|                  |                   | 54.0           | 177' 2"  | 3 500      | 3 500       | 7 710  |                  | 40.0<br>(131'3") | 46.0           | 150' 11" | 5 000      | 5 000       | 11 020 |
|                  |                   | 56.0           | 183' 9"  | 3 400      | 3 400       | 7 490  |                  |                  | 48.0           | 157' 6"  | 4 700      | 4 700       | 10 360 |
|                  |                   | 58.0           | 190' 3"  | 3 200      | 3 200       | 7 050  |                  |                  | 50.0           | 164' 1"  | 4 400      | 4 400       | 9 700  |
|                  |                   | 60.0           | 196' 10" | 2 900      | 2 900       | 6 390  |                  |                  | 52.0           | 170' 7"  | 4 000      | 4 000       | 8 810  |
|                  |                   | 62.0           | 203' 5"  | 2 700      | 2 700       | 5 950  |                  |                  | 54.0           | 177' 2"  | 3 800      | 3 800       | 8 370  |
|                  |                   | 64.0           | 210' 0"  | 2 500      | 2 500       | 5 510  |                  |                  | 56.0           | 183' 9"  | 3 600      | 3 600       | 7 930  |
|                  |                   | 66.0           | 216' 6"  | 2 400      | 2 400       | 5 290  |                  |                  | 58.0           | 190' 3"  | 3 400      | 3 400       | 7 490  |
|                  |                   | 66.3           | 217' 6"  | 2 400      | 2 400       | 5 290  |                  |                  | 60.0           | 196' 10" | 3 200      | 3 200       | 7 050  |
|                  | 49.0<br>(160'9")  | 50.2           | 164' 8"  | 3 500      | 3 500       | 7 710  |                  |                  | 61.5           | 201' 9"  | 3 000      | 3 000       | 6 610  |
|                  |                   | 52.0           | 170' 7"  | 3 400      | 3 400       | 7 490  | 43.0<br>(141'1") |                  | 47.7           | 156' 6"  | 4 400      | 4 400       | 9 700  |
|                  |                   | 54.0           | 177' 2"  | 3 300      | 3 300       | 7 270  |                  | 48.0             | 157' 6"        | 4 400    | 4 400      | 9 700       |        |
|                  |                   | 56.0           | 183' 9"  | 3 100      | 3 100       | 6 830  |                  | 50.0             | 164' 1"        | 4 200    | 4 200      | 9 250       |        |
|                  |                   | 58.0           | 190' 3"  | 2 900      | 2 900       | 6 390  |                  | 52.0             | 170' 7"        | 3 900    | 3 900      | 8 590       |        |
|                  |                   | 60.0           | 196' 10" | 2 800      | 2 800       | 6 170  |                  | 54.0             | 177' 2"        | 3 700    | 3 700      | 8 150       |        |
|                  |                   | 62.0           | 203' 5"  | 2 600      | 2 600       | 5 730  |                  | 56.0             | 183' 9"        | 3 500    | 3 500      | 7 710       |        |
|                  |                   | 64.0           | 210' 0"  | 2 400      | 2 400       | 5 290  |                  | 58.0             | 190' 3"        | 3 300    | 3 300      | 7 270       |        |
|                  |                   | 66.0           | 216' 6"  | 2 300      | 2 300       | 5 070  |                  | 60.0             | 196' 10"       | 3 000    | 3 000      | 6 610       |        |
|                  |                   | 68.0           | 223' 1"  | 2 200      | 2 200       | 4 850  |                  | 62.0             | 203' 5"        | 2 800    | 2 800      | 6 170       |        |
|                  |                   | 69.1           | 226' 8"  | 2 100      | 2 100       | 4 620  |                  | 64.0             | 210' 0"        | 2 700    | 2 700      | 5 950       |        |
|                  |                   |                |          |            |             |        |                  | 64.4             | 211' 3"        | 2 600    | 2 600      | 5 730       |        |

Continued on next page



| Tower length     | Jib length        | Working radius |          | Rated load |             |       |
|------------------|-------------------|----------------|----------|------------|-------------|-------|
|                  |                   |                |          | JIS rating | PCSA rating |       |
| m(ft in)         | m(ft in)          | m              | ft in    | kg         | kg          | lb    |
| 57.0<br>(187'0") | 46.0<br>(150'11") | 49.5           | 162' 5"  | 3 900      | 3 900       | 8 590 |
|                  |                   | 50.0           | 164' 1"  | 3 900      | 3 900       | 8 590 |
|                  |                   | 52.0           | 170' 7"  | 3 700      | 3 700       | 8 150 |
|                  |                   | 54.0           | 177' 2"  | 3 500      | 3 500       | 7 710 |
|                  |                   | 56.0           | 183' 9"  | 3 400      | 3 400       | 7 490 |
|                  |                   | 58.0           | 190' 3"  | 3 200      | 3 200       | 7 050 |
|                  |                   | 60.0           | 196' 10" | 2 900      | 2 900       | 6 390 |
|                  |                   | 62.0           | 203' 5"  | 2 700      | 2 700       | 5 950 |
|                  |                   | 64.0           | 210' 0"  | 2 500      | 2 500       | 5 510 |
|                  |                   | 66.0           | 216' 6"  | 2 400      | 2 400       | 5 290 |
|                  |                   | 67.3           | 220' 10" | 2 300      | 2 300       | 5 070 |
|                  | 49.0<br>(160'9")  | 51.2           | 168' 0"  | 3 500      | 3 500       | 7 710 |
|                  |                   | 52.0           | 170' 7"  | 3 400      | 3 400       | 7 490 |
|                  |                   | 54.0           | 177' 2"  | 3 300      | 3 300       | 7 270 |
|                  |                   | 56.0           | 183' 9"  | 3 100      | 3 100       | 6 830 |
|                  |                   | 58.0           | 190' 3"  | 2 900      | 2 900       | 6 390 |
|                  |                   | 60.0           | 196' 10" | 2 800      | 2 800       | 6 170 |
|                  |                   | 62.0           | 203' 5"  | 2 600      | 2 600       | 5 730 |
|                  |                   | 64.0           | 210' 0"  | 2 400      | 2 400       | 5 290 |
|                  |                   | 66.0           | 216' 6"  | 2 300      | 2 300       | 5 070 |
|                  |                   | 68.0           | 223' 1"  | 2 200      | 2 200       | 4 850 |
|                  |                   | 70.0           | 229' 8"  | 2 000      | 2 000       | 4 400 |
|                  |                   | 70.2           | 230' 4"  | 2 000      | 2 000       | 4 400 |

#### Notes:

- 1.The rated loads shown are based on the machine on firm, level ground.
- 2.The rated loads shown include the weights of all lifting attachments such as a hook. The load to be actually lifted is the rated load minus the weights of all lifting attachments.
- 3.The rated loads shown are limited by structural strength of the machine.
- 4.Counterweight is 57 700 kg(127 200 lb).
- 5.In operation, crawlers must be extended.



# Tower & Jib Construction

## Tower Construction

| Tower length                                 | 36.0 m<br>(118'1")       | 39.0 m<br>(127'11") | 42.0 m<br>(137'10") | 45.0 m<br>(147'8") | 48.0 m<br>(157'6") | 51.0 m<br>(167'4") | 54.0 m<br>(177'2") | 57.0 m<br>(187'0") |
|----------------------------------------------|--------------------------|---------------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Element                                      |                          |                     |                     |                    |                    |                    |                    |                    |
| Lower tower<br>7.5 m(24'7")                  | 1                        | 1                   | 1                   | 1                  | 1                  | 1                  | 1                  | 1                  |
| Upper tower<br>(1.5 m+3 m) ((4'11")+(9'10")) | 1                        | 1                   | 1                   | 1                  | 1                  | 1                  | 1                  | 1                  |
| Insert<br>3 m(A)(9'10")                      | —                        | 1                   | 1                   | —                  | —                  | 1                  | —                  | 1                  |
| Insert<br>3 m(B)(9'10")                      | 1                        | 1                   | 1                   | 1                  | 1                  | 1                  | 1                  | 1                  |
| Insert<br>6 m(19'8")                         | 2                        | 2                   | 1                   | 2                  | 1                  | 1                  | 2                  | 2                  |
| Insert<br>9 m(29'6")                         | 1                        | 1                   | 2                   | 2                  | 3                  | 3                  | 3                  | 3                  |
| Available Jib                                | Jib length 28 m(91'10")  |                     |                     |                    |                    |                    |                    |                    |
|                                              | Jib length 31 m(101'8")  |                     |                     |                    |                    |                    |                    |                    |
|                                              | Jib length 34 m(111'7")  |                     |                     |                    |                    |                    |                    |                    |
|                                              | Jib length 37 m(121'5")  |                     |                     |                    |                    |                    |                    |                    |
|                                              | Jib length 40 m(131'3")  |                     |                     |                    |                    |                    |                    |                    |
|                                              | Jib length 43 m(141'1")  |                     |                     |                    |                    |                    |                    |                    |
|                                              | Jib length 46 m(150'11") |                     |                     |                    |                    |                    |                    |                    |
| Jib length 49 m(160'9")                      |                          |                     |                     |                    |                    |                    |                    |                    |

## Jib Construction

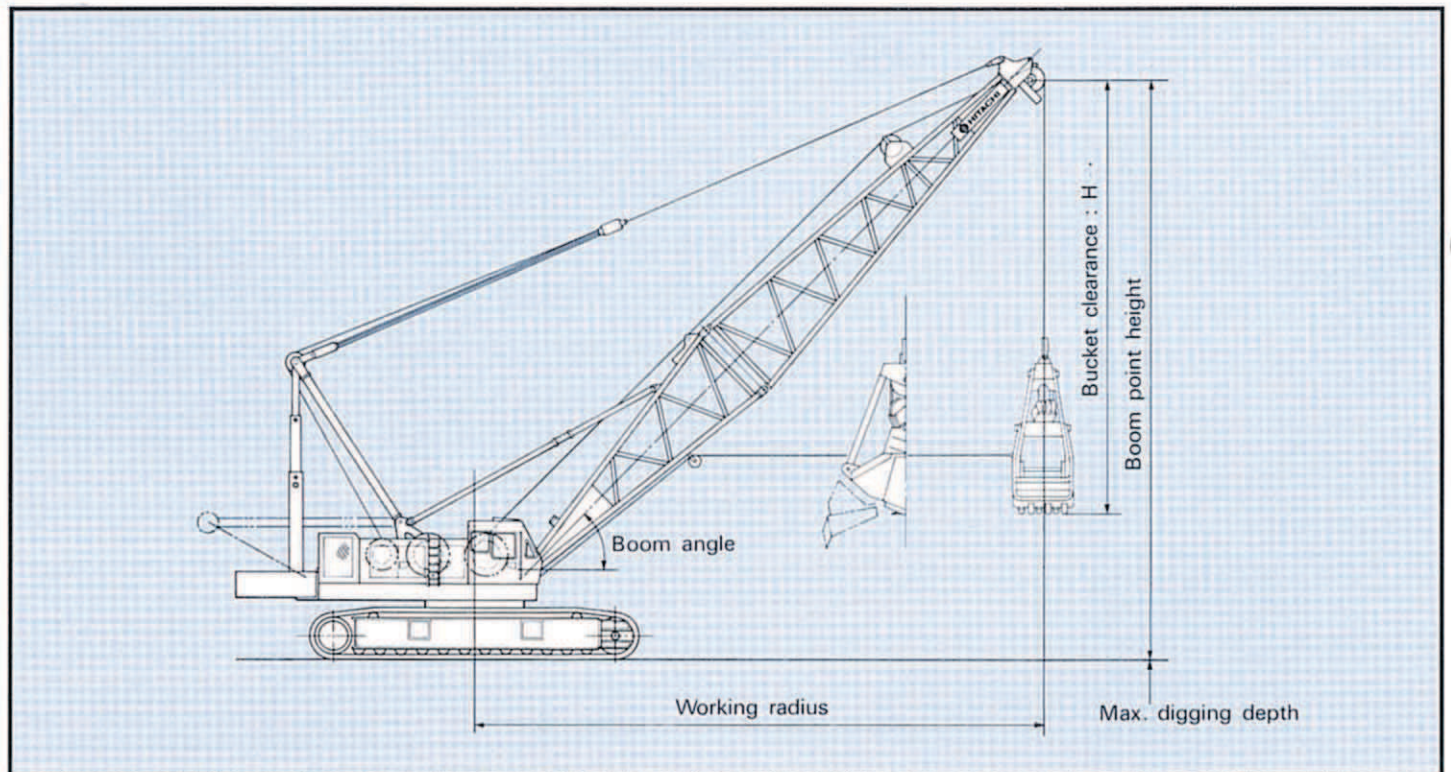
| Jib length          | 28.0 m<br>(91'10") | 31.0 m<br>(101'8") | 34.0 m<br>(111'7") | 37.0 m<br>(121'5") | 40.0 m<br>(131'3") | 43.0 m<br>(141'1") | 46.0 m<br>(150'11") | 49.0 m<br>(160'9") |
|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|--------------------|
| Element             |                    |                    |                    |                    |                    |                    |                     |                    |
| Lower 6.5 m(21'4")  | 1                  | 1                  | 1                  | 1                  | 1                  | 1                  | 1                   | 1                  |
| Upper 6.5 m(21'4")  | 1                  | 1                  | 1                  | 1                  | 1                  | 1                  | 1                   | 1                  |
| Insert 3.0 m(9'10") | —                  | 1                  | 1                  | —                  | 1                  | 1                  | —                   | 1                  |
| Insert 6.0 m(19'8") | 1                  | 1                  | —                  | 1                  | 1                  | —                  | 1                   | 1                  |
| Insert 9.0 m(29'6") | 1                  | 1                  | 2                  | 2                  | 2                  | 3                  | 3                   | 3                  |



# CLAMSHELL

## With Tubular CRANE Boom

### Dimensions



### Specifications

|                  |                                                                                                                                                   |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Max. rated load  | 10 500 kg(23 150 lb)                                                                                                                              |
| Bucket capacity  | 2.5 m <sup>3</sup> (3.3 cu yd)                                                                                                                    |
| Boom length      | 18.0 m(59'1") to 27.0 m(88'7")                                                                                                                    |
| Ground pressure  | 0.78 bar(0.78 kgf/cm <sup>2</sup> , 11.1 psi)                                                                                                     |
| Operating weight | 129 000 kg(284 400 lb)<br>When equipped with 18 m(59'1") boom,<br>2.5 m <sup>3</sup> (3.3 cu yd) bucket and<br>31 450 kg(69 340 lb) counterweight |

The other specifications such as engine horse-power, drum data, swing speed, travel speed, etc. are same as crane basic machine. See page 1-2.

### BUCKETS

| Capacity                       | Self weight         | Bucket clearance: H | Application      |
|--------------------------------|---------------------|---------------------|------------------|
| 2.5 m <sup>3</sup> (3.3 cu yd) | 5 500 kg(12 130 lb) | 6.5 m(21'4")        | General purpose  |
| 3.5 m <sup>3</sup> (4.6 cu yd) | 4 750 kg(10 470 lb) | 6.6 m(21'8")        | For gravel       |
| 5.5 m <sup>3</sup> (7.2 cu yd) | 5 000 kg(11 020 lb) | 6.5 m(21'4")        | For coal loading |



## TAGLINE

|                         | Maximum digging depth |
|-------------------------|-----------------------|
| Hydraulic operated type | 36.0 m(118'1")        |

## Clamshell Ratings and Working Ranges

| Boom length<br>m(ft in) | Working radius |        | Boom angle<br>degree | Boom point height |        | Rated load       |                     |                       |
|-------------------------|----------------|--------|----------------------|-------------------|--------|------------------|---------------------|-----------------------|
|                         | m              | ft in  |                      | m                 | ft in  | JIS rating<br>kg | BS rating<br>kg(lb) | PCSA rating<br>kg(lb) |
| <b>18.0</b><br>(59'1")  | 16.7           | 54' 9" | 35                   | 12.5              | 41' 0" | 10 500           | 10 500<br>(23 150)  | 10 500<br>(23 150)    |
|                         | 14.8           | 48' 7" | 45                   | 14.9              | 48'11" | 10 500           | 10 500<br>(23 150)  | 10 500<br>(23 150)    |
|                         | 12.4           | 40' 8" | 55                   | 17.0              | 55' 9" | 10 500           | 10 500<br>(23 150)  | 10 500<br>(23 150)    |
|                         | 9.7            | 31'10" | 65                   | 18.6              | 61' 0" | 10 500           | 10 500<br>(23 150)  | 10 500<br>(23 150)    |
| <b>21.0</b><br>(68'11") | 19.2           | 63' 0" | 35                   | 14.2              | 46' 7" | 10 500           | 10 500<br>(23 150)  | 10 500<br>(23 150)    |
|                         | 16.9           | 55' 5" | 45                   | 17.1              | 56' 1" | 10 500           | 10 500<br>(23 150)  | 10 500<br>(23 150)    |
|                         | 14.1           | 46' 3" | 55                   | 19.5              | 64' 0" | 10 500           | 10 500<br>(23 150)  | 10 500<br>(23 150)    |
|                         | 11.0           | 36' 1" | 65                   | 21.4              | 70' 3" | 10 500           | 10 500<br>(23 150)  | 10 500<br>(23 150)    |
| <b>24.0</b><br>(78'9")  | 21.7           | 71' 2" | 35                   | 15.9              | 52' 2" | 10 500           | 10 500<br>(23 150)  | 10 500<br>(23 150)    |
|                         | 19.0           | 62' 4" | 45                   | 19.2              | 63' 0" | 10 500           | 10 500<br>(23 150)  | 10 500<br>(23 150)    |
|                         | 15.9           | 52' 2" | 55                   | 21.9              | 71'10" | 10 500           | 10 500<br>(23 150)  | 10 500<br>(23 150)    |
|                         | 12.3           | 40' 4" | 65                   | 24.1              | 79' 1" | 10 500           | 10 500<br>(23 150)  | 10 500<br>(23 150)    |
| <b>27.0</b><br>(88'7")  | 24.1           | 79' 1" | 35                   | 17.6              | 57' 9" | 10 500           | 10 500<br>(23 150)  | 10 500<br>(23 150)    |
|                         | 21.1           | 69' 3" | 45                   | 21.3              | 69'11" | 10 500           | 10 500<br>(23 150)  | 10 500<br>(23 150)    |
|                         | 17.6           | 57' 9" | 55                   | 24.4              | 80' 1" | 10 500           | 10 500<br>(23 150)  | 10 500<br>(23 150)    |
|                         | 13.5           | 44' 3" | 65                   | 26.8              | 87'11" | 10 500           | 10 500<br>(23 150)  | 10 500<br>(23 150)    |

### Notes:

1. The rated loads shown include the bucket weight.  
The load to be actually lifted is the rated load minus bucket weight.
2. Counterweight is 31 450 kg (69 340 lb).
3. Allowable boom length for clamshell operation is from 18.0 m (59'1") through 27.0 m (88'7").



# Specifications



## SUPERSTRUCTURE



### Engine

|                           |                                                                                               |
|---------------------------|-----------------------------------------------------------------------------------------------|
| Model .....               | ISUZU 6RB1T                                                                                   |
| Type .....                | Water-cooled, 4-cycle, 6-cylinders, direct injection chamber type turbocharged diesel engine. |
| Rated horsepower .....    | 206 kW (280 PS) at 2 000 min <sup>-1</sup> (DIN 6 270, Net)                                   |
| Maximum torque .....      | 2 000 rpm                                                                                     |
|                           | 1 170 N·m (119 kgf·m, 861 lbf·ft) at 1 400 min <sup>-1</sup> (1 400 rpm).                     |
| Piston displacement ..... | 13.7 l (837 cu in)                                                                            |
| Fuel tank capacity .....  | 400 l (88 Imp gal, 106 U.S. gal)                                                              |
| Electric system .....     | 24 V DC. AC generating.                                                                       |



### Main and Auxiliary Hoist Mechanism

Both main and auxiliary hoist drums are driven independently by high-torque variable piston motors through reduction gear. Load hoisting/lowering are done by normal/reverse rotation of motor. Smooth, precise power lowering is made possible by the hydraulic brake. As a variable-displacement type hydraulic motor is in use, the motor speed varies automatically with lifting loads.

**Clutches** Clutches are of the spring-set, hydraulic-released internal-expanding friction band type; main and auxiliary clutches are alike in size and type, with interchangeable clutch linings.

**Brakes** External contracting friction band-type mechanical brakes, integrated with link lever, operate under normal load. For a larger load, a spring-type boost device is provided to ensure fatigue-free operation. Mechanical brake locks are equipped as standard. Furthermore, while in neutral position the hoist lever is doubly secured in position by a hydraulic brake and an automatic brake. An automatic brake system or hydraulic positive brake system, in neutral position of the hoist lever, can be selected according to job application.

**Drums** Main and auxiliary hoist drums are of special alloy cast iron. Both hoist drums are mounted on the longtime-lubricated antifriction ball bearings. Drum lugging is so structured as to easily accommodate the changes in wire rope diameter as well as wear and tear of the drum.

**Drum Locks** Drum pawl locks are provided for integral lock of drums. They are manually controllable from the operator's seat.



### Boom Hoist Mechanism

Completely independent operation.

Boom hoisting/lowering is done by normal/reverse rotation of the swash plate type axial piston motor. Boom lowering is made by power lowering through the hydraulic system. Instant hoisting/lowering of boom is possible. Both hydraulic brake and spring-set hydraulic-released multiplate disc type brake offer positive and safe stopping of boom. When boom is hoisted or lowered brakes are automatically released.

**Boom Brakes** Spring-set, hydraulic-released multiplate disc type. Brake is automatically actuated when control lever is at neutral position.

**Drum Locks** Drum pawl lock is manually controlled from operator's seat.



### Swing Mechanism

Completely independent operation. Driven by two swash plate type axial piston motors through reduction gear, swing speeds are freely controllable within the 0 to maximum speed with single lever stroking. Swing mechanism offers two-speed selection of swing.

**Swing Brake/Swing Parking brake** Two spring-set/hydraulic-released multiplate disc type swing brakes can be hydraulically actuated by brake switch on the swing lever. These brake mechanism are used for swing parking brake, too. In this case, cannot start the engine without the brake switch on position for safety.

**Swing Lock** Manually operated mechanical lock with a rod tip which is engaged in a holder of track frame during transportation.

**Swing Circle** Single-row shear-type ball bearing with heat treated internal gear.





## Revolving Frame

All steel welded construction, stress-relieved, precision-machined unit, especially designed for rigidity and strength.

**Gantry** Lowerable for transportation.

Speedy, easy raising/lowering are possible with optional hydraulic cylinders.

**Counterweight** Welded structure. Total weight 57 700 kg (127 200 lb)

Consists of 10 sections: One 14 500 kg (31 970 lb)  
 One: 8 250 kg (18 190 lb)  
 One: 4 350 kg (9 590 lb)  
 One: 4 350 kg (9 590 lb)  
 One: 4 350 kg (9 590 lb)  
 One: 4 350 kg (9 590 lb)  
 One: 4 350 kg (9 590 lb)  
 One: 4 350 kg (9 590 lb)  
 One: 4 350 kg (9 590 lb)  
 One: 4 350 kg (9 590 lb)



## Boom

**Tubular Chord CRANE Boom** 2 100 mm (6'11") wide by, 2 100 mm (6'11") deep at connection, lattice construction, high tensile strength steel tubular chord.

Basic boom ..... 2-piece, total length 18.0 m (59'1"), upper section 10.5 m (34'5") and lower section 7.5 m (24'7")

Boom point ..... Offset boom point, 7 sheaves mounted on anti-friction bearings on boom peak. Sheave P.C.D.

Boom insert ..... 3.0 m (9'10"), 6.0 m (19'8"), 9.0 m (29'6"), and 12.0 m (39'4") long available with appurtenant pendants.

Connection type ..... Pin-connected.

Boom backstop ..... Dual-rail, telescopic tubular construction with spring bumper.

Boom hoist bridle ..... Serves as connection between pendants and boom hoist wire rope reeving, equipped with 9 sheaves [462 mm (18' 2") p.c.d.] for 18-part boom hoist wire rope reeving.



## Operator's Cab

All-weather, well-ventilated, all-round visibility, roomy operator's cab. The completely independent cab is insulated against noise and vibration. Sliding, fold-in front window swings up and stores in roof. Fully adjustable reclining seat.



## UNDERCARRIAGE

**Traction Mechanism** Each track is driven by a swash plate type axial piston motor through reduction gear. The hydraulic motor and reduction mechanism are installed within the width of track link shoe. This mechanism allows counterrotation of tracks for maximum maneuverability in close quarters. When lever is at neutral position, both hydraulic brake and spring-set/hydraulic-released multiplate disc brake are automatically actuated to effect reliable stopping. Upper and lower rollers, sprockets and idlers are lifetime lubricated. A hydraulic track adjuster is provided for easy tension adjustment of each track.

**Track Frame** All-welded, stress relieved, box section construction.

**Side Frame** Side frames of all-welded construction can be retracted for transportation.

**Side Frame Removal Device and Self-loading Device (optional)**

Both right and left side frames can be speedily removed by side frame removal device. And self-loading device allows the machine to load its basic machine onto a trailer through the use of its own hydraulic jack cylinders. Travel motor pipings are connected via self-seal couplings for quick disconnection.

**Side Frame Extending/Retracting Device (optional)** Side frame extending/retracting is done with the cylinder provided inside the track frame. Then, side frame extending/retracting can easily be done in a short time eliminating troublesome piping, etc.

**Track Shoes** Heat treated alloy steel castings with induction hardened roller path and driving lugs. Shoes are connected by induction-hardened steel pins.

NO. of upper rollers (on each side) ..... 3  
 NO. of lower rollers (on each side) ..... 12  
 NO. of track shoes (on each side) ..... 64  
 Shoe width ..... 1 070 mm (42")

**Track Tension Adjuster** Track tension is adjusted by hydraulic power jack at the front idler bearing block and by inserting proper shims.



## **HYDRAULIC SYSTEM**

2 variable displacement piston pumps + 2 gear pumps hydraulic system allows both independent and combined operations of all functions. Variable-displacement piston pumps not only adequately control operating speeds, but also utilize engine horsepower to maximum.

|                  | Pump-1                                           | Pump-2                                           |
|------------------|--------------------------------------------------|--------------------------------------------------|
| Type of pump     | Variable displacement pump                       |                                                  |
| Pressure setting | 310 bar<br>(310 kgf/cm <sup>2</sup> , 4 410 psi) | 310 bar<br>(310 kgf/cm <sup>2</sup> , 4 410 psi) |
| Oil flow         | 281 l/min<br>(61.8 Imp gpm,<br>74.2 U.S. gpm)    | 281 l/min<br>(61.8 Imp gpm,<br>74.2 U.S. gpm)    |
| Use              | • Main hoist<br>• Travel (Right)                 | • Aux hoist<br>• Boom hoist<br>• Travel (Left)   |

|                  | Pump-3+4                                         | Pump-5                                        |
|------------------|--------------------------------------------------|-----------------------------------------------|
| Type of pump     | Gear pump                                        |                                               |
| Pressure setting | 210 bar<br>(210 kgf/cm <sup>2</sup> , 2 990 psi) | 40 bar<br>(40 kgf/cm <sup>2</sup> , 569 psi)  |
| Oil flow         | 218 l/min<br>(48.0 Imp gpm,<br>57.6 U.S. gpm)    | 43 l/min<br>(9.5 Imp gpm,<br>11.4 U.S. gpm)   |
| Use              | • swing                                          | • Remote-controlled<br>Hydraulic serve system |

**Main and Auxiliary Hoist Motor** Swash plate type axial piston motor with counterbalance valve.

**Boom Hoist Motor** Swash plate type axial piston motor with counterbalance valve.

**Swing Motor** 2 swash plate type axial piston motors.

**Travel Motor** Swash plate type axial piston motor with brake valve and spring-set/hydraulic-released multiplate disc brake.

**Relief and Brake Valves** Each hydraulic circuit incorporates large-capacity relief valves to protect circuit from overload or shock load. Counterbalance valves (compensates safe, positive load lowering and prevents accidental load drop when hydraulic power is suddenly reduced) are provided for hoist motor. Brake valves (consisting of relief valve and counterbalance valve) are provided for travel circuit.

### Pressure Setting

#### MAIN CIRCUIT

##### • Main relief valves

|                       |                                                  |
|-----------------------|--------------------------------------------------|
| Hoist (main and aux.) | 310 bar<br>(310 kgf/cm <sup>2</sup> , 4 410 psi) |
| Swing                 | 210 bar<br>(210 kgf/cm <sup>2</sup> , 2 990 psi) |

##### • Overload relief valves

|                               |                                                  |
|-------------------------------|--------------------------------------------------|
| Hoist (main and aux.) circuit | 310 bar<br>(310 kgf/cm <sup>2</sup> , 4 410 psi) |
| Boom hoist circuit            | 310 bar (310 kgf/cm <sup>2</sup> , 4 410 psi)    |
| Travel circuit                | 300 bar (300 kgf/cm <sup>2</sup> , 4 270 psi)    |

#### PILOT CIRCUIT

##### • Main relief valve 40 bar (40 kgf/cm<sup>2</sup>, 569 psi)

**Line Filters** High filtration 10 $\mu$  full-flow filter element is provided to keep hydraulic oil clean and ensure long-term, trouble-free operation. Pilot filter and suction filter are provided for each circuit.





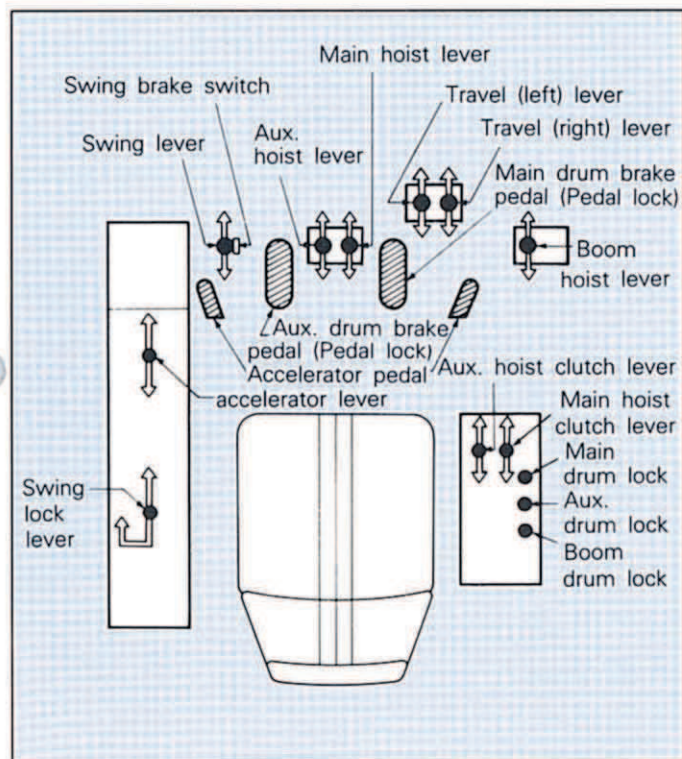
## CONTROLS

**Boom, Main and Auxiliary Hoist and Travel** Remote controlled hydraulic servo. Working speed can be precisely controlled by changing lever stroke.

**Swing** Mechanical linkage type, featuring smooth, precise swing.

**Fuel Control** Two foot throttle (accelerator) pedals and hand throttle (accelerator) controls equipped as standard.

**Ultra-low Speed Control System** Operating speeds for hoisting, boom hoisting/lowering and travel are infinitely variable within a range of 100 to 30% to facilitate alignment, accurate inching and boom detachment under gravity.



This monitor has the following functions

- **Instruments** Machine conditions are shown on meters.
- **Start up inspection monitor** To check the machine condition and safety device before starting operation.
- **Safety monitor** To warn the abnormality of the machine during operation and carelessness. An additional safety function allows the checking of broken electric wires due to boom and hook overhoist.



## SAFETY DEVICES

**Boom Angle Indicator** Mechanical type boom angle indicator is provided at boom foot.

**Counterbalance Valve (Brake Valve)** A counterbalance valve is incorporated in travel motors, boom hoist motor, main and auxiliary hoist motor respectively. In case the hydraulic line is broken, this valve is automatically actuated to prevent motor rotation.

**Spring-set/Hydraulic-released Multiplate Disc Type Travel Brakes**

**Swing Lock and Swing Brake**

**Drum Lock** A pawl type drum lock is adopted for main drum, auxiliary drum and boom drum.

**For Lift Crane**

- **Moment Limiter**
- **Hook Overhoist Prevention Device** When the hook reaches its safety hoist limit, an alarm bell rings and an auto-stop device automatically actuates at the same time.
- **Boom Overhoist Prevention Device** When the boom reaches its safety angle limit, a buzzer alarm sounds and boom hoisting automatically stops at the same time. A telescopic type boom backstop is also installed.



## SERVICE REFILL CAPACITIES

|                             | Liters | Imp gal | U.S gal |
|-----------------------------|--------|---------|---------|
| Fuel tank .....             | 440.0  | 96.7    | 116.1   |
| Engine coolant .....        | 50.0   | 11.0    | 13.2    |
| Engine oil .....            | 45.0   | 9.9     | 11.9    |
| Pump transmission .....     | 1.3    | 0.29    | 0.34    |
| Boom hoist motor            |        |         |         |
| reduction device.....       | 15.0   | 3.3     | 4.0     |
| Winch hoist motor reduction |        |         |         |
| device (on each side) ...   | 15.0   | 3.3     | 4.0     |
| Swing reduction device      |        |         |         |
| (on each side).....         | 4.0    | 0.9     | 1.1     |
| Travel final device         |        |         |         |
| (on each side).....         | 35.0   | 7.7     | 9.2     |
| Hydraulic system (includ-   |        |         |         |
| ing tank capacity) .....    | 400.0  | 87.9    | 105.5   |
| Hydraulic tank.....         | 250.0  | 54.9    | 66.0    |

## OPTIONAL EQUIPMENT

**Operator's Cab** Electric fan, cab cooler.

**Auxiliary Jib for Crane Boom** Can be attached to the top of main boom for auxiliary hook-hoisting operation.

**Hydraulic Gantry Cylinders**

**Side Frame Removal Device and Self-loading Device**

**Side Frame Retract Device**

**Joystick Lever**



## FRONT-END ATTACHMENTS AVAILABLE



Crane



Clamshell



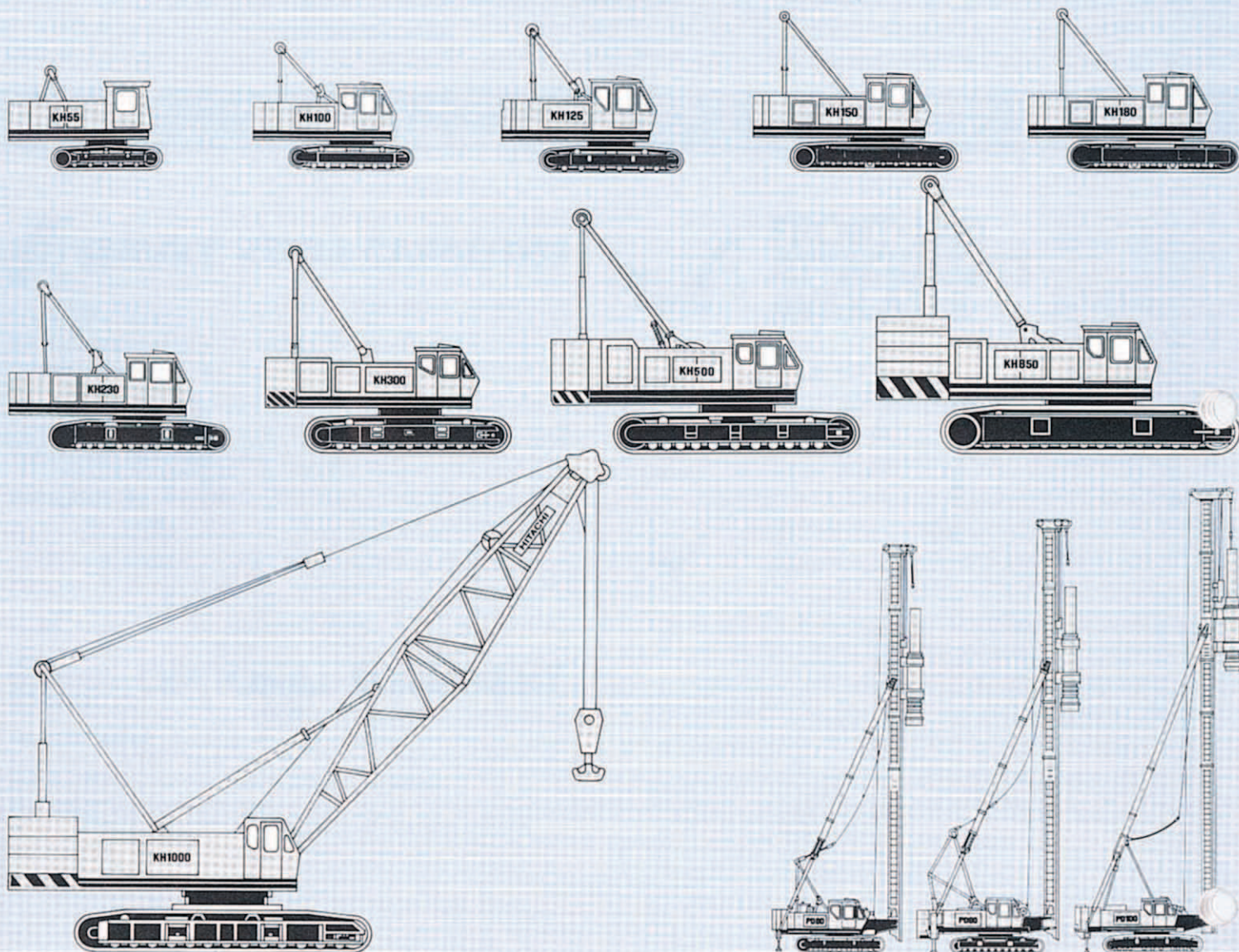
Pontoon-mounted crane



Tower crane



# KH AND PD SERIES



These specifications are subject to change without notice.

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