

**IHI**

**ccH 1200**

## **Fully Hydraulic Crawler Crane**

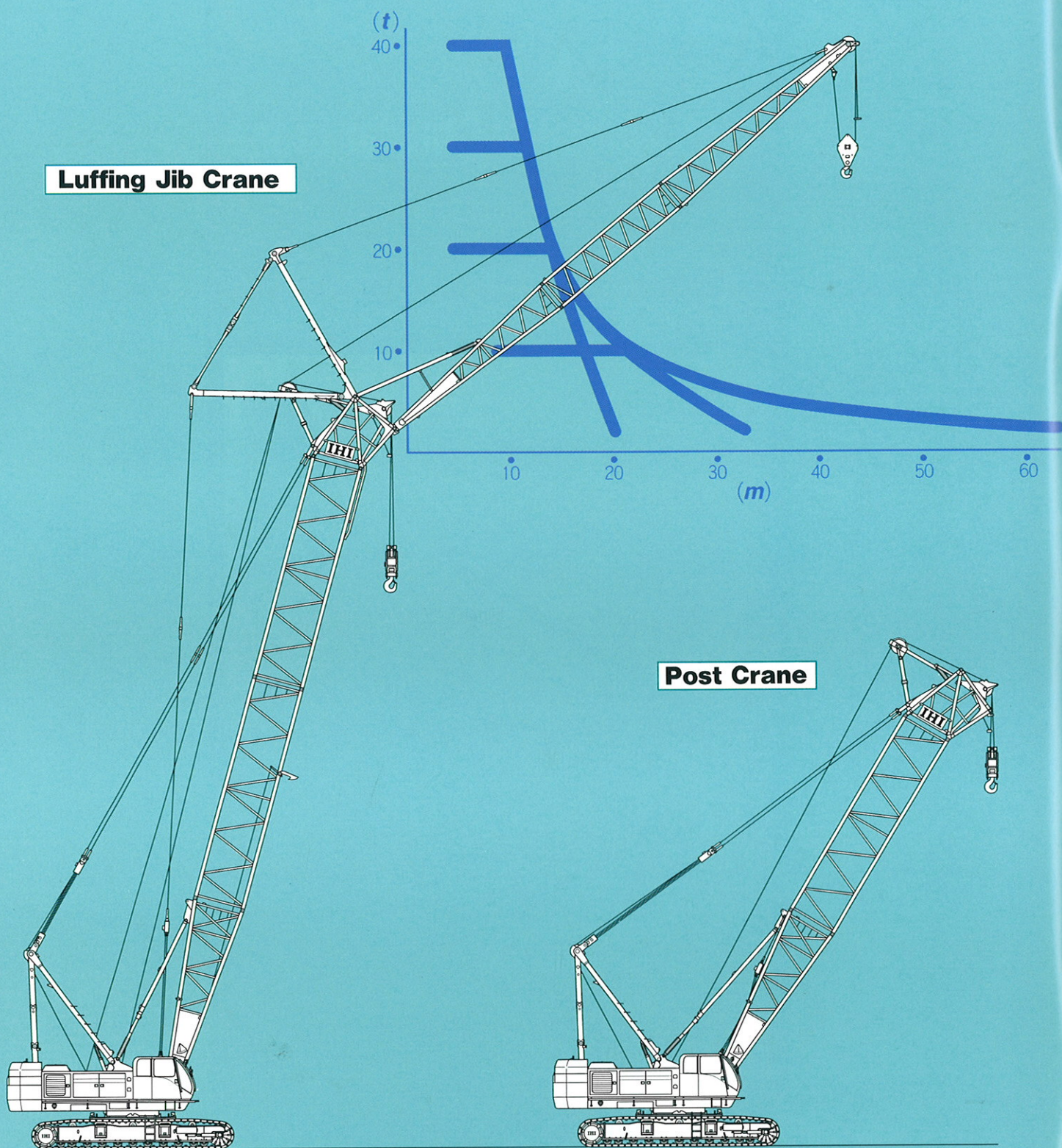
**Lifting capacity 120 metric tons**



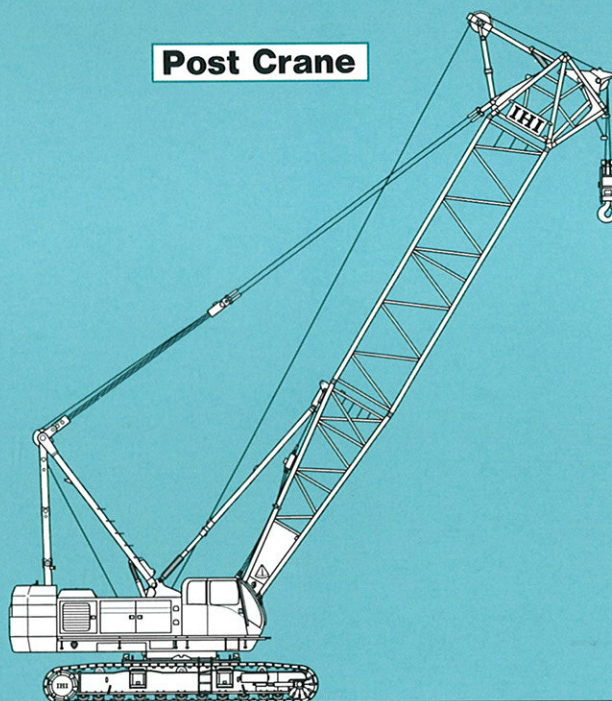
**IHI Construction Machinery Limited**



**Luffing Jib Crane**



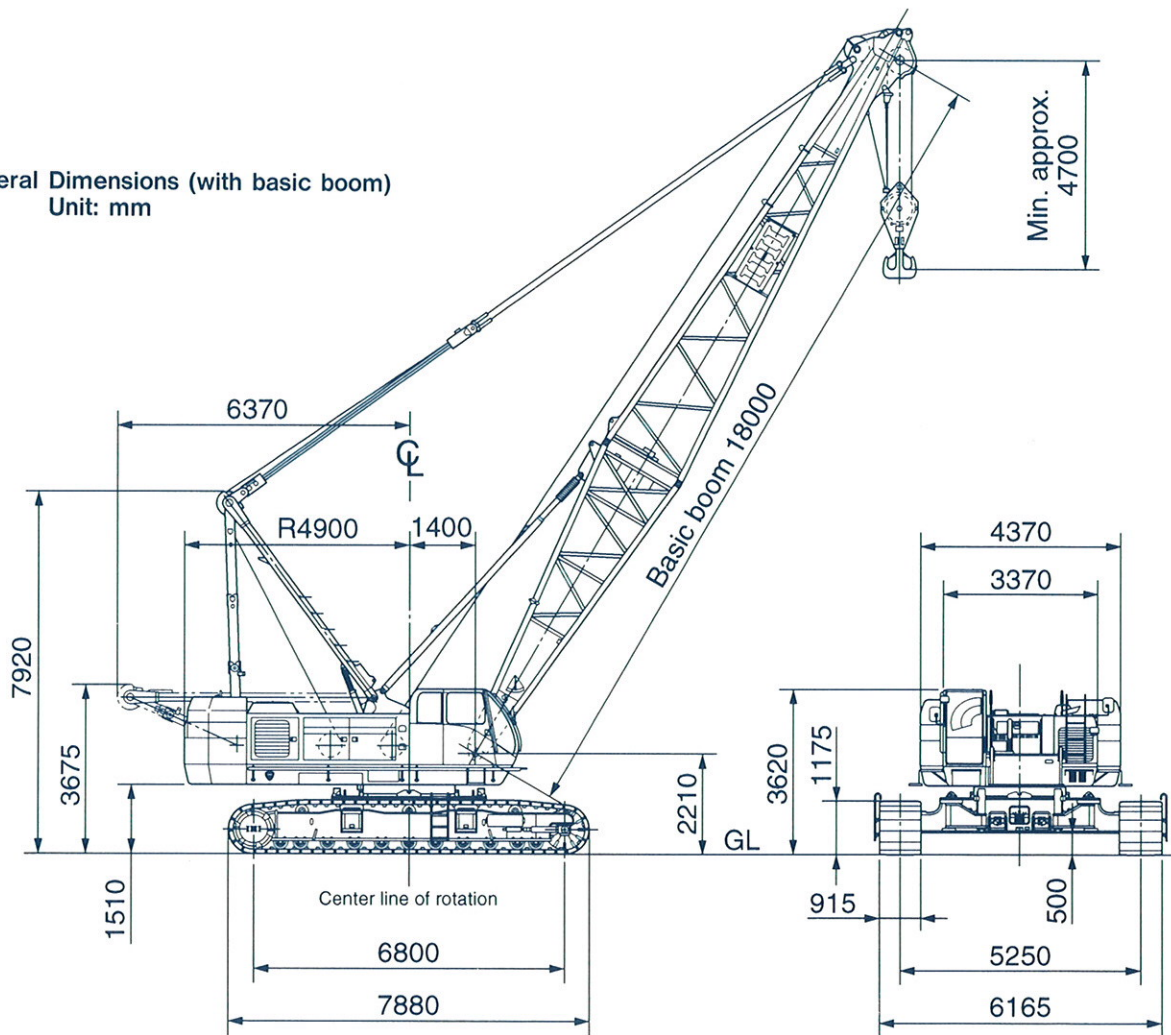
**Post Crane**



**Note:**  
Main and Jib hook blocks may not be operated simultaneously.



■ General Dimensions (with basic boom)  
Unit: mm



## ■ Specifications

|                                            |                                                                                             |
|--------------------------------------------|---------------------------------------------------------------------------------------------|
| <b>Performance</b>                         |                                                                                             |
| Swing speed                                | 2.2 rpm                                                                                     |
| Travel speed                               | * 1.5/1.0 km/h (0.93/0.62 mph)                                                              |
| Gradeability                               | 30% (Approx. 16.7° with 18m Boom and 120ton hook block)                                     |
| <b>Engine</b>                              |                                                                                             |
| Make                                       | HINO MOTOR                                                                                  |
| Model                                      | K13TJ(with turbo) diesel engine 4-cycle, water cooled, overhead valve                       |
| Type                                       | Direct injection diesel engine                                                              |
| Total piston displacement                  | 12.882 ℓ                                                                                    |
| Rated output                               | 320 PS/2000 rpm                                                                             |
| Fuel tank capacity                         | 450 ℓ                                                                                       |
| Battery                                    | 12 V×150 AH×2 pcs.                                                                          |
| <b>Load hoist system (Main &amp; Aux.)</b> |                                                                                             |
| Hydraulic motor                            | Variable displacement axial piston type                                                     |
| Reduction gear                             | Two-stage planetary gear and single stage spur gear                                         |
| Hoist drum                                 | Tandem drums driven independently by hydraulic motor, lagging type with lebus grooved drum. |
| Clutch                                     | Internal expanding band type                                                                |
| Brake                                      | External contracting type                                                                   |
| Drum lock                                  | Ratchet lock                                                                                |
| Hydraulic pump                             | Variable displacement axial piston type×2<br>Gear pump×3                                    |
| <b>Boom hoist sytem</b>                    |                                                                                             |
| Motor                                      | Axial piston type                                                                           |
| Reduction gear                             | One stage planetary gear + One stage spur gear                                              |
| Hoist drum                                 | Lebus grooved drum                                                                          |
| Brake                                      | Automatic spring - loaded hydraulically released wet type multi-disk                        |
| Drum lock                                  | Ratchet lock                                                                                |

### ■ Standard Equipment

- **Instrument for crane**
    - Engine tachometer (Hour meter)
    - Hydraulic oil pressure gauge
    - (for control circuit)
    - Fuel level gauge
    - Engine coolant thermo indicator
    - Engine oil pressure indicator
    - Hydraulic oil thermo indicator
  - **Lighting for crane**
    - 2-Work light (24v × 80w)
    - 1-Room light (24v × 10w)
  - **Safety device**
    - Automatic stop for hook overwinding
    - Automatic stop for boom overwinding
    - Telescopic boom limit stop
    - Swing lock
    - Main and auxiliary drum lock
    - Boom hoist drum lock
    - 2nd. boom stop device
    - (82° non-resetable)
    - Clutch engage pin on main and auxiliary winch
    - Safety valve for hydraulic circuit
    - Counter balance valve
    - Control lever locking device
  - **Other standard accessories**
    - Front windshield wipers
    - (intermittent, w/washer)
    - Roof wipers (intermittent, w/washer)
    - Sunvisor
    - Sun shade
    - Storage pouch
    - Tool box
    - Reclining operator's seat
    - Floor mat
- Jack device for dismantling
  - Lateral cylinders for dismantling crawler
  - Steps for operator's cab
  - Radio
  - Cigarette lighter
  - Ash tray
  - Large rear view mirrors (right/left)
  - Signal horn
  - Electric fuel filling pump
  - Swing warning flasher
  - Travel warning flasher
  - High "A" frame erecting device
  - Low-noise cab
  - Bronze tinted glass
  - Wire mesh boom workway
  - (for inner boom)
  - Foot rest
  - Electric type engine throttle
  - Foot pedal-type engine throttle
  - Automatic engine deceleration
  - Ultra low speed control
  - Hydraulic assist brake for main and aux. winch
  - Winch mode selector for main and aux. winch
  - Rope guide roller on outer boom
  - Plug socket
  - Loud speaker
  - Emergency engine stop switch
  - OK monitor



## Specifications

|                                        |                                    |                          |
|----------------------------------------|------------------------------------|--------------------------|
| Max. Lifting capacity × working radius |                                    | 120 metric tons × 5.0m   |
| Max. boom length                       |                                    | 75m                      |
| Max. boom length, (main + jib)         |                                    | 88m (63m boom + 25m jib) |
| Rope speed                             | Main drum hoist / lowering         | * 100~50/50~25 m/min     |
|                                        | Aux. drum hoist / lowering         | * 100~50/50~25 m/min     |
|                                        | Boom drum hoist / lowering         | * 60~30 m/min            |
| Part line                              | Hook block capacity×Part line      | 120ton×10                |
|                                        | Hook block capacity×Part line      | 11ton×1                  |
|                                        | Boom drum hoist/lowering part line | 14                       |
| Counterweight                          |                                    | 50ton                    |
| Total operating weight (with 18m boom) |                                    | 121.5ton (Approx.)       |
| Average ground bearing pressure        |                                    | 0.92kgf/cm <sup>2</sup>  |

\* The rope speed changes depending on the load.

## Combination of Boom and Jib (●: Available combination)

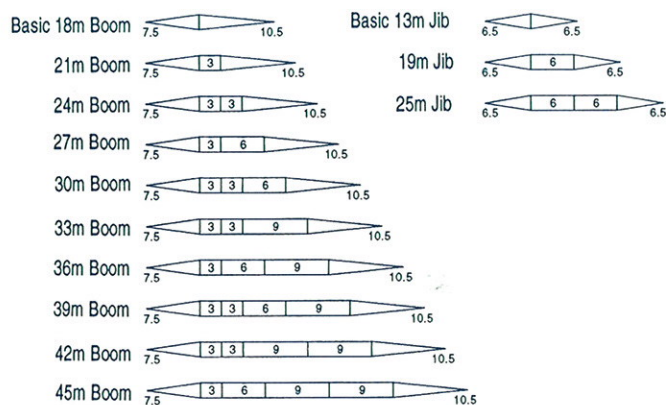
| Jib length (m) | Boom length (m) |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----------------|-----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|                | 18-24           | 27 | 30 | 33 | 36 | 39 | 42 | 45 | 48 | 51 | 54 | 57 | 60 | 63 | 66 | 69 |
| Auxiliary      | ●               | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |
| 13             |                 |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |
| 19             |                 |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |
| 25             |                 |    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  |

## Wire Rope

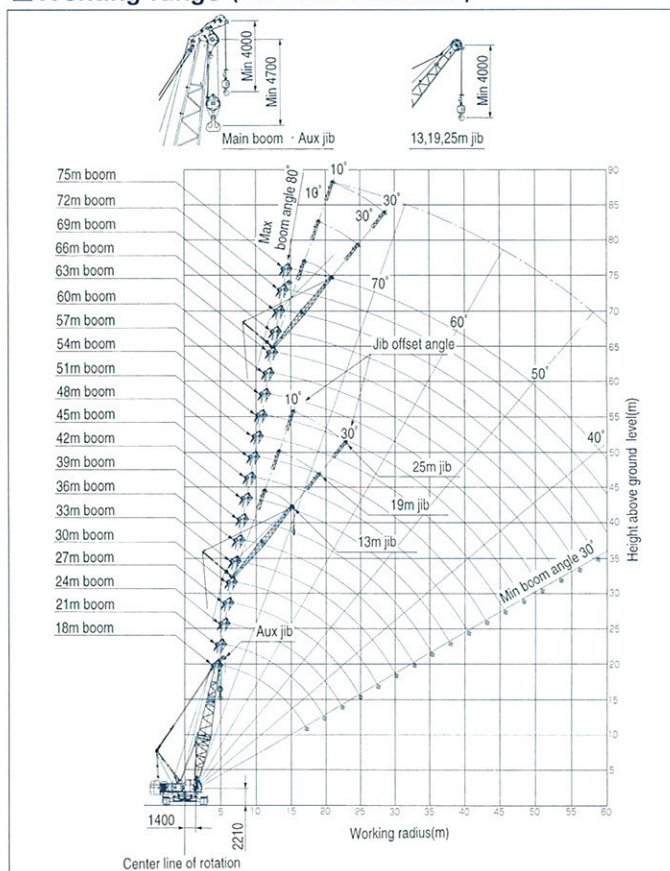
| Place of use         | Rope diameter (mm) | Guaranteed strength (ton) | rope type |
|----------------------|--------------------|---------------------------|-----------|
| Load hoist           | φ 26               | 61.0                      | A         |
| Boom hoist           | φ 22               | 36.3                      | B         |
| Boom suspension      | φ 31.5             | 74.9                      | C         |
| Jib load hoist       | φ 26               | 61.0                      | A         |
| Jib Boom suspension  | φ 28               | 59.3                      | C         |
| Jib strut suspension | φ 28               | 59.3                      | C         |

Rope type A: PS(19)+39×P-7  
B: IWRC 6×WS(31)  
C: IWRC 6×Fi(29)

## Boom & Jib Combination



## Working range (No load condition)



Note: 1. Compositions shown are for maximum length at time of delivery.  
2. Required middle suspension for boom length 63m and longer.  
3. Boom can be converted into a post for tower crane operation by replacing top section.



## ■ Main boom rated lifting loads

(Unit : metric ton)

| Boom length(m)<br>Working radius(m) | 18.0  | 21.0 | 24.0 | 27.0 | 30.0 | 33.0 | 36.0 | 39.0 | 42.0 | 45.0 | 48.0      | 51.0      | 54.0 | 57.0 | 60.0 | 63.0 | 66.0 | 69.0 | 72.0       | 75.0       |
|-------------------------------------|-------|------|------|------|------|------|------|------|------|------|-----------|-----------|------|------|------|------|------|------|------------|------------|
| 5.0                                 | 120.0 |      |      |      |      |      |      |      |      |      |           |           |      |      |      |      |      |      |            |            |
| 5.5                                 | 106.7 | 90.0 |      |      |      |      |      |      |      |      |           |           |      |      |      |      |      |      |            |            |
| 6.0                                 | 97.0  | 90.0 | 80.0 | 70.0 |      |      |      |      |      |      |           |           |      |      |      |      |      |      |            |            |
| 7.0                                 | 83.3  | 81.2 | 75.0 | 70.0 | 60.0 | 50.0 |      |      |      |      |           |           |      |      |      |      |      |      |            |            |
| 8.0                                 | 71.7  | 71.5 | 67.5 | 64.0 | 60.0 | 50.0 | 40.0 | 30.0 | 20.0 | 10.0 |           |           |      |      |      |      |      |      |            |            |
| 9.0                                 | 60.6  | 60.0 | 59.7 | 57.5 | 54.1 | 50.0 | 40.0 | 30.0 | 20.0 | 10.0 | 9.2m×40.0 | 9.7m×40.0 |      |      |      |      |      |      |            |            |
| 10.0                                | 51.8  | 51.6 | 51.5 | 51.0 | 48.8 | 47.4 | 46.0 | 44.0 | 42.0 | 40.0 | 30.0      | 30.0      | 28.3 | 28.1 | 20.0 | 20.0 | 19.0 | 16.0 | 14.4m×14.5 | 14.9m×13.0 |
| 12.0                                | 40.6  | 40.4 | 40.3 | 40.2 | 40.0 | 39.2 | 38.4 | 37.8 | 37.5 | 37.1 | 30.0      | 30.0      | 28.3 | 28.1 | 20.0 | 20.0 | 19.0 | 16.0 | 14.4m×14.5 | 14.9m×13.0 |
| 14.0                                | 32.9  | 32.7 | 32.6 | 32.5 | 32.3 | 32.2 | 32.1 | 31.9 | 31.8 | 31.7 | 30.0      | 30.0      | 28.3 | 28.1 | 20.0 | 20.0 | 19.0 | 16.0 | 14.4m×14.5 | 14.9m×13.0 |
| 16.0                                | 27.6  | 27.4 | 27.3 | 27.2 | 27.0 | 26.9 | 26.8 | 26.6 | 26.5 | 26.4 | 26.3      | 26.2      | 25.1 | 24.9 | 20.0 | 20.0 | 19.0 | 16.0 | 14.4m×14.5 | 14.9m×13.0 |
| 18.0                                | 23.4  | 23.3 | 23.2 | 23.0 | 22.9 | 22.8 | 22.6 | 22.5 | 22.4 | 22.3 | 22.2      | 22.0      | 21.9 | 20.0 | 20.0 | 19.2 | 17.9 | 16.0 | 14.5       | 13.0       |
| 20.0                                | 20.2  | 20.1 | 19.9 | 19.8 | 19.7 | 19.5 | 19.4 | 19.3 | 19.2 | 19.1 | 18.9      | 18.8      | 18.2 | 17.5 | 16.7 | 15.2 | 13.6 | 11.6 |            |            |
| 22.0                                |       | 17.8 | 17.7 | 17.5 | 17.4 | 17.3 | 17.1 | 17.0 | 16.9 | 16.8 | 16.7      | 16.5      | 16.4 | 16.3 | 15.8 | 15.3 | 14.2 | 12.6 | 10.4       |            |
| 24.0                                |       | 15.8 | 15.6 | 15.5 | 15.4 | 15.2 | 15.1 | 15.0 | 14.9 | 14.8 | 14.6      | 14.5      | 14.4 | 14.2 | 13.8 | 13.0 | 11.6 | 9.4  |            |            |
| 26.0                                |       | 13.9 | 13.8 | 13.7 | 13.5 | 13.4 | 13.3 | 13.2 | 13.1 | 12.9 | 12.8      | 12.7      | 12.5 | 12.3 | 11.9 | 10.5 | 8.4  |      |            |            |
| 28.0                                |       | 12.5 | 12.4 | 12.2 | 12.1 | 12.0 | 11.9 | 11.8 | 11.6 | 11.5 | 11.4      | 11.2      | 11.0 | 10.9 | 9.6  | 7.6  |      |      |            |            |
| 30.0                                |       | 11.3 | 11.2 | 11.0 | 10.9 | 10.8 | 10.7 | 10.6 | 10.4 | 10.3 | 10.2      | 10.0      | 9.8  | 9.7  | 8.7  | 6.9  |      |      |            |            |
| 32.0                                |       | 10.2 | 10.0 | 9.9  | 9.8  | 9.7  | 9.6  | 9.4  | 9.3  | 9.2  | 9.0       | 8.8       | 8.6  | 7.8  | 6.2  |      |      |      |            |            |
| 34.0                                |       | 9.1  | 9.0  | 8.9  | 8.8  | 8.7  | 8.5  | 8.4  | 8.3  | 8.1  | 7.9       | 7.6       | 7.1  | 5.5  |      |      |      |      |            |            |
| 36.0                                |       | 8.2  | 8.1  | 8.0  | 7.9  | 7.7  | 7.6  | 7.5  | 7.3  | 7.1  | 6.7       | 6.4       | 5.9  | 5.7  | 4.4  |      |      |      |            |            |
| 38.0                                |       | 7.4  | 7.3  | 7.2  | 7.0  | 6.9  | 6.8  | 6.6  | 6.3  | 6.2  | 6.0       | 5.8       | 5.3  | 4.6  | 3.5  |      |      |      |            |            |
| 40.0                                |       | 6.8  | 6.7  | 6.6  | 6.4  | 6.3  | 6.2  | 6.0  | 5.8  | 5.7  | 5.5       | 5.3       | 4.6  | 3.5  |      |      |      |      |            |            |
| 42.0                                |       | 6.2  | 6.1  | 5.9  | 5.8  | 5.7  | 5.5  | 5.3  | 4.6  | 3.5  |           |           |      |      |      |      |      |      |            |            |
| 44.0                                |       | 5.6  | 5.4  | 5.3  | 5.2  | 5.0  | 4.8  | 4.2  | 3.9  | 3.0  |           |           |      |      |      |      |      |      |            |            |
| 46.0                                |       | 4.9  | 4.8  | 4.7  | 4.5  | 4.3  | 3.7  | 2.9  | 2.2  |      |           |           |      |      |      |      |      |      |            |            |
| 48.0                                |       | 4.5  | 4.4  | 4.3  | 4.1  | 3.8  | 3.2  | 2.4  |      |      |           |           |      |      |      |      |      |      |            |            |
| 50.0                                |       | 4.0  | 3.9  | 3.7  | 3.4  | 2.8  | 2.4  |      |      |      |           |           |      |      |      |      |      |      |            |            |
| 52.0                                |       | 3.6  | 3.4  | 2.9  | 2.4  | 2.0  |      |      |      |      |           |           |      |      |      |      |      |      |            |            |
| 54.0                                |       | 3.1  | 2.5  | 2.0  |      |      |      |      |      |      |           |           |      |      |      |      |      |      |            |            |

### Notes

- Above rated loads are based on firm level ground, within 78% of tipping load at any point 360° throughout and with front stability of 1.15 or more.
- Working radius is horizontal distance from center of rotation to a vertical line through the center of gravity of the load.
- The weight of the slings, hook block(s) and auxiliary lifting devices must be considered to be part of the load.
- Hook block:  
120ton capacity...1.60ton 60ton capacity...1.15ton  
50ton capacity...0.95ton 30ton capacity...0.75ton  
11ton capacity...0.40ton
- Jib boom can be fitted to main boom in the following combinations.

| Jib length(m)  | Auxiliary | 13.0      | 19.0      | 25.0      |
|----------------|-----------|-----------|-----------|-----------|
| Boom length(m) | 18.0~72.0 | 30.0~63.0 | 30.0~63.0 | 30.0~63.0 |

- When jib boom is fitted actual loads that can be lifted with main hook block should be reduced according to the above chart (the weights include that of the auxiliary hook block).

| Jib length(m)              | Auxiliary | 13.0 | 19.0 | 25.0 |
|----------------------------|-----------|------|------|------|
| Weight to be deducted(ton) | 0.70      | 2.80 | 3.30 | 3.90 |

- High "A" Frame should be extended before working.

- The rated loads for the Auxiliary jib must be reduced 0.7 ton from same radius of rated lifting loads of the main boom which installed the jib.  
The rated loads for the 13m jib~25m jib are same as main boom's one which installed jib.(Ref.Jib rated lifting loads)  
However do not exceed below limit.

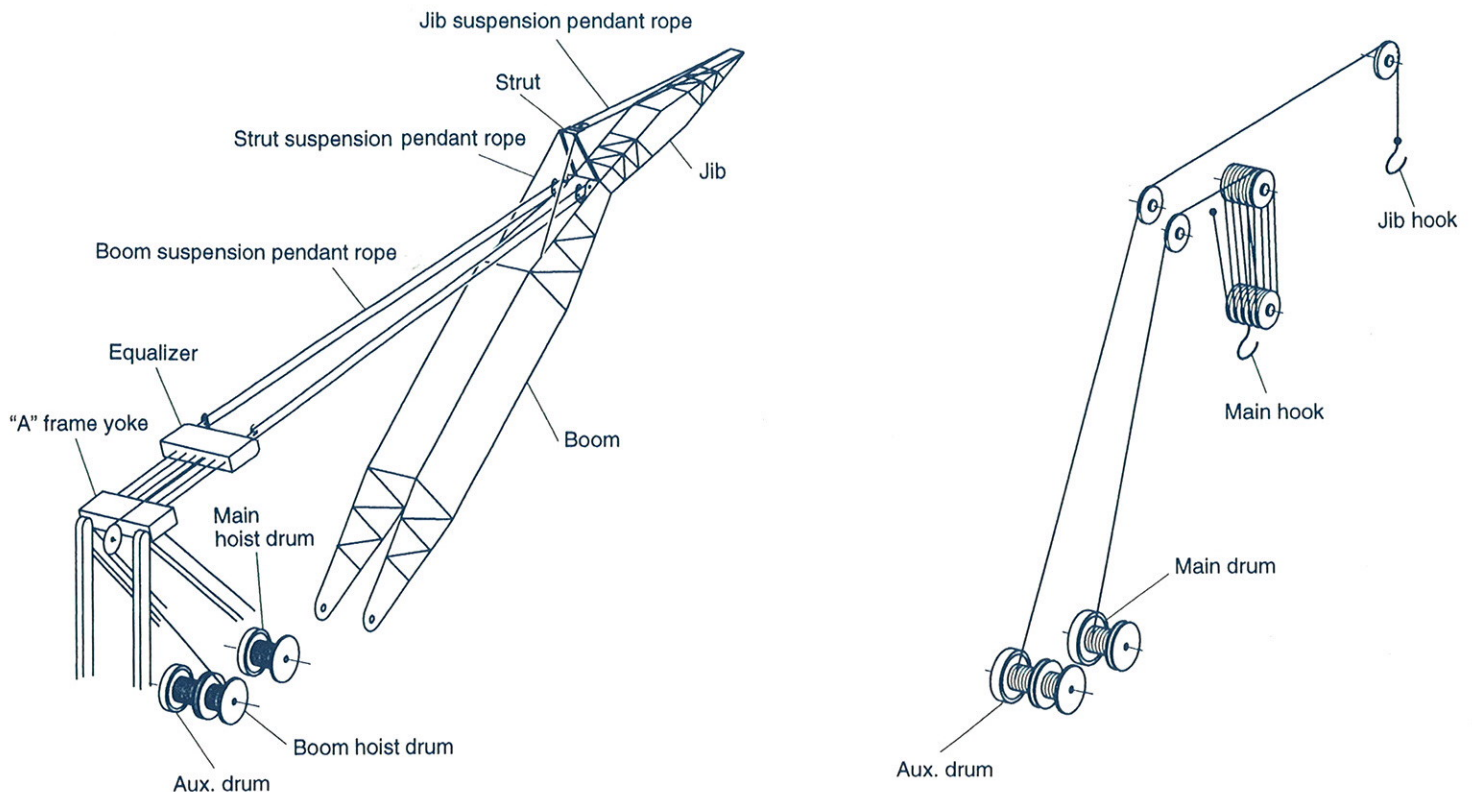
| Jib length(m)      | Auxiliary | 13.0 |     | 19.0 |     | 25.0 |     |
|--------------------|-----------|------|-----|------|-----|------|-----|
| Jib offset angle   | —         | 10°  | 30° | 10°  | 30° | 10°  | 30° |
| Limited loads(ton) | 11.0      | 11.0 | 8.5 | 10.0 | 6.5 | 6.5  | 4.5 |

- The rated load for Jib when the main hook is installed must be reduced by the total weight of the main hook and jib hook.

- Depending on the number of part lines, rated lifting load is limited as follows:

- |                              |                               |
|------------------------------|-------------------------------|
| 1Part line.....up to 12 ton  | 2Part line.....up to 24 ton   |
| 3Part line.....up to 36 ton  | 4Part line.....up to 48 ton   |
| 5Part line.....up to 60 ton  | 6Part line.....up to 72 ton   |
| 7Part line.....up to 84 ton  | 8Part line.....up to 96 ton   |
| 9Part line.....up to 108 ton | 10Part line.....up to 120 ton |

- Rated loads shown in bold lines are based on structural strength factors.





## Auxiliary jib rated lifting loads

(Unit : metric ton)

| Boom length(m)<br>Working radius(m) | 18.0           | 21.0           | 24.0           | 27.0           | 30.0           | 33.0           | 36.0           | 39.0           | 42.0           | 45.0           | 48.0           | 51.0           | 54.0           | 57.0           | 60.0           | 63.0           | 66.0           | 69.0           | 72.0           |
|-------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 5.5                                 | 5.7m×<br>11.0  |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
| 6.0                                 | 11.0           | 6.2m×<br>11.0  | 6.7m×<br>11.0  |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
| 7.0                                 | 11.0           | 11.0           | 11.0           | 7.2m×<br>11.0  | 7.8m×<br>11.0  |                |                |                |                |                |                |                |                |                |                |                |                |                |                |
| 8.0                                 | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 8.3m×<br>11.0  | 8.8m×<br>11.0  |                |                |                |                |                |                |                |                |                |                |                |                |
| 9.0                                 | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 9.3m×<br>11.0  | 9.8m×<br>11.0  |                |                |                |                |                |                |                |                |                |                |
| 10.0                                | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 10.4m×<br>11.0 | 10.9m×<br>11.0 | 11.4m×<br>11.0 | 11.9m×<br>11.0 |                |                |                |                |                |                |
| 12.0                                | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 12.5m×<br>11.0 | 13.0m×<br>11.0 | 13.5m×<br>11.0 |                |                |                |
| 14.0                                | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 14.5m×<br>11.0 |                |
| 16.0                                | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 15.1m×<br>11.0 |
| 18.0                                | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           |
| 20.0                                | 18.5m×<br>11.0 | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           |
| 22.0                                |                | 21.1m×<br>11.0 | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           |
| 24.0                                |                |                | 23.7m×<br>11.0 | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 23.8m×<br>11.0 |
| 26.0                                |                |                |                | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 11.0           | 27.7m×<br>11.0 | 27.6m×<br>11.0 | 27.4m×<br>11.0 | 27.1m×<br>11.0 | 26.9m×<br>11.0 | 26.4m×<br>11.0 |
| 28.0                                |                |                |                | 26.3m×<br>11.0 | 11.0           | 29.2m×<br>11.0 | 29.0m×<br>11.0 | 28.7m×<br>11.0 | 28.5m×<br>11.0 | 28.4m×<br>11.0 | 28.2m×<br>11.0 | 11.0           | 10.9           | 10.8           | 10.7           | 10.5           | 10.3           | 10.2           | 8.9            |
| 30.0                                |                |                |                |                | 28.9m×<br>11.0 | 10.6           | 10.5           | 10.3           | 10.2           | 10.1           | 10.0           | 9.9            | 9.7            | 9.6            | 9.5            | 9.3            | 9.1            | 9.0            | 8.0            |
| 32.0                                |                |                |                |                |                | 31.5m×<br>9.8  | 9.5            | 9.3            | 9.2            | 9.1            | 9.0            | 8.9            | 8.7            | 8.6            | 8.5            | 8.3            | 8.1            | 7.9            | 7.1            |
| 34.0                                |                |                |                |                |                |                | 8.6            | 8.4            | 8.3            | 8.2            | 8.1            | 8.0            | 7.8            | 7.7            | 7.6            | 7.4            | 7.2            | 6.9            | 6.4            |
| 36.0                                |                |                |                |                |                |                |                | 7.6            | 7.5            | 7.4            | 7.3            | 7.2            | 7.0            | 6.9            | 6.8            | 6.6            | 6.4            | 6.0            | 5.7            |
| 38.0                                |                |                |                |                |                |                |                | 36.6m×<br>7.4  | 6.8            | 6.7            | 6.6            | 6.5            | 6.3            | 6.2            | 6.1            | 5.9            | 5.7            | 5.2            | 5.0            |
| 40.0                                |                |                |                |                |                |                |                |                | 39.2m×<br>6.4  | 6.1            | 6.0            | 5.9            | 5.7            | 5.6            | 5.5            | 5.3            | 5.1            | 4.5            | 4.3            |
| 42.0                                |                |                |                |                |                |                |                |                |                | 41.8m×<br>5.6  | 5.5            | 5.4            | 5.2            | 5.1            | 5.0            | 4.8            | 4.6            | 3.9            | 3.7            |
| 44.0                                |                |                |                |                |                |                |                |                |                |                | 5.0            | 4.9            | 4.7            | 4.6            | 4.5            | 4.3            | 4.1            | 3.5            | 3.2            |
| 46.0                                |                |                |                |                |                |                |                |                |                |                | 44.4m×<br>4.9  | 4.4            | 4.2            | 4.1            | 4.0            | 3.8            | 3.6            | 3.0            | 2.7            |
| 48.0                                |                |                |                |                |                |                |                |                |                |                |                | 47.0m×<br>4.2  | 3.8            | 3.7            | 3.6            | 3.4            | 3.1            | 2.5            | 2.2            |
| 50.0                                |                |                |                |                |                |                |                |                |                |                |                |                | 49.6m×<br>3.5  | 3.3            | 3.2            | 3.0            | 2.7            | 2.1            | 1.7            |
| 52.0                                |                |                |                |                |                |                |                |                |                |                |                |                |                | 3.0            | 2.9            | 2.7            | 2.2            | 1.7            | 1.3            |
| 54.0                                |                |                |                |                |                |                |                |                |                |                |                |                |                |                | 52.2m×<br>2.9  | 2.6            | 2.4            | 1.8            | 1.3            |



Notes  
1. Above rated loads are based on firm level ground, within 78% of tipping load at any point 360° throughout and with front stability of 1.15 or more.  
2. Working radius is horizontal distance from center of rotation to a vertical line through the center of gravity of the load.

3. When the main hook block is installed, the lifting loads of jib must be reduced by the weight of hook block (main and jib) and other lifting devices.  
120ton hook block---1.60ton 60ton hook block---1.15ton  
50ton hook block---0.95ton 30ton hook block---0.75ton  
11ton hook block---0.40ton

## Jib rated lifting loads

| Boom length(m)<br>Jib length(m)<br>Offset<br>angle<br>Working<br>radius(m) | 30.0           |               |                |               |               |               | 42.0           |               |                |               |               |               | 63.0           |               |                |               |               |               |
|----------------------------------------------------------------------------|----------------|---------------|----------------|---------------|---------------|---------------|----------------|---------------|----------------|---------------|---------------|---------------|----------------|---------------|----------------|---------------|---------------|---------------|
|                                                                            | 13.0           |               | 19.0           |               | 25.0          |               | 13.0           |               | 19.0           |               | 25.0          |               | 13.0           |               | 19.0           |               | 25.0          |               |
|                                                                            | 10'            | 30'           | 10'            | 30'           | 10'           | 30'           | 10'            | 30'           | 10'            | 30'           | 10'           | 30'           | 10'            | 30'           | 10'            | 30'           | 10'           | 30'           |
| 9.0                                                                        |                |               |                |               |               |               |                |               |                |               |               |               |                |               |                |               |               |               |
| 10.0                                                                       | 11.3m×<br>11.0 |               |                |               |               |               |                |               |                |               |               |               |                |               |                |               |               |               |
| 12.0                                                                       | 11.0           |               | 13.4m×<br>10.0 |               |               |               | 13.4m×<br>11.0 |               |                |               |               |               |                |               |                |               |               |               |
| 14.0                                                                       | 11.0           | 15.0m×<br>8.5 | 10.0           |               | 14.9m×<br>5.5 |               | 11.0           |               | 15.5m×<br>10.0 |               |               |               |                |               |                |               |               |               |
| 16.0                                                                       | 11.0           | 8.5           | 10.0           |               | 5.5           |               | 11.0           | 17.1m×<br>8.5 | 10.0           |               | 17.0m×<br>5.5 |               | 17.0m×<br>11.0 |               |                |               |               |               |
| 18.0                                                                       | 11.0           | 8.5           | 10.0           | 18.9m×<br>6.5 | 5.5           |               | 11.0           | 8.5           | 10.0           |               | 5.5           |               | 11.0           |               | 19.1m×<br>10.0 |               |               |               |
| 20.0                                                                       | 11.0           | 8.5           | 10.0           | 6.5           | 5.5           |               | 11.0           | 8.5           | 10.0           | 21.0m×<br>6.5 | 5.5           |               | 11.0           | 20.8m×<br>8.5 | 10.0           |               | 20.7m×<br>5.5 |               |
| 22.0                                                                       | 11.0           | 8.5           | 10.0           | 6.5           | 5.5           | 22.3m×<br>4.5 | 11.0           | 8.5           | 10.0           | 6.5           | 5.5           |               | 11.0           | 8.5           | 10.0           |               | 5.5           |               |
| 24.0                                                                       | 11.0           | 8.5           | 10.0           | 6.5           | 5.5           | 4.5           | 11.0           | 8.5           | 10.0           | 6.5           | 5.5           | 24.3m×<br>4.5 | 11.0           | 8.5           | 10.0           | 24.6m×<br>6.5 | 5.5           |               |
| 26.0                                                                       | 11.0           | 8.5           | 10.0           | 6.5           | 5.5           | 4.5           | 11.0           | 8.5           | 10.0           | 6.5           | 5.5           | 4.5           | 11.0           | 8.5           | 10.0           | 6.5           | 5.5           |               |
| 28.0                                                                       | 11.0           | 8.5           | 10.0           | 6.5           | 5.5           | 4.5           | 29.8m×<br>11.0 | 8.5           | 10.0           | 6.5           | 5.5           | 4.5           | 28.3m×<br>11.0 | 8.5           | 10.0           | 6.5           | 5.5           | 4.5           |
| 30.0                                                                       | 30.7m×<br>11.0 | 8.5           | 10.0           | 6.5           | 5.5           | 4.5           | 10.9           | 8.5           | 31.7m×<br>10.0 | 6.5           | 5.5           | 4.5           | 10.0           | 8.5           | 10.0           | 6.5           | 5.5           | 4.5           |
| 32.0                                                                       | 10.4           | 8.5           | 32.8m×<br>10.0 | 6.5           | 5.5           | 4.5           | 9.9            | 8.5           | 9.9            | 6.5           | 5.5           | 4.5           | 9.0            | 33.1m×<br>8.5 | 9.0            | 6.5           | 5.5           | 4.5           |
| 34.0                                                                       | 9.5            | 8.5           | 9.5            | 6.5           | 5.5           | 4.5           | 9.0            | 35.3m×<br>8.5 | 9.0            | 6.5           | 5.5           | 4.5           | 8.1            | 8.1           | 8.1            | 6.5           | 5.5           | 4.5           |
| 36.0                                                                       | 8.7            | 36.6m×<br>8.5 | 8.7            | 6.5           | 5.5           | 4.5           | 8.2            | 8.2           | 8.2            | 6.5           | 5.5           | 4.5           | 7.3            | 7.3           | 7.3            | 6.5           | 5.5           | 4.5           |
| 38.0                                                                       | 8.0            | 8.0           | 8.0            | 6.5           | 5.5           | 4.5           | 7.5            | 7.5           | 7.5            | 6.5           | 5.5           | 4.5           | 6.6            | 6.6           | 6.6            | 38.4m×<br>6.5 | 5.5           | 4.5           |
| 40.0                                                                       | 7.4            | 7.4           | 7.4            | 6.5           | 5.5           | 4.5           | 6.9            | 6.9           | 6.9            | 41.5m×<br>6.5 | 5.5           | 4.5           | 6.0            | 6.0           | 6.0            | 6.0           | 5.5           | 4.5           |
| 42.0                                                                       | 40.1m×<br>7.4  | 41.1m×<br>7.1 | 6.9            | 43.5m×<br>6.5 | 5.5           | 4.5           | 6.4            | 6.4           | 6.4            | 6.4           | 5.5           | 4.5           | 5.5            | 5.5           | 5.5            | 5.5           | 5.5           | 4.5           |
| 44.0                                                                       |                |               | 6.4            | 6.4           | 5.5           | 4.5           | 5.9            | 5.9           | 5.9            | 5.9           | 45.6m×<br>5.5 | 4.5           | 5.0            | 5.0           | 5.0            | 5.0           | 5.0           | 4.5           |
| 46.0                                                                       |                |               | 45.8m×<br>8.0  | 5.9           | 5.5           | 4.5           | 5.4            | 5.4           | 5.4            | 5.4           | 5.4           | 4.5           | 4.5            | 4.5           | 4.5            | 4.5           | 4.5           | 46.1m×<br>4.5 |
| 48.0                                                                       |                |               |                | 47.1m×<br>5.7 | 5.5           | 4.5           | 5.0            | 5.0           | 5.0            | 5.0           | 5.0           | 4.5           | 4.1            | 4.1           | 4.1            | 4.1           | 4.1           | 4.1           |
| 50.0                                                                       |                |               |                |               | 5.1           | 4.5           | 4.6            | 4.6           | 4.6            | 4.6           | 4.6           | 50.7m×<br>4.5 | 3.7            | 3.7           | 3.7            | 3.7           | 3.7           | 3.7           |
| 52.0                                                                       |                |               |                |               | 51.2m×<br>4.9 | 4.5           | 50.5m×<br>4.5  | 51.5m×<br>4.4 | 4.3            | 4.3           | 4.3           | 4.3           | 3.4            | 3.4           | 3.4            | 3.4           | 3.4           | 3.4           |
| 54.0                                                                       |                |               |                |               |               | 53.1m×<br>4.5 |                |               | 4.0            | 4.0           | 4.0           | 4.0           | 3.1            | 3.1           | 3.1            | 3.1           | 3.1           | 3.1           |
| 56.0                                                                       |                |               |                |               |               |               |                |               | 3.6            | 3.6           | 3.6           | 3.6           | 2.7            | 2.7           | 2.7            | 2.7           | 2.7           | 2.7           |
| 58.0                                                                       |                |               |                |               |               |               |                |               | 56.2m×<br>3.5  | 57.5m×<br>3.4 | 3.3           | 3.3           | 2.4            | 2.4           | 2.4            | 2.4           | 2.4           | 2.4           |
| 60.0                                                                       |                |               |                |               |               |               |                |               |                |               | 3.0           | 3.0           | 2.1            | 2.1           | 2.1            | 2.1           | 2.1           | 2.1           |



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