

SCX550E

HYDRAULIC CRAWLER CRANE

***Specifications
&
Lifting Capacities***

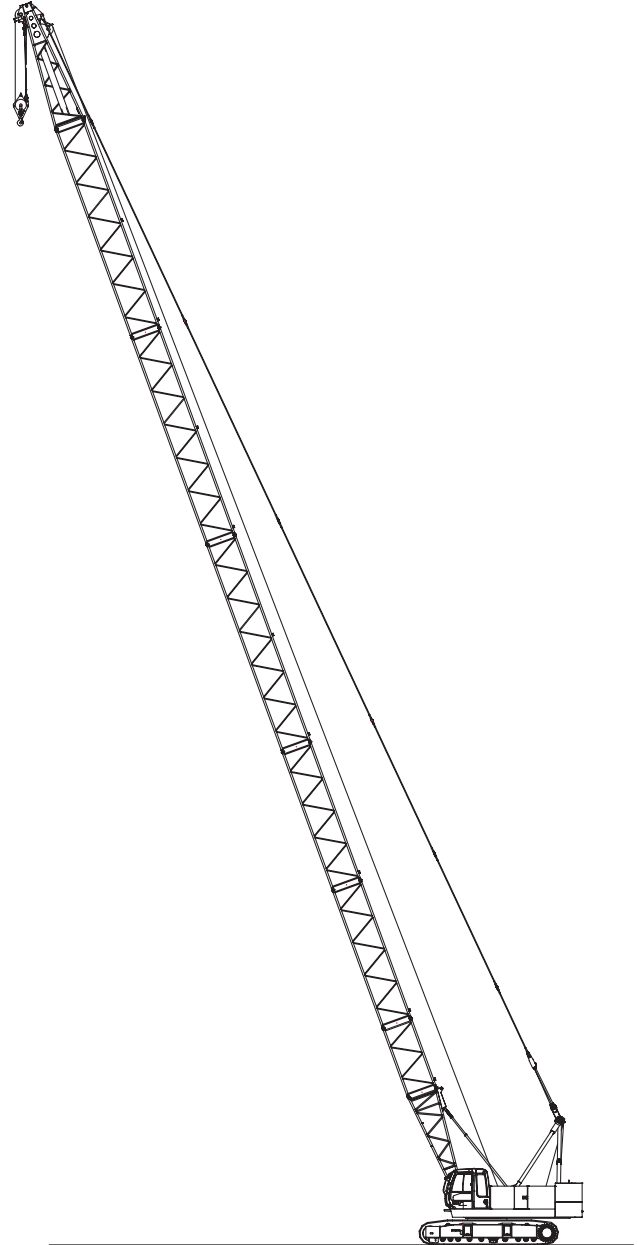
HITACHI SUMITOMO



Variation of The Attachment

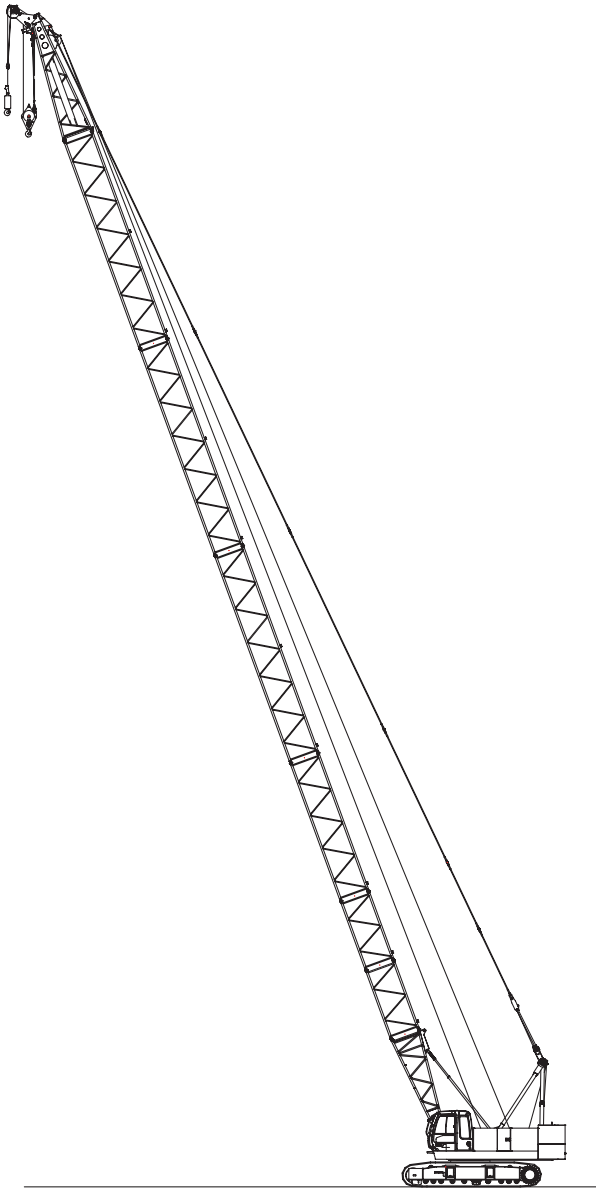
| | | | |
|---------------------------|----------------------------------|-------------------------------|----------------------------|
| Line Speed * | Front / Rear Winch | m/min | 75 |
| | Boom Hoist Winch | | 62 |
| Swing Speed | min ⁻¹ (rpm) | | 3.7 |
| Travel Speed * | km/h | | 1.5 |
| Gradeability | % (Degree) | | 30 (17) |
| Engine Model | | ISUZU 6HK1 (Stage II, Tier 2) | |
| Engine Rated Output Power | kW/min ⁻¹ (ps/rpm) | | 140 / 2000 (190 / 2000) |

Note : Speeds marked with "*" may vary depending on load applied.



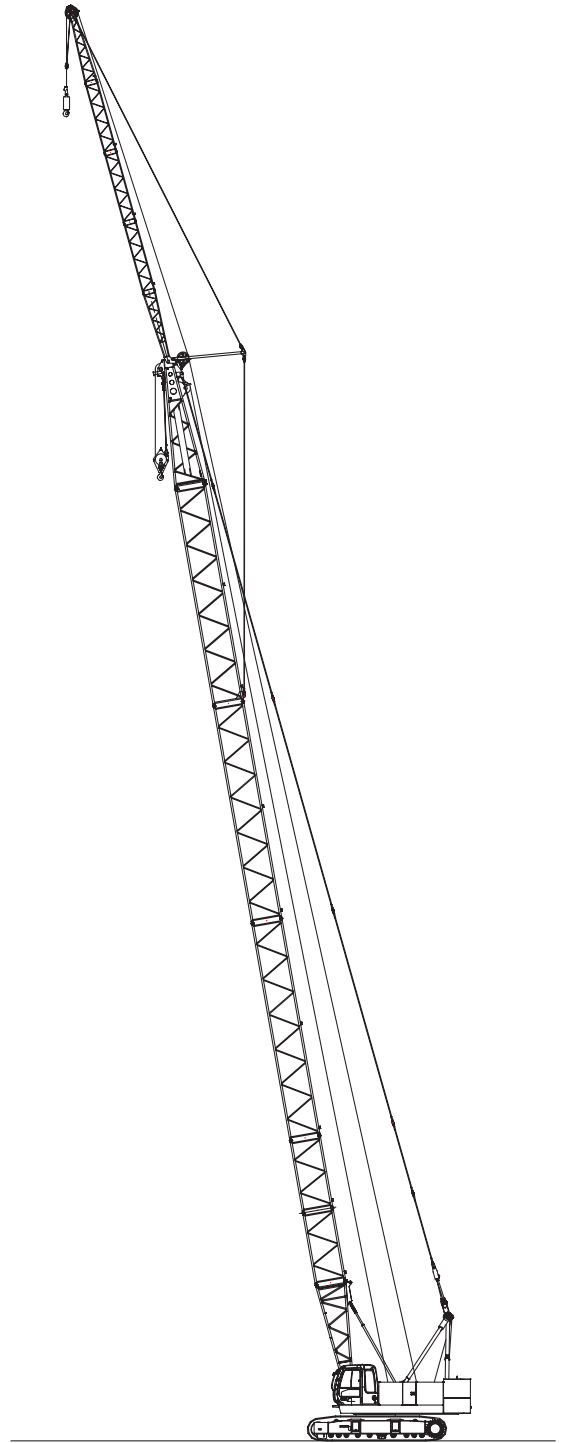
Crane Specification (Boom Longest Length)

| | | |
|--------------------------|----------------------------|--|
| Boom Length | m | 10 to 52.70 |
| Ground Contact Pressure | kPa (kgf/cm ²) | 69.9 (0.71) (Boom longest length with 15 t hook) |
| Overall Operating Weight | t | Approximately 52.5 (Boom longest length with 15 t hook) |



**Crane Specification
(Boom Longest Length with Aux. Sheave)**

| | | |
|--------------------------|----------------------------|---|
| Boom Length | m | 13.05 to 49.65 |
| Ground Contact Pressure | kPa (kgf/cm ²) | 70.6 (0.72) (Boom longest length + aux. sheave, 15 t + 6.5 t hook attached) |
| Overall Operating Weight | t | Approximately 53.0 (Boom longest length + aux. sheave, 15 t + 6.5 t hook attached) |



**Crane Specification
(Boom Longest Length with Crane Jib)**

| | | |
|---------------------------------|----------------------------|---|
| Boom Length | m | 22.20 to 43.55 |
| Crane Jib Length | m | 6 to 15 |
| Boom + Crane Jib Longest Length | m | 43.55 + 15 |
| Ground Contact Pressure | kPa (kgf/cm ²) | 71.0 (0.72) (Boom + crane jib longest length, 15 t + 6.5 t hook attached) |
| Overall Operating Weight | t | Approximately 53.3 (Boom + crane jib longest length, 15 t + 6.5 t hook attached) |

VARIATION

| | |
|------------------------------------|----------|
| Variation of The Attachment | 2 |
|------------------------------------|----------|

SPECIFICATIONS

| | |
|-----------------------|----------|
| Specifications | 6 |
|-----------------------|----------|

| | |
|-----------------------------|----------|
| Crane Specifications | 7 |
|-----------------------------|----------|

| | |
|------------------------------------|---|
| Dimensions and Specifications..... | 7 |
|------------------------------------|---|

| | |
|---|---|
| Boom and Crane Jib Configurations | 8 |
|---|---|

| | |
|--|----|
| Combination of Boom and Crane Jib (Offset Angle 10° and 30°) | 10 |
|--|----|

| | |
|----------------------|----|
| Working Ranges | 12 |
|----------------------|----|

| | |
|------------------|----|
| ■ Main Boom..... | 12 |
|------------------|----|

| | |
|---------------------|----|
| ■ Aux. Sheave | 13 |
|---------------------|----|

| | |
|------------------|----|
| ■ Crane Jib..... | 14 |
|------------------|----|

| | |
|-------------------------------------|-----------|
| Gross Rated Load Table | 15 |
|-------------------------------------|-----------|

| | |
|------------------|----|
| ■ Main Boom..... | 15 |
|------------------|----|

| | |
|---------------------|----|
| ■ Aux. Sheave | 16 |
|---------------------|----|

| | |
|------------------------------------|----|
| ■ Main Boom with Aux. Sheave | 17 |
|------------------------------------|----|

| | |
|------------------|----|
| ■ Crane Jib..... | 18 |
|------------------|----|

| | |
|---------------------------------|----|
| ■ Main Boom with Crane Jib..... | 21 |
|---------------------------------|----|

| | |
|---------------------------------|-----------|
| Clamshell Specifications | 24 |
|---------------------------------|-----------|

| | |
|------------------------------------|----|
| Dimensions and Specifications..... | 24 |
|------------------------------------|----|

| | |
|-----------------------|----|
| ■ Working Ranges..... | 24 |
|-----------------------|----|

| | |
|-----------------------|----|
| ■ Specifications..... | 24 |
|-----------------------|----|

| | |
|--------------------------|----|
| ■ Clamshell Bucket | 24 |
|--------------------------|----|

| | |
|-------------------------------|----|
| ■ Gross Rated Load Table..... | 24 |
|-------------------------------|----|

TECHNICAL DATA

| | |
|---|-----------|
| Weights and Dimensions of Disassembled Units | 26 |
| Weights and Dimensions List..... | 26 |
| Equipment List | 29 |
| Standard and Optional Equipment | 29 |

Specifications



Engine

| | |
|--------------------|---|
| Model | ISUZU 6HK1 |
| Type | 4-cycle, Water-cooled, Direct injection, Turbo-charged, Diesel engine |
| Displacement | 7,790 cc |
| Rated Output | 140 kW / 2,000 min-1 (190 ps / 2,000 rpm) |
| Fuel Tank Capacity | 285 liters |
| Notes | Engine meets Tier 2 / Stage II of engine exhaust gas emission regulations in USA, Europe, and Japan. Engine rated horsepower is based on international rating formula that includes engine alternator and without fan. |



Control

| | |
|----------------------|--|
| Control System | Main actuators are driven by main hydraulic system controlled with pilot hydraulic system in depend on movement of control levers. Actuators enable the operation of a precise safety device by combining various electronic control with hydraulic system. It is able to set the most suitable machine speed depending on work by smooth operability. |
| Control Levers | Control levers are designed and located based on ergonomics. Control lever system is cross operation lever type. |
| Display Panel Design | 7 inches of Display is adopted. This display is located to check a work state clearly without disturbing the view of the operator. |



Hydraulic System

| | | | |
|-----------------------------|------------|------------------|---|
| Hydraulic Oil Tank Capacity | 250 liters | | |
| Hydraulic Pump Capacity | Max. | 29.4 MPa | |
| | P1 | 230 liters / min | for Front, Rear, boom hoist winch, travel and sideframe retract |
| | P2 | 230 liters / min | for Front, Rear and travel |
| | P3 | 131 liters / min | for Swing |
| | P4 | 36 liters / min | Pilot control |



Winch

| Front and Rear Winch | | | |
|---|-------------------|--------|--------|
| Winch | Front | Rear | |
| Rope Diameter | 22 mm | 22 mm | |
| Rope Length | Incorporated | 185 m | 120 m |
| | Max. for Work | 215 m | 215 m |
| | Max. for Non Work | 320 m | 320 m |
| Line Pull | Rated | 63 kN | 63 kN |
| | Max. at 1st Lay | 147 kN | 147 kN |
| Boom Hoist Winch | | | |
| Rope Diameter | 16 mm | | |
| Rope Length | Incorporated | 135 mm | |
| Hydraulic motor with multi-disc brakes. | | | |



Swing System

| |
|---|
| Constructed with a hydraulic motor with reduction gear and multi-disc brakes and a swing bearing which has inner tooth. |
|---|



Counterweight

| | | |
|--------------|---------------------|----------|
| Upper Weight | Total Weight | 17.0 ton |
| | 8.6 ton Base Weight | 1 piece |
| | 8.4 ton Top Weight | 1 piece |



Carbody Frame

| |
|----------------------------|
| Welded steel construction. |
|----------------------------|

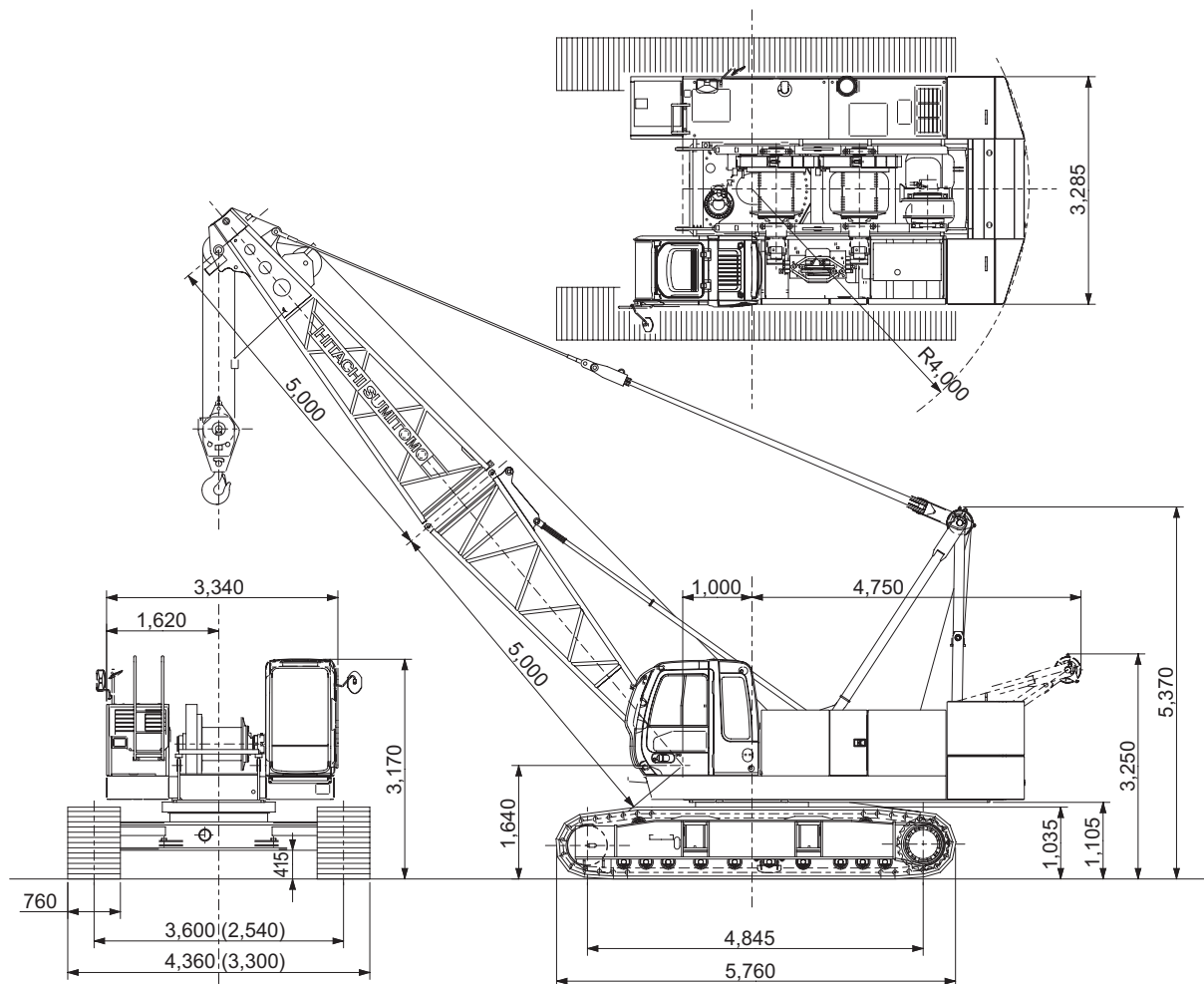


Crawler Sideframe

| | | |
|---------------|--|----------|
| Frame | Welded steel box construction and can be retracted for transportation. | |
| Crawler Shoe | 59 track shoes with triple grousers made of induction-hardened rolled alloy 760mm width. | |
| Upper Roller | 2 pieces each side. | |
| Lower Roller | 10 pieces each side. | |
| Travel Device | 1 piece each side. | |
| | Hydraulic travel device (Hydraulic motor and reducer) | |
| | Travel speed (Gradability : 30%) | 1.5 km/h |

Crane Specifications

Dimensions and Specifications



Dimensions in () are when tracks are fully retracted.

| Crane Specifications | | |
|------------------------------------|----------------------------|---|
| Max. Lifting Load × Working Radius | t × m | 55 × 3.7 |
| Basic Boom Length | m | 10.0 |
| Max. Boom Length | m | 52.7 |
| Max. Crane Jib Length | m | 6 to 15 |
| Max. Boom + Jib Length | m | 43.55 + 15 |
| Ground Contact Pressure | kPa (kgf/cm ²) | 67.0 (0.68) (w / Basic Boom, 55 t Hook) |
| Overall Operating Weight | t | Approximately 50.0 (w / Basic Boom, 55 t Hook) |

| Hook Weight | | |
|-------------|--|--------|
| 55 t | | 700 kg |
| 30 t | | 360 kg |
| 15 t | | 320 kg |
| 6.5 t | | 180 kg |

NOTE : Data is expressed in SI units followed by conventional units in ().

| Front / Rear Winch Rope No. of Falls and Lifting Load | | | | | | | | | |
|---|--------------|---------|---------|---------|---------|---------|---------|---------|--------|
| Hook Capacity (t) | No. of Falls | | | | | | | | |
| | 9 Falls | 8 Falls | 7 Falls | 6 Falls | 5 Falls | 4 Falls | 3 Falls | 2 Falls | 1 Fall |
| 55 | 55 | 52 | 45.5 | 39 | 32.5 | 26 | 19.5 | 13 | - |
| 30 | - | - | - | - | 30.0 | 26 | 19.5 | 13 | - |
| 15 | - | - | - | - | - | - | 15 | 13 | - |
| 6.5 | - | - | - | - | - | - | - | - | 6.5 |

Boom and Crane Jib Configurations

| Boom (1/3) | |
|-----------------|-------------------|
| Boom length (m) | Boom combinations |
| 10.00 m | |
| 13.05 m | |
| 16.10 m | ★ |
| 19.15 m | ★ |
| 22.20 m | ★ |
| 25.25 m | ★ |

| Boom (2/3) | |
|-----------------|-------------------|
| Boom length (m) | Boom combinations |
| 28.30 m | ★ |
| 31.35 m | ★ |
| 34.40 m | ★ |
| 37.45 m | ★ |

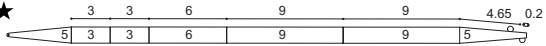
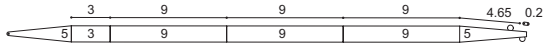
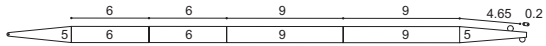
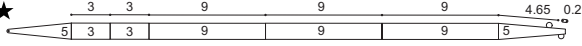
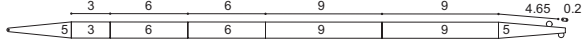
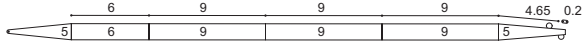
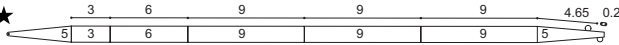
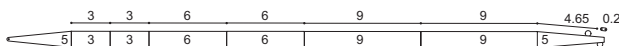

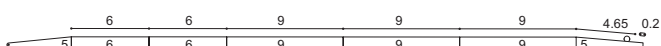

Note: 1. A star mark (★) indicates manufacturer's recommended boom configuration in a consideration that it is able to set boom length in the pitch of 3.05 meters from its maximum length; other boom configuration with no star mark (★) is not able to do such an arrangement of boom length.
2. In case that crane jib is attached, 9m boom under the top boom must be replaced to 9m(B) boom.

| Aux. sheave availability | | | | | | | | | | | | | | | |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Boom length (m) | 10.00 | 13.05 | 16.10 | 19.15 | 22.20 | 25.25 | 28.30 | 31.35 | 34.40 | 37.45 | 40.50 | 43.55 | 46.60 | 49.65 | 52.70 |
| Aux. sheave | × | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | × |

(○ : Attachable × : Not Attachable)

Check the pendant rope with referring to the imprints on the rope end.

| Dimensions Not Shown In The Figure | | Pendant Rope | | | |
|------------------------------------|-----------------|--------------|--------------------|------------------------|--|
| Symbols | Boom Length (m) | Length (m) | Rope Diameter (mm) | Imprint | |
| 3 | 3.05 | 3.05 | 30 | □ • △ • 30 • 3.048 • C | |
| 6 | 6.10 | 4.65 | 30 | □ • △ • 30 • 4.65 • C | |
| 9 | 9.15 | 6.10 | 30 | □ • △ • 30 • 6.096 • C | |
| 9B | 9.15 | 9.15 | 30 | □ • △ • 30 • 9.144 • C | |

| Boom (3/3) | |
|-----------------|--|
| Boom length (m) | Boom combinations |
| 40.50 m | <p>★ </p> <p></p> <p></p> |
| 43.55 m | <p>★ </p> <p></p> <p></p> |
| 46.60 m | <p>★ </p> <p></p> |
| 49.65 m | <p>★ </p> <p></p> |
| 52.70 m | <p></p> |

Combination of Boom and Crane Jib (Offset Angle 10° and 30°)

Combination of Boom and Crane Jib (Offset Angle 10° and 30°)

| Boom Length (m) | 10.00 | 13.05 | 16.10 | 19.15 | 22.20 | 25.25 | 28.30 | 31.35 | 34.40 | 37.45 | 40.50 | 43.55 | 46.60 | 49.65 | 52.70 | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|
| Jib Length (m) | 6 | × | × | × | × | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | × | × | × |
| | 9 | × | × | × | × | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | × | × | × |
| | 12 | × | × | × | × | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | × | × | × |
| | 15 | × | × | × | × | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | × | × | × |

(○ : Attachable × : Not Attachable)

Crane Jib (Offset Angle 10° and 30°)

| Crane Jib Length (m) | Offset Angle | Crane Jib Configurations |
|----------------------|--------------|--------------------------|
| 6 | 10° | |
| | 30° | |
| 9 | 10° | |
| | 30° | |

Crane Jib (Offset Angle 10° and 30°)

| Crane Jib Length (m) | Offset Angle | Crane Jib Configurations |
|----------------------|--------------|--------------------------|
| 12 | 10° | |
| | 30° | |
| 15 | 10° | |
| | 30° | |

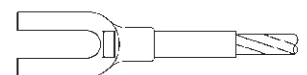
Check the pendant rope with referring to the imprints on the rope end.

Dimensions Not Shown In The Figure

| Symbols | Jib Length (m) |
|---------|----------------|
| 3 | 3.0 |

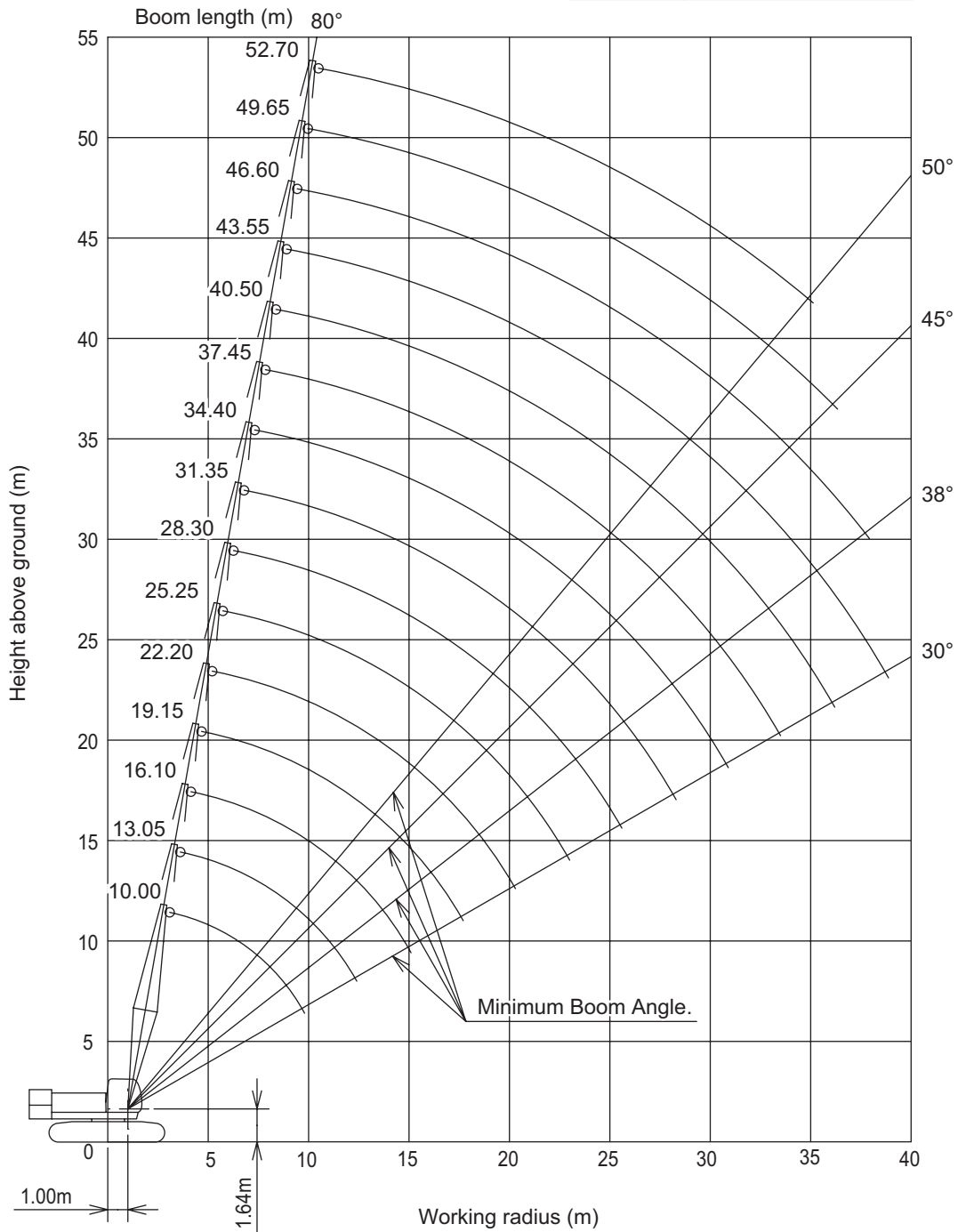
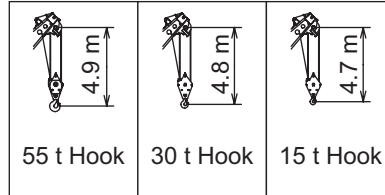
Jib Pendant Rope

| Length (m) | Rope Diameter (mm) | Imprint |
|------------|--------------------|------------------------|
| 2.03 | 20 | □ • △ • 20 • 2.03 • C |
| 5.73 | 20 | □ • △ • 20 • 5.73 • C |
| 14.00 | 20 | □ • △ • 20 • 14.0 • C |
| 28.19 | 20 | □ • △ • 20 • 28.19 • C |

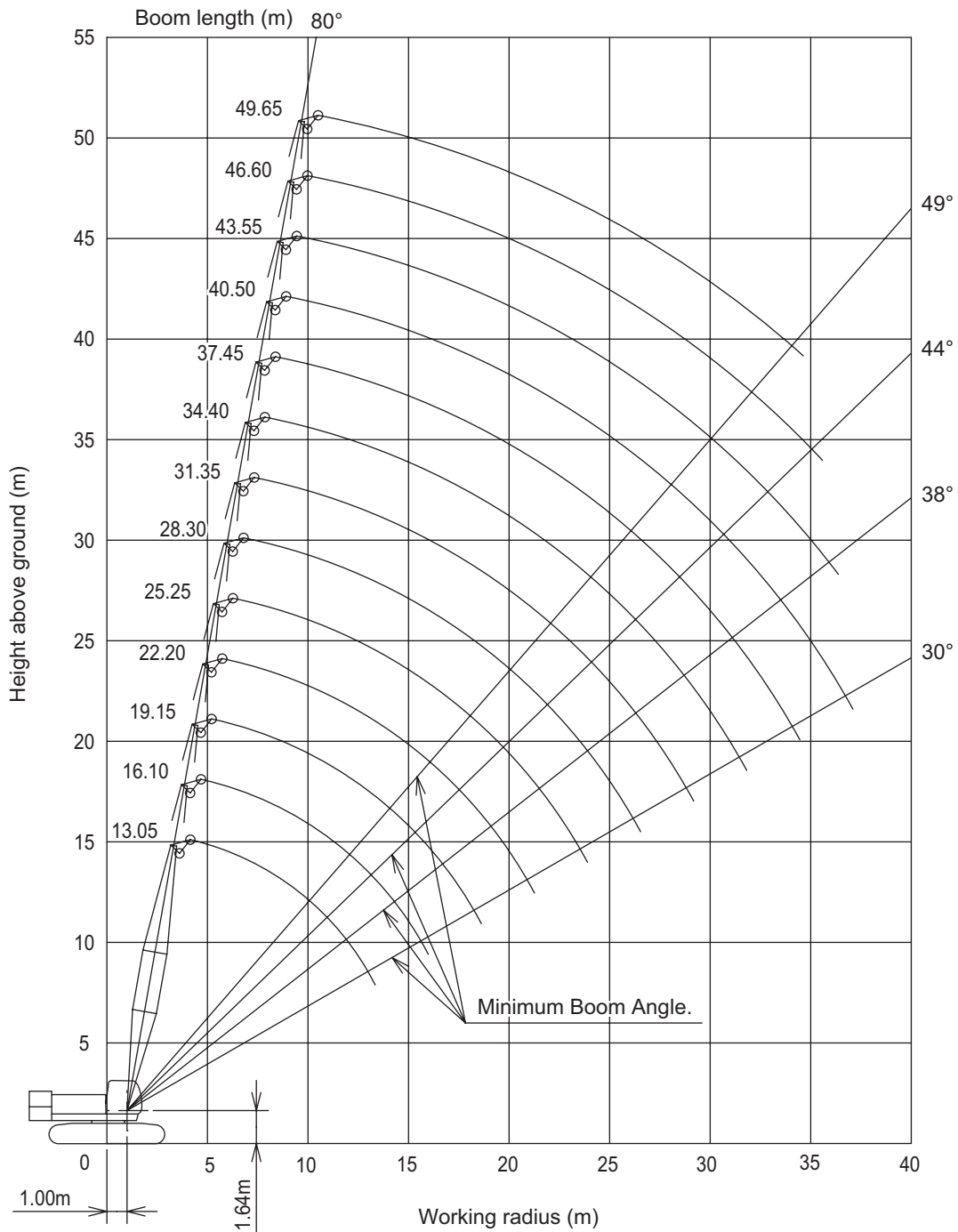
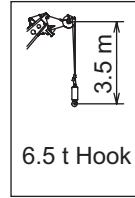


Working Ranges

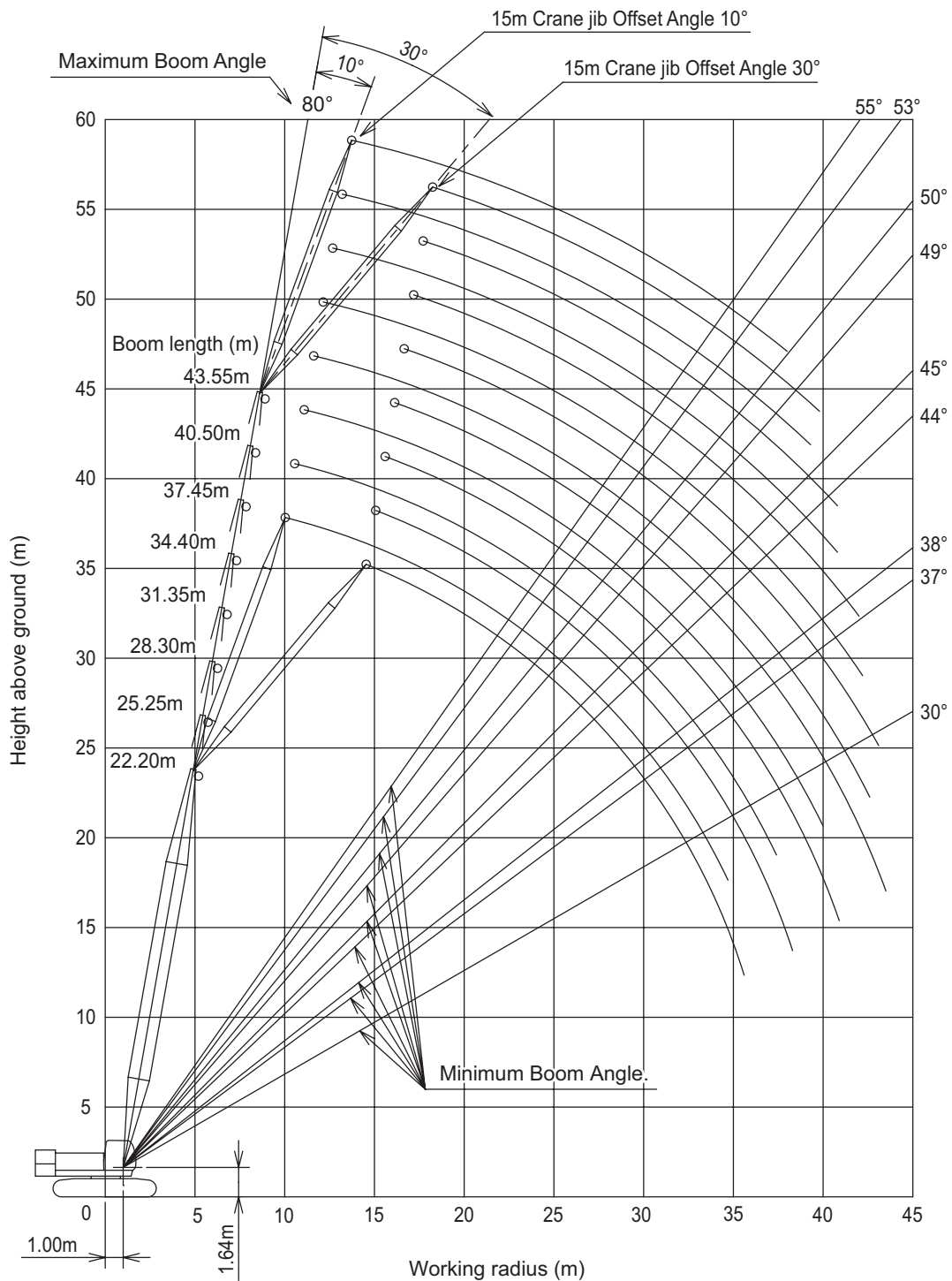
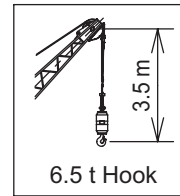
Main Boom



■ Aux. Sheave



■ Crane Jib



Gross Rated Load Table

Main Boom



Unit:ton

| Working radius (m) | Boom length (m) | | | | | | | | Working radius (m) |
|--------------------|-----------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|--------------------|
| | 10.00 | 13.05 | 16.10 | 19.15 | 22.20 | 25.25 | 28.30 | 31.35 | |
| 3.1 | 55.00 | | | | | | | | 3.1 |
| 3.5 | 55.00 | 55.00/3.7 | | | | | | | 3.5 |
| 4.0 | 50.55 | 49.30 | 44.65/4.2 | | | | | | 4.0 |
| 4.5 | 41.90 | 41.05 | 40.25 | 37.15/4.7 | | | | | 4.5 |
| 5.0 | 35.70 | 35.05 | 34.50 | 33.95 | 31.70/5.2 | | | | 5.0 |
| 5.5 | 31.00 | 30.50 | 30.10 | 29.70 | 29.30 | 26.90/5.8 | | | 5.5 |
| 6.0 | 27.35 | 26.95 | 26.65 | 26.35 | 26.00 | 25.70 | 23.80/6.3 | 21.25/6.8 | 6.0 |
| 7.0 | 22.10 | 21.80 | 21.55 | 21.35 | 21.15 | 20.90 | 20.70 | 20.45 | 7.0 |
| 8.0 | 18.45 | 18.25 | 18.05 | 17.90 | 17.70 | 17.50 | 17.35 | 17.15 | 8.0 |
| 9.0 | 15.80 | 15.60 | 15.45 | 15.35 | 15.20 | 15.00 | 14.90 | 14.75 | 9.0 |
| 10.0 | 13.55/9.8 | 13.65 | 13.50 | 13.40 | 13.25 | 13.10 | 13.00 | 12.85 | 10.0 |
| 12.0 | | 10.80 | 10.65 | 10.60 | 10.45 | 10.35 | 10.25 | 10.10 | 12.0 |
| 14.0 | | 10.35/12.4 | 8.75 | 8.70 | 8.55 | 8.45 | 8.35 | 8.25 | 14.0 |
| 16.0 | | | 7.95/15.1 | 7.30 | 7.20 | 7.10 | 7.00 | 6.90 | 16.0 |
| 18.0 | | | | 6.40/17.7 | 6.15 | 6.05 | 5.95 | 5.85 | 18.0 |
| 20.0 | | | | | 5.35 | 5.25 | 5.15 | 5.05 | 20.0 |
| 22.0 | | | | | 5.25/20.3 | 4.60 | 4.50 | 4.40 | 22.0 |
| 24.0 | | | | | | 4.35/23.0 | 3.95 | 3.85 | 24.0 |
| 26.0 | | | | | | | 3.60/25.6 | 3.45 | 26.0 |
| 28.0 | | | | | | | | 3.05 | 28.0 |
| 30.0 | | | | | | | | 3.00/28.3 | 30.0 |

Unit:ton

| Working radius (m) | Boom length (m) | | | | | | | Working radius (m) |
|--------------------|-----------------|-----------|-----------|-------|-----------|-----------|-----------|--------------------|
| | 34.40 | 37.45 | 40.50 | 43.55 | 46.60 | 49.65 | 52.70 | |
| 7.0 | 18.80/7.4 | 16.40/7.9 | | | | | | 7.0 |
| 8.0 | 17.05 | 16.40 | 14.20/8.4 | | | | | 8.0 |
| 9.0 | 14.60 | 14.45 | 14.20 | 12.35 | 10.60/9.5 | | | 9.0 |
| 10.0 | 12.75 | 12.60 | 12.45 | 12.20 | 10.55 | 9.20 | 7.90/10.5 | 10.0 |
| 12.0 | 10.00 | 9.90 | 9.75 | 9.65 | 9.60 | 8.65 | 7.30 | 12.0 |
| 14.0 | 8.15 | 8.05 | 7.95 | 7.80 | 7.75 | 7.65 | 6.40 | 14.0 |
| 16.0 | 6.80 | 6.70 | 6.60 | 6.50 | 6.45 | 6.30 | 5.65 | 16.0 |
| 18.0 | 5.80 | 5.70 | 5.55 | 5.45 | 5.40 | 5.30 | 5.05 | 18.0 |
| 20.0 | 4.95 | 4.85 | 4.75 | 4.65 | 4.60 | 4.50 | 4.40 | 20.0 |
| 22.0 | 4.30 | 4.20 | 4.10 | 4.00 | 3.95 | 3.85 | 3.75 | 22.0 |
| 24.0 | 3.80 | 3.70 | 3.55 | 3.45 | 3.40 | 3.35 | 3.20 | 24.0 |
| 26.0 | 3.35 | 3.25 | 3.15 | 3.05 | 2.95 | 2.90 | 2.75 | 26.0 |
| 28.0 | 2.95 | 2.85 | 2.75 | 2.65 | 2.55 | 2.45 | 2.30 | 28.0 |
| 30.0 | 2.65 | 2.55 | 2.40 | 2.30 | 2.20 | 2.10 | 1.95 | 30.0 |
| 32.0 | 2.50/30.9 | 2.25 | 2.10 | 2.00 | 1.90 | 1.75 | 1.65 | 32.0 |
| 34.0 | | 2.05/33.5 | 1.85 | 1.70 | 1.60 | 1.50 | 1.35 | 34.0 |
| 36.0 | | | 1.60 | 1.45 | 1.35 | 1.25 | 1.20/35.4 | 36.0 |
| 38.0 | | | 1.55/36.2 | 1.25 | 1.20/37.7 | 1.20/36.6 | | 38.0 |
| 38.7 | | | | 1.20 | | | | 38.7 |

- Notes: 1. Capacities are the maximum allowable and based on machine standing level on firm supporting surface under ideal job conditions.
 2. Capacities are in metric tones, and are not more than 78% of minimum tipping loads except the figures surrounded by bold lines which are based on other factor of machine structural strength limitation; the design codes/standards applied to the capacities are from "Construction Codes for Mobile Crane" and "Ordinance on Safety of Crane and Similar Equipment" issued by Ministry of Health, Labour and Welfare, Japan.
 3. Capacities are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stop of loads, supporting surface conditions and operating speed. Operator must reduce load ratings to take such conditions into account.
 4. Deduction from rated capacities must be made for weight of hook block, hook ball, sling, spreader bar or any suspended gear.
 5. 17.0ton counterweight is required for all capacities on this chart.

| Hook Capacity | Hook Weight (t) | Maximum Rated Load (t) | | | | | | | | | |
|---------------|-----------------|------------------------|---------|---------|---------|---------|---------|---------|---------|--------|-----|
| | | 9 Parts | 8 Parts | 7 Parts | 6 Parts | 5 Parts | 4 Parts | 3 Parts | 2 Parts | 1 Part | |
| 55t | 4 sheaves | 0.70 | 55.0 | 52.0 | 45.5 | 39.0 | 32.5 | 26.0 | 19.5 | 13.0 | - |
| 30t | 3 sheaves | 0.36 | - | - | - | - | 30.0 | 26.0 | 19.5 | 13.0 | - |
| 15t | 1 sheave | 0.32 | - | - | - | - | - | - | 15.0 | 13.0 | - |
| 6.5t | | 0.18 | - | - | - | - | - | - | - | - | 6.5 |

Aux. Sheave



| Working radius (m) | Boom length (m) | | | | | | | | Working radius (m) |
|--------------------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|----------|--------------------|
| | 13.05 | 16.10 | 19.15 | 22.20 | 25.25 | 28.30 | 31.35 | 34.40 | |
| 4.0 | 6.50/4.4 | | | | | | | | 4.0 |
| 4.5 | 6.50 | | | | | | | | 4.5 |
| 5.0 | 6.50 | 6.50 | | | | | | | 5.0 |
| 5.5 | 6.50 | 6.50 | 6.50 | | | | | | 5.5 |
| 6.0 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50/6.5 | | | | 6.0 |
| 7.0 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50/7.1 | 6.50/7.6 | | 7.0 |
| 8.0 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50/8.1 | 8.0 |
| 9.0 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 9.0 |
| 10.0 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 10.0 |
| 12.0 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 12.0 |
| 14.0 | 6.50/13.5 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 14.0 |
| 16.0 | | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 16.0 |
| 18.0 | | 6.50/16.2 | 6.20 | 6.10 | 6.00 | 5.90 | 5.80 | 5.75 | 18.0 |
| 20.0 | | | 5.85/18.8 | 5.25 | 5.15 | 5.05 | 4.95 | 4.90 | 20.0 |
| 22.0 | | | | 4.75/21.4 | 4.50 | 4.40 | 4.30 | 4.20 | 22.0 |
| 24.0 | | | | | 3.95 | 3.85 | 3.75 | 3.65 | 24.0 |
| 26.0 | | | | | 3.95/24.1 | 3.40 | 3.30 | 3.20 | 26.0 |
| 28.0 | | | | | | 3.25/26.7 | 2.90 | 2.80 | 28.0 |
| 30.0 | | | | | | | 2.70/29.4 | 2.50 | 30.0 |
| 32.0 | | | | | | | | 2.20 | 32.0 |

| Working radius (m) | Boom length (m) | | | | | Working radius (m) |
|--------------------|-----------------|----------|-----------|-----------|-----------|--------------------|
| | 37.45 | 40.50 | 43.55 | 46.60 | 49.65 | |
| 8.0 | 6.50/8.7 | | | | | 8.0 |
| 9.0 | 6.50 | 6.50/9.2 | 6.50/9.7 | | | 9.0 |
| 10.0 | 6.50 | 6.50 | 6.50 | 6.50/10.3 | 6.25/10.8 | 10.0 |
| 12.0 | 6.50 | 6.50 | 6.50 | 6.50 | 6.10 | 12.0 |
| 14.0 | 6.50 | 6.50 | 6.50 | 6.50 | 5.85 | 14.0 |
| 16.0 | 6.50 | 6.50 | 6.50 | 6.50 | 5.65 | 16.0 |
| 18.0 | 5.65 | 5.55 | 5.45 | 5.40 | 5.30 | 18.0 |
| 20.0 | 4.80 | 4.70 | 4.60 | 4.55 | 4.45 | 20.0 |
| 22.0 | 4.15 | 4.00 | 3.90 | 3.85 | 3.75 | 22.0 |
| 24.0 | 3.55 | 3.45 | 3.35 | 3.30 | 3.20 | 24.0 |
| 26.0 | 3.10 | 3.00 | 2.90 | 2.85 | 2.70 | 26.0 |
| 28.0 | 2.70 | 2.60 | 2.45 | 2.40 | 2.25 | 28.0 |
| 30.0 | 2.40 | 2.20 | 2.10 | 2.00 | 1.90 | 30.0 |
| 32.0 | 2.05 | 1.90 | 1.75 | 1.70 | 1.55 | 32.0 |
| 34.0 | 1.80 | 1.65 | 1.50 | 1.40 | 1.25 | 34.0 |
| 36.0 | 1.70/34.6 | 1.40 | 1.25 | 1.20/35.7 | 1.20/34.7 | 36.0 |
| 37.3 | | 1.25 | 1.20/36.7 | | | 37.3 |

Notes: 1. Capacities are the maximum allowable and based on machine standing level on firm supporting surface under ideal job conditions.

2. Capacities are in metric tones, and are not more than 78% of minimum tipping loads except the figures surrounded by bold lines which are based on other factor of machine structural strength limitation; the design codes/standards applied to the capacities are from "Construction Codes for Mobile Crane" and "Ordinance on Safety of Crane and Similar Equipment" issued by Ministry of Health, Labour and Welfare, Japan.

3. Capacities are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stop of loads, supporting surface conditions and operating speed. Operator must reduce load ratings to take such conditions into account.

4. Deduction from rated capacities must be made for weight of hook block, hook ball, sling, spreader bar or any suspended gear.

5. 17.0ton counterweight is required for all capacities on this chart.

| Hook Capacity | Hook Weight (t) | Maximum Rated Load (t) | | | | | | | | |
|---------------|-----------------|------------------------|---------|---------|---------|---------|---------|---------|---------|--------|
| | | 9 Parts | 8 Parts | 7 Parts | 6 Parts | 5 Parts | 4 Parts | 3 Parts | 2 Parts | 1 Part |
| 55t 4 sheaves | 0.70 | 55.0 | 52.0 | 45.5 | 39.0 | 32.5 | 26.0 | 19.5 | 13.0 | - |
| 30t 3 sheaves | 0.36 | - | - | - | - | 30.0 | 26.0 | 19.5 | 13.0 | - |
| 15t 1 sheave | 0.32 | - | - | - | - | - | - | 15.0 | 13.0 | - |
| 6.5t | 0.18 | - | - | - | - | - | - | - | - | 6.5 |

■ Main Boom with Aux. Sheave



| Working radius (m) | Boom length (m) | | | | | | | | Unit:ton |
|--------------------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|------------------|--------------------|
| | 13.05 | 16.10 | 19.15 | 22.20 | 25.25 | 28.30 | 31.35 | 34.40 | Working radius (m) |
| 3.7 | 54.75 | | | | | | | | 3.7 |
| 4.0 | 49.10 | 44.50/4.2 | | | | | | | 4.0 |
| 4.5 | 40.85 | 40.10 | 36.95/4.7 | | | | | | 4.5 |
| 5.0 | 34.90 | 34.30 | 33.80 | 31.50/5.2 | | | | | 5.0 |
| 5.5 | 30.35 | 29.90 | 29.50 | 29.10 | 26.70/5.8 | | | | 5.5 |
| 6.0 | 26.80 | 26.45 | 26.15 | 25.85 | 25.50 | 23.60/6.3 | 21.05/6.8 | | 6.0 |
| 7.0 | 21.65 | 21.40 | 21.20 | 20.95 | 20.70 | 20.50 | 20.25 | 18.25/7.4 | 7.0 |
| 8.0 | 18.05 | 17.90 | 17.70 | 17.55 | 17.35 | 17.15 | 17.00 | 16.85 | 8.0 |
| 9.0 | 15.45 | 15.30 | 15.15 | 15.00 | 14.85 | 14.70 | 14.55 | 14.40 | 9.0 |
| 10.0 | 13.45 | 13.30 | 13.20 | 13.05 | 12.90 | 12.80 | 12.65 | 12.55 | 10.0 |
| 12.0 | 10.65 | 10.50 | 10.40 | 10.30 | 10.15 | 10.05 | 9.90 | 9.80 | 12.0 |
| 14.0 | 10.20/12.4 | 8.60 | 8.50 | 8.40 | 8.25 | 8.15 | 8.05 | 7.95 | 14.0 |
| 16.0 | | 7.80/15.1 | 7.15 | 7.00 | 6.90 | 6.80 | 6.70 | 6.60 | 16.0 |
| 18.0 | | | 6.25/17.7 | 6.00 | 5.90 | 5.80 | 5.65 | 5.60 | 18.0 |
| 20.0 | | | | 5.20 | 5.10 | 4.95 | 4.85 | 4.80 | 20.0 |
| 22.0 | | | | 5.10/20.3 | 4.45 | 4.35 | 4.20 | 4.15 | 22.0 |
| 24.0 | | | | | 4.15/23.0 | 3.80 | 3.70 | 3.60 | 24.0 |
| 26.0 | | | | | | 3.45/25.6 | 3.25 | 3.15 | 26.0 |
| 28.0 | | | | | | | 2.90 | 2.80 | 28.0 |
| 30.0 | | | | | | | 2.85/28.3 | 2.45 | 30.0 |
| 32.0 | | | | | | | | 2.30/30.9 | 32.0 |

| Working radius (m) | Boom length (m) | | | | | Unit:ton |
|--------------------|------------------|-----------|-----------|-----------|-----------|--------------------|
| | 37.45 | 40.50 | 43.55 | 46.60 | 49.65 | Working radius (m) |
| 7.0 | 15.80/7.9 | | | | | 7.0 |
| 8.0 | 15.80 | 13.65/8.4 | | | | 8.0 |
| 9.0 | 14.25 | 13.60 | 11.80 | 10.00/9.5 | | 9.0 |
| 10.0 | 12.40 | 12.25 | 11.65 | 10.00 | 8.60 | 10.0 |
| 12.0 | 9.70 | 9.55 | 9.45 | 9.30 | 8.10 | 12.0 |
| 14.0 | 7.85 | 7.70 | 7.60 | 7.55 | 7.20 | 14.0 |
| 16.0 | 6.50 | 6.35 | 6.25 | 6.20 | 6.10 | 16.0 |
| 18.0 | 5.50 | 5.35 | 5.25 | 5.20 | 5.10 | 18.0 |
| 20.0 | 4.65 | 4.55 | 4.45 | 4.40 | 4.30 | 20.0 |
| 22.0 | 4.00 | 3.90 | 3.80 | 3.75 | 3.65 | 22.0 |
| 24.0 | 3.50 | 3.35 | 3.25 | 3.20 | 3.05 | 24.0 |
| 26.0 | 3.05 | 2.90 | 2.80 | 2.70 | 2.55 | 26.0 |
| 28.0 | 2.65 | 2.50 | 2.35 | 2.30 | 2.15 | 28.0 |
| 30.0 | 2.30 | 2.15 | 2.00 | 1.90 | 1.80 | 30.0 |
| 32.0 | 2.00 | 1.85 | 1.70 | 1.60 | 1.45 | 32.0 |
| 34.0 | 1.80/33.5 | 1.55 | 1.40 | 1.30 | 1.20 | 34.0 |
| 36.0 | | 1.35 | 1.20 | 1.20/35.2 | 1.20/34.1 | 36.0 |
| 36.2 | | 1.30 | 1.20/36.1 | | | 36.2 |

- Notes: 1. Capacities are the maximum allowable and based on machine standing level on firm supporting surface under ideal job conditions.
 2. Capacities are in metric tones, and are not more than 78% of minimum tipping loads except the figures surrounded by bold lines which are based on other factor of machine structural strength limitation; the design codes/standards applied to the capacities are from "Construction Codes for Mobile Crane" and "Ordinance on Safety of Crane and Similar Equipment" issued by Ministry of Health, Labour and Welfare, Japan.
 3. Capacities are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stop of loads, supporting surface conditions and operating speed. Operator must reduce load ratings to take such conditions into account.
 4. Deduction from rated capacities must be made for weight of hook block, hook ball, sling, spreader bar or any suspended gear.
 5. 17.0ton counterweight is required for all capacities on this chart.

| Hook Capacity | Hook Weight (t) | Maximum Rated Load (t) | | | | | | | | |
|---------------|-----------------|------------------------|---------|---------|---------|---------|---------|---------|---------|--------|
| | | 9 Parts | 8 Parts | 7 Parts | 6 Parts | 5 Parts | 4 Parts | 3 Parts | 2 Parts | 1 Part |
| 55t 4 sheaves | 0.70 | 55.0 | 52.0 | 45.5 | 39.0 | 32.5 | 26.0 | 19.5 | 13.0 | - |
| 30t 3 sheaves | 0.36 | - | - | - | - | 30.0 | 26.0 | 19.5 | 13.0 | - |
| 15t 1 sheave | 0.32 | - | - | - | - | - | - | 15.0 | 13.0 | - |
| 6.5t | 0.18 | - | - | - | - | - | - | - | - | 6.5 |

Crane Jib



| 22.20 | | | | | | | | | | Unit:ton |
|--------------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------------|----------|
| Boom length (m) | | | | | | | | | Boom length (m) | |
| Jib length (m) | 6 | | 9 | | 12 | | 15 | | Jib length (m) | |
| Offset angle (deg) | 10 | 30 | 10 | 30 | 10 | 30 | 10 | 30 | Offset angle (deg) | |
| Radius (m) | | | | | | | | | Radius (m) | |
| 7.5 | 6.50 | | | | | | | | 7.5 | |
| 8.0 | 6.50 | | 5.00 /8.5 | | | | | | 8.0 | |
| 9.0 | 6.50 | 6.50 /9.3 | 5.00 | | 4.10 /9.6 | | | | 9.0 | |
| 10.0 | 6.50 | 6.50 | 5.00 | 5.00 /11.2 | 4.10 | | 3.30 /10.6 | | 10.0 | |
| 12.0 | 6.50 | 6.50 | 5.00 | 5.00 | 4.10 | 4.10 /13.2 | 3.30 | | 12.0 | |
| 14.0 | 6.50 | 6.50 | 5.00 | 5.00 | 4.10 | 4.10 | 3.30 | 3.30 /15.1 | 14.0 | |
| 16.0 | 6.50 | 6.50 | 5.00 | 5.00 | 4.10 | 4.10 | 3.30 | 3.30 | 16.0 | |
| 18.0 | 6.10 | 6.20 | 5.00 | 5.00 | 4.10 | 4.00 | 3.30 | 3.25 | 18.0 | |
| 20.0 | 5.25 | 5.35 | 5.00 | 4.85 | 4.10 | 3.75 | 3.30 | 3.05 | 20.0 | |
| 22.0 | 4.60 | 4.65 | 4.65 | 4.55 | 4.10 | 3.55 | 3.30 | 2.85 | 22.0 | |
| 24.0 | 4.05 | 4.10 | 4.15 | 4.20 | 4.10 | 3.35 | 3.30 | 2.70 | 24.0 | |
| 26.0 | 3.45 | 3.50 | 3.65 | 3.75 | 3.70 | 3.20 | 3.30 | 2.55 | 26.0 | |
| 28.0 | 3.45 /26.3 | 3.35 /26.6 | 3.15 | 3.35 | 3.35 | 3.05 | 3.10 | 2.45 | 28.0 | |
| 30.0 | | | 3.00 /29.1 | 2.85 /29.6 | 2.90 | 2.95 | 2.85 | 2.30 | 30.0 | |
| 32.0 | | | | | 2.55 /31.9 | 2.65 | 2.65 | 2.25 | 32.0 | |
| 34.0 | | | | | | 2.50 /32.6 | 2.40 | 2.20 | 34.0 | |
| 36.0 | | | | | | | 2.05 /34.7 | 2.10 /35.6 | 36.0 | |

| 25.25 | | | | | | | | | | Unit:ton |
|--------------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------------|----------|
| Boom length (m) | | | | | | | | | Boom length (m) | |
| Jib length (m) | 6 | | 9 | | 12 | | 15 | | Jib length (m) | |
| Offset angle (deg) | 10 | 30 | 10 | 30 | 10 | 30 | 10 | 30 | Offset angle (deg) | |
| Radius (m) | | | | | | | | | Radius (m) | |
| 8.0 | 6.50 | | | | | | | | 8.0 | |
| 9.0 | 6.50 | 6.50 /9.8 | 5.00 /9.1 | | | | | | 9.0 | |
| 10.0 | 6.50 | 6.50 | 5.00 | 5.00 /11.8 | 4.10 /10.1 | | 3.30 /11.2 | | 10.0 | |
| 12.0 | 6.50 | 6.50 | 5.00 | 5.00 | 4.10 | 4.10 /13.7 | 3.30 | | 12.0 | |
| 14.0 | 6.50 | 6.50 | 5.00 | 5.00 | 4.10 | 4.10 | 3.30 | 3.30 /15.7 | 14.0 | |
| 16.0 | 6.50 | 6.50 | 5.00 | 5.00 | 4.10 | 4.10 | 3.30 | 3.30 | 16.0 | |
| 18.0 | 5.95 | 6.10 | 5.00 | 5.00 | 4.10 | 4.10 | 3.30 | 3.30 | 18.0 | |
| 20.0 | 5.15 | 5.25 | 5.00 | 5.00 | 4.10 | 3.85 | 3.30 | 3.15 | 20.0 | |
| 22.0 | 4.50 | 4.55 | 4.55 | 4.70 | 4.10 | 3.65 | 3.30 | 2.95 | 22.0 | |
| 24.0 | 3.95 | 4.00 | 4.00 | 4.10 | 3.90 | 3.45 | 3.30 | 2.80 | 24.0 | |
| 26.0 | 3.50 | 3.55 | 3.55 | 3.65 | 3.60 | 3.30 | 3.30 | 2.65 | 26.0 | |
| 28.0 | 3.00 | 3.05 | 3.20 | 3.25 | 3.25 | 3.20 | 3.15 | 2.55 | 28.0 | |
| 30.0 | 2.80 /28.9 | 2.75 /29.3 | 2.75 | 2.90 | 2.90 | 3.00 | 2.95 | 2.45 | 30.0 | |
| 32.0 | | | 2.45 /31.7 | 2.40 | 2.55 | 2.65 | 2.65 | 2.35 | 32.0 | |
| 34.0 | | | | 2.40 /32.3 | 2.20 | 2.30 | 2.40 | 2.25 | 34.0 | |
| 36.0 | | | | | 1.90 /34.5 | 1.95 /35.3 | 2.05 | 2.15 | 36.0 | |
| 38.0 | | | | | | | 2.00 /37.4 | 2.00 | 38.0 | |
| 38.3 | | | | | | | | 1.95 | 38.3 | |

- Notes: 1. Capacities are the maximum allowable and based on machine standing level on firm supporting surface under ideal job conditions.
- 2. Capacities are in metric tones, and are not more than 78% of minimum tipping loads except the figures surrounded by bold lines which are based on other factor of machine structural strength limitation; the design codes/standards applied to the capacities are from "Construction Codes for Mobile Crane" and "Ordinance on Safety of Crane and Similar Equipment" issued by Ministry of Health, Labour and Welfare, Japan.
- 3. Capacities are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stop of loads, supporting surface conditions and operating speed. Operator must reduce load ratings to take such conditions into account.
- 4. Deduction from rated capacities must be made for weight of hook block, hook ball, sling, spreader bar or any suspended gear.
- 5. 17.0ton counterweight is required for all capacities on this chart.

| Hook Capacity | Hook Weight (t) | Maximum Rated Load (t) | | | | | | | | |
|---------------|-----------------|------------------------|---------|---------|---------|---------|---------|---------|---------|--------|
| | | 9 Parts | 8 Parts | 7 Parts | 6 Parts | 5 Parts | 4 Parts | 3 Parts | 2 Parts | 1 Part |
| 55t 4 sheaves | 0.70 | 55.0 | 52.0 | 45.5 | 39.0 | 32.5 | 26.0 | 19.5 | 13.0 | - |
| 30t 3 sheaves | 0.36 | - | - | - | - | 30.0 | 26.0 | 19.5 | 13.0 | - |
| 15t 1 sheave | 0.32 | - | - | - | - | - | - | 15.0 | 13.0 | - |
| 6.5t | 0.18 | - | - | - | - | - | - | - | - | 6.5 |

■ Crane Jib



| Boom length (m) | | 28.30 | | | | | | | | Unit:ton | |
|--------------------|------------|------------|----|------------|------------|------------|------------|------------|------------|--------------------|------|
| Jib length (m) | | 6 | | 9 | | 12 | | 15 | | Boom length (m) | |
| Offset angle (deg) | | 10 | 30 | 10 | 30 | 10 | 30 | 10 | 30 | Jib length (m) | |
| Radius (m) | | | | | | | | | | Offset angle (deg) | |
| | | | | | | | | | | Radius (m) | |
| 8.6 | 6.50 | | | | | | | | | | 8.6 |
| 9.0 | 6.50 | | | 5.00 /9.6 | | | | | | | 9.0 |
| 10.0 | 6.50 | 6.50 /10.4 | | 5.00 | | 4.10 /10.7 | | 3.30 /11.7 | | | 10.0 |
| 12.0 | 6.50 | 6.50 | | 5.00 | 5.00 /12.3 | 4.10 | | 3.30 | | | 12.0 |
| 14.0 | 6.50 | 6.50 | | 5.00 | 5.00 | 4.10 | 4.10 /14.3 | 3.30 | | | 14.0 |
| 16.0 | 6.50 | 6.50 | | 5.00 | 5.00 | 4.10 | 4.10 | 3.30 | 3.30 /16.2 | | 16.0 |
| 18.0 | 5.85 | 6.00 | | 5.00 | 5.00 | 4.10 | 4.10 | 3.30 | 3.30 | | 18.0 |
| 20.0 | 5.05 | 5.15 | | 5.00 | 5.00 | 4.10 | 4.00 | 3.30 | 3.20 | | 20.0 |
| 22.0 | 4.40 | 4.45 | | 4.45 | 4.60 | 4.10 | 3.75 | 3.30 | 3.05 | | 22.0 |
| 24.0 | 3.85 | 3.90 | | 3.90 | 4.05 | 3.95 | 3.60 | 3.30 | 2.90 | | 24.0 |
| 26.0 | 3.40 | 3.45 | | 3.45 | 3.55 | 3.50 | 3.40 | 3.30 | 2.75 | | 26.0 |
| 28.0 | 3.00 | 3.05 | | 3.05 | 3.15 | 3.10 | 3.20 | 3.15 | 2.60 | | 28.0 |
| 30.0 | 2.60 | 2.60 | | 2.75 | 2.80 | 2.80 | 2.90 | 2.85 | 2.50 | | 30.0 |
| 32.0 | 2.30 /31.5 | 2.30 /31.9 | | 2.35 | 2.40 | 2.50 | 2.60 | 2.55 | 2.40 | | 32.0 |
| 34.0 | | | | 2.05 | 2.10 | 2.20 | 2.30 | 2.30 | 2.30 | | 34.0 |
| 36.0 | | | | 2.00 /34.4 | 2.00 /34.9 | 1.85 | 1.85 /37.2 | 1.85 | 1.90 | | 36.0 |
| 38.0 | | | | | | | | | | | 38.0 |
| 40.0 | | | | | | | | | | | 40.0 |
| 40.9 | | | | | | | | | 1.60 | | 40.9 |

| Boom length (m) | | 31.35 | | | | | | | | Unit:ton | |
|--------------------|------------|------------|----|------------|------------|------------|------------|------------|------------|--------------------|------|
| Jib length (m) | | 6 | | 9 | | 12 | | 15 | | Boom length (m) | |
| Offset angle (deg) | | 10 | 30 | 10 | 30 | 10 | 30 | 10 | 30 | Jib length (m) | |
| Radius (m) | | | | | | | | | | Offset angle (deg) | |
| | | | | | | | | | | Radius (m) | |
| 9.1 | 6.50 | | | | | | | | | | 9.1 |
| 10.0 | 6.50 | 6.50 /10.9 | | 5.00 /10.2 | | 4.10 /11.2 | | | | | 10.0 |
| 12.0 | 6.50 | 6.50 | | 5.00 | 5.00 /12.9 | 4.10 | | 3.30 /12.3 | | | 12.0 |
| 14.0 | 6.50 | 6.50 | | 5.00 | 5.00 | 4.10 | 4.10 /14.8 | 3.30 | | | 14.0 |
| 16.0 | 6.50 | 6.50 | | 5.00 | 5.00 | 4.10 | 4.10 | 3.30 | 3.30 /16.8 | | 16.0 |
| 18.0 | 5.75 | 5.90 | | 5.00 | 5.00 | 4.10 | 4.10 | 3.30 | 3.30 | | 18.0 |
| 20.0 | 4.95 | 5.05 | | 5.00 | 5.00 | 4.10 | 4.10 | 3.30 | 3.30 | | 20.0 |
| 22.0 | 4.25 | 4.35 | | 4.35 | 4.50 | 4.10 | 3.90 | 3.30 | 3.10 | | 22.0 |
| 24.0 | 3.75 | 3.80 | | 3.80 | 3.95 | 3.85 | 3.70 | 3.30 | 2.95 | | 24.0 |
| 26.0 | 3.30 | 3.35 | | 3.35 | 3.45 | 3.40 | 3.45 | 3.30 | 2.80 | | 26.0 |
| 28.0 | 2.90 | 2.95 | | 2.95 | 3.05 | 3.00 | 3.15 | 3.05 | 2.70 | | 28.0 |
| 30.0 | 2.50 | 2.55 | | 2.65 | 2.70 | 2.70 | 2.80 | 2.70 | 2.60 | | 30.0 |
| 32.0 | 2.25 | 2.25 | | 2.30 | 2.40 | 2.40 | 2.50 | 2.45 | 2.50 | | 32.0 |
| 34.0 | 2.00 | 1.95 | | 2.05 | 2.10 | 2.15 | 2.20 | 2.20 | 2.30 | | 34.0 |
| 36.0 | 1.90 /34.2 | 1.90 /34.5 | | 1.80 | 1.80 | 1.90 | 1.95 | 1.95 | 2.05 | | 36.0 |
| 38.0 | | | | 1.70 /37.0 | 1.70 /37.5 | 1.65 | 1.70 | 1.70 | 1.80 | | 38.0 |
| 40.0 | | | | | | | | | | | 40.0 |
| 42.0 | | | | | | | 1.50 /39.8 | 1.50 | 1.60 | | 42.0 |
| 44.0 | | | | | | | | 1.45 /40.5 | 1.35 | 1.40 | 44.0 |
| | | | | | | | | | 1.30 /42.6 | 1.25 /43.5 | |

| Boom length (m) | | 34.40 | | | | | | | | Unit:ton | |
|--------------------|------------|------------|----|------------|------------|------------|------------|------------|------------|--------------------|------|
| Jib length (m) | | 6 | | 9 | | 12 | | 15 | | Boom length (m) | |
| Offset angle (deg) | | 10 | 30 | 10 | 30 | 10 | 30 | 10 | 30 | Jib length (m) | |
| Radius (m) | | | | | | | | | | Offset angle (deg) | |
| | | | | | | | | | | Radius (m) | |
| 9.7 | 6.50 | | | | | | | | | | 9.7 |
| 10.0 | 6.50 | 6.50 /11.5 | | 5.00 /10.7 | | 4.10 /11.8 | | | | | 10.0 |
| 12.0 | 6.50 | 6.50 | | 5.00 | 5.00 /13.4 | 4.10 | | 3.30 /12.8 | | | 12.0 |
| 14.0 | 6.50 | 6.50 | | 5.00 | 5.00 | 4.10 | 4.10 /15.4 | 3.30 | | | 14.0 |
| 16.0 | 6.50 | 6.50 | | 5.00 | 5.00 | 4.10 | 4.10 | 3.30 | 3.30 /17.3 | | 16.0 |
| 18.0 | 5.65 | 5.80 | | 5.00 | 5.00 | 4.10 | 4.10 | 3.30 | 3.30 | | 18.0 |
| 20.0 | 4.85 | 5.00 | | 4.90 | 5.00 | 4.10 | 4.10 | 3.30 | 3.30 | | 20.0 |
| 22.0 | 4.20 | 4.30 | | 4.25 | 4.45 | 4.10 | 3.95 | 3.30 | 3.20 | | 22.0 |
| 24.0 | 3.65 | 3.75 | | 3.70 | 3.85 | 3.75 | 3.80 | 3.30 | 3.05 | | 24.0 |
| 26.0 | 3.20 | 3.25 | | 3.25 | 3.40 | 3.30 | 3.50 | 3.30 | 2.90 | | 26.0 |
| 28.0 | 2.80 | 2.85 | | 2.85 | 3.00 | 2.90 | 3.10 | 2.95 | 2.75 | | 28.0 |
| 30.0 | 2.45 | 2.55 | | 2.55 | 2.65 | 2.60 | 2.75 | 2.65 | 2.65 | | 30.0 |
| 32.0 | 2.10 | 2.15 | | 2.25 | 2.35 | 2.30 | 2.40 | 2.35 | 2.50 | | 32.0 |
| 34.0 | 1.85 | 1.85 | | 1.90 | 2.05 | 2.00 | 2.15 | 2.05 | 2.25 | | 34.0 |
| 36.0 | 1.65 | 1.65 | | 1.50 | 1.75 | 1.75 | 1.85 | 1.80 | 1.95 | | 36.0 |
| 38.0 | 1.55 /36.8 | 1.50 /37.2 | | 1.45 | 1.50 | 1.55 | 1.60 | 1.60 | 1.70 | | 38.0 |
| 40.0 | | | | 1.30 /39.6 | 1.30 | 1.35 | 1.40 | 1.40 | 1.50 | | 40.0 |
| 42.0 | | | | | 1.30 /40.2 | 1.20 /41.7 | 1.20 | 1.20 | 1.30 | | 42.0 |
| 44.0 | | | | | | | 1.20 /42.2 | 1.20 /42.2 | 1.20 /43.1 | | 44.0 |

Crane Jib



| 37.45 | | | | | | | | | | Unit:ton |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------------------|----------|
| Boom length (m) | | | | | | | | | Boom length (m) | |
| Jib length (m) | 6 | | 9 | | 12 | | 15 | | Jib length (m) | |
| Offset angle (deg) | 10 | 30 | 10 | 30 | 10 | 30 | 10 | 30 | Offset angle (deg) | |
| Radius (m) | | | | | | | | | Radius (m) | |
| 10.2 | 6.50 | | 5.00/11.3 | | | | | | 10.2 | |
| 12.0 | 6.50 | 6.50 | 5.00 | | 4.10/12.3 | | 3.30/13.4 | | 12.0 | |
| 14.0 | 6.50 | 6.50 | 5.00 | 5.00 | 4.10 | 4.10/15.9 | 3.30 | | 14.0 | |
| 16.0 | 6.30 | 6.50 | 5.00 | 5.00 | 4.10 | 4.10 | 3.30 | 3.30/17.9 | 16.0 | |
| 18.0 | 5.55 | 5.75 | 5.00 | 5.00 | 4.10 | 4.10 | 3.30 | 3.30 | 18.0 | |
| 20.0 | 4.75 | 4.90 | 4.80 | 5.00 | 4.10 | 4.10 | 3.30 | 3.30 | 20.0 | |
| 22.0 | 4.05 | 4.20 | 4.15 | 4.35 | 4.10 | 4.05 | 3.30 | 3.25 | 22.0 | |
| 24.0 | 3.55 | 3.65 | 3.60 | 3.80 | 3.65 | 3.80 | 3.30 | 3.10 | 24.0 | |
| 26.0 | 3.10 | 3.15 | 3.15 | 3.30 | 3.20 | 3.40 | 3.15 | 2.95 | 26.0 | |
| 28.0 | 2.70 | 2.75 | 2.75 | 2.90 | 2.80 | 3.00 | 2.85 | 2.85 | 28.0 | |
| 30.0 | 2.35 | 2.45 | 2.40 | 2.55 | 2.50 | 2.65 | 2.55 | 2.65 | 30.0 | |
| 32.0 | 2.00 | 2.10 | 2.10 | 2.20 | 2.15 | 2.35 | 2.25 | 2.40 | 32.0 | |
| 34.0 | 1.70 | 1.75 | 1.80 | 1.90 | 1.90 | 2.05 | 1.95 | 2.15 | 34.0 | |
| 36.0 | 1.50 | 1.55 | 1.55 | 1.65 | 1.65 | 1.75 | 1.70 | 1.85 | 36.0 | |
| 38.0 | 1.25 | 1.30 | 1.35 | 1.40 | 1.40 | 1.50 | 1.45 | 1.60 | 38.0 | |
| 40.0 | 1.20/39.0 | 1.20/39.1 | 1.20/39.6 | 1.20 | 1.20 | 1.30 | 1.25 | 1.40 | 40.0 | |
| 42.0 | | | | 1.20/40.1 | 1.20/40.2 | 1.20/41.1 | 1.20/40.8 | 1.20 | 42.0 | |

| 40.50 | | | | | | | | | | Unit:ton |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------------------|----------|
| Boom length (m) | | | | | | | | | Boom length (m) | |
| Jib length (m) | 6 | | 9 | | 12 | | 15 | | Jib length (m) | |
| Offset angle (deg) | 10 | 30 | 10 | 30 | 10 | 30 | 10 | 30 | Offset angle (deg) | |
| Radius (m) | | | | | | | | | Radius (m) | |
| 10.8 | 6.50 | | 5.00/11.9 | | | | | | 10.8 | |
| 12.0 | 6.50 | 6.50/12.6 | 5.00 | | 4.10/12.9 | | | | 12.0 | |
| 14.0 | 6.50 | 6.50 | 5.00 | 5.00/14.5 | 4.10 | | 3.30 | | 14.0 | |
| 16.0 | 6.45 | 6.50 | 5.00 | 5.00 | 4.10 | 4.10/16.5 | 3.30 | | 16.0 | |
| 18.0 | 5.45 | 5.60 | 5.00 | 5.00 | 4.10 | 4.10 | 3.30 | 3.30/18.4 | 18.0 | |
| 20.0 | 4.60 | 4.80 | 4.70 | 4.95 | 4.10 | 4.10 | 3.30 | 3.30 | 20.0 | |
| 22.0 | 3.95 | 4.10 | 4.05 | 4.25 | 4.10 | 4.10 | 3.30 | 3.30 | 22.0 | |
| 24.0 | 3.40 | 3.55 | 3.50 | 3.70 | 3.55 | 3.80 | 3.30 | 3.15 | 24.0 | |
| 26.0 | 2.95 | 3.05 | 3.05 | 3.20 | 3.10 | 3.30 | 3.15 | 3.00 | 26.0 | |
| 28.0 | 2.55 | 2.65 | 2.65 | 2.80 | 2.70 | 2.90 | 2.75 | 2.90 | 28.0 | |
| 30.0 | 2.20 | 2.30 | 2.25 | 2.45 | 2.35 | 2.55 | 2.40 | 2.65 | 30.0 | |
| 32.0 | 1.85 | 1.95 | 1.95 | 2.10 | 2.00 | 2.20 | 2.10 | 2.35 | 32.0 | |
| 34.0 | 1.60 | 1.65 | 1.65 | 1.80 | 1.75 | 1.90 | 1.80 | 2.00 | 34.0 | |
| 36.0 | 1.35 | 1.40 | 1.40 | 1.50 | 1.50 | 1.65 | 1.55 | 1.75 | 36.0 | |
| 38.0 | 1.20/37.4 | 1.20/37.8 | 1.20 | 1.25 | 1.25 | 1.40 | 1.30 | 1.50 | 38.0 | |
| 40.0 | | | 1.20/38.1 | 1.20/38.8 | 1.20/38.7 | 1.20/39.8 | 1.20/39.3 | 1.25 | 40.0 | |

| 43.55 | | | | | | | | | | Unit:ton |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------------------|----------|
| Boom length (m) | | | | | | | | | Boom length (m) | |
| Jib length (m) | 6 | | 9 | | 12 | | 15 | | Jib length (m) | |
| Offset angle (deg) | 10 | 30 | 10 | 30 | 10 | 30 | 10 | 30 | Offset angle (deg) | |
| Radius (m) | | | | | | | | | Radius (m) | |
| 10.0 | 6.50/11.4 | | | | | | | | 10.0 | |
| 12.0 | 6.50 | 6.50/13.2 | 5.00/12.4 | | 4.10/13.5 | | | | 12.0 | |
| 14.0 | 6.50 | 6.50 | 5.00 | 5.00/15.1 | 4.10 | | 3.30/14.5 | | 14.0 | |
| 16.0 | 6.35 | 6.50 | 5.00 | 5.00 | 4.10 | 4.10/17.1 | 3.30 | | 16.0 | |
| 18.0 | 5.30 | 5.50 | 5.00 | 5.00 | 4.10 | 4.10 | 3.30 | 3.30/19.0 | 18.0 | |
| 20.0 | 4.50 | 4.70 | 4.60 | 4.85 | 4.10 | 4.10 | 3.30 | 3.30 | 20.0 | |
| 22.0 | 3.85 | 4.00 | 3.95 | 4.15 | 4.00 | 4.10 | 3.30 | 3.30 | 22.0 | |
| 24.0 | 3.30 | 3.45 | 3.40 | 3.60 | 3.45 | 3.75 | 3.30 | 3.20 | 24.0 | |
| 26.0 | 2.85 | 2.95 | 2.90 | 3.10 | 3.00 | 3.25 | 3.05 | 3.05 | 26.0 | |
| 28.0 | 2.40 | 2.55 | 2.50 | 2.70 | 2.60 | 2.80 | 2.65 | 2.90 | 28.0 | |
| 30.0 | 2.05 | 2.15 | 2.15 | 2.30 | 2.20 | 2.45 | 2.30 | 2.55 | 30.0 | |
| 32.0 | 1.75 | 1.80 | 1.80 | 1.95 | 1.90 | 2.10 | 1.95 | 2.25 | 32.0 | |
| 34.0 | 1.45 | 1.55 | 1.55 | 1.65 | 1.60 | 1.80 | 1.65 | 1.90 | 34.0 | |
| 36.0 | 1.20 | 1.25 | 1.30 | 1.40 | 1.35 | 1.50 | 1.40 | 1.65 | 36.0 | |
| 38.0 | 1.20/36.1 | 1.20/36.7 | 1.20/36.8 | 1.20/37.8 | 1.20/37.5 | 1.25 | 1.20 | 1.40 | 38.0 | |
| 40.0 | | | | | | 1.20/38.8 | | 1.20/39.8 | 40.0 | |

■ Main Boom with Crane Jib



| Unit:ton | | | | | | | | | |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
| Boom length (m) | 22.20 | | | | | | | | Boom length (m) |
| Jib length (m) | 6 | | 9 | | 12 | | 15 | | Jib length (m) |
| Offset angle (deg) | 10 | 30 | 10 | 30 | 10 | 30 | 10 | 30 | Offset angle (deg) |
| Radius (m) | | | | | | | | | Radius (m) |
| 5.2 | 31.20 | 31.05 | 31.05 | 30.75 | 30.85 | 30.45 | 30.60 | 30.05 | 5.2 |
| 5.5 | 28.85 | 28.70 | 28.65 | 28.40 | 28.45 | 28.10 | 28.25 | 27.70 | 5.5 |
| 6.0 | 25.55 | 25.40 | 25.35 | 25.10 | 25.15 | 24.80 | 24.95 | 24.50 | 6.0 |
| 7.0 | 20.65 | 20.50 | 20.45 | 20.30 | 20.25 | 20.00 | 20.05 | 19.70 | 7.0 |
| 8.0 | 17.20 | 17.10 | 17.05 | 16.90 | 16.85 | 16.65 | 16.65 | 16.35 | 8.0 |
| 9.0 | 14.65 | 14.60 | 14.50 | 14.35 | 14.30 | 14.15 | 14.10 | 13.90 | 9.0 |
| 10.0 | 12.70 | 12.65 | 12.55 | 12.45 | 12.40 | 12.20 | 12.20 | 12.00 | 10.0 |
| 12.0 | 9.85 | 9.85 | 9.70 | 9.70 | 9.55 | 9.50 | 9.40 | 9.25 | 12.0 |
| 14.0 | 7.90 | 7.90 | 7.75 | 7.75 | 7.60 | 7.60 | 7.45 | 7.40 | 14.0 |
| 16.0 | 6.50 | 6.50 | 6.35 | 6.35 | 6.20 | 6.20 | 6.05 | 6.05 | 16.0 |
| 18.0 | 5.50 | 5.50 | 5.35 | 5.35 | 5.20 | 5.20 | 5.05 | 5.05 | 18.0 |
| 20.0 | 4.70 | 4.70 | 4.55 | 4.55 | 4.40 | 4.40 | 4.25 | 4.25 | 20.0 |
| 20.3 | 4.60 | 4.60 | 4.45 | 4.45 | 4.30 | 4.30 | 4.15 | 4.15 | 20.3 |

| Unit:ton | | | | | | | | | |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
| Boom length (m) | 25.25 | | | | | | | | Boom length (m) |
| Jib length (m) | 6 | | 9 | | 12 | | 15 | | Jib length (m) |
| Offset angle (deg) | 10 | 30 | 10 | 30 | 10 | 30 | 10 | 30 | Offset angle (deg) |
| Radius (m) | | | | | | | | | Radius (m) |
| 5.8 | 26.45 | 26.30 | 26.25 | 26.00 | 26.05 | 25.70 | 25.85 | 25.40 | 5.8 |
| 6.0 | 25.20 | 25.05 | 25.05 | 24.80 | 24.85 | 24.50 | 24.65 | 24.20 | 6.0 |
| 7.0 | 20.40 | 20.30 | 20.25 | 20.05 | 20.05 | 19.80 | 19.85 | 19.50 | 7.0 |
| 8.0 | 17.00 | 16.90 | 16.85 | 16.70 | 16.70 | 16.45 | 16.50 | 16.20 | 8.0 |
| 9.0 | 14.50 | 14.45 | 14.35 | 14.20 | 14.20 | 14.00 | 14.00 | 13.75 | 9.0 |
| 10.0 | 12.60 | 12.50 | 12.45 | 12.30 | 12.25 | 12.10 | 12.05 | 11.85 | 10.0 |
| 12.0 | 9.80 | 9.75 | 9.65 | 9.55 | 9.50 | 9.35 | 9.30 | 9.15 | 12.0 |
| 14.0 | 7.85 | 7.85 | 7.70 | 7.70 | 7.55 | 7.50 | 7.40 | 7.30 | 14.0 |
| 16.0 | 6.45 | 6.45 | 6.30 | 6.30 | 6.15 | 6.15 | 6.00 | 6.00 | 16.0 |
| 18.0 | 5.40 | 5.40 | 5.25 | 5.25 | 5.10 | 5.10 | 4.95 | 4.95 | 18.0 |
| 20.0 | 4.60 | 4.00 | 4.45 | 4.45 | 4.30 | 4.30 | 4.15 | 4.15 | 20.0 |
| 22.0 | 3.95 | 3.95 | 3.80 | 3.80 | 3.65 | 3.65 | 3.50 | 3.50 | 22.0 |
| 23.0 | 3.75 | 3.75 | 3.60 | 3.60 | 3.45 | 3.45 | 3.30 | 3.30 | 23.0 |

| Unit:ton | | | | | | | | | |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
| Boom length (m) | 28.30 | | | | | | | | Boom length (m) |
| Jib length (m) | 6 | | 9 | | 12 | | 15 | | Jib length (m) |
| Offset angle (deg) | 10 | 30 | 10 | 30 | 10 | 30 | 10 | 30 | Offset angle (deg) |
| Radius (m) | | | | | | | | | Radius (m) |
| 6.3 | 23.30 | 23.20 | 23.15 | 22.95 | 23.00 | 22.65 | 22.80 | 22.35 | 6.3 |
| 7.0 | 20.20 | 20.10 | 20.05 | 19.85 | 19.85 | 19.60 | 19.70 | 19.30 | 7.0 |
| 8.0 | 16.85 | 16.75 | 16.70 | 16.55 | 16.55 | 16.30 | 16.35 | 16.05 | 8.0 |
| 9.0 | 14.40 | 14.30 | 14.20 | 14.10 | 14.05 | 13.85 | 13.90 | 13.60 | 9.0 |
| 10.0 | 12.45 | 12.40 | 12.30 | 12.20 | 12.15 | 12.00 | 12.00 | 11.75 | 10.0 |
| 12.0 | 9.70 | 9.65 | 9.55 | 9.45 | 9.40 | 9.30 | 9.25 | 9.05 | 12.0 |
| 14.0 | 7.75 | 7.75 | 7.60 | 7.60 | 7.45 | 7.45 | 7.30 | 7.25 | 14.0 |
| 16.0 | 6.35 | 6.35 | 6.20 | 6.20 | 6.05 | 6.05 | 5.90 | 5.90 | 16.0 |
| 18.0 | 5.30 | 5.30 | 5.15 | 5.15 | 5.00 | 5.00 | 4.85 | 4.85 | 18.0 |
| 20.0 | 4.50 | 4.50 | 4.35 | 4.35 | 4.20 | 4.20 | 4.05 | 4.05 | 20.0 |
| 22.0 | 3.85 | 3.85 | 3.70 | 3.70 | 3.55 | 3.55 | 3.40 | 3.40 | 22.0 |
| 24.0 | 3.30 | 3.30 | 3.15 | 3.15 | 3.00 | 3.00 | 2.85 | 2.85 | 24.0 |
| 25.6 | 3.00 | 3.00 | 2.85 | 2.85 | 2.70 | 2.70 | 2.55 | 2.55 | 25.6 |

- Notes: 1. Capacities are the maximum allowable and based on machine standing level on firm supporting surface under ideal job conditions.
 2. Capacities are in metric tones, and are not more than 78% of minimum tipping loads except the figures surrounded by bold lines which are based on other factor of machine structural strength limitation; the design codes/standards applied to the capacities are from "Construction Codes for Mobile Crane" and "Ordinance on Safety of Crane and Similar Equipment" issued by Ministry of Health, Labour and Welfare, Japan.
 3. Capacities are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stop of loads, supporting surface conditions and operating speed. Operator must reduce load ratings to take such conditions into account.
 4. Deduction from rated capacities must be made for weight of hook block, hook ball, sling, spreader bar or any suspended gear.
 5. 17.0ton counterweight is required for all capacities on this chart.

| Hook Capacity | Hook Weight (t) | Maximum Rated Load (t) | | | | | | | | | |
|---------------|-----------------|------------------------|---------|---------|---------|---------|---------|---------|---------|--------|--|
| | | 9 Parts | 8 Parts | 7 Parts | 6 Parts | 5 Parts | 4 Parts | 3 Parts | 2 Parts | 1 Part | |
| 55t 4 sheaves | 0.70 | 55.0 | 52.0 | 45.5 | 39.0 | 32.5 | 26.0 | 19.5 | 13.0 | - | |
| 30t 3 sheaves | 0.36 | - | - | - | - | 30.0 | 26.0 | 19.5 | 13.0 | - | |
| 15t 1 sheave | 0.32 | - | - | - | - | - | - | 15.0 | 13.0 | - | |
| 6.5t | 0.18 | - | - | - | - | - | - | - | - | 6.5 | |

■ Main Boom with Crane Jib



| Unit:ton | | | | | | | | | |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
| Boom length (m) | 31.35 | | | | | | | | Boom length (m) |
| Jib length (m) | 6 | | 9 | | 12 | | 15 | | Jib length (m) |
| Offset angle (deg) | 10 | 30 | 10 | 30 | 10 | 30 | 10 | 30 | Offset angle (deg) |
| Radius (m) | | | | | | | | | Radius (m) |
| 6.8 | 20.80 | 20.65 | 20.55 | 20.35 | 20.15 | 19.90 | 19.70 | 19.35 | 6.8 |
| 7.0 | 20.00 | 19.85 | 19.85 | 19.65 | 19.65 | 19.40 | 19.45 | 19.10 | 7.0 |
| 8.0 | 16.70 | 16.60 | 16.55 | 16.35 | 16.35 | 16.15 | 16.20 | 15.85 | 8.0 |
| 9.0 | 14.20 | 14.15 | 14.05 | 13.95 | 13.90 | 13.70 | 13.75 | 13.45 | 9.0 |
| 10.0 | 12.30 | 12.25 | 12.20 | 12.05 | 12.00 | 11.85 | 11.85 | 11.60 | 10.0 |
| 12.0 | 9.60 | 9.55 | 9.45 | 9.35 | 9.30 | 9.15 | 9.15 | 8.95 | 12.0 |
| 14.0 | 7.70 | 7.65 | 7.55 | 7.50 | 7.40 | 7.30 | 7.25 | 7.15 | 14.0 |
| 16.0 | 6.30 | 6.30 | 6.15 | 6.15 | 6.00 | 6.00 | 5.85 | 5.80 | 16.0 |
| 18.0 | 5.25 | 5.25 | 5.10 | 5.10 | 4.95 | 4.95 | 4.80 | 4.80 | 18.0 |
| 20.0 | 4.40 | 4.40 | 4.25 | 4.25 | 4.10 | 4.10 | 3.95 | 3.95 | 20.0 |
| 22.0 | 3.75 | 3.75 | 3.60 | 3.60 | 3.45 | 3.45 | 3.30 | 3.30 | 22.0 |
| 24.0 | 3.25 | 3.25 | 3.10 | 3.10 | 2.95 | 2.95 | 2.80 | 2.80 | 24.0 |
| 26.0 | 2.80 | 2.80 | 2.65 | 2.65 | 2.50 | 2.50 | 2.35 | 2.35 | 26.0 |
| 28.0 | 2.40 | 2.40 | 2.25 | 2.25 | 2.10 | 2.10 | 1.95 | 1.95 | 28.0 |
| 28.3 | 2.40 | 2.40 | 2.25 | 2.25 | 2.10 | 2.10 | 1.90 | 1.90 | 28.3 |

| Unit:ton | | | | | | | | | |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
| Boom length (m) | 34.40 | | | | | | | | Boom length (m) |
| Jib length (m) | 6 | | 9 | | 12 | | 15 | | Jib length (m) |
| Offset angle (deg) | 10 | 30 | 10 | 30 | 10 | 30 | 10 | 30 | Offset angle (deg) |
| Radius (m) | | | | | | | | | Radius (m) |
| 7.4 | 17.80 | 17.70 | 17.45 | 17.30 | 17.10 | 16.85 | 16.65 | 16.35 | 7.4 |
| 8.0 | 16.55 | 16.45 | 16.40 | 16.20 | 16.25 | 16.00 | 16.05 | 15.75 | 8.0 |
| 9.0 | 14.10 | 14.00 | 13.95 | 13.80 | 13.80 | 13.60 | 13.65 | 13.35 | 9.0 |
| 10.0 | 12.20 | 12.15 | 12.10 | 11.95 | 11.95 | 11.75 | 11.75 | 11.50 | 10.0 |
| 12.0 | 9.50 | 9.45 | 9.35 | 9.25 | 9.20 | 9.05 | 9.05 | 8.85 | 12.0 |
| 14.0 | 7.60 | 7.60 | 7.45 | 7.40 | 7.30 | 7.25 | 7.15 | 7.05 | 14.0 |
| 16.0 | 6.20 | 6.20 | 6.15 | 6.10 | 5.90 | 5.90 | 5.75 | 5.75 | 16.0 |
| 18.0 | 5.15 | 5.15 | 5.00 | 5.00 | 4.85 | 4.85 | 4.70 | 4.70 | 18.0 |
| 20.0 | 4.35 | 4.35 | 4.20 | 4.20 | 4.05 | 4.05 | 3.90 | 3.90 | 20.0 |
| 22.0 | 3.65 | 3.65 | 3.50 | 3.50 | 3.35 | 3.35 | 3.20 | 3.20 | 22.0 |
| 24.0 | 3.15 | 3.15 | 3.00 | 3.00 | 2.85 | 2.85 | 2.70 | 2.70 | 24.0 |
| 26.0 | 2.70 | 2.70 | 2.55 | 2.55 | 2.40 | 2.40 | 2.25 | 2.25 | 26.0 |
| 28.0 | 2.30 | 2.30 | 2.15 | 2.15 | 2.00 | 2.00 | 1.85 | 1.80 | 28.0 |
| 30.0 | 2.00 | 2.00 | 1.85 | 1.80 | 1.70 | 1.65 | 1.50 | 1.50 | 30.0 |
| 30.9 | 1.85 | 1.85 | 1.70 | 1.70 | 1.55 | 1.50 | 1.35 | 1.35 | 30.9 |

| Unit:ton | | | | | | | | | |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------|
| Boom length (m) | 37.45 | | | | | | | | Boom length (m) |
| Jib length (m) | 6 | | 9 | | 12 | | 15 | | Jib length (m) |
| Offset angle (deg) | 10 | 30 | 10 | 30 | 10 | 30 | 10 | 30 | Offset angle (deg) |
| Radius (m) | | | | | | | | | Radius (m) |
| 7.9 | 15.35 | 15.25 | 15.00 | 14.85 | 14.65 | 14.40 | 14.25 | 13.90 | 7.9 |
| 8.0 | 15.35 | 15.25 | 15.00 | 14.85 | 14.65 | 14.40 | 14.25 | 13.90 | 8.0 |
| 9.0 | 13.95 | 13.85 | 13.80 | 13.65 | 13.65 | 13.45 | 13.50 | 13.20 | 9.0 |
| 10.0 | 12.10 | 12.00 | 11.95 | 11.80 | 11.80 | 11.60 | 11.65 | 11.40 | 10.0 |
| 12.0 | 9.40 | 9.30 | 9.25 | 9.15 | 9.10 | 8.95 | 8.95 | 8.75 | 12.0 |
| 14.0 | 7.50 | 7.45 | 7.35 | 7.30 | 7.20 | 7.15 | 7.05 | 6.95 | 14.0 |
| 16.0 | 6.10 | 6.10 | 5.95 | 5.95 | 5.80 | 5.80 | 5.65 | 5.65 | 16.0 |
| 18.0 | 5.05 | 5.05 | 4.90 | 4.90 | 4.75 | 4.75 | 4.60 | 4.60 | 18.0 |
| 20.0 | 4.25 | 4.25 | 4.10 | 4.10 | 3.95 | 3.95 | 3.80 | 3.80 | 20.0 |
| 22.0 | 3.55 | 3.55 | 3.40 | 3.40 | 3.25 | 3.25 | 3.10 | 3.10 | 22.0 |
| 24.0 | 3.05 | 3.05 | 2.90 | 2.90 | 2.75 | 2.75 | 2.60 | 2.60 | 24.0 |
| 26.0 | 2.60 | 2.60 | 2.45 | 2.45 | 2.30 | 2.30 | 2.15 | 2.10 | 26.0 |
| 28.0 | 2.20 | 2.20 | 2.05 | 2.05 | 1.90 | 1.85 | 1.75 | 1.70 | 28.0 |
| 30.0 | 1.85 | 1.85 | 1.70 | 1.70 | 1.55 | 1.50 | 1.40 | 1.35 | 30.0 |
| 32.0 | 1.55 | 1.55 | 1.40 | 1.40 | 1.25 | 1.25 | 1.20 / 31.3 | 1.20 / 31.1 | 32.0 |
| 34.0 | 1.35 / 33.5 | 1.35 / 33.5 | 1.20 / 33.5 | 1.20 / 33.5 | 1.20 / 32.5 | 1.20 / 32.3 | | | 34.0 |

■ Main Boom with Crane Jib



Unit:ton

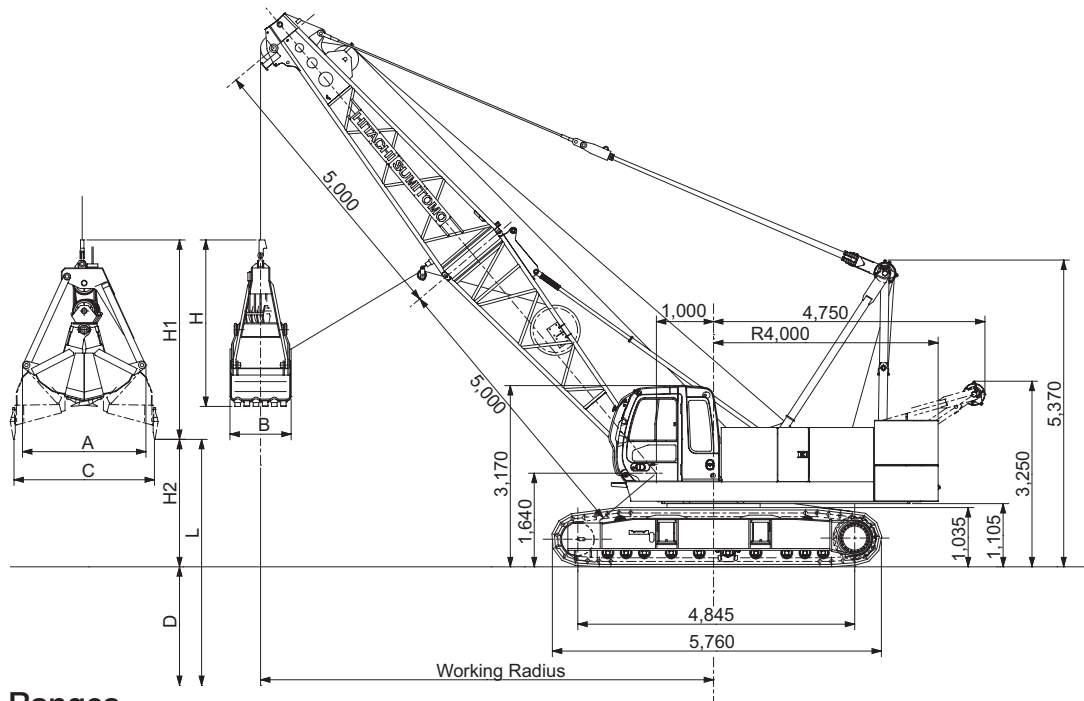
| Boom length (m) | 40.50 | | | | | | | | Boom length (m) |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------|
| Jib length (m) | 6 | | 9 | | 12 | | 15 | | Jib length (m) |
| Offset angle (deg) | 10 | 30 | 10 | 30 | 10 | 30 | 10 | 30 | Offset angle (deg) |
| Radius (m) | | | | | | | | | Radius (m) |
| 8.4 | 13.00 | 13.00 | 12.85 | 12.70 | 12.50 | 12.25 | 12.10 | 11.75 | 8.4 |
| 9.0 | 13.00 | 13.00 | 12.80 | 12.65 | 12.45 | 12.20 | 12.05 | 11.75 | 9.0 |
| 10.0 | 11.95 | 11.85 | 11.80 | 11.65 | 11.65 | 11.45 | 11.50 | 11.25 | 10.0 |
| 12.0 | 9.25 | 9.20 | 9.10 | 9.00 | 8.95 | 8.80 | 8.80 | 8.60 | 12.0 |
| 14.0 | 7.40 | 7.35 | 7.25 | 7.20 | 7.10 | 7.00 | 6.95 | 6.80 | 14.0 |
| 16.0 | 6.00 | 6.00 | 5.85 | 5.85 | 5.70 | 5.70 | 5.55 | 5.50 | 16.0 |
| 18.0 | 4.95 | 4.95 | 4.80 | 4.80 | 4.65 | 4.65 | 4.50 | 4.50 | 18.0 |
| 20.0 | 4.15 | 4.15 | 4.00 | 4.00 | 3.85 | 3.85 | 3.70 | 3.70 | 20.0 |
| 22.0 | 3.45 | 3.45 | 3.30 | 3.30 | 3.15 | 3.15 | 3.00 | 3.00 | 22.0 |
| 24.0 | 2.95 | 2.95 | 2.80 | 2.80 | 2.65 | 2.60 | 2.50 | 2.45 | 24.0 |
| 26.0 | 2.50 | 2.45 | 2.35 | 2.30 | 2.20 | 2.15 | 2.00 | 1.95 | 26.0 |
| 28.0 | 2.05 | 2.05 | 1.90 | 1.90 | 1.75 | 1.70 | 1.60 | 1.55 | 28.0 |
| 30.0 | 1.70 | 1.70 | 1.55 | 1.55 | 1.40 | 1.35 | 1.25 | 1.20 | 30.0 |
| 32.0 | 1.40 | 1.35 | 1.25 | 1.20 | 1.20 / 31.4 | 1.20 / 31.2 | 1.20 / 30.3 | 1.20 / 30.1 | 32.0 |
| 34.0 | 1.20 / 33.6 | 1.20 / 33.4 | 1.20 / 32.5 | 1.20 / 32.3 | | | | | 34.0 |

Unit:ton

| Boom length (m) | 43.55 | | | | | | | | Boom length (m) |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------|
| Jib length (m) | 6 | | 9 | | 12 | | 15 | | Jib length (m) |
| Offset angle (deg) | 10 | 30 | 10 | 30 | 10 | 30 | 10 | 30 | Offset angle (deg) |
| Radius (m) | | | | | | | | | Radius (m) |
| 9.0 | 11.30 | 11.20 | 10.95 | 10.80 | 10.60 | 10.40 | 10.25 | 9.90 | 9.0 |
| 10.0 | 11.10 | 11.00 | 10.80 | 10.65 | 10.50 | 10.30 | 10.10 | 9.85 | 10.0 |
| 12.0 | 9.10 | 9.05 | 9.00 | 8.90 | 8.85 | 8.70 | 8.70 | 8.50 | 12.0 |
| 14.0 | 7.30 | 7.20 | 7.15 | 7.05 | 7.00 | 6.90 | 6.85 | 6.70 | 14.0 |
| 16.0 | 5.95 | 5.90 | 5.80 | 5.75 | 5.70 | 5.55 | 5.55 | 5.40 | 16.0 |
| 18.0 | 4.90 | 4.85 | 4.75 | 4.70 | 4.60 | 4.55 | 4.45 | 4.40 | 18.0 |
| 20.0 | 4.10 | 4.05 | 3.95 | 3.95 | 3.80 | 3.75 | 3.65 | 3.55 | 20.0 |
| 22.0 | 3.45 | 3.40 | 3.30 | 3.25 | 3.15 | 3.05 | 2.95 | 2.85 | 22.0 |
| 24.0 | 2.85 | 2.80 | 2.70 | 2.65 | 2.55 | 2.50 | 2.40 | 2.30 | 24.0 |
| 26.0 | 2.35 | 2.35 | 2.20 | 2.15 | 2.05 | 2.00 | 1.90 | 1.80 | 26.0 |
| 28.0 | 1.95 | 1.90 | 1.80 | 1.75 | 1.65 | 1.60 | 1.45 | 1.40 | 28.0 |
| 30.0 | 1.55 | 1.55 | 1.45 | 1.40 | 1.25 | 1.25 | 1.20 / 29.6 | 1.20 / 29.3 | 30.0 |
| 32.0 | 1.25 | 1.25 | 1.20 / 31.5 | 1.20 / 31.4 | 1.20 / 30.6 | 1.20 / 30.3 | | | 32.0 |
| 34.0 | 1.20 / 32.6 | 1.20 / 32.4 | | | | | | | 34.0 |

Clamshell Specifications

Dimensions and Specifications



Working Ranges

| Boom length | m | 10.00 | | | | 13.05 | | | | 16.10 | | | | 19.15 | | | | |
|--|---------------------------|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|------|
| Boom angle | degree | 35 | 45 | 55 | 65 | 35 | 45 | 55 | 65 | 35 | 45 | 55 | 65 | 35 | 45 | 55 | 65 | |
| Working radius | m | 9.6 | 8.5 | 7.3 | 5.8 | 12.1 | 10.7 | 9.0 | 7.1 | 14.6 | 12.9 | 10.7 | 8.4 | 17.1 | 15.0 | 12.5 | 9.7 | |
| Allowable gross weight | t | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 5.8 | 6.0 | 6.0 | 6.0 | |
| Lifting height (w/1.2m ³ bucket) L (D+H2) | m | 37.6 | 38.9 | 40.1 | 41.0 | 39.3 | 41.1 | 42.6 | 43.7 | 41.0 | 43.2 | 45.0 | 46.4 | 42.7 | 45.3 | 47.5 | 49.2 | |
| Max. digging depth D | m | 36 | | | | | | | | | | | | | | | | |
| Dumping height H2 | 0.8 m ³ bucket | m | 2.0 | 3.3 | 4.5 | 5.4 | 3.7 | 5.5 | 7.0 | 8.1 | 5.4 | 7.6 | 9.4 | 10.8 | 7.1 | 9.7 | 11.9 | 13.6 |
| | 1.0 m ³ bucket | m | 1.8 | 3.1 | 4.3 | 5.2 | 3.5 | 5.3 | 6.8 | 7.9 | 5.2 | 7.4 | 9.2 | 10.6 | 6.9 | 9.5 | 11.7 | 13.4 |
| | 1.2 m ³ bucket | m | 1.6 | 2.9 | 4.1 | 5.0 | 3.3 | 5.1 | 6.6 | 7.7 | 5.0 | 7.2 | 9.0 | 10.4 | 6.7 | 9.3 | 11.5 | 13.2 |

Specifications

| Clamshell Specifications | | |
|--------------------------|----------------------------|--|
| Bucket capacity | m ³ | 0.8/1.0/1.2 |
| Allowable gross weight | t | 6.0 |
| Boom length | m | 10.00 to 19.15 |
| Max. digging depth | m | 36 |
| Suspend line speed | m/min | *75 |
| Open/close line speed | m/min | *75 |
| Boom hoist line speed | m/min | *62 |
| Boom lower line speed | m/min | 62 |
| Ground contact pressure | kPa (kgf/cm ²) | 70.5 (0.72) (w/10m boom + 1.2m ³ bucket) |
| Operating weight | t | 52.6 (w/10m boom + 1.2 m ³ bucket) |

NOTE :

- *Line speeds will vary with the load.
- Data is expressed in SI units, followed by conventional units in ().
- Other specifications, not shown are similar to those for the cranes.

Clamshell Bucket

| Capacity (m ³) | Weight (t) | A (mm) | B (mm) | C (mm) | H (mm) | H1 (mm) | Use |
|----------------------------|------------|--------|--------|--------|--------|---------|---------------|
| 0.8 | 2.00 | 1,880 | 970 | 2,230 | 2,270 | 2,980 | Excavation |
| 1.0 | 2.45 | 2,020 | 1,070 | 2,430 | 2,430 | 3,150 | Excavation |
| 1.2 | 3.10 | 2,020 | 1,070 | 2,430 | 2,430 | 3,150 | Excavation |
| 1.2 | 2.40 | 2,000 | 1,160 | 2,650 | 2,600 | 3,240 | Light Service |

Gross Rated Load Table

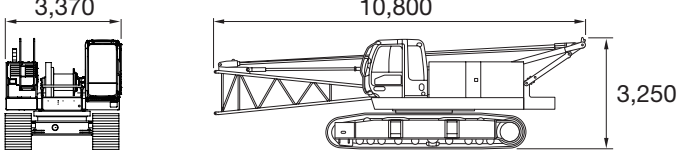
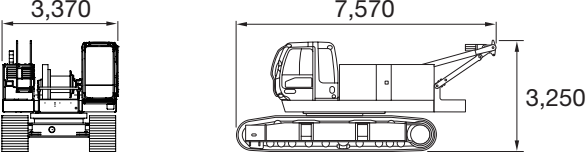
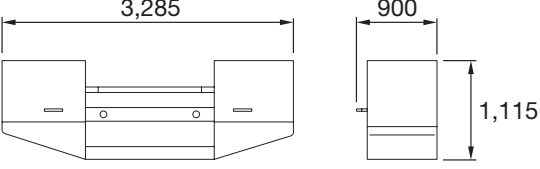
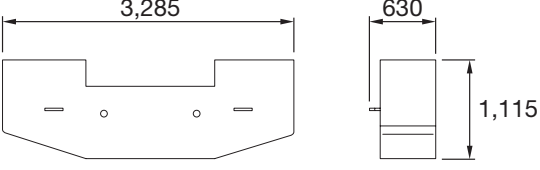
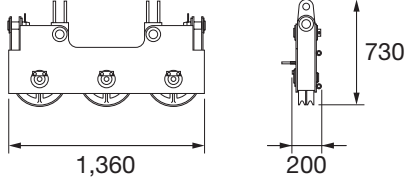
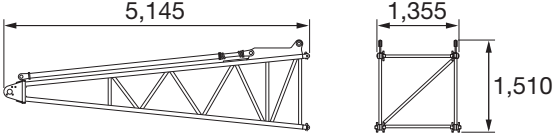
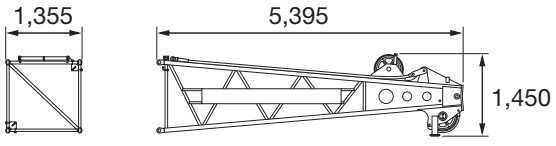
Unit:ton

| Working radius (m) | Boom length (m) | | | |
|--------------------|-----------------|-----------|-----------|----------|
| | 10.00 | 13.05 | 16.10 | 19.15 |
| 5.8 | 6.00 | | | |
| 6.0 | 6.00 | | | |
| 6.5 | 6.00 | | | |
| 7.0 | 6.00 | 6.00/7.1 | | |
| 7.5 | 6.00 | 6.00 | | |
| 8.0 | 6.00 | 6.00 | 6.00/8.4 | |
| 9.0 | 6.00 | 6.00 | 6.00 | 6.00/9.7 |
| 10.0 | 6.00/9.6 | 6.00 | 6.00 | 6.00 |
| 12.0 | | 6.00 | 6.00 | 6.00 |
| 14.0 | | 6.00/12.1 | 6.00 | 6.00 |
| 16.0 | | | 6.00/14.6 | 6.00 |
| 17.1 | | | | 5.80 |

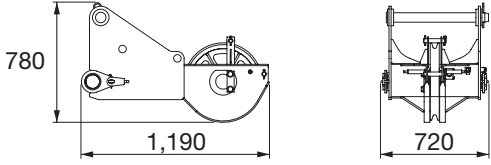
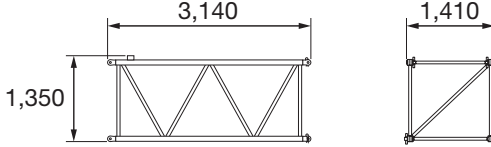
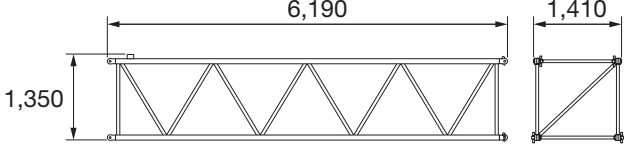
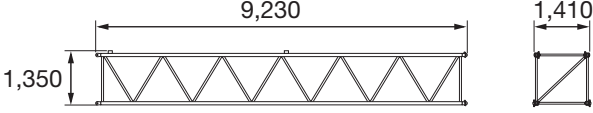
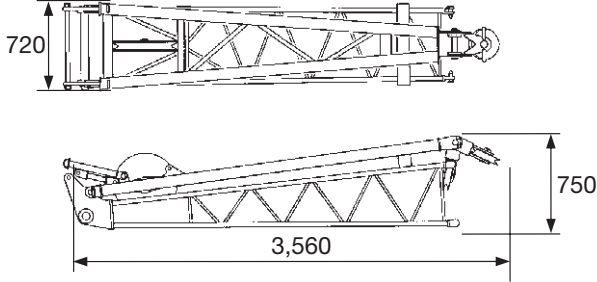
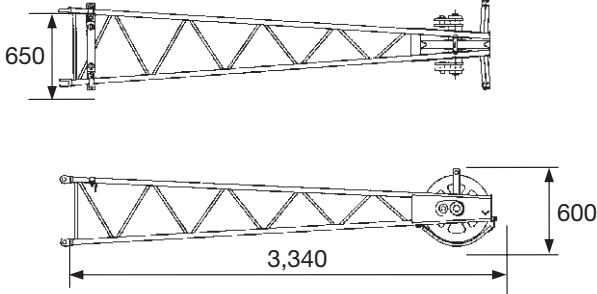
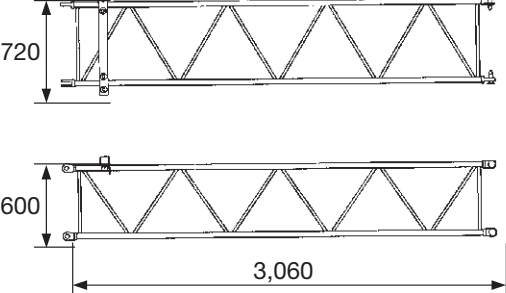
- Working radius is the horizontal distance from the swing center to the gravity of lifted load.
- The rated loads for clamshell do not exceed 70% of tipping load.
- The rated loads shown are upper limits determined by the following equation. Please select a bucket in such a manner that its rated load does not exceed the rated load shown below, according to kinds of the loads handled.
Rated load = Bucket capacity (m³) x Specific gravity of load (t/m³) + Bucket weight (t)
- Even if using different capacity of the bucket according to kinds of load, don't exceed the rated load.
- The counterweight is 17.0 t.
- Figures described as ○○ / ○○ in the tables indicate rated load (t) / working radius (m).

Weights and Dimensions of Disassembled Units

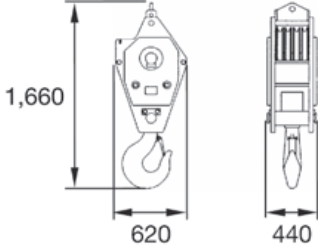
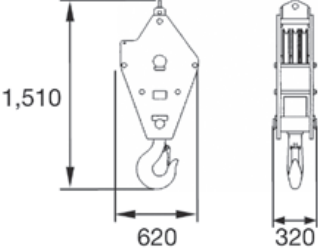
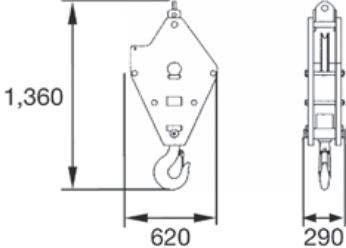
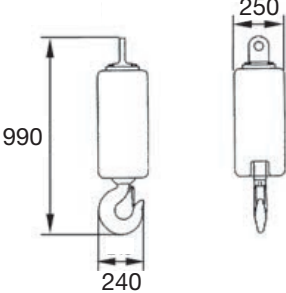
Weights and Dimensions List

| Description | Q'ty | Dimensions (mm) | Mass (kg) |
|--|-------------|--|-----------|
| BASIC MACHINE with • Boom base • Wire rope (Boom hoist/Front) | 1 |  | 31,400 |
| BASIC MACHINE with • Wire rope (Boom hoist/Front) | 1 |  | 30,300 |
| Counter weight (Upper) | 1 |  | 8,600 |
| Counter weight (Lower) | 1 |  | 8,400 |
| Upper spreader | 1 |  | 240 |
| Boom base with • Connect pin • Boom back stop | 1 4 2 |  | 850 |
| Boom top with • Pendant rope | 1 2 |  | 930 |

Weights and Dimensions of Disassembled Units

| Description | Q'ty | Dimensions (mm) | Mass (kg) |
|---|-----------------------|--|-----------|
| Aux. sheave • Connect pin | 1 1 |  | 185 |
| 3.05 m boom insert with • Connect pin (w/o pendant rope) | 1 4 |  | 205 |
| 6.10 m boom insert with • Connect pin (w/o pendant rope) | 1 4 |  | 345 |
| 9.15 m boom insert with • Connect pin (w/o pendant rope) | 1 4 |  | 500 |
| Jib base • Foot pin • Connect pin • Jib strut • Connect pin | 1 1 4 1 2 |  | 340 |
| Jib Top | 1 |  | 155 |
| 3 m Jib Insert • Connect pin | 1 4 |  | 80 |

Weights and Dimensions of Disassembled Units

| Description | Q'ty | Dimensions (mm) | Mass (kg) |
|-------------|------|--|-----------|
| 55 t hook | 1 |  | 700 |
| 30 t hook | 1 |  | 360 |
| 15 t hook | 1 |  | 320 |
| 6.5 t hook | 1 |  | 180 |

Note: When transporting the machine on public roads with a trailer, refer to all local regulations for details.

Equipment List

Standard and Optional Equipment

○ : Standard ● : Optional

| Item | | Lift Crane | Notes | |
|--------------------------------------|--|------------------|------------------------|-----------|
| Basic Items | Winch with Free Mechanism | ○ | Front and Rear Winch | |
| | Brake Pedals for Front and Rear Winch | ○ | | |
| | Crawler Extend / Retract Device | ○ | | |
| | Working Light (x 2) | ○ | | |
| | Back Mirror (Left and right) | ○ | | |
| | Wiper with Washer (Front window) | ○ | | |
| | Room Lamp | ○ | | |
| | Cigar Lighter Socket (24 V) | ○ | | |
| | Ashtray | ○ | | |
| | Cup Holder | ○ | | |
| | AM / FM Radio | ○ | | |
| | Air Conditioner | ○ | Full Automatic | |
| | Accelerator Lever | ○ | | |
| | Accelerator Pedal (Right side) | ○ | | |
| | Hydraulic Pump Flow Rate Select Switch | ○ | Max. or Min. Rate | |
| | Electric Fuel Pump | ● | | |
| | Travel Operation Pedal | ● | | |
| | Under Cover | ● | Left Side | |
| | Clear Roof Cover | ● | Smoke Tinted | |
| | Counterweight Lifting Wire Rope | ● | | |
| | 3.05 m Boom Insert | ● | | |
| | 6.10 m Boom Insert | ● | | |
| | 9.15 m Boom Insert | ● | | |
| | 9.15 m Boom Insert for crane jib | ● | | |
| | Parts Set for 6 m Crane Jib (6 m Basic jib, Anti-tow block, Jib strut) | ● | | |
| | 3 m Crane Jib Insert | ● | | |
| | Parts Set for Auxiliary Sheave (Auxiliary sheave, Auxiliary sheave anti-two block) | ● | | |
| | 55 t Hook (5 sheaves) | ● | | |
| 30 t Hook (3 sheaves) | ● | | | |
| 15 t Hook (1 sheave) | ● | | | |
| 6.5 t Hook | ● | | | |
| Rear Winch Wire Rope | ● | | | |
| Spring Type Tagline | ● | | | |
| Meters & Lamps | Coolant Temp.Gauge | ○ | | |
| | Fuel Gauge | ○ | | |
| | Hourmeter | ○ | | |
| | Swing Brake Indicator | ○ | | |
| | Alternator Indicator | ○ | | |
| | Engine Oil Pressure Indicator | ○ | | |
| | Air Filter Restriction Indicator | ○ | | |
| | Overheat Indicator | ○ | | |
| | Preheat Indicator | ○ | | |
| Safety | Moment Limiter | ○ | | |
| | Anti-Two Block | ○ | | |
| | Boom Hoist Limiting Device | ○ | | |
| | Secondary Boom Over Hoist Prevent Device | ○ | | |
| | Swing & Travel Alarm | ● | | |
| | 3 Color Percentage Indicator | ● | | |
| | Drum Lock | Front Winch | ● | |
| | | Rear Winch | ● | |
| | | Boom Hoist Winch | ○ | Automatic |
| | Swing Lock | ○ | Lock Pin for Transport | |
| Gate Lock Lever | ○ | | | |
| Auto Stop Override Select Key Switch | ○ | | | |
| Auto Stop Override Switch | ○ | | | |

- We are constantly improving our products and therefore reserve the right to change designs and specifications without notice.
- Units in this specification are shown under International System of Units; the figures in parenthesis are under Gravitational System of Units as old one.

Hitachi Sumitomo Heavy Industries Construction Crane Co.,Ltd.

9-3, Higashi-Ueno 6-chome, Taito-ku, Tokyo 110-0015, Japan
Phone: 81-3-3845-1387 Facsimile: 81-3-3845-1394

<http://www.hsc-crane.com>