

KATO

NK-1600

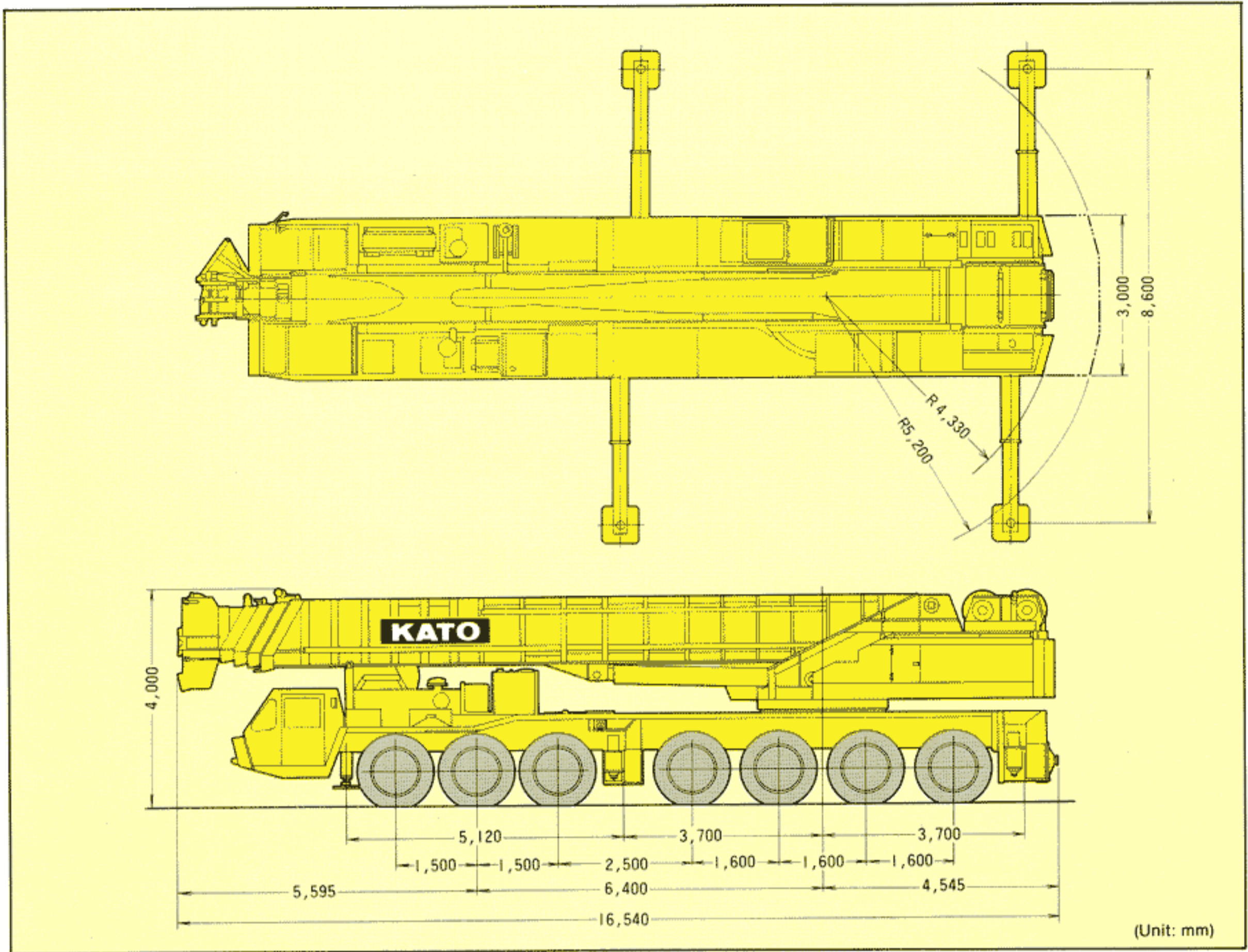
FULLY HYDRAULIC TRUCK CRANE

SPECIFICATION



KATO WORKS CO.,LTD.

DIMENSIONS



(Unit: mm)

CARRIER SPECIFICATIONS

Model: KATO 7200

GENERAL DIMENSIONS

| | | |
|-----------------------|--------------------------------------|---|
| Gross vehicle weight: | approx. 84000 kg | Traveling condition (with main boom and superstructure excluding counterweight) |
| Overall length: | approx. 16540 mm | |
| Overall width: | approx. 3000 mm | |
| Overall height: | approx. 4000 mm | |
| Wheel base: | 6400 mm | |
| Treads: | 1st, 2nd, 3rd, and 4th axle: 2490 mm | |
| | 5th and 6th axle: 2167 mm | |
| | 7th axle: 2502 mm | |

Engine

Model: Mitsubishi 8DC9-TL
 Type: 4 cycle, water cooled, V8 with turbocharger and intercooler
 Piston displacement: 16031 cc
 Carrier engine

| | horsepower | torque |
|-----|--------------------|-------------------------|
| JIS | 430 PS/2200 r.p.m. | 160 kgf-m/1400 r.p.m. |
| | 316 kW/2200 r.p.m. | 1568 N-m/1400 r.p.m. |
| DIN | 417 PS/2200 r.p.m. | 157 kgf-m/1400 r.p.m. |
| | 307 kW/2200 r.p.m. | 1537 N-m/1400 r.p.m. |
| SAE | 432 HP/2200 r.p.m. | 1162 ft-lbf/1400 r.p.m. |
| | 322 kW/2200 r.p.m. | 1575 N-m/1400 r.p.m. |

| | |
|---|--|
| Max. Traveling speed: | 77 km/h (at Engine 2,300 r.p.m.) |
| Gradeability (tan θ): | 30 % |
| Min. turning radius: (center of extreme outer tire) | 13.8 m (approx.) |
| Clutch: | Two dry disc |
| Transmission: | 10 forward & 3 reverse |
| Axes: | Steering axle: 1st, 2nd, 3rd, 4th, and 7th Driving axle: 5th, 6th, and 7th |
| Steering: | Power assisted |
| Suspension: | 1st, 2nd, and 3rd axle: Reyco type 4th and 7th axle: Hydropneumatic type 5th and 6th axle: Walking beam type |

Brake

| | |
|----------------------|---|
| Service: | 2 circuit air brake |
| Parking & Emergency: | Spring loaded type |
| Auxiliary: | Exhaust brake |
| Electric system: | 24 V |
| Battery: | 12 V - 200 AH x 2 |
| Fuel tank capacity: | 400 lit. |
| Driver's cab: | All steel, welded construction, 2 persons, low line type |
| Tire size: | 1st, 2nd, 3rd, 4th and 7th axle: 14.00 - 24 - 24 PR (single) 5th and 6th axle: 14.00 - 24 - 24 PR (dual) |

SUPERSTRUCTURE SPECIFICATIONS

Model: NK-1600 Fully Hydraulic Truck Crane

PERFORMANCE

| | |
|-------------------------|---|
| Lifting capacity: | 360° full working range with outriggers |
| | 160 ton × 3.2 m 13.6 m Boom |
| | 110 ton × 4.5 m 18.15 m Boom |
| | 100 ton × 5 m 22.7 m Boom |
| | 65 ton × 6 m 31.8 m Boom |
| | 45 ton × 8 m 40.9 m Boom |
| | 30 ton × 11 m 50.0 m Boom |
| | 8 ton × 32 m Rooster sheave |
| Boom length: | 13.6 m (Basic) |
| | 50.0 m (Fully extended) |
| Max. lift above ground: | 51.0 m (With fully extended boom) |
| Hoisting line speed | |
| Main winch: | 114 m/min. (at 3rd layer) |
| Auxiliary winch: | 114 m/min. (at 3rd layer) |
| Boom derricking angle: | -2° ~ 82° |
| Boom derricking time: | 80 sec. (-2° ~ 82°) |
| Slewing speed: | 1.4 r.p.m. |
| Crane engine | |
| Maker: | Mitsubishi |
| Model: | 8DC9 |

Upper unit engine (superstructure)

| | horsepower | torque |
|-----|--------------------|------------------------|
| JIS | 282 PS/1950 r.p.m. | 107 kgf-m/1400 r.p.m. |
| | 207 kW/1950 r.p.m. | 1048 N-m/1400 r.p.m. |
| DIN | 266 PS/1950 r.p.m. | 101 kgf-m/1400 r.p.m. |
| | 196 kW/1950 r.p.m. | 990 N-m/1400 r.p.m. |
| SAE | 279 HP/1950 r.p.m. | 773 ft-lbf/1400 r.p.m. |
| | 208 kW/1950 r.p.m. | 1047 N-m/1400 r.p.m. |

HYDRAULIC SYSTEM

| | |
|-------------------------|--|
| Oil pump: | Variable displacement type 2 section axial piston pump + 3 section gear pump |
| Hoisting motor: | Variable displacement type axial piston motor |
| Slewing motor: | Axial piston motor |
| Control valve: | Multiple, self-return type |
| Cylinder: | Double acting type |
| Oil reservoir capacity: | 1350 lit. |

SUPERSTRUCTURE

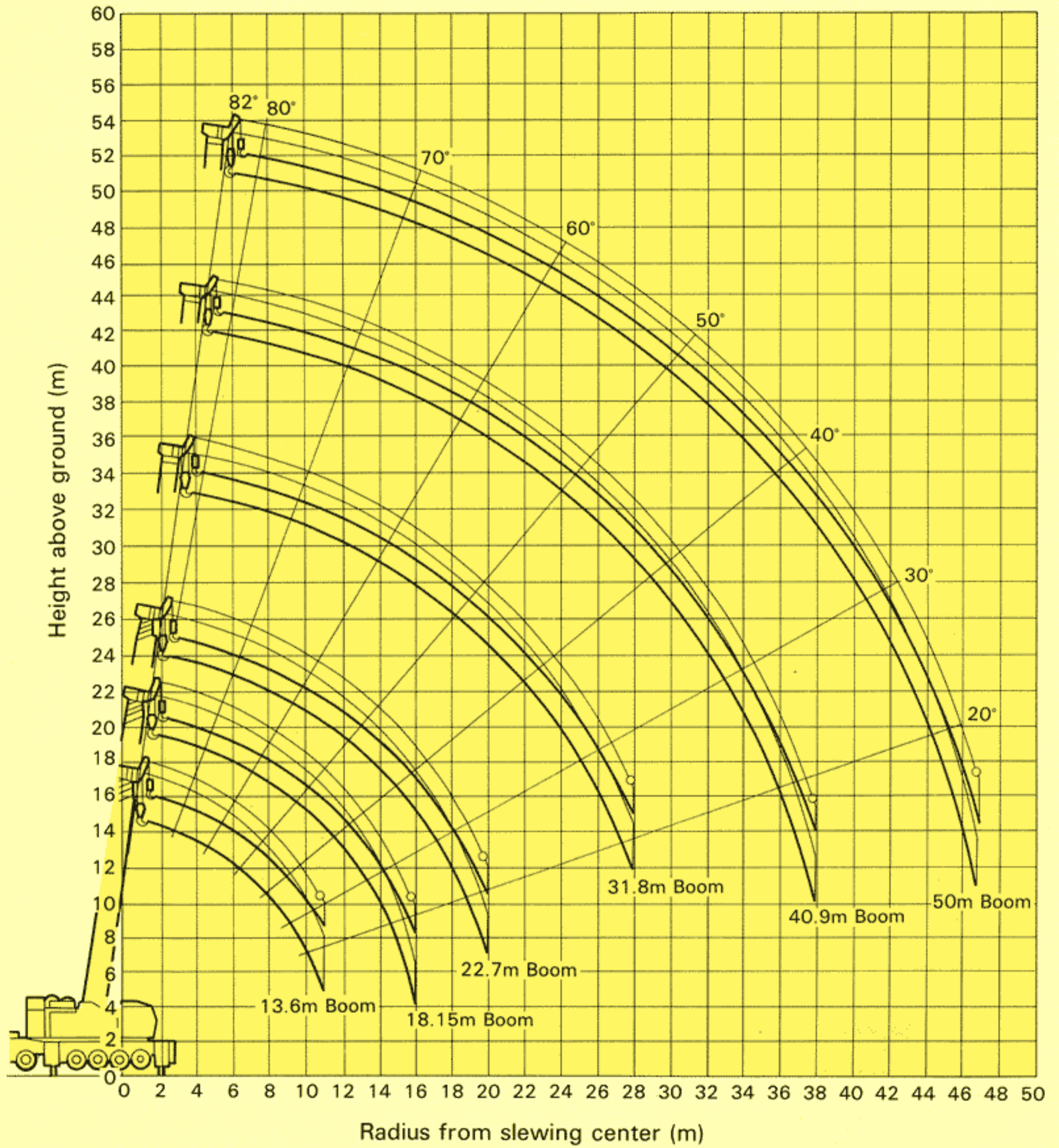
| | |
|-------------------------------|--|
| Boom: | 5 section, full power |
| Hoisting system: | Driven by hydraulic motor through planetary gear reduction (High-low two speed system, with automatic brake) Two independent single winches |
| Slewing system: | Driven by hydraulic motor through planetary gear reduction (with built-in disc brake, Free/lock selector switch) |
| Slewing bearing: | Ball bearing type |
| Boom derricking system: | Twin hydraulic cylinders |
| Boom telescoping system: | Hydraulic cylinders |
| Outrigger system: | Hydraulic, vertical support type (with front jack) |
| Outrigger width: | 8600 mm (center to center) |
| Counterweight removal device: | Mechanical linkage type with lock, powered by hydraulic cylinders 37 ton (separate block type) |
| Counterweight: | |
| Hoisting wire rope | |
| Main winch: | 24 mm × 350 m |
| Auxiliary winch: | 24 mm × 300 m |
| Hook block | |
| 160 ton: | No. of parts of line 20 (14+6) |
| 110 ton: | 13 |
| 50 ton: | 6 |
| 16 ton: | 2 |
| 8 ton: | 1 |

SAFETY DEVICES

ACS (Automatic Crane Stopper), Outrigger width automatic detecting system, Slewing position detecting system, Boom falling prevention device, Overhoist prevention device, Drum lock device, Drum hold safety device, Drum turning indicator, Automatic winch brake, Irregular winding prevention device, Hydraulic safety valve, Outrigger lock device, Boom angle indicator, Slewing lock device

MAIN BOOM

WORKING RANGES





RATED LIFTING CAPACITY

Based on
 *BS 1757 : 1981
 *DIN 15019-2
 *75% of tipping loads

Counterweight – 37 ton
 Outrigger width – 8.6 m
 Front jack – extended

(Unit: metric ton)

| Working radius (m) | 360° full range | | | | | |
|--------------------|-----------------|--------------|-------------|-------------|-------------|-------------|
| | 13.6 m Boom | 18.15 m Boom | 22.7 m Boom | 31.8 m Boom | 40.9 m Boom | 50.0 m Boom |
| 3.2 | 160.0 | | | | | |
| 3.5 | 149.0 | | | | | |
| 4.0 | 136.0 | 110.0 | | | | |
| 4.5 | 123.0 | 110.0 | 100.0 | | | |
| 5.0 | 113.0 | 106.0 | 100.0 | | | |
| 6.0 | 95.5 | 89.5 | 84.0 | 65.0 | | |
| 7.0 | 81.0 | 76.5 | 72.5 | 60.0 | | |
| 8.0 | 70.0 | 66.5 | 63.5 | 55.0 | 45.0 | |
| 9.0 | 61.0 | 58.5 | 56.0 | 49.0 | 41.0 | |
| 10.0 | 54.0 | 52.0 | 50.5 | 44.0 | 37.0 | |
| 11.0 | 48.5 | 47.0 | 45.5 | 40.0 | 34.0 | 30.0 |
| 12.0 | | 34.0 | 41.5 | 37.0 | 31.0 | 28.0 |
| 14.0 | | 25.0 | 34.0 | 31.5 | 26.5 | 24.0 |
| 16.0 | | 21.0 | 28.0 | 27.5 | 23.0 | 21.0 |
| 18.0 | | | 23.5 | 24.4 | 20.4 | 18.5 |
| 20.0 | | | 19.1 | 21.0 | 18.0 | 16.5 |
| 22.0 | | | | 17.3 | 16.3 | 15.0 |
| 24.0 | | | | 14.4 | 14.8 | 13.5 |
| 26.0 | | | | 12.1 | 13.0 | 12.5 |
| 28.0 | | | | 10.1 | 11.0 | 11.2 |
| 30.0 | | | | | 9.3 | 9.9 |
| 32.0 | | | | | 7.8 | 8.4 |
| 34.0 | | | | | 6.6 | 7.2 |
| 36.0 | | | | | 5.6 | 6.1 |
| 38.0 | | | | | 4.7 | 5.1 |
| 40.0 | | | | | | 4.2 |
| 42.0 | | | | | | 3.5 |
| 44.0 | | | | | | 2.8 |
| 46.0 | | | | | | 2.2 |
| 47.0 | | | | | | 2.0 |

[NOTE]

- 1) The rated lifting capacities are the maximum loads guaranteed on a firm level ground when the outriggers, front jack and axle lock are set properly.
- 2) The rated lifting capacities include the weight of hook block and other lifting equipment. The capacities in the white area are based on the structural strength.
- 3) The working radii given in the table for main boom operation are the actual values including the deflection of the boom. Therefore operate the crane based on the working radius.

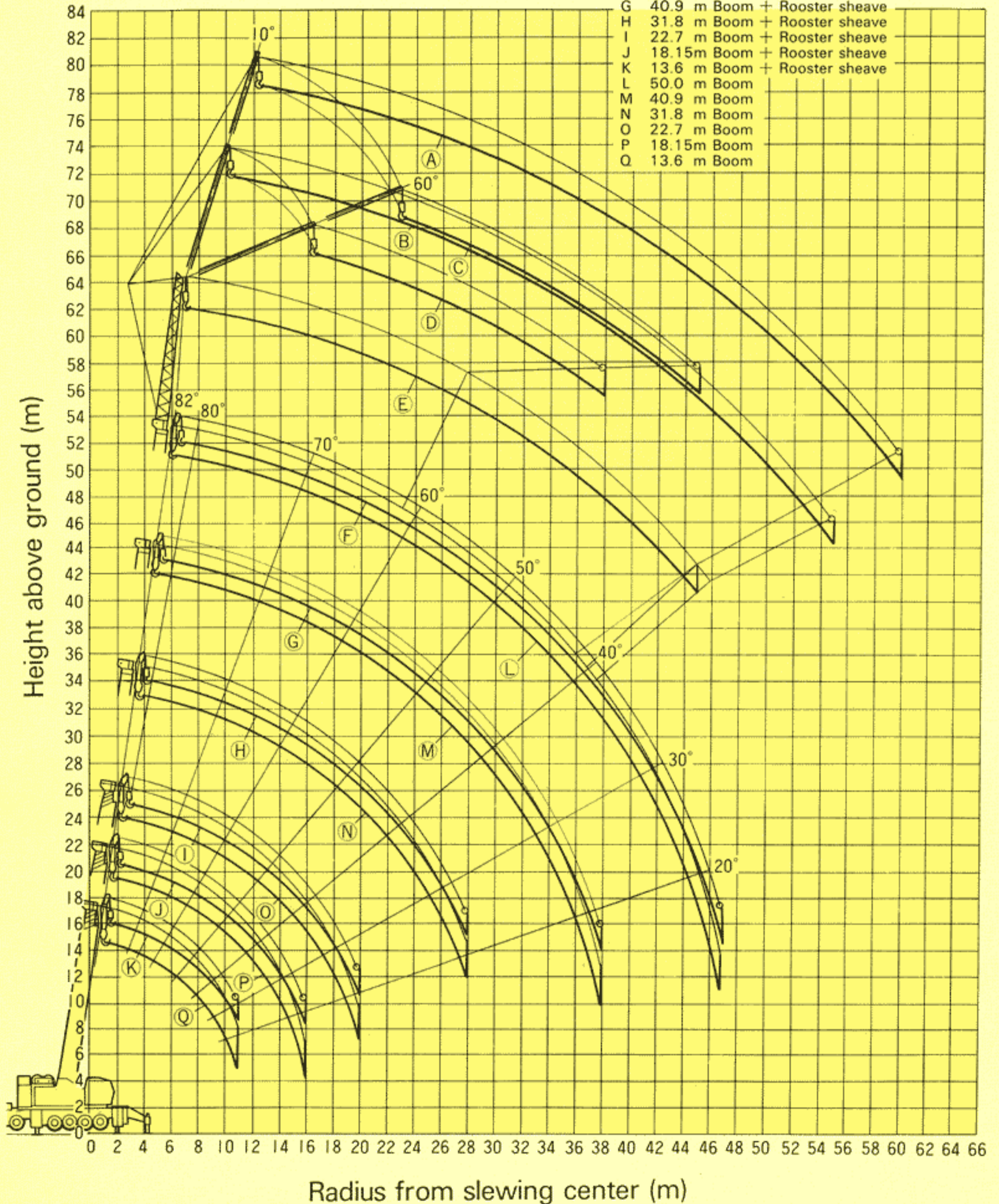
Rated lifting capacity of rooster sheave

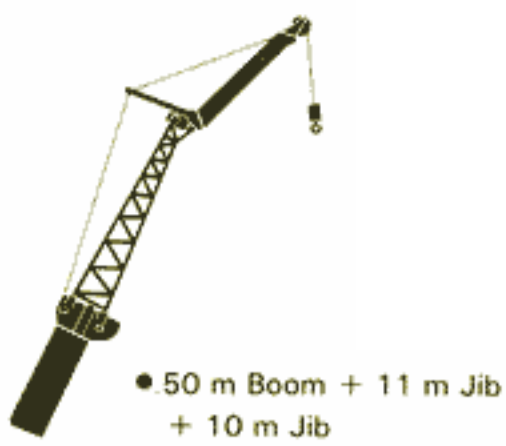
The rated lifting capacities of the rooster sheave are equal to those of main boom subtracted the weight of main hook block, but the maximum rated lifting capacity is 8 ton.

LUFFING JIB

WORKING RANGES

- A 50.0 m Boom + 11m Jib + 17m Jib (offset 10°)
- B 50.0 m Boom + 11m Jib + 10m Jib (offset 10°)
- C 50.0 m Boom + 11m Jib + 17m Jib (offset 60°)
- D 50.0 m Boom + 11m Jib + 10m Jib (offset 60°)
- E 50.0 m Boom + 11m Jib
- F 50.0 m Boom + Rooster sheave
- G 40.9 m Boom + Rooster sheave
- H 31.8 m Boom + Rooster sheave
- I 22.7 m Boom + Rooster sheave
- J 18.15m Boom + Rooster sheave
- K 13.6 m Boom + Rooster sheave
- L 50.0 m Boom
- M 40.9 m Boom
- N 31.8 m Boom
- O 22.7 m Boom
- P 18.15m Boom
- Q 13.6 m Boom





RATED LIFTING CAPACITY

Based on *BS 1757 : 1981
*DIN 15019-2
*75% of tipping loads

Counterweight - 37 ton
Outrigger width - 8.6 m
Front jack - extended

(Unit: metric ton)

■ 50m Boom + 11 m Jib + 10 m Jib

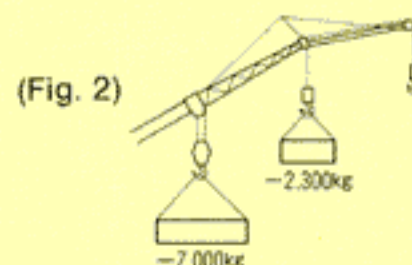
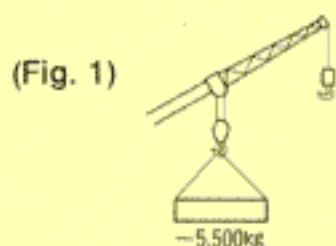
| 50 m Boom + 11 m Jib + 10 m Jib | | | | | | | | | | | | |
|---------------------------------|----------------|------|----------------|------|----------------|------|----------------|------|----------------|------|----------------|------|
| 360° full range | | | | | | | | | | | | |
| Working radius (m) | Jib angle 10° | | Jib angle 20° | | Jib angle 30° | | Jib angle 40° | | Jib angle 50° | | Jib angle 60° | |
| | Boom angle (°) | Load | Boom angle (°) | Load | Boom angle (°) | Load | Boom angle (°) | Load | Boom angle (°) | Load | Boom angle (°) | Load |
| 16 | 79.0 | 8.0 | 79.8 | 7.0 | 80.5 | 6.5 | | | | | | |
| 18 | 77.0 | 7.9 | 78.0 | 6.9 | 78.5 | 6.5 | 80.0 | 5.2 | 80.6 | 4.5 | 81.0 | 3.8 |
| 20 | 75.2 | 7.5 | 76.6 | 6.8 | 77.5 | 6.2 | 78.5 | 5.2 | 79.0 | 4.5 | 79.5 | 3.8 |
| 22 | 73.7 | 7.2 | 75.0 | 6.4 | 75.9 | 5.9 | 76.9 | 5.1 | 77.4 | 4.4 | 77.9 | 3.8 |
| 24 | 72.0 | 6.7 | 73.2 | 6.0 | 74.4 | 5.5 | 75.3 | 4.9 | 76.0 | 4.3 | 76.1 | 3.8 |
| 26 | 70.5 | 6.2 | 71.6 | 5.7 | 72.7 | 5.3 | 73.6 | 4.8 | 74.2 | 4.3 | 74.5 | 3.7 |
| 28 | 69.0 | 5.8 | 70.0 | 5.3 | 71.1 | 5.0 | 72.0 | 4.7 | 72.5 | 4.2 | 72.8 | 3.7 |
| 30 | 67.0 | 5.5 | 68.3 | 5.0 | 69.3 | 4.7 | 70.2 | 4.5 | 70.6 | 4.1 | 71.0 | 3.7 |
| 32 | 65.2 | 5.0 | 66.5 | 4.8 | 67.6 | 4.5 | 68.4 | 4.3 | 68.9 | 4.1 | 69.1 | 3.6 |
| 34 | 63.5 | 4.6 | 64.7 | 4.5 | 65.9 | 4.3 | 66.6 | 4.1 | 67.0 | 4.0 | 67.2 | 3.6 |
| 36 | 61.7 | 4.3 | 62.9 | 4.2 | 63.8 | 4.0 | 64.7 | 3.9 | 65.2 | 3.8 | 65.2 | 3.6 |
| 38 | 59.8 | 4.0 | 61.0 | 3.9 | 62.0 | 3.8 | 62.7 | 3.7 | 63.0 | 3.7 | 63.2 | 3.6 |
| 40 | 57.9 | 3.7 | 59.1 | 3.6 | 60.0 | 3.5 | 60.8 | 3.5 | 61.1 | 3.5 | | |
| 45 | 52.9 | 3.2 | 54.1 | 3.1 | 54.8 | 3.0 | 55.5 | 3.0 | 55.6 | 3.0 | | |
| 50 | 47.2 | 2.2 | 48.2 | 2.3 | 49.0 | 2.4 | 49.4 | 2.5 | | | | |
| 55 | 40.5 | 1.1 | 41.5 | 1.2 | 42.3 | 1.3 | 42.5 | 1.3 | | | | |

■ 50 m Boom + 11 m Jib + 17 m Jib

| 50 m Boom + 11 m Jib + 17 m Jib | | | | | | | | | | | | |
|---------------------------------|----------------|------|----------------|------|----------------|------|----------------|------|----------------|------|----------------|------|
| 360° full range | | | | | | | | | | | | |
| Working radius (m) | Jib angle 10° | | Jib angle 20° | | Jib angle 30° | | Jib angle 40° | | Jib angle 50° | | Jib angle 60° | |
| | Boom angle (°) | Load | Boom angle (°) | Load | Boom angle (°) | Load | Boom angle (°) | Load | Boom angle (°) | Load | Boom angle (°) | Load |
| 16 | 80.5 | 5.5 | | | | | | | | | | |
| 18 | 78.8 | 5.5 | 80.0 | 4.5 | | | | | | | | |
| 20 | 77.5 | 5.5 | 78.5 | 4.5 | 80.8 | 3.7 | | | | | | |
| 22 | 76.0 | 5.2 | 77.5 | 4.5 | 79.4 | 3.7 | 80.6 | 3.1 | | | | |
| 24 | 74.6 | 5.0 | 76.0 | 4.3 | 78.0 | 3.7 | 79.1 | 3.0 | 79.9 | 2.4 | | |
| 26 | 73.2 | 4.8 | 74.6 | 4.2 | 76.6 | 3.5 | 77.6 | 2.9 | 78.4 | 2.4 | 79.9 | 1.8 |
| 28 | 71.7 | 4.6 | 73.2 | 4.1 | 75.2 | 3.4 | 76.0 | 2.9 | 77.0 | 2.3 | 78.2 | 1.8 |
| 30 | 70.2 | 4.4 | 71.7 | 3.9 | 73.8 | 3.3 | 74.6 | 2.8 | 75.5 | 2.3 | 76.5 | 1.8 |
| 32 | 68.8 | 4.1 | 70.2 | 3.7 | 72.2 | 3.2 | 73.1 | 2.7 | 74.0 | 2.2 | 74.8 | 1.8 |
| 34 | 67.2 | 3.9 | 68.6 | 3.5 | 70.7 | 3.1 | 71.6 | 2.6 | 72.5 | 2.2 | 73.1 | 1.7 |
| 36 | 65.6 | 3.7 | 67.0 | 3.3 | 69.1 | 3.0 | 69.9 | 2.6 | 70.7 | 2.1 | 71.4 | 1.7 |
| 38 | 64.0 | 3.5 | 65.4 | 3.2 | 67.3 | 2.9 | 68.3 | 2.5 | 69.1 | 2.1 | 69.5 | 1.7 |
| 40 | 62.0 | 3.3 | 63.6 | 3.0 | 65.7 | 2.8 | 66.5 | 2.5 | 67.2 | 2.1 | 67.8 | 1.7 |
| 45 | 57.8 | 2.8 | 59.3 | 2.7 | 61.3 | 2.5 | 62.1 | 2.4 | 62.5 | 2.0 | 62.7 | 1.7 |
| 50 | 53.4 | 2.4 | 54.6 | 2.3 | 56.4 | 2.3 | 57.0 | 2.2 | 57.6 | 2.0 | | |
| 55 | 48.1 | 2.0 | 49.4 | 2.0 | 51.1 | 2.0 | 51.5 | 1.9 | 52.0 | 1.9 | | |
| 60 | 42.2 | 1.0 | 43.3 | 1.3 | 45.0 | 1.4 | 45.1 | 1.5 | | | | |

Note

- Refer to lifting capacity tables for luffing jib.
The working radii are based on the values obtained when the boom is fully extended (50 m). Jib operations should be performed on the basis of boom angle only, regardless of boom length when the boom is not fully extended.
- Refer to lifting capacity table for main boom.
When using the main boom with 11 m jib (or luffing jib) installed, 5500 kg (or 7000 kg) plus the weight of hook block and other lifting equipment, etc., should be subtracted from the rated lifting capacities for main boom. (Fig. 1 and 2)
- Refer to lifting capacity tables for luffing jib.
When using 11 m jib with luffing jib installed, 2300 kg plus the weight of hook block and other lifting equipment, etc., should be subtracted from the rated lifting capacities for 11 m jib. (Fig. 2)



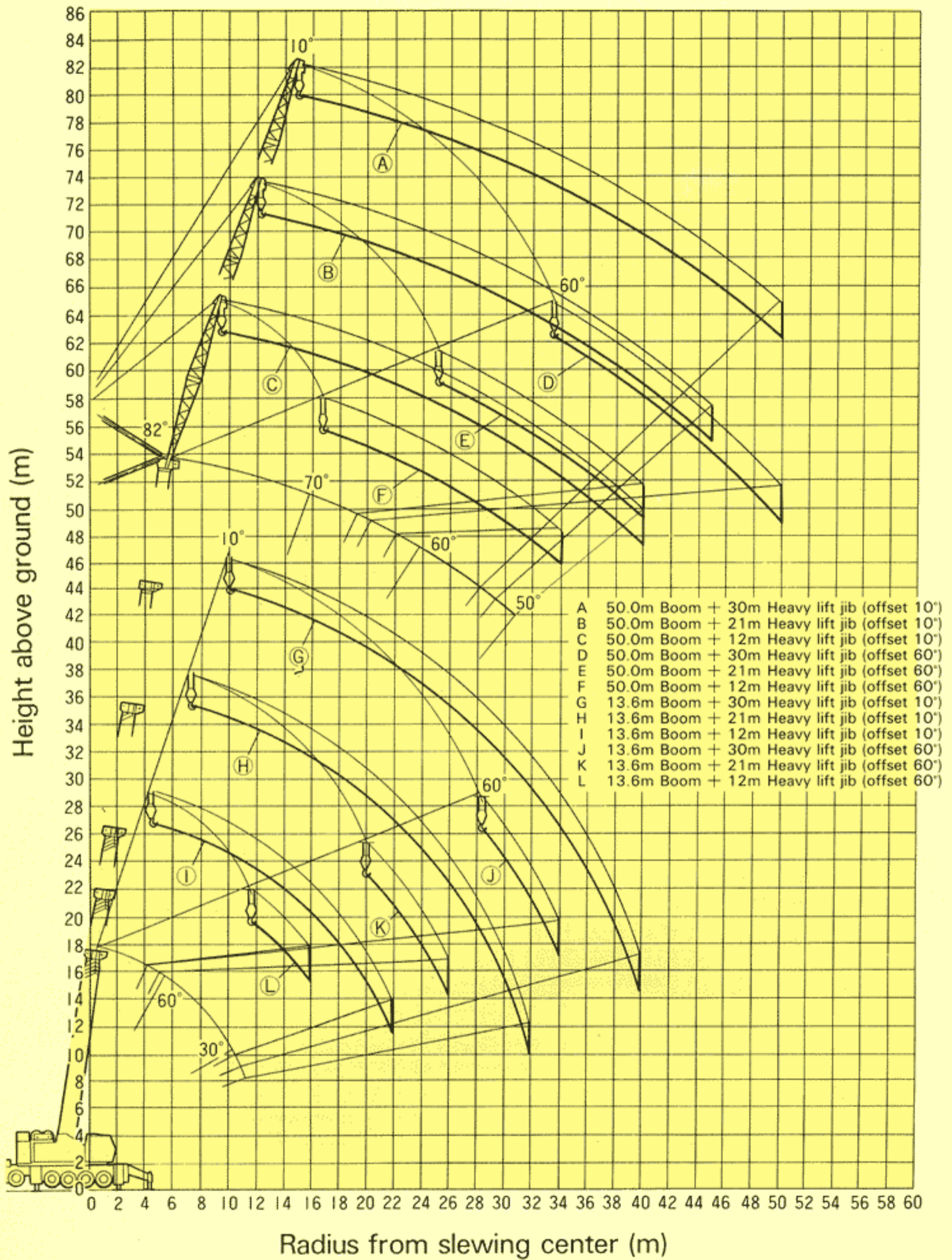
SPECIFICATION OF LUFFING JIB

- Jib length:
11 m
11 m + 10 m
11 m + 17 m
- Jib offset angle:
10° ~ 60°
(Jib angle against main boom)
- Jib offset device:
By double acting hydraulic cylinder

| 50 m Boom + 11 m Jib | | |
|----------------------|----------------|------|
| 360° full range | | |
| Working radius (m) | Boom angle (°) | Load |
| 14 | 77.0 | 16.0 |
| 16 | 75.1 | 14.5 |
| 18 | 73.3 | 12.8 |
| 20 | 71.3 | 11.5 |
| 22 | 69.1 | 10.4 |
| 24 | 67.0 | 9.3 |
| 26 | 64.8 | 8.5 |
| 28 | 62.8 | 7.6 |
| 30 | 60.8 | 6.8 |
| 32 | 58.9 | 6.0 |
| 34 | 56.3 | 5.2 |
| 36 | 54.0 | 4.5 |
| 38 | 51.5 | 4.0 |
| 40 | 48.8 | 3.4 |
| 45 | 42.1 | 2.0 |

HEAVY LIFT JIB

WORKING RANGES





● 12 m Heavy Lift Jib

RATED LIFTING CAPACITY

Based on ^{*BS 1757 : 1981}
^{*DIN 15019-2}
^{*75% of tipping loads}

Counterweight – 37 ton
Outrigger width – 8.6 m
Front jack – extended

(Unit: metric ton)

■ 13.6 m Boom + 12 m Heavy Lift Jib

| 13.6 m Boom + 12 m Heavy Lift Jib | | | | | |
|-----------------------------------|---------------|---------------|---------------|---------------|---------------|
| 360° full range | | | | | |
| Working radius (m) | Jib angle 10° | Jib angle 20° | Jib angle 30° | Jib angle 45° | Jib angle 60° |
| 6.0 | 75.0 | | | | |
| 7.0 | 75.0 | | | | |
| 8.0 | 71.5 | 58.2 | | | |
| 9.0 | 65.5 | 55.2 | | | |
| 10.0 | 60.4 | 52.7 | 45.0 | | |
| 11.0 | 54.2 | 48.8 | 43.4 | | |
| 12.0 | 49.1 | 45.2 | 41.4 | 35.0 | |
| 14.0 | 40.8 | 39.4 | 38.1 | 33.6 | 25.0 |
| 16.0 | 34.6 | 35.0 | 35.4 | 31.9 | 25.0 |
| 18.0 | 29.7 | 30.2 | 30.8 | 30.7 | |
| 20.0 | 25.8 | 26.1 | 26.5 | 26.7 | |
| 22.0 | 22.6 | 22.6 | 22.7 | | |

■ 31.8 m Boom + 12 m Heavy Lift Jib

| 31.8 m Boom + 12 m Heavy Lift Jib | | | | | |
|-----------------------------------|---------------|---------------|---------------|---------------|---------------|
| 360° full range | | | | | |
| Working radius (m) | Jib angle 10° | Jib angle 20° | Jib angle 30° | Jib angle 45° | Jib angle 60° |
| 10.0 | 35.0 | | | | |
| 11.0 | 35.0 | | | | |
| 12.0 | 33.0 | 29.5 | | | |
| 14.0 | 29.0 | 27.5 | 26.0 | | |
| 16.0 | 26.0 | 26.0 | 26.0 | 24.0 | |
| 18.0 | 23.0 | 23.5 | 24.0 | 24.0 | 24.0 |
| 20.0 | 20.5 | 21.2 | 22.0 | 23.0 | 24.0 |
| 22.0 | 18.5 | 19.2 | 20.0 | 20.9 | 21.8 |
| 24.0 | 16.4 | 17.0 | 17.6 | 18.2 | 18.5 |
| 26.0 | 13.9 | 14.4 | 14.9 | 15.5 | 15.7 |
| 28.0 | 11.7 | 12.2 | 12.7 | 13.1 | |
| 30.0 | 9.7 | 10.2 | 10.7 | 11.0 | |
| 32.0 | 7.9 | 8.3 | 8.7 | 8.9 | |
| 34.0 | 6.4 | 6.7 | 7.0 | | |
| 36.0 | 5.1 | 5.3 | 5.5 | | |
| 38.0 | 3.9 | 4.0 | 4.1 | | |
| 40.0 | 2.7 | 2.7 | | | |

■ 18.15 m Boom + 12 m Heavy Lift Jib

| 18.15 m Boom + 12 m Heavy Lift Jib | | | | | |
|------------------------------------|---------------|---------------|---------------|---------------|---------------|
| 360° full range | | | | | |
| Working radius (m) | Jib angle 10° | Jib angle 20° | Jib angle 30° | Jib angle 45° | Jib angle 60° |
| 7.0 | 57.0 | | | | |
| 8.0 | 57.0 | | | | |
| 9.0 | 57.0 | 52.5 | | | |
| 10.0 | 53.0 | 50.5 | | | |
| 11.0 | 49.5 | 48.7 | 43.4 | | |
| 12.0 | 46.0 | 45.2 | 41.4 | 35.0 | |
| 14.0 | 37.7 | 39.0 | 38.1 | 33.6 | 25.0 |
| 16.0 | 31.5 | 32.6 | 33.7 | 31.9 | 25.0 |
| 18.0 | 26.5 | 27.4 | 28.4 | 29.4 | 24.9 |
| 20.0 | 22.6 | 23.3 | 24.1 | 25.0 | |
| 22.0 | 19.3 | 19.9 | 20.5 | 21.0 | |
| 24.0 | 12.0 | 12.0 | 12.0 | | |

■ 40.9 m Boom + 12 m Heavy Lift Jib

| 40.9 m Boom + 12 m Heavy Lift Jib | | | | | |
|-----------------------------------|---------------|---------------|---------------|---------------|---------------|
| 360° full range | | | | | |
| Working radius (m) | Jib angle 10° | Jib angle 20° | Jib angle 30° | Jib angle 45° | Jib angle 60° |
| 12.0 | 16.0 | | | | |
| 14.0 | 16.0 | 14.5 | | | |
| 16.0 | 16.0 | 14.5 | 13.0 | | |
| 18.0 | 15.7 | 14.3 | 12.9 | 11.0 | 9.5 |
| 20.0 | 15.4 | 14.0 | 12.7 | 11.0 | 9.5 |
| 22.0 | 14.1 | 13.3 | 12.6 | 11.0 | 9.5 |
| 24.0 | 12.6 | 12.5 | 12.5 | 11.0 | 9.5 |
| 26.0 | 11.2 | 11.8 | 12.4 | 11.0 | 9.5 |
| 28.0 | 10.1 | 10.7 | 11.3 | 11.0 | 9.5 |
| 30.0 | 9.0 | 9.5 | 10.0 | 10.4 | 9.5 |
| 32.0 | 8.0 | 8.4 | 8.9 | 9.0 | |
| 34.0 | 6.2 | 6.7 | 7.3 | 7.8 | |
| 36.0 | 5.0 | 5.4 | 5.9 | 6.2 | |
| 38.0 | 3.8 | 4.2 | 4.6 | 4.7 | |
| 40.0 | 2.7 | 3.0 | 3.4 | | |

■ 22.7 m Boom + 12 m Heavy Lift Jib

| 22.7 m Boom + 12 m Heavy Lift Jib | | | | | |
|-----------------------------------|---------------|---------------|---------------|---------------|---------------|
| 360° full range | | | | | |
| Working radius (m) | Jib angle 10° | Jib angle 20° | Jib angle 30° | Jib angle 45° | Jib angle 60° |
| 8.0 | 57.0 | | | | |
| 9.0 | 57.0 | | | | |
| 10.0 | 53.0 | 50.5 | | | |
| 11.0 | 49.5 | 48.7 | 48.0 | | |
| 12.0 | 46.0 | 46.4 | 46.9 | | |
| 14.0 | 37.7 | 39.0 | 40.4 | 35.0 | |
| 16.0 | 31.5 | 32.6 | 33.7 | 35.0 | 28.0 |
| 18.0 | 26.5 | 27.4 | 28.4 | 29.4 | 28.0 |
| 20.0 | 22.6 | 23.3 | 24.1 | 25.0 | 25.3 |
| 22.0 | 19.3 | 19.9 | 20.5 | 21.0 | |
| 24.0 | 16.2 | 16.7 | 17.3 | 17.8 | |
| 26.0 | 13.7 | 14.0 | 14.4 | 14.7 | |
| 28.0 | 11.5 | 11.7 | 12.0 | | |
| 30.0 | 9.7 | 9.7 | 9.8 | | |
| 32.0 | 7.6 | | | | |

■ 50 m Boom + 12 m Heavy Lift Jib

| 50 m Boom + 12 m Heavy Lift Jib | | | | | |
|---------------------------------|---------------|---------------|---------------|---------------|---------------|
| 360° full range | | | | | |
| Working radius (m) | Jib angle 10° | Jib angle 20° | Jib angle 30° | Jib angle 45° | Jib angle 60° |
| 14.0 | 12.0 | | | | |
| 16.0 | 12.0 | 11.0 | | | |
| 18.0 | 12.0 | 11.0 | 10.0 | | |
| 20.0 | 12.0 | 11.0 | 10.0 | 8.8 | 7.5 |
| 22.0 | 11.7 | 11.0 | 10.0 | 8.8 | 7.5 |
| 24.0 | 10.4 | 10.3 | 9.9 | 8.8 | 7.5 |
| 26.0 | 9.4 | 9.6 | 9.8 | 8.8 | 7.5 |
| 28.0 | 8.3 | 8.8 | 9.2 | 8.8 | 7.5 |
| 30.0 | 7.4 | 7.8 | 8.2 | 8.7 | 7.5 |
| 32.0 | 6.6 | 7.0 | 7.3 | 7.8 | 7.5 |
| 34.0 | 5.9 | 6.2 | 6.5 | 7.0 | 7.3 |
| 36.0 | 5.3 | 5.5 | 5.8 | 6.2 | |
| 38.0 | 4.5 | 4.9 | 5.2 | 5.5 | |
| 40.0 | 3.4 | 3.7 | 4.1 | 4.4 | |
| 45.0 | | | 1.7 | 1.8 | |



• 21 m Heavy Lift Jib

■ 13.6 m Boom + 21 m Heavy Lift Jib

| 13.6 m Boom + 21 m Heavy Lift Jib | | | | | |
|-----------------------------------|---------------|---------------|---------------|---------------|---------------|
| 360° full range | | | | | |
| Working radius (m) | Jib angle 10° | Jib angle 20° | Jib angle 30° | Jib angle 45° | Jib angle 60° |
| 9.0 | 45.0 | | | | |
| 10.0 | 45.0 | | | | |
| 11.0 | 44.4 | | | | |
| 12.0 | 43.0 | | | | |
| 14.0 | 38.7 | 32.8 | | | |
| 16.0 | 34.3 | 30.6 | 27.0 | | |
| 18.0 | 30.8 | 27.9 | 25.0 | | |
| 20.0 | 28.0 | 25.6 | 23.2 | 19.0 | |
| 22.0 | 24.6 | 23.1 | 21.7 | 18.3 | 14.0 |
| 24.0 | 21.6 | 21.0 | 20.5 | 17.5 | 13.7 |
| 26.0 | 19.1 | 19.3 | 19.5 | 16.8 | 13.4 |
| 28.0 | 17.0 | 17.3 | 17.7 | 16.3 | |
| 30.0 | 15.1 | 15.4 | 15.7 | | |
| 32.0 | 13.0 | 13.1 | | | |

■ 31.8 m Boom + 21 m Heavy Lift Jib

| 31.8 m Boom + 21 m Heavy Lift Jib | | | | | |
|-----------------------------------|---------------|---------------|---------------|---------------|---------------|
| 360° full range | | | | | |
| Working radius (m) | Jib angle 10° | Jib angle 20° | Jib angle 30° | Jib angle 45° | Jib angle 60° |
| 14.0 | 25.0 | | | | |
| 16.0 | 25.0 | 22.5 | | | |
| 18.0 | 22.8 | 21.4 | | | |
| 20.0 | 20.6 | 20.3 | 20.0 | | |
| 22.0 | 18.7 | 19.3 | 20.0 | | |
| 24.0 | 17.0 | 17.7 | 18.5 | 18.0 | |
| 26.0 | 15.5 | 16.2 | 17.0 | 18.0 | 15.0 |
| 28.0 | 13.8 | 14.6 | 15.5 | 16.6 | 15.0 |
| 30.0 | 11.9 | 12.7 | 13.6 | 14.5 | 15.0 |
| 32.0 | 10.3 | 11.0 | 11.8 | 12.6 | 13.1 |
| 34.0 | 8.8 | 9.5 | 10.3 | 10.9 | 11.3 |
| 36.0 | 7.3 | 8.0 | 8.8 | 9.5 | |
| 38.0 | 6.1 | 6.7 | 7.3 | 7.9 | |
| 40.0 | 5.0 | 5.5 | 6.1 | 6.5 | |
| 45.0 | 2.7 | 2.9 | 3.2 | | |

■ 18.15 m Boom + 21 m Heavy Lift Jib

| 18.15 m Boom + 21 m Heavy Lift Jib | | | | | |
|------------------------------------|---------------|---------------|---------------|---------------|---------------|
| 360° full range | | | | | |
| Working radius (m) | Jib angle 10° | Jib angle 20° | Jib angle 30° | Jib angle 45° | Jib angle 60° |
| 10.0 | 40.0 | | | | |
| 11.0 | 40.0 | | | | |
| 12.0 | 40.0 | | | | |
| 14.0 | 38.0 | 32.5 | | | |
| 16.0 | 34.1 | 30.5 | 27.0 | | |
| 18.0 | 29.1 | 27.9 | 25.0 | | |
| 20.0 | 25.1 | 25.3 | 23.2 | 19.0 | |
| 22.0 | 21.8 | 22.9 | 21.7 | 18.3 | 14.0 |
| 24.0 | 18.8 | 19.8 | 20.5 | 17.5 | 13.7 |
| 26.0 | 16.2 | 17.1 | 18.0 | 16.8 | 13.4 |
| 28.0 | 14.0 | 14.8 | 15.6 | 16.3 | 13.4 |
| 30.0 | 12.1 | 12.8 | 13.5 | 14.3 | |
| 32.0 | 10.5 | 11.1 | 11.7 | 12.3 | |
| 34.0 | 3.5 | 6.9 | 10.0 | | |

■ 40.9 m Boom + 21 m Heavy Lift Jib

| 40.9 m Boom + 21 m Heavy Lift Jib | | | | | |
|-----------------------------------|---------------|---------------|---------------|---------------|---------------|
| 360° full range | | | | | |
| Working radius (m) | Jib angle 10° | Jib angle 20° | Jib angle 30° | Jib angle 45° | Jib angle 60° |
| 16.0 | 11.0 | | | | |
| 18.0 | 11.0 | 9.5 | | | |
| 20.0 | 11.0 | 9.5 | | | |
| 22.0 | 10.5 | 9.2 | 8.0 | | |
| 24.0 | 10.0 | 9.0 | 8.0 | 6.5 | |
| 26.0 | 9.9 | 8.9 | 7.9 | 6.5 | |
| 28.0 | 9.6 | 8.7 | 7.8 | 6.5 | 5.4 |
| 30.0 | 8.8 | 8.2 | 7.7 | 6.5 | 5.4 |
| 32.0 | 8.0 | 7.8 | 7.6 | 6.5 | 5.4 |
| 34.0 | 7.3 | 7.4 | 7.5 | 6.5 | 5.4 |
| 36.0 | 6.6 | 7.0 | 7.4 | 6.5 | 5.4 |
| 38.0 | 5.7 | 6.3 | 6.9 | 6.5 | 5.4 |
| 40.0 | 4.5 | 5.2 | 5.9 | 6.5 | 5.4 |
| 45.0 | 2.2 | 2.7 | 3.2 | 3.6 | 3.7 |

■ 22.7 m Boom + 21 m Heavy Lift Jib

| 22.7 m Boom + 21 m Heavy Lift Jib | | | | | |
|-----------------------------------|---------------|---------------|---------------|---------------|---------------|
| 360° full range | | | | | |
| Working radius (m) | Jib angle 10° | Jib angle 20° | Jib angle 30° | Jib angle 45° | Jib angle 60° |
| 11.0 | 40.0 | | | | |
| 12.0 | 40.0 | | | | |
| 14.0 | 38.0 | 32.5 | | | |
| 16.0 | 34.1 | 30.5 | | | |
| 18.0 | 29.1 | 28.0 | 27.0 | | |
| 20.0 | 25.1 | 25.3 | 25.5 | | |
| 22.0 | 21.8 | 22.9 | 24.1 | 20.0 | |
| 24.0 | 18.8 | 19.8 | 20.8 | 20.0 | 16.0 |
| 26.0 | 16.2 | 17.1 | 18.0 | 19.1 | 15.6 |
| 28.0 | 14.0 | 14.8 | 15.6 | 16.6 | 15.2 |
| 30.0 | 12.1 | 12.8 | 13.5 | 14.3 | 14.8 |
| 32.0 | 10.5 | 11.1 | 11.7 | 12.3 | |
| 34.0 | 9.0 | 9.5 | 10.0 | 10.5 | |
| 36.0 | 7.6 | 8.0 | 8.5 | | |
| 38.0 | 6.2 | 6.6 | 7.0 | | |
| 40.0 | 5.2 | 5.2 | | | |

■ 50 m Boom + 21 m Heavy Lift Jib

| 50 m Boom + 21 m Heavy Lift Jib | | | | | |
|---------------------------------|---------------|---------------|---------------|---------------|---------------|
| 360° full range | | | | | |
| Working radius (m) | Jib angle 10° | Jib angle 20° | Jib angle 30° | Jib angle 45° | Jib angle 60° |
| 16.0 | 9.5 | | | | |
| 18.0 | 9.2 | | | | |
| 20.0 | 8.8 | 7.4 | | | |
| 22.0 | 8.5 | 7.2 | 6.0 | | |
| 24.0 | 8.3 | 7.1 | 6.0 | | |
| 26.0 | 8.0 | 7.0 | 6.0 | 5.0 | |
| 28.0 | 7.7 | 6.8 | 6.0 | 5.0 | |
| 30.0 | 6.9 | 6.4 | 6.0 | 5.0 | 4.0 |
| 32.0 | 6.3 | 6.1 | 6.0 | 5.0 | 4.0 |
| 34.0 | 5.6 | 5.8 | 6.0 | 5.0 | 4.0 |
| 36.0 | 5.1 | 5.5 | 5.9 | 5.0 | 4.0 |
| 38.0 | 4.5 | 4.9 | 5.3 | 5.0 | 4.0 |
| 40.0 | 4.0 | 4.4 | 4.8 | 5.0 | 4.0 |
| 45.0 | 2.5 | 3.0 | 3.5 | 4.0 | |
| 50.0 | | | 1.6 | 2.0 | |



● 30 m Heavy Lift Jib

■ 13.6 m Boom + 30 m Heavy Lift Jib

| 13.6 m Boom + 30 m Heavy Lift Jib 360° full range | | | | | |
|--|---------------|---------------|---------------|---------------|---------------|
| Working radius (m) | Jib angle 10° | Jib angle 20° | Jib angle 30° | Jib angle 45° | Jib angle 60° |
| 14.0 | 24.0 | | | | |
| 16.0 | 23.0 | | | | |
| 18.0 | 21.7 | 19.8 | | | |
| 20.0 | 20.5 | 19.2 | 18.0 | | |
| 22.0 | 19.3 | 18.3 | 17.4 | | |
| 24.0 | 18.2 | 17.4 | 16.7 | | |
| 26.0 | 17.2 | 16.6 | 16.1 | | |
| 28.0 | 16.4 | 15.8 | 15.2 | 12.0 | |
| 30.0 | 15.6 | 14.9 | 14.3 | 12.0 | 9.0 |
| 32.0 | 14.6 | 14.1 | 13.6 | 11.5 | 9.0 |
| 34.0 | 13.3 | 13.1 | 13.0 | 11.0 | 8.7 |
| 36.0 | 12.0 | 12.2 | 12.4 | 10.7 | |
| 38.0 | 10.9 | 11.2 | 11.5 | 10.5 | |
| 40.0 | 9.9 | 10.0 | 10.2 | | |

■ 18.15 m Boom + 30 m Heavy Lift Jib

| 18.15 m Boom + 30 m Heavy Lift Jib 360° full range | | | | | |
|---|---------------|---------------|---------------|---------------|---------------|
| Working radius (m) | Jib angle 10° | Jib angle 20° | Jib angle 30° | Jib angle 45° | Jib angle 60° |
| 14.0 | 24.0 | | | | |
| 16.0 | 23.0 | | | | |
| 18.0 | 21.7 | 19.8 | | | |
| 20.0 | 20.5 | 19.2 | | | |
| 22.0 | 19.3 | 18.3 | 17.0 | | |
| 24.0 | 18.2 | 17.4 | 16.7 | | |
| 26.0 | 17.2 | 16.6 | 16.1 | | |
| 28.0 | 15.6 | 15.7 | 15.2 | 12.0 | |
| 30.0 | 13.7 | 14.5 | 14.3 | 12.0 | |
| 32.0 | 12.0 | 13.0 | 13.6 | 11.5 | 9.0 |
| 34.0 | 10.6 | 11.4 | 12.2 | 11.0 | 8.7 |
| 36.0 | 9.3 | 10.1 | 10.9 | 10.7 | 8.6 |
| 38.0 | 8.2 | 8.9 | 9.6 | 10.4 | |
| 40.0 | 7.0 | 7.7 | 8.4 | 9.1 | |

■ 22.7 m Boom + 30 m Heavy Lift Jib

| 22.7 m Boom + 30 m Heavy Lift Jib 360° full range | | | | | |
|--|---------------|---------------|---------------|---------------|---------------|
| Working radius (m) | Jib angle 10° | Jib angle 20° | Jib angle 30° | Jib angle 45° | Jib angle 60° |
| 14.0 | 24.0 | | | | |
| 16.0 | 23.5 | | | | |
| 18.0 | 23.0 | | | | |
| 20.0 | 21.6 | 19.3 | | | |
| 22.0 | 20.3 | 18.6 | | | |
| 24.0 | 19.2 | 18.1 | 17.0 | | |
| 26.0 | 17.8 | 17.2 | 16.6 | | |
| 28.0 | 15.6 | 15.7 | 15.9 | 14.0 | |
| 30.0 | 13.7 | 14.5 | 15.3 | 13.9 | |
| 32.0 | 12.0 | 13.0 | 14.0 | 13.1 | 10.0 |
| 34.0 | 10.6 | 11.4 | 12.2 | 12.5 | 10.0 |
| 36.0 | 9.3 | 10.1 | 10.9 | 11.8 | 10.0 |
| 38.0 | 8.2 | 8.9 | 9.6 | 10.4 | 9.8 |
| 40.0 | 7.0 | 7.7 | 8.4 | 9.1 | |
| 45.0 | 4.6 | 5.0 | 5.5 | | |
| 50.0 | 2.6 | | | | |

■ 31.8 m Boom + 30 m Heavy Lift Jib

| 31.8 m Boom + 30 m Heavy Lift Jib 360° full range | | | | | |
|--|---------------|---------------|---------------|---------------|---------------|
| Working radius (m) | Jib angle 10° | Jib angle 20° | Jib angle 30° | Jib angle 45° | Jib angle 60° |
| 16.0 | 16.0 | | | | |
| 18.0 | 16.0 | | | | |
| 20.0 | 16.0 | | | | |
| 22.0 | 16.0 | 16.0 | | | |
| 24.0 | 16.0 | 16.0 | | | |
| 26.0 | 14.5 | 15.2 | 16.0 | | |
| 28.0 | 13.2 | 14.0 | 14.8 | | |
| 30.0 | 12.1 | 12.8 | 13.6 | 13.0 | |
| 32.0 | 11.2 | 11.8 | 12.5 | 13.0 | |
| 34.0 | 10.1 | 10.8 | 11.6 | 12.7 | 10.0 |
| 36.0 | 8.7 | 9.6 | 10.6 | 11.7 | 10.0 |
| 38.0 | 7.5 | 8.4 | 9.3 | 10.3 | 10.0 |
| 40.0 | 6.3 | 7.2 | 8.1 | 9.1 | 9.7 |
| 45.0 | 4.0 | 4.7 | 5.4 | 6.2 | |
| 50.0 | 2.1 | 2.6 | 3.1 | 3.5 | |

■ 40.9 m Boom + 30 m Heavy Lift Jib

| 40.9 m Boom + 30 m Heavy Lift Jib 360° full range | | | | | |
|--|---------------|---------------|---------------|---------------|---------------|
| Working radius (m) | Jib angle 10° | Jib angle 20° | Jib angle 30° | Jib angle 45° | Jib angle 60° |
| 18.0 | 8.0 | | | | |
| 20.0 | 8.0 | | | | |
| 22.0 | 8.0 | | | | |
| 24.0 | 8.0 | 6.7 | | | |
| 26.0 | 7.7 | 6.6 | | | |
| 28.0 | 7.4 | 6.4 | 5.5 | | |
| 30.0 | 7.2 | 6.3 | 5.5 | | |
| 32.0 | 6.9 | 6.2 | 5.5 | 4.2 | |
| 34.0 | 6.4 | 5.8 | 5.3 | 4.2 | |
| 36.0 | 5.8 | 5.5 | 5.2 | 4.2 | 3.3 |
| 38.0 | 5.3 | 5.2 | 5.1 | 4.2 | 3.3 |
| 40.0 | 4.9 | 4.9 | 5.0 | 4.2 | 3.3 |
| 45.0 | 3.8 | 4.2 | 4.7 | 4.1 | 3.3 |
| 50.0 | 1.8 | 2.5 | 3.2 | 3.9 | |
| 55.0 | | | | 1.7 | |

■ 50 m Boom + 30 m Heavy Lift Jib

| 50 m Boom + 30 m Heavy Lift Jib 360° full range | | | | | |
|--|---------------|---------------|---------------|---------------|---------------|
| Working radius (m) | Jib angle 10° | Jib angle 20° | Jib angle 30° | Jib angle 45° | Jib angle 60° |
| 20.0 | 6.6 | | | | |
| 22.0 | 6.3 | | | | |
| 24.0 | 6.1 | 5.1 | | | |
| 26.0 | 5.8 | 4.9 | | | |
| 28.0 | 5.6 | 4.8 | 4.1 | | |
| 30.0 | 5.4 | 4.7 | 4.0 | | |
| 32.0 | 5.2 | 4.5 | 3.9 | | |
| 34.0 | 4.9 | 4.3 | 3.8 | 2.8 | |
| 36.0 | 4.4 | 4.0 | 3.7 | 2.8 | |
| 38.0 | 3.9 | 3.7 | 3.6 | 2.8 | 2.2 |
| 40.0 | 3.5 | 3.5 | 3.6 | 2.8 | 2.2 |
| 45.0 | 2.6 | 3.0 | 3.4 | 2.8 | 2.2 |
| 50.0 | 1.6 | 2.0 | 2.5 | 2.8 | 2.2 |
| 55.0 | | | | 2.0 | |

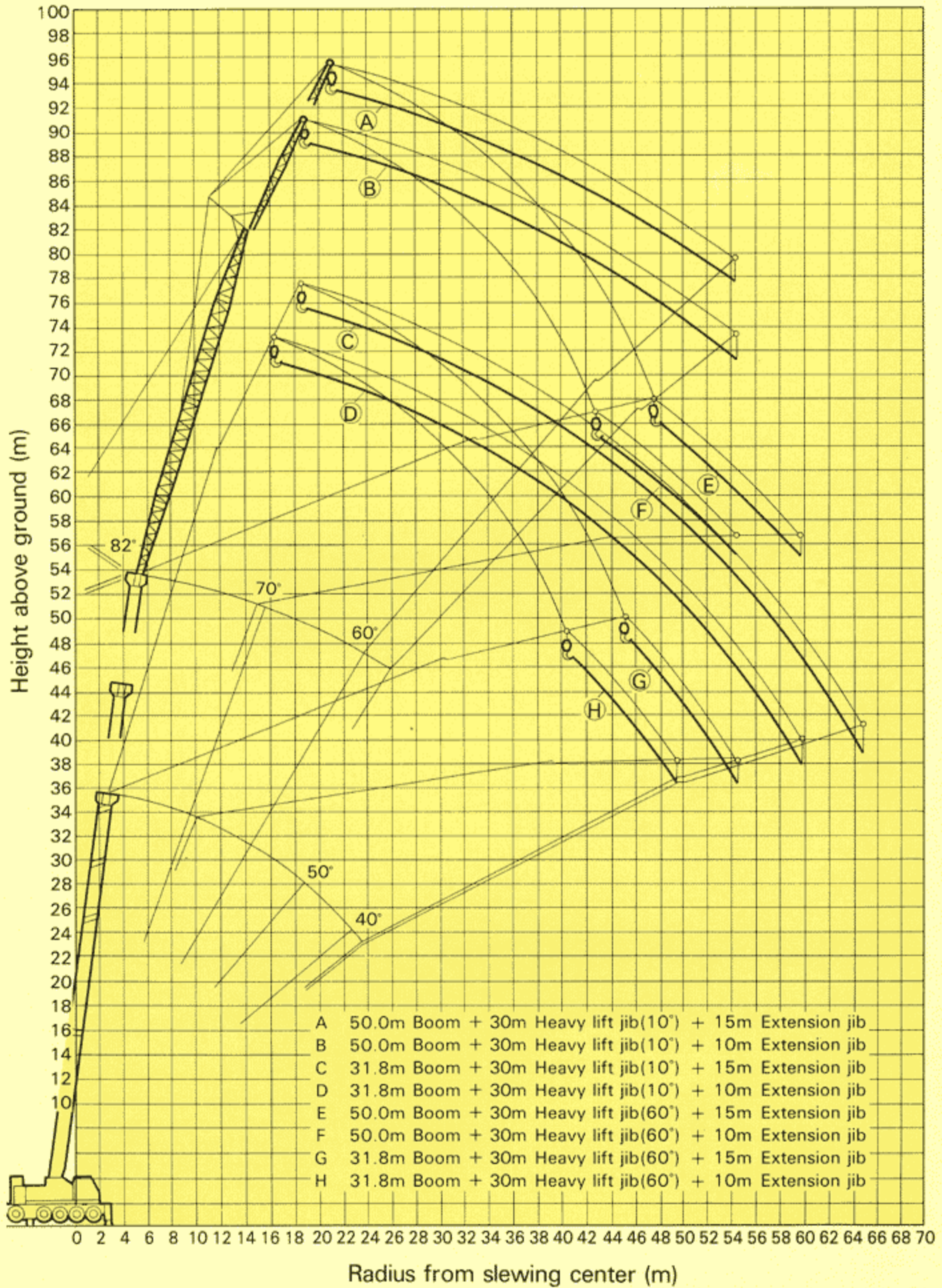
SPECIFICATION OF HEAVY LIFT JIB

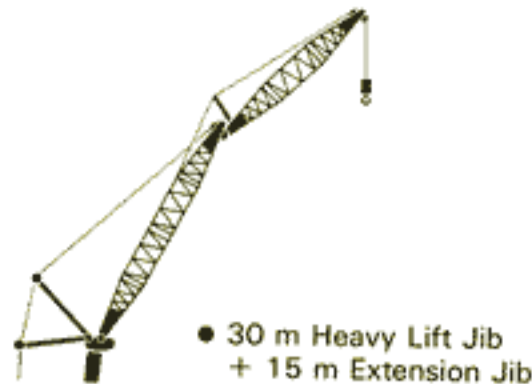
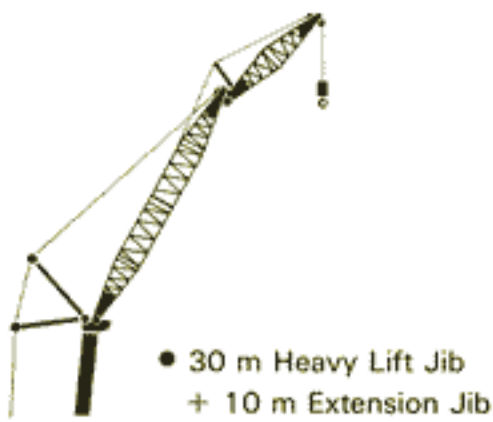
- Jib length: 12 m, 21 m, 30m
- Jib offset angle: 10° ~ 60°
(Jib angle against main boom)
- Jib offset device: By auxiliary winch
- Jib back stopper: By double acting hydraulic cylinder

| Max. lifting capacities | | | |
|-------------------------|----------------|--------------------|--------------------|
| Boom length (m) | Jib length (m) | Lifting load (ton) | Working radius (m) |
| 13.6 | 12 | 75.0 | 7.0 |
| | 21 | 45.0 | 10.0 |
| | 30 | 24.0 | 14.0 |
| 18.15 | 12 | 57.0 | 9.0 |
| | 21 | 40.0 | 12.0 |
| | 30 | 24.0 | 14.0 |
| 22.7 | 12 | 57.0 | 9.0 |
| | 21 | 40.0 | 12.0 |
| | 30 | 24.0 | 14.0 |
| 31.8 | 12 | 35.0 | 11.0 |
| | 21 | 25.0 | 16.0 |
| | 30 | 16.0 | 24.0 |
| 40.9 | 12 | 16.0 | 16.0 |
| | 21 | 11.0 | 20.0 |
| | 30 | 8.0 | 24.0 |
| 50.0 | 12 | 12.0 | 20.0 |
| | 21 | 9.5 | 16.0 |
| | 30 | 6.6 | 20.0 |

EXTENSION JIB

WORKING RANGES





RATED LIFTING CAPACITY

Based on *BS 1757 : 1981
*DIN 15019-2
*75% of tipping loads

Counterweight – 37 ton
Outrigger width – 8.6 m
Front jack – extended

(Unit: metric ton)

■ 31.8 m Boom + 30 m Heavy lift jib + 10 m Extension jib

| 31.8 m Boom + 30 m Heavy lift jib + 10 m Extension jib | | | | | |
|--|---------------|---------------|---------------|---------------|---------------|
| 360° full range | | | | | |
| Working radius (m) | Jib angle 10° | Jib angle 20° | Jib angle 30° | Jib angle 45° | Jib angle 60° |
| 20 | 7.50 | | | | |
| 25 | 7.50 | 7.00 | | | |
| 30 | 7.50 | 7.00 | | | |
| 35 | 7.50 | 7.00 | 6.50 | | |
| 40 | 7.50 | 6.70 | 6.50 | 5.50 | |
| 45 | 6.10 | 6.35 | 5.80 | 5.50 | 5.00 |
| 50 | 4.70 | 5.30 | 5.10 | 5.05 | 5.00 |
| 55 | 3.30 | 3.95 | 4.40 | 4.60 | |
| 60 | 1.90 | 2.40 | 2.70 | | |

■ 40.9 m Boom + 30 m Heavy lift jib + 15 m Extension jib

| 40.9 m Boom + 30 m Heavy lift jib + 15 m Extension jib | | | | | |
|--|---------------|---------------|---------------|---------------|---------------|
| 360° full range | | | | | |
| Working radius (m) | Jib angle 10° | Jib angle 20° | Jib angle 30° | Jib angle 45° | Jib angle 60° |
| 25 | 4.00 | | | | |
| 30 | 4.00 | 3.50 | | | |
| 35 | 4.00 | 3.50 | | | |
| 40 | 4.00 | 3.50 | 3.00 | | |
| 45 | 4.00 | 3.40 | 3.00 | 2.50 | |
| 50 | 3.20 | 3.30 | 2.80 | 2.35 | 1.60 |
| 55 | 2.40 | 2.85 | 2.60 | 2.20 | 1.60 |
| 60 | 1.60 | 2.05 | 2.40 | 2.05 | |
| 65 | | 1.25 | 1.50 | 1.90 | |

■ 40.9 m Boom + 30 m Heavy lift jib + 10 m Extension jib

| 40.9 m Boom + 30 m Heavy lift jib + 10 m Extension jib | | | | | |
|--|---------------|---------------|---------------|---------------|---------------|
| 360° full range | | | | | |
| Working radius (m) | Jib angle 10° | Jib angle 20° | Jib angle 30° | Jib angle 45° | Jib angle 60° |
| 25 | 5.20 | | | | |
| 30 | 5.20 | 4.85 | | | |
| 35 | 5.20 | 4.85 | 4.50 | | |
| 40 | 5.20 | 4.60 | 4.50 | 3.40 | |
| 45 | 4.20 | 4.40 | 4.00 | 3.10 | 2.00 |
| 50 | 3.20 | 3.65 | 3.50 | 2.80 | 2.00 |
| 55 | 2.20 | 2.60 | 3.00 | 2.50 | |
| 60 | 1.20 | 1.55 | 1.80 | 2.20 | |

■ 50 m Boom + 30 m Heavy lift jib + 15 m Extension jib

| 50 m Boom + 30 m Heavy lift jib + 15 m Extension jib | | | | | |
|--|---------------|---------------|---------------|---------------|---------------|
| 360° full range | | | | | |
| Working radius (m) | Jib angle 10° | Jib angle 20° | Jib angle 30° | Jib angle 45° | Jib angle 60° |
| 25 | 2.00 | | | | |
| 30 | 2.00 | | | | |
| 35 | 2.00 | 2.00 | | | |
| 40 | 2.00 | 2.00 | 2.00 | | |
| 45 | 2.00 | 1.90 | 2.00 | 1.50 | |
| 50 | 1.60 | 1.80 | 1.80 | 1.50 | 1.00 |
| 55 | 1.20 | 1.50 | 1.60 | 1.50 | 1.00 |
| 60 | | 1.00 | 1.40 | 1.50 | 1.00 |
| 65 | | | | 1.50 | |

■ 50 m Boom + 30 m Heavy lift jib + 10 m Extension jib

| 50 m Boom + 30 m Heavy lift jib + 10 m Extension jib | | | | | |
|--|---------------|---------------|---------------|---------------|---------------|
| 360° full range | | | | | |
| Working radius (m) | Jib angle 10° | Jib angle 20° | Jib angle 30° | Jib angle 45° | Jib angle 60° |
| 25 | 2.50 | | | | |
| 30 | 2.50 | 2.50 | | | |
| 35 | 2.50 | 2.50 | 2.50 | | |
| 40 | 2.50 | 2.50 | 2.50 | 1.60 | |
| 45 | 2.50 | 2.20 | 2.20 | 1.60 | 1.10 |
| 50 | 1.80 | 2.10 | 1.90 | 1.60 | 1.10 |
| 55 | 1.10 | 1.45 | 1.60 | 1.60 | 1.10 |
| 60 | | | 1.00 | 1.60 | |
| 65 | | | | 1.0 | |

■ 31.8 m Boom + 30 m Heavy lift jib + 15 m Extension jib

| 31.8 m Boom + 30 m Heavy lift jib + 15 m Extension jib | | | | | |
|--|---------------|---------------|---------------|---------------|---------------|
| 360° full range | | | | | |
| Working radius (m) | Jib angle 10° | Jib angle 20° | Jib angle 30° | Jib angle 45° | Jib angle 60° |
| 25 | 5.20 | 4.55 | | | |
| 30 | 5.20 | 4.55 | | | |
| 35 | 5.20 | 4.55 | 3.90 | | |
| 40 | 5.20 | 4.55 | 3.90 | 3.60 | |
| 45 | 4.70 | 4.45 | 3.90 | 3.60 | 3.20 |
| 50 | 4.20 | 4.15 | 3.70 | 3.40 | 3.20 |
| 55 | 3.70 | 3.55 | 3.50 | 3.20 | 3.20 |
| 60 | 2.60 | 3.00 | 3.30 | 3.00 | |
| 65 | 1.50 | 1.85 | 2.10 | | |

SPECIFICATION OF EXTENSION JIB

- Jib length: 30m Heavy lift jib + 10m, 15m
- Jib offset angle: 10° ~ 60°
(Heavy lift jib) (Heavy lift jib angle against main boom)
- Jib offset device: By auxiliary winch
(Heavy lift jib)
- Extension jib is attached 30m heavy lift jib and used with main boom extended to 31.8m or longer.

NK-1600

FULLY HYDRAULIC TRUCK CRANE

NOTE: KATO PRODUCTS AND SPECIFICATIONS ARE SUBJECT TO IMPROVEMENTS AND CHANGES WITHOUT NOTICE.

KATO

QUALITY & EXPERIENCE
SINCE 1895

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