

KATO

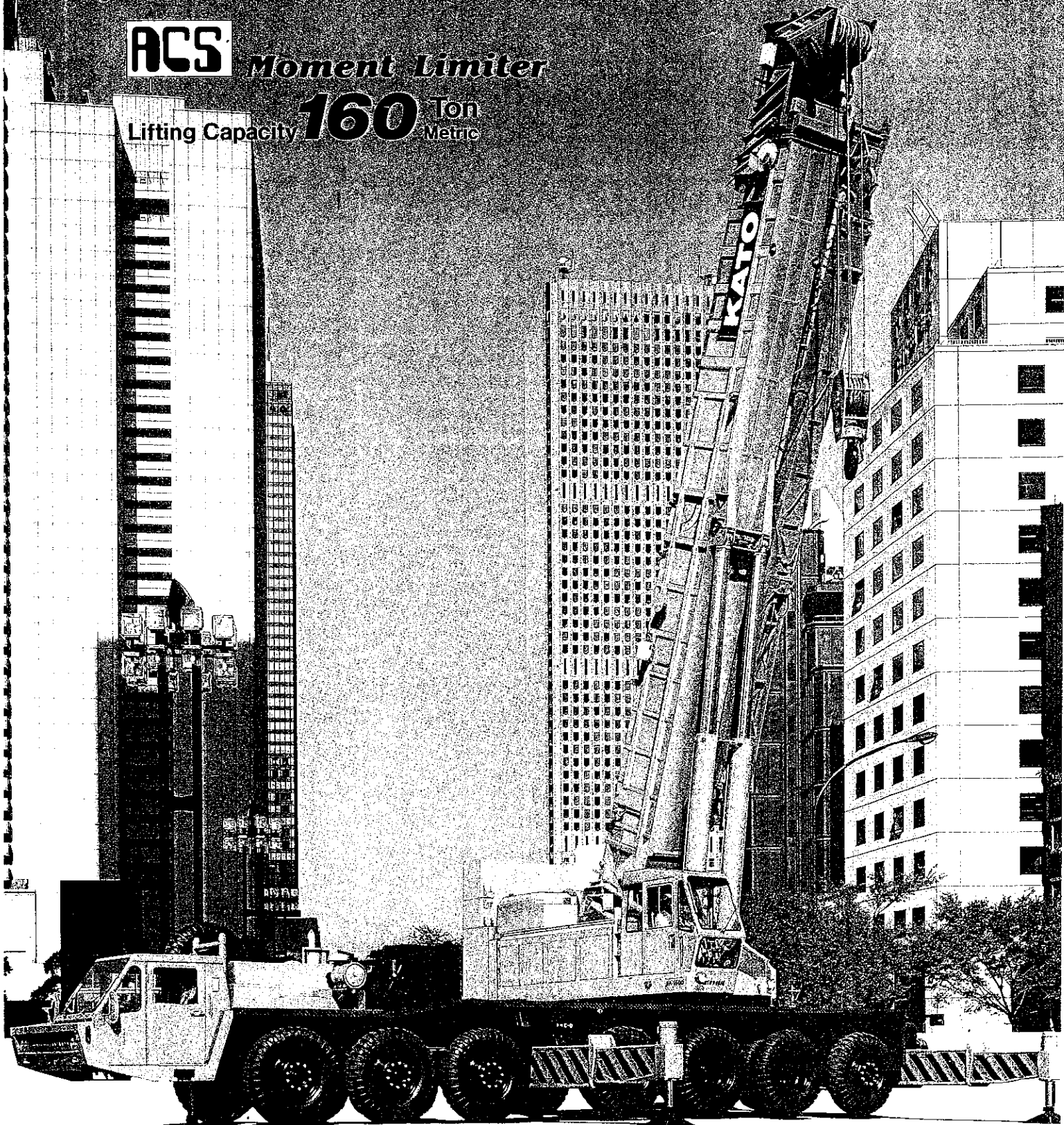
**FULLY HYDRAULIC
TRUCK CRANE**

NK-1600

ACS

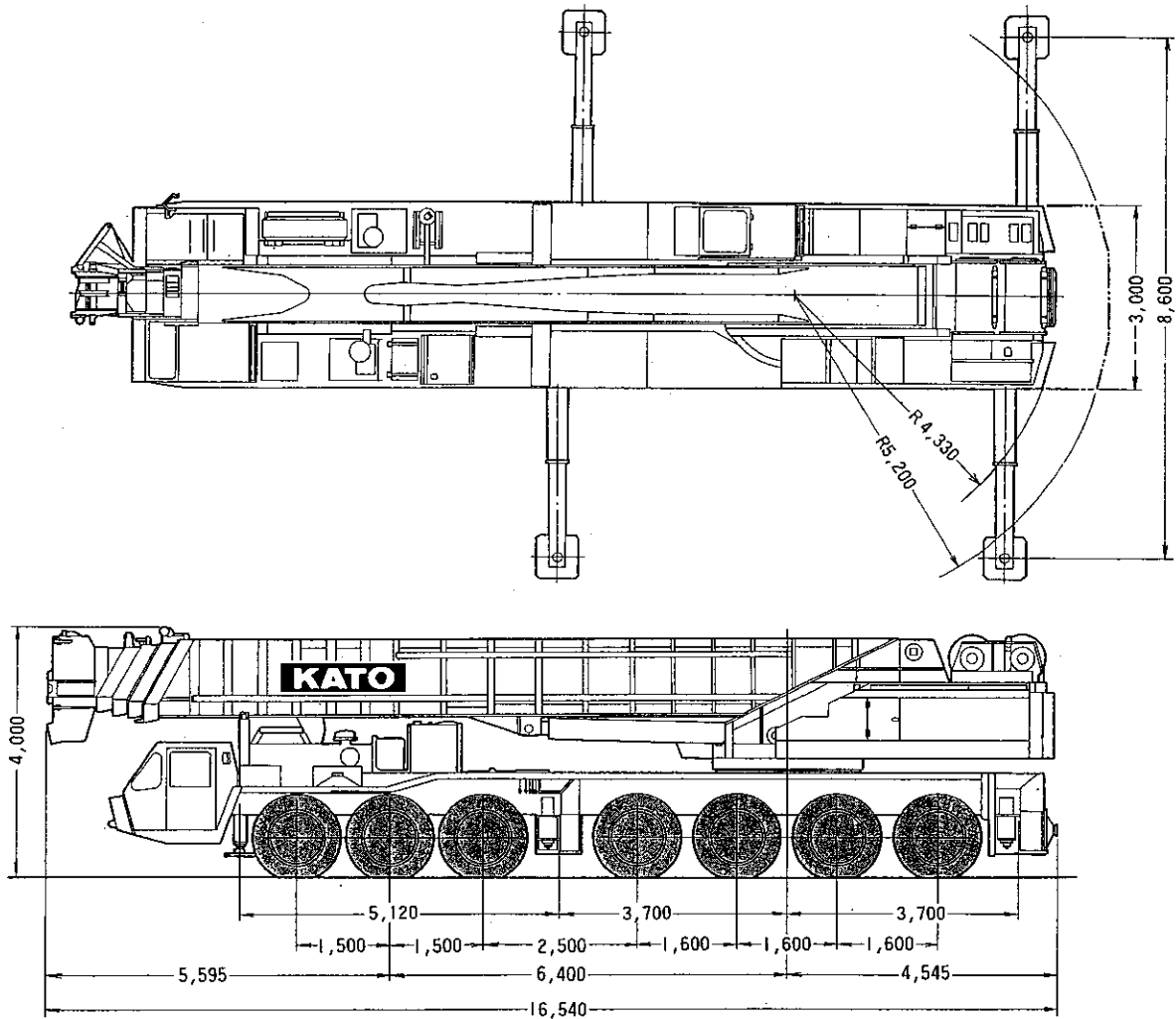
Moment Limiter

Lifting Capacity **160** Ton
Metre



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:	13.8 m (approx.)
(center of extreme outer tire)	
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

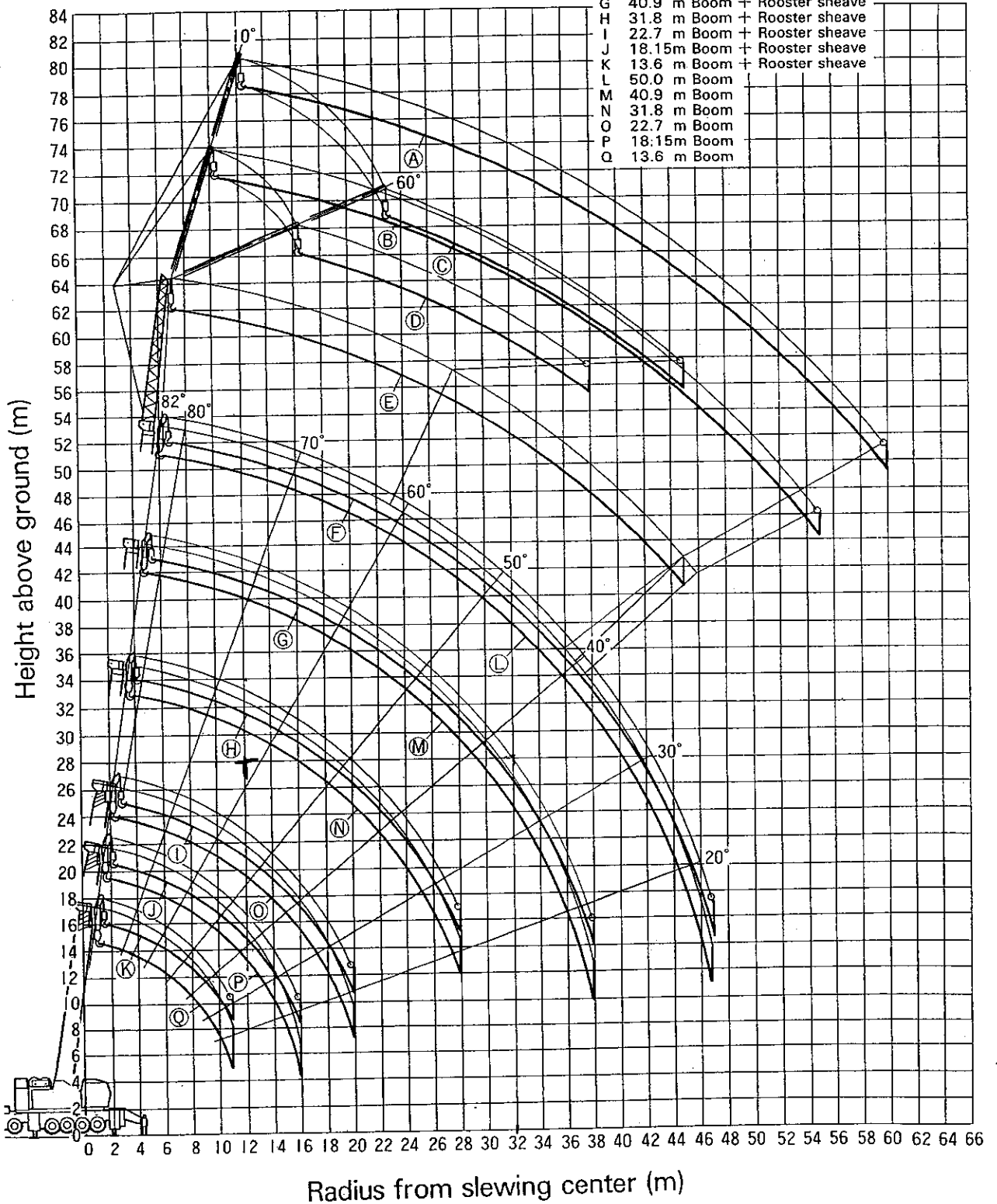
Brake

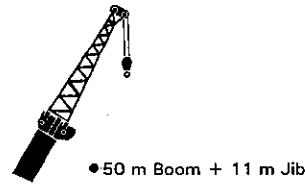
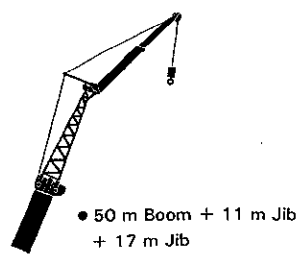
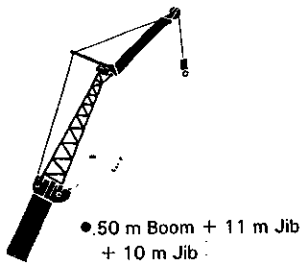
Service:	2 circuit air brake
Parking & Emergency:	Spring loaded type
Auxiliary:	Exhaust brake
Electric system:	24 V
Battery:	12 V - 200 AH x 2
Fuel tank capacity:	400 lit.
Driver's cab:	All steel, welded construction, 2 persons, low line type
Tire size:	1st, 2nd, 3rd, 4th and 7th axle: 14.00 - 24 - 24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

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

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

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

(Unit: metric ton)

50 m Boom + 11 m Jib + 10 m Jib

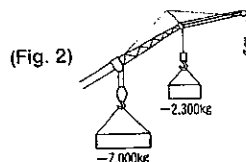
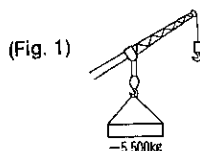
50 m Boom + 11 m Jib + 10 m Jib												
360° full range												
Working radius (m)	Jib angle 10°		Jib angle 20°		Jib angle 30°		Jib angle 40°		Jib angle 50°		Jib angle 60°	
	Boom angle (°)	Load	Boom angle (°)	Load	Boom angle (°)	Load	Boom angle (°)	Load	Boom angle (°)	Load	Boom angle (°)	Load
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

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)
 Ball bearing type

Slewing bearing: Twin hydraulic cylinders

Boom derricking system: Hydraulic cylinders

Boom telescoping system: Hydraulic, vertical support type (with front jack)

Outrigger system: 8600 mm (center to center)

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: 37 ton (separate block type)

Hoisting wire rope
 Main winch: 24 mm × 350 m
 Auxiliary winch: 24 mm × 300 m

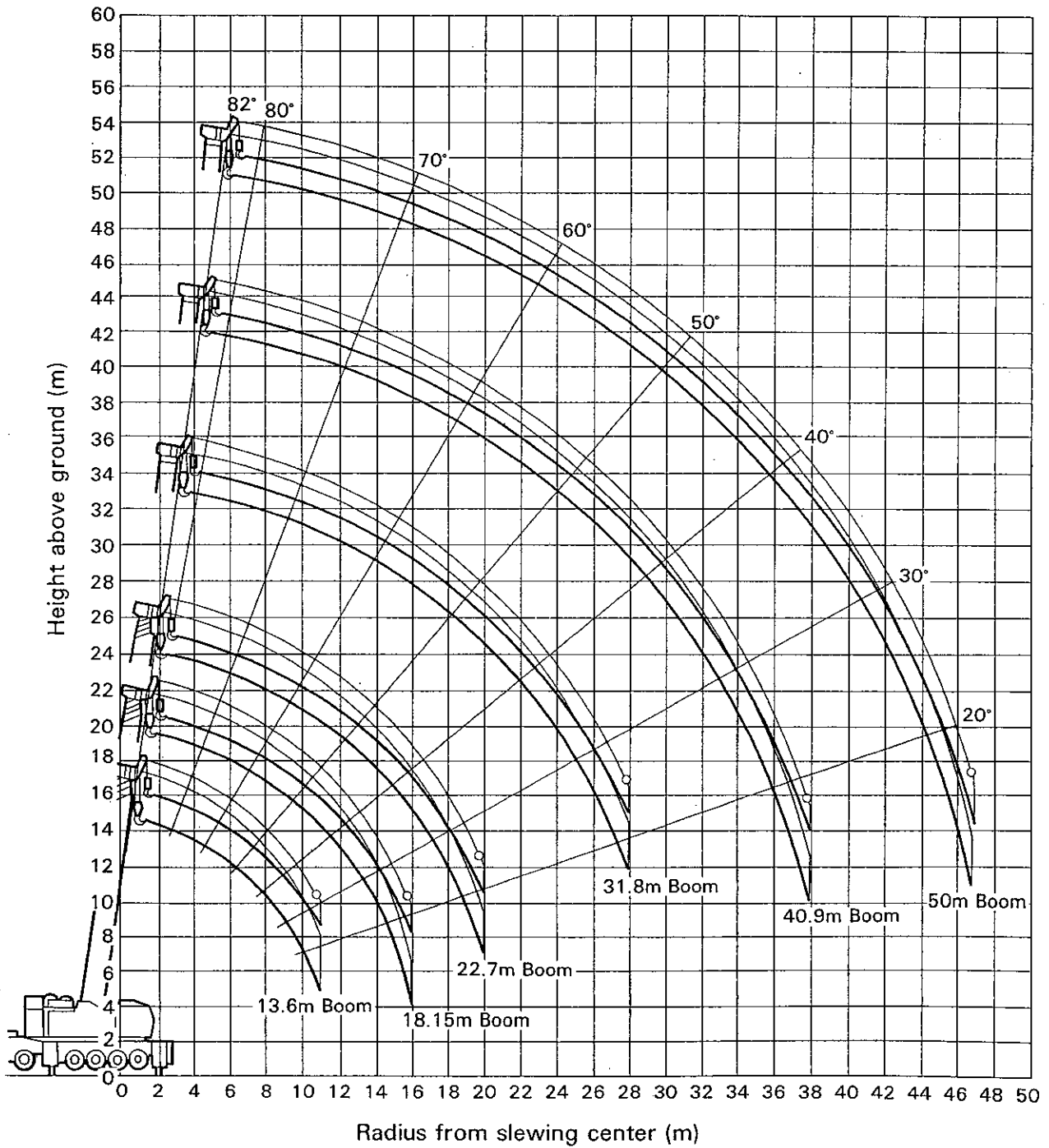
Hook block
 160 ton: No. of parts of line 20 (14+6)
 110 ton: 13
 50 ton: 6
 16 ton: 2
 8 ton: 1

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

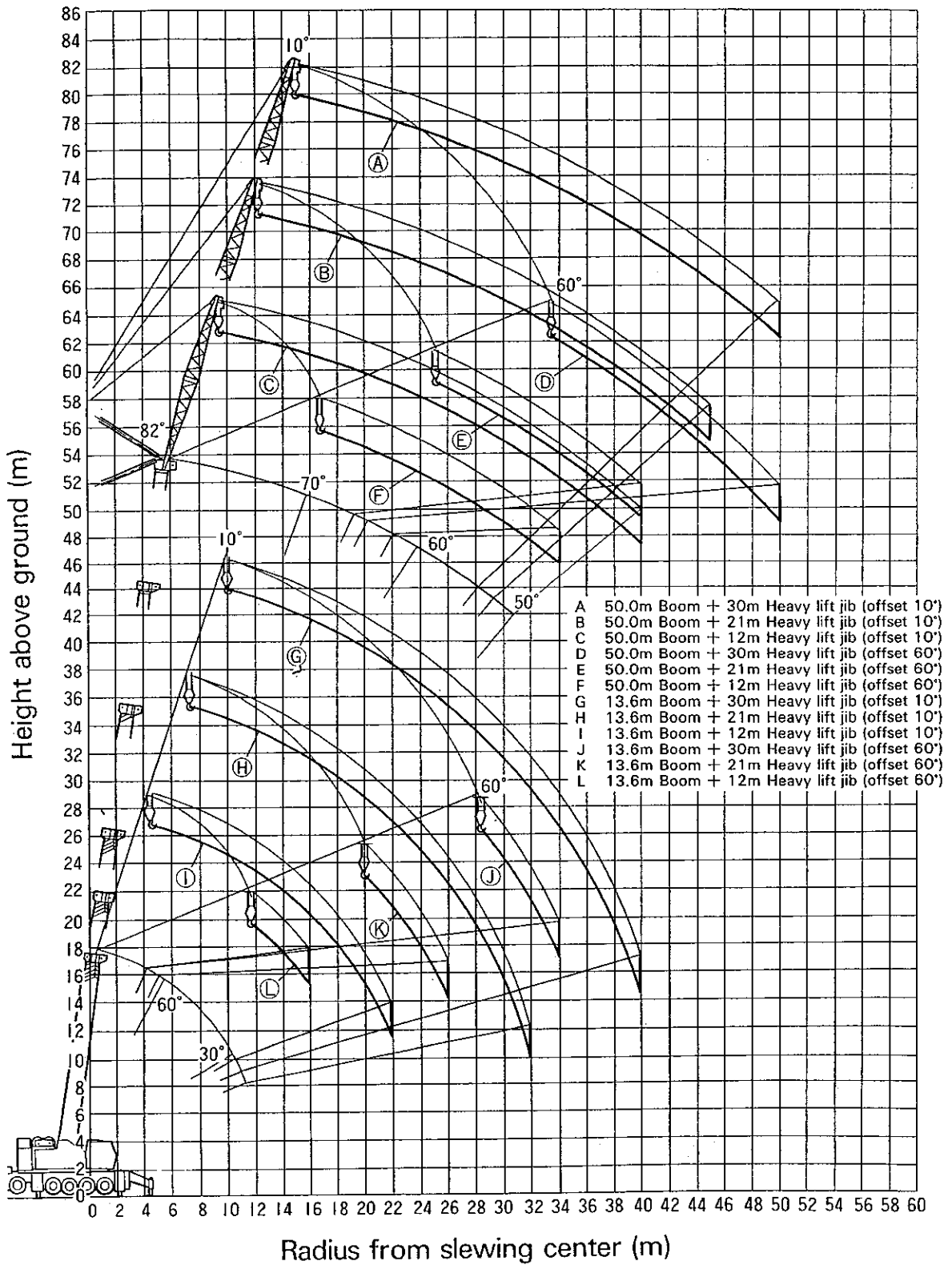
MAIN BOOM

WORKING RANGES



HEAVY LIFT 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)

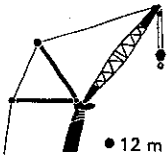
Working radius (m)	360° full range					
	13.6 m Boom	18.15 m Boom	22.7 m Boom	31.8 m Boom	40.9 m Boom	50.0 m Boom
3.2	160.0					
3.5	149.0					
4.0	136.0	110.0				
4.5	123.0	110.0	100.0			
5.0	113.0	106.0	100.0			
6.0	95.5	89.5	84.0	65.0		
7.0	81.0	76.5	72.5	60.0		
8.0	70.0	66.5	63.5	55.0	45.0	
9.0	61.0	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.



• 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

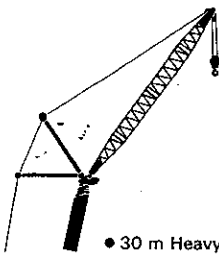
40.9 m Boom + 12 m Heavy Lift Jib 360° full range					
Working radius (m)	Jib angle 10°	Jib angle 20°	Jib angle 30°	Jib angle 45°	Jib angle 60°
12.0	16.0				
14.0	16.0	14.5			
16.0	16.0	14.5	13.0		
18.0	15.7	14.3	12.9	11.0	9.5
20.0	15.4	14.0	12.7	11.0	9.5
22.0	14.1	13.3	12.6	11.0	9.5
24.0	12.6	12.5	12.5	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	



● 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	3.9
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	

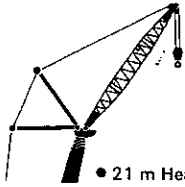
■ 50 m Boom + 30 m Heavy Lift Jib

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



• 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	