KOBELCO

NEW RK SERIES

ROUGH TERRAIN CRANE

RK100

SPECIFICATIONS

Max. Lifting Capacity: **10 tons x 2.0 m**

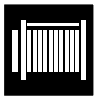
Max. Boom Length: **21.2 m**

KOBELCO CONSTRUCTION MACHINERY CO., LTD.

SPECIFICATIONS

UPPER STRUCTURE

SWING UNIT
A hydraulic piston motor drives the swing pinion through a deck-mounted planetary gear reducer for 360˚ continuous rotation.
Hydraulic flow into the swing motor is controlled by a manual valve in the swing circuit. The brake valve allows the operator to select free or automatic braking when the swing control lever is set in neutral.
SWING PARKING BRAKE: manual disc brake
SWING GEAR: Internal spur gear
SLEWING RING: Integral with the swing gear, with a single row of ball bearings.
SWNG SPEED: 2.5 min^{-1}



WINCHES
Mounted side by side, power hoisting and lowering with inching capability. Hydraulic motor drive, cycloidal gear reduction, and counterbalance valve.
CLUTCHES: Internal-expanding, hydraulic shoe type.
BRAKES
Band type, with positive and negative brake modes.
DRUMS
Main hoist: 220 mm P.C.D. x 195 mm width
Aux. hoist: 220 mm P.C.D. x 142 mm width
WIRE ROPES

Main hoist	10 mm dia. x 115 m	IWRC 6 X Fi (29) c/o hard twist rope
		4 x F (29) c/o anti twist rope (Europe area)
Aux. hoist	10 mm dia. x 56 m	IWRC 6 X Fi (29) c/o hard twist rope
		4 x F (29) c/o anti twist rope (Europe area)

LINE SPEED
Main hoist: 165 (high)/104 (low) m/min at 5th layer
Aux. hoist: 165 (high)/104 (low) m/min at 5th layer (high mode: lowering only)
BOOM HOIST
One-double acting hydraulic cylinder with holding valve.

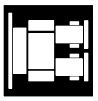
BOOM TELESCOPE
Full power telescoping by two hydraulic cylinders with holding valves and telescoping assistance cables for the boom tip section.
CONTROLS
Five adjustable hand control levers for swing, telescope, main winch, auxiliary winch, and boom hoist (with pedal). These can be tilted in three neutral positions and stored in their bases when not in use.
Other controls include: two short levers for main and auxiliary winch clutches and negative brake ON-OFF; one short lever for swing parking brake; one lever for telescope change over; one lever for transmission gear selection; swing lock pin; winch drum lock knobs; two pedals for main and auxiliary winch drum brakes; throttle control; and one travel brake pedal.

OPERATOR'S CAB
All-weather, wide-view cab with safety glass, sliding door, roll-down window, and sashless roof window with wiper. Adjustable driver's seat with seat belt.

SAFETY DEVICES (Standard)

Moment limiter (auto-stop)	Check & Safety Monitor
Swing range limit device	Working range limit device
Outrigger extension width automatic detecting device	Overhoist prevention device (auto-stop)
Boom telescoping default operation prevension device	Auxiliary brake for operating
Swing lock device	Safety lock lever
Hydraulic safety valve	Sling wire lock
Boom hoist safety device	Boom telescope safety device
Winch drum safety device	
Outrigger safety device	Swing flasher lamps

HYDRAULIC SYSTEM



PUMPS
3 gear pumps and one vane pumps

1st pump : Boom hoist, boom telescope, steering, and winch assist
2nd pump: Outriggers, and winch system
3rd pump : Swing and air-conditioner
4th pump : Pilot circuits
MOTORS : 3 plunger motors power the main hoist, the auxiliary hoist, and the swing.
CONTROL VALVES
Upper
One 5-stack valve : Winch, boom telescope, and boom hoist
One 1-stack valve : Swing
Lower
5 solenoid valves : Outriggers
One 2-stack valve : Steering
OIL RESERVOIR : 149 liters

CARRIER

TYPE
4-wheel drive (4WD), with 2-wheel drive (2WD) select for high/low speed mode.
MAX. TRAVEL SPPED: 49 km/h
GRADEABILITY: tan θ 0.6
PASSENGER: 1 person

OUTRIGGERS
Type: Hydraulic H-type outriggers.
Control: Eight double-acting hydraulic cylinders provide independent horizontal and vertical movement for each outrigger. Outriggers can be set from inside the cab or at the side of the carrier.

Outrigger extension (m)									
10	9	8	7	6	5	4	3	2	1
4.40	4.13	3.87	3.60	3.30	3.00	2.70	2.42	2.14	1.65

ENGINE
ISUZU 4BD1TPS turbocharged, water-cooled diesel engine with 4 cycles, 4 cylinders, and direct injection.
Max. output:103 kW at 3,000 min^{-1}
Max. torque: 333 N·m at 1,900 min^{-1}
Displacement ..... 3,856 cc
ELECTRICAL SYSTEM
24-volt DC system with two 12-volt batteries
FUEL TANK
Capacity ..... 190 liters
TORQUE CONVERTER
3 element, single-stage, 2 phases, torque converter with manually and automatically clutch.
TRANSMISSION
4-speed for forward and 1-speed for reverse with high-low shift.
BRAKES
Service: Vacuum servo disc brakes on all wheels.
Auxiliary: Torque converter lock-up linked exhaust brake.
Parking: Propel shaft brake internal expansion type with auxiliary brake for crane operation.

STEERING
Hydraulic power steering system with about-face steering compensation device.
Steering modes:

Normal: 2W (front)	Rear: 2W (rear)
Cramp: 4W	Crab: 4W

SUSPENSION
Front and rear axles are fitted with leaf springs with shock absorbers.
FRONT/REAR AXLES
Fully floating drive-steer type axles.

AXLE LOADING

Gross-Vehicle Weight	11,770 kg
Front-Vehicle Weight	5,890 kg
Rear-Vehicle Weight	5,880 kg

TIRES
Front/Rear: 10.00-20-14PR
LIGHTS

Headlights	License plate light
Clearance light	Directional lights
Parking lights	Back light

SAFETY DEVICES

Rear steering auto-lock
Reverse travel buzzer

ATTACHMENTS

BOOM
Boom consists of a boom base and five power telescoping sections. The first sections extended separately as do the 2nd and 3rd sections, and 4th, 5th and 6th sections synchronized. All-weleded, high tensile strength steel box construction.
Max. rated lifting capacity: 10.0 metric ton x 2.0 m
Fully retracted length ..... 5.1 m
Fully extended length ..... 21.2 m
Boom raising angle: -8.8 to 80.5˚
Boom raising time: 28.5 sec
Boom telescoping time: 49.5 sec / 16.1 m

JIB
Divided-type jib extendable to stored alongside boom. Jib offsets 5˚, 25˚, and 45˚ with guy line.
Jib length ..... 2.8 m
AUXILIARY SHEAVE
The auxiliary sheave permits one-part line operation.

HOOK BLOCK
4-sheave, 10 metric ton block with safety latch for main hoist, 1.4 metric ton hook with swivel and safety latch for aux. hoist.

LIFTING CAPACITIES

NOTES:

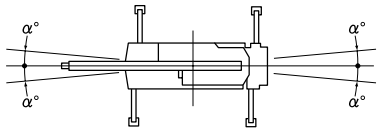
OPERATION WITH OUTRIGGERS

1. Rated load do not exceed 78% of the tipping loads with machine set horizontally on a firm and level ground, satisfy the specified stability over the front, and include weight of hook block(s) and other handling accessories. Ratings shown in ▭ are based on the machine's structural strength, and others are determined by the machine's stability.
2. The working radius given in the charts allow for loaded boom deflection. Always operate the machine on the basis of actual operating radius.
3. Weight of hooks, hook blocks, slings and other lifting devices are a part of the total load. Their total weight must be subtracted load to obtain the weight that can be lifted.

Hooks	10-ton	1.4-ton
Weight	76 kg	25 kg

4. Maximum outrigger extension is 4.40 m. Eight intermediate extension positions are also provided at 4.13 m, 3.87 m, 3.60 m, 3.30m, 3.00 m, 2.70 m, 2.42 m and 2.14 m. Minimum outrigger extension is 1.65 m.

Over-the-front area **Over-the-rear area**



	Outrigger extension (m)								
	4.13	**3.87**	**3.60**	**3.30**	**3.00**	**2.70**	**2.42**	**2.14**	**1.65**
α°	32°	30°	28°	25°	23°	20°	13°	10°	5°

5. Rated load in the over-the-side whole around various depending on the extension position of outriggers. Therefore, crane operation must be performed based on the rating chart corresponding to each extended outrigger position.
6. To determine load ratings that fall between those shown in the charts, proceed as follows:
   a) For boom lengths not listed use rating for next longer boom length or next shorter boom length, whichever is smaller.
   b) For load radii not shown, use rating for next larger radius.
7. Ratings of the auxiliary sheave are the same as main boom ratings, but should not exceed 1,400kg. Ratings of the auxiliary sheave are calculated by deducting 10-ton hook weight (76 kg) or 1.4-ton hook weight (25 kg) from main boom ratings.
8. Jib operation must be based on the main boom angle.
9. Ratings of the boom with extended jib are calculated by deducting 120 kg besides the weight of 10-ton hook block and the sling wire from the rated loads. At this time, do not use the auxiliary sheave.
10. In such a condition not shown in the rating chart, operation is impossible. Lowering the boom over critical degrees leads to overturn even with no load. Be careful extreamly.
11. Rated single-line pull must not exceed 1,225 kg.
12. In lifting load operation in an oblique direction (direction toward the outrigger), sometimes the outrigger float in the diagonal side against the lifted load may be raised depending on a condition. This is caused by torsional rigidity and deflection of the carrier frame, and stability is not lost. The stability of this machine in operation within the rating is secured in the condition that the machine is set horizontally on a level and firm ground.

OPERATION WITHOUT OUTRIGGERS (ON TIRES)

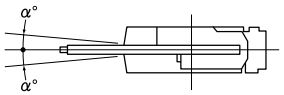
1. Rated load do not exceed 78% of the tipping loads with machine set horizontally on a firm and level ground, satisfy the specified stability over the front, and include weight of hook block(s) and other handling accessories. Ratings shown in ▭ are based on the machine's structural strength, and others are determined by the machine's stability. Tire specified air pressure is set to 675 kPa (6.75 kgf/cm^2)
2. The working radius given in the charts allow for loaded boom deflection. Always operate the machine on the basis of actual operating radius.
3. Weight of hooks, hook blocks, slings and other lifting devices are a part of the total load. Their total weight must be subtracted load to obtain the weight that can be lifted.

Hooks	10-ton	1.4-ton
Weight	76 kg	25 kg

*Tire specified air pressure: 675 kPa (6.75 kgf/cm^2)

4. Load ratings differ for over-the-front and over-the-side operation. Care must e taken to avoid overload when swinging a load from an over-the-front position to an over-the-side position.

Over-the-front area



On tires	Stationery	Pick & carry
α° (FRONT)	1°	1°

5. Ratings of the auxiliary sheave are the same as main boom ratings, but should not exceed 1,400 kg. Ratings of the auxiliary sheave are calculated by deducting 10-ton hook weight (76 kg) or 1.4-ton hook weight (25 kg) from main boom ratings.
6. Parking brake and auxiliary operation brake must be applied during stationary load lifting.
7. Pick and carry operations must be done in the low travel mode.
8. During pick and carry operations, keep the load close to the ground to avoid swaying, and travel no faster than 2.0 km/h. Avoid cornering, sudden starts (acceleration), and sudden braking. Boom must be centered over the front area.
9. Do not operate the crane functions while carrying the load.
10. Single-line load must not exceed 1,225 kg.

BOOM LIFTING CAPACITIES RK100

Main Boom Lifting Capacities with Outriggers

Unit: metric ton

MAIN	With outriggers in 4.40m position 360˚ swing area					With outriggers in 4.13m position Over the side				
	Boom length in meters					Boom length in meters				
Operating radius (m)	5.1	8.4	11.6	16.4	21.2	5.1	8.4	11.6	16.4	21.2
1.0	10.00	4.90				10.00	4.90			
1.5	10.00	4.90	4.90			10.00	4.90	4.90		
2.0	10.00	4.90	4.90			10.00	4.90	4.90		
2.5	7.00	4.90	4.90	3.90		7.00	4.90	4.90	3.90	
3.0	6.10	4.90	4.90	3.90	2.00	6.10	4.90	4.90	3.90	2.00
3.5	5.30	4.90	4.90	3.90	2.00	5.30	4.90	4.90	3.90	2.00
4.0	4.90/3.7m	4.50	4.50	3.60	2.00	4.90/3.7m	4.50	4.50	3.60	2.00
4.5		3.85	3.87	3.30	2.00		3.85	3.87	3.30	2.00
5.0		3.33	3.37	3.05	2.00		3.33	3.37	3.05	2.00
5.5		2.95	2.97	2.82	2.00		2.92	2.97	2.82	2.00
6.0		2.62	2.65	2.56	2.00		2.57	2.65	2.56	2.00
7.0		2.15/6.9m	2.14	2.15	1.80		2.06/6.9m	2.05	2.11	1.80
8.0			1.70	1.84	1.60			1.60	1.75	1.60
9.0			1.40	1.60	1.40			1.27	1.47	1.38
10.0			1.20	1.40	1.23			1.06	1.25	1.20
11.0			1.16/10.2m	1.20	1.10			1.03/10.2m	1.05	1.05
12.0				1.02	1.00				0.87	0.93
13.0				0.85	0.90				0.71	0.82
14.0				0.69	0.80				0.57	0.71
15.0				0.55	0.70				0.46	0.61
16.0					0.59					0.50
17.0					0.51					0.43
18.0					0.43					0.35
19.0					0.36					0.28
20.0					0.35/19.8m					0.23/19.8m
Min. boom angle	0˚	0˚	0˚	0˚	0˚	0˚	0˚	0˚	0˚	0˚

MAIN	With outriggers in 3.87m position Over the side					With outriggers in 3.60m position Over the side				
	Boom length in meters					Boom length in meters				
Operating radius (m)	5.1	8.4	11.6	16.4	21.2	5.1	8.4	11.6	16.4	21.2
1.0	10.00	4.90				10.00	4.90			
1.5	10.00	4.90	4.90			10.00	4.90	4.90		
2.0	10.00	4.90	4.90			10.00	4.90	4.90		
2.5	7.00	4.90	4.90	3.90		7.00	4.90	4.90	3.90	
3.0	6.10	4.90	4.90	3.90	2.00	6.10	4.90	4.90	3.90	2.00
3.5	5.30	4.90	4.90	3.90	2.00	5.30	4.90	4.90	3.90	2.00
4.0	4.90/3.7m	4.50	4.50	3.60	2.00	4.90/3.7m	4.50	4.50	3.60	2.00
4.5		3.85	3.87	3.30	2.00		3.85	3.87	3.30	2.00
5.0		3.33	3.37	3.05	2.00		3.33	3.37	3.05	2.00
5.5		2.88	2.97	2.82	2.00		2.85	2.97	2.82	2.00
6.0		2.51	2.56	2.56	2.00		2.46	2.52	2.56	2.00
7.0		1.98/6.9m	1.96	2.07	1.80		1.89/6.9m	1.87	2.03	1.80
8.0			1.50	1.66	1.60			1.40	1.57	1.60
9.0			1.15	1.35	1.37			1.02	1.22	1.35
10.0			0.92	1.11	1.18			0.78	0.96	1.15
11.0			0.89/10.2m	1.90	1.00			0.76/10.2m	0.75	0.95
12.0				0.72	0.85				0.57	0.78
13.0				0.58	0.73				0.44	0.65
14.0				0.46	0.62				0.34	0.53
15.0				0.36	0.51				0.27	0.42
16.0					0.42					0.33
17.0					0.34					0.26
18.0					0.27					0.19
19.0					0.21					0.13
Min. boom angle	0˚	0˚	0˚	0˚	18˚	0˚	0˚	0˚	0˚	18˚

BOOM LIFTING CAPACITIES

Main Boom Lifting Capacities with Outriggers

Unit: metric ton

MAIN	With outriggers in 3.30m position					With outriggers in 3.00m position				
	Over the side					Over the side				
	Boom length in meters					Boom length in meters				
Operating radius (m)	5.1	8.4	11.6	16.4	21.2	5.1	8.4	11.6	16.4	21.2
1.0	10.00	4.90				10.00	4.90			
1.5	10.00	4.90	4.90			10.00	4.90	4.90		
2.0	10.00	4.90	4.90			10.00	4.90	4.90		
2.5	7.00	4.90	4.90	3.90		7.00	4.90	4.90	3.90	
3.0	6.10	4.90	4.90	3.90	2.00	6.10	4.90	4.44	3.90	2.00
3.5	5.00	4.90	4.90	3.90	2.00	4.70	4.09	4.03	3.90	2.00
4.0	4.67/3.7m	4.50	4.50	3.60	2.00	4.43/3.7m	3.67	3.49	3.60	2.00
4.5		3.44	3.87	3.30	2.00		3.04	2.89	3.03	2.00
5.0		2.92	3.37	3.05	2.00		2.51	2.44	2.64	2.00
5.5		2.47	2.53	2.56	2.00		2.09	2.08	2.31	2.00
6.0		2.11	2.13	2.29	2.00		1.75	1.75	2.03	2.00
7.0		1.62/6.9m	1.58	1.79	1.80		1.34/6.9m	1.29	1.55	1.50
8.0			1.15	1.37	1.60			0.91	1.16	1.18
9.0			0.82	1.05	1.15			0.61	0.87	0.89
10.0			0.60	0.81	0.95			0.41	0.65	0.72
11.0			0.58/10.2m	0.61	0.79			0.39/10.2m	0.47	0.58
12.0				0.45	0.64				0.33	0.45
13.0				0.32	0.52				0.20	0.35
14.0				0.23	0.41					0.26
15.0					0.30					0.19
16.0					0.22					
17.0					0.14					
Min. boom angle	0°	0°	0°	23°	32°	0°	0°	0°	31°	41°

MAIN	With outriggers in 2.70m position					With outriggers in 2.42m position				
	Over the side					Over the side				
	Boom length in meters					Boom length in meters				
Operating radius (m)	5.1	8.4	11.6	16.4	21.2	5.1	8.4	11.6	16.4	21.2
1.0	10.00	4.90				10.00	4.90			
1.5	10.00	4.90	4.90			10.00	4.90	4.90		
2.0	10.00	4.90	4.90			10.00	4.90	4.90		
2.5	7.00	4.90	4.90	3.90		7.00	4.90	4.90	3.90	
3.0	6.10	4.90	4.10	3.90	2.00	4.93	4.07	3.52	3.90	2.00
3.5	4.40	4.07	3.60	3.90	2.00	3.60	3.32	3.00	3.90	2.00
4.0	4.20/3.7m	3.26	2.98	3.60	2.00	3.40/3.7m	2.63	2.44	2.96	2.00
4.5		2.63	2.40	2.90	2.00		2.12	1.95	2.38	2.00
5.0		2.10	1.98	2.43	2.00		1.69	1.60	1.98	2.00
5.5		1.71	1.64	2.05	2.00		1.36	1.30	1.65	2.00
6.0		1.40	1.36	1.76	1.70		1.10	1.06	1.40	1.50
7.0		1.07/6.9m	1.00	1.31	1.30		0.79/6.9m	0.73	1.01	1.05
8.0			0.66	0.96	0.97			0.44	0.71	0.77
9.0			0.41	0.70	0.76			0.25	0.50	0.57
10.0			0.23	0.50	0.60				0.33	0.43
11.0			0.21/10.2m	0.34	0.47				0.21	0.31
12.0				0.21	0.35					0.21
13.0					0.26					0.15
14.0					0.17					
Min. boom angle	0°	0°	0°	38°	45°	0°	0°	30°	44°	49°

MAIN	With outriggers in 2.14m position					With outriggers in 1.65m position				
	Over the side					Over the side				
	Boom length in meters					Boom length in meters				
Operating radius (m)	5.1	8.4	11.6	16.4	21.2	5.1	8.4	11.6	16.4	21.2
1.0	10.00	4.90				10.00	4.90			
1.5	10.00	4.90	4.90			7.00	4.90	4.90		
2.0	7.00	4.90	4.90			5.40	4.90	4.90		
2.5	4.69	4.08	3.80	3.90		3.54	3.27	3.25	2.10	
3.0	3.67	3.21	2.93	3.30	2.00	2.60	2.40	2.35	2.10	2.00
3.5	2.81	2.50	2.40	2.70	2.00	2.01	1.81	1.80	2.10	1.80
4.0	2.61/3.7m	1.91	1.89	2.31	2.00	1.81/3.7m	1.38	1.35	1.67	1.60
4.5		1.53	1.50	1.87	1.80		1.10	1.05	1.35	1.40
5.0		1.24	1.23	1.53	1.53		0.87	0.85	1.08	1.22
5.5		0.96	0.97	1.25	1.35		0.67	0.63	0.85	1.03
6.0		0.75	0.75	1.03	1.13		0.49	0.45	0.67	0.85
7.0		0.49/6.9m	0.45	0.70	0.81		0.23/6.9m	0.18	0.40	0.56
8.0			0.22	0.45	0.56				0.20	0.36
9.0				0.28	0.39				0.10	0.20
10.0				0.17	0.27					0.10
11.0					0.16					
Min. boom angle	0°	0°	40°	49°	56°	0°	0°	47°	53°	60°

MAIN	Pick & Carry (under 2 km/h)
	Over the front
	Boom length in meters
Operating radius (m)	5.1~8.4
Under 5.0	1.00

JIB LIFTING CAPACITIES RK100

Jib Lifting Capacities with Outriggers

Unit: metric ton

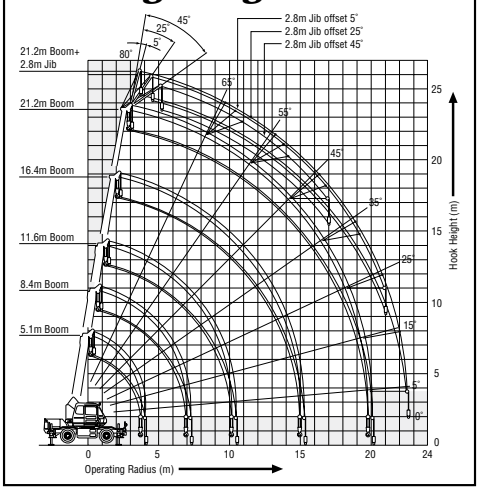
JIB	With outriggers in 4.40m position (360° swing area)						With outriggers in 4.13m position (Over the side)					
	2.8 m Jib						2.8 m Jib					
	Jib angle: 5°		Jib angle: 25°		Jib angle: 45°		Jib angle: 5°		Jib angle: 25°		Jib angle: 45°	
Boom angle	Operating Radius (m)	Rated Load (metric ton)	Operating Radius (m)	Rated Load (metric ton)	Operating Radius (m)	Rated Load (metric ton)	Operating Radius (m)	Rated Load (metric ton)	Operating Radius (m)	Rated Load (metric ton)	Operating Radius (m)	Rated Load (metric ton)
80.5°	3.6	1.00	4.6	0.86	5.2	0.48	3.6	1.00	4.6	0.86	5.2	0.48
70.0°	7.8	1.00	8.6	0.86	9.0	0.48	7.8	1.00	8.6	0.86	9.0	0.48
65.0°	9.9	1.00	10.5	0.81	10.8	0.47	9.9	1.00	10.5	0.81	10.8	0.47
60.0°	11.7	0.87	12.3	0.74	12.6	0.46	11.7	0.87	12.3	0.74	12.6	0.46
55.0°	13.4	0.73	14.0	0.68	14.2	0.45	13.4	0.73	14.0	0.68	14.2	0.45
50.0°	15.0	0.62	15.5	0.62	15.6	0.45	15.0	0.60	15.5	0.57	15.6	0.45
45.0°	16.5	0.53	16.9	0.52	17.0	0.45	16.5	0.49	16.9	0.46	17.0	0.45
40.0°	17.8	0.46	18.2	0.43			17.8	0.40	18.2	0.38		
35.0°	18.9	0.38	19.2	0.37			18.9	0.33	19.2	0.32		
30.0°	19.9	0.33	20.2	0.32			19.9	0.27	20.2	0.27		
25.0°	20.8	0.29	21.0	0.29			20.8	0.23	21.0	0.24		
20.0°	21.5	0.27					21.5	0.21				
15.0°	22.1	0.26					22.1	0.20				
10.0°	22.4	0.26										
5.0°	22.7	0.26										
Min. boom angle	5°		25°		45°		15°		25°		45°	

JIB	With outriggers in 3.87m position (Over the side)						With outriggers in 3.60m position (Over the side)					
	2.8 m Jib						2.8 m Jib					
	Jib angle: 5°		Jib angle: 25°		Jib angle: 45°		Jib angle: 5°		Jib angle: 25°		Jib angle: 45°	
Boom angle	Operating Radius (m)	Rated Load (metric ton)	Operating Radius (m)	Rated Load (metric ton)	Operating Radius (m)	Rated Load (metric ton)	Operating Radius (m)	Rated Load (metric ton)	Operating Radius (m)	Rated Load (metric ton)	Operating Radius (m)	Rated Load (metric ton)
80.5°	3.6	1.00	4.6	0.86	5.2	0.48	3.6	1.00	4.6	0.86	5.2	0.48
70.0°	7.8	1.00	8.6	0.86	9.0	0.48	7.8	1.00	8.6	0.86	9.0	0.48
65.0°	9.9	1.00	10.5	0.81	10.8	0.47	9.8	0.90	10.5	0.81	10.8	0.47
60.0°	11.7	0.81	12.4	0.67	12.6	0.46	11.7	0.70	12.4	0.67	12.6	0.46
55.0°	13.4	0.61	14.0	0.59	14.2	0.45	13.4	0.53	14.0	0.50	14.2	0.41
50.0°	15.0	0.47	15.5	0.46	15.6	0.41	14.9	0.41	15.5	0.40	15.6	0.35
45.0°	16.4	0.38	16.9	0.37	16.9	0.33	16.4	0.32	16.9	0.31	16.9	0.30
40.0°	17.8	0.30	18.1	0.28			17.7	0.23	18.1	0.23		
35.0°	18.9	0.23	19.2	0.23								
Min. boom angle	35°		35°		45°		40°		40°		45°	

JIB	With outriggers in 3.30m position (Over the side)						With outriggers in 3.00m position (Over the side)					
	2.8 m Jib						2.8 m Jib					
	Jib angle: 5°		Jib angle: 25°		Jib angle: 45°		Jib angle: 5°		Jib angle: 25°		Jib angle: 45°	
Boom angle	Operating Radius (m)	Rated Load (metric ton)	Operating Radius (m)	Rated Load (metric ton)	Operating Radius (m)	Rated Load (metric ton)	Operating Radius (m)	Rated Load (metric ton)	Operating Radius (m)	Rated Load (metric ton)	Operating Radius (m)	Rated Load (metric ton)
80.5°	3.6	1.00	4.6	0.86	5.2	0.48	3.6	1.00	4.6	0.86	5.2	0.48
70.0°	7.8	1.00	8.6	0.86	9.0	0.48	7.8	1.00	8.6	0.86	9.0	0.48
65.0°	9.8	0.86	10.5	0.73	10.8	0.47	9.8	0.68	10.5	0.62	10.8	0.47
60.0°	11.6	0.60	12.3	0.57	12.6	0.46	11.5	0.48	12.2	0.44	12.6	0.39
55.0°	13.4	0.44	13.9	0.41	14.2	0.41	13.3	0.33	13.9	0.31	14.1	0.30
50.0°	14.9	0.32	15.4	0.31	15.6	0.31						
45.0°	16.3	0.24	16.8	0.23	16.9	0.22						
Min. boom angle	45°		45°		45°		55°		55°		55°	

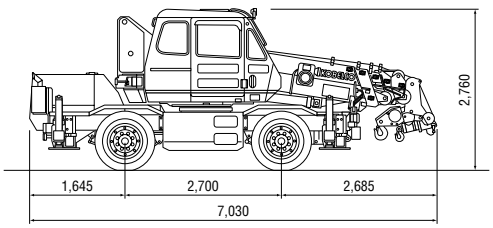
JIB	With outriggers in 2.70m position (Over the side)					
	2.8 m Jib					
	Jib angle: 5°		Jib angle: 25°		Jib angle: 45°	
Boom angle	Operating Radius (m)	Rated Load (metric ton)	Operating Radius (m)	Rated Load (metric ton)	Operating Radius (m)	Rated Load (metric ton)
80.5°	3.6	0.85	4.6	0.73	5.2	0.48
70.0°	7.8	0.85	8.6	0.73	9.0	0.48
65.0°	9.7	0.55	10.4	0.55	10.8	0.40
60.0°	11.5	0.37	12.3	0.36	12.5	0.31
Min. boom angle	60°		60°		60°	

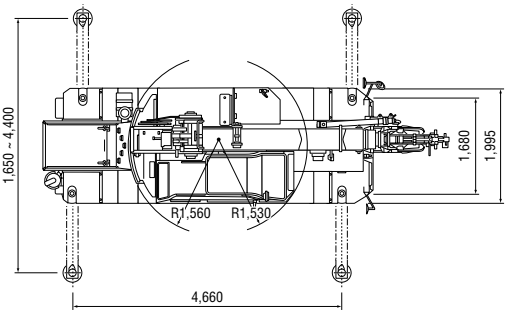
Working Ranges



*Boom/jib bending with load is not involved in figure of working ranges.

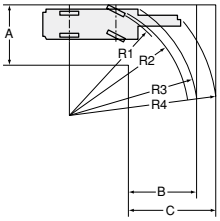
DIMENSIONS RK100





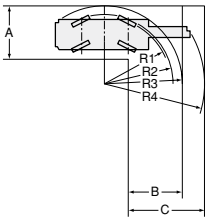
TURNING RADIUS

2-Drive Steering (Front)



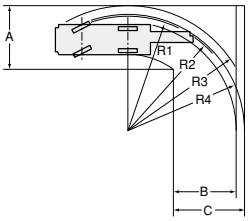
R1	Minimum turning radius	7.08m
R2	Tire clearance with cab	7.24m
R3	Carrier clearance	7.68m
R4	Boom clearance	7.96m
A	Entrance width (carrier)	3.94m
B	Exit width (tires)	3.94m
C	Exit width (boom)	4.10m

4-Drive Steering



R1	Minimum turning radius	3.93m
R2	Tire clearance with cab	4.12m
R3	Carrier clearance	4.60m
R4	Boom clearance	5.02m
A	Exit width (carrier)	3.26m
B	Exit width (tires)	3.26m
C	Exit width (boom)	3.52m

2-Drive Steering (Rear)



R1	Minimum turning radius	6.54m
R2	Tire clearance with cab	7.24m
R3	Carrier clearance	7.74m
R4	Boom clearance	6.47m
A	Entrance width (carrier)	3.93m
B	Exit width (tires)	3.93m

STANDARD EQUIPMENT

Engine tachometer
Tachograph
Hourmeter
Engine over running alarm
Paper-element air cleaner
Two working lights
Horn
Towing hooks (one front, one rear)
Cab heater/defroster
Air conditioner
Outrigger plates.
Operation Manual: one set

OTHER AMENITIES

Radio
Cigarette lighter
Ashtray
Sun visor
Floor mat
Windshield wiper/washer

OPTIONAL EQUIPMENT

Hydraulic oil cooler for hydraulic system

Note: Due to our policy of continual product improvements all designs and specifications are subject to change without advance notice.

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