KOBELCO

NEW RK SERIES

ROUGH TERRAIN CRANE

RK200

SPECIFICATIONS

Max. Lifting Capacity: **20 tons x 2.5 m**

Max. Boom Length: **25.0 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: 2.8 min^{-1}(rpm)

WINCHES
Mounted side by side, power hoisting and lowering with inching capability. Hydraulic motor drive, spur gear reduction, and counterbalance valve.
BRAKES
Band type, with negative brake modes.
DRUMS
Main hoist: 280 mm P.C.D. x 318 mm width
Aux. hoist: 280 mm P.C.D. x 170 mm width
WIRE ROPES

Main hoist	14 mm dia. x 137 m	IWRC 6 X Fi (29) c/o hard twist rope
		4 x F (40) c/o anti twist rope (Europe area)
Aux. hoist	14 mm dia. x 65 m	IWRC 6 X Fi (29) c/o hard twist rope
		4 x F (40) c/o anti twist rope (Europe area)

LINE SPEED
Main hoist: 98 m/min (at 4th layer)
Aux. hoist: 85 m/min (at 2nd layer)
BOOM HOIST
One-double acting hydraulic cylinder with holding valve.

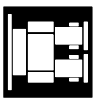
BOOM TELESCOPE
Full power telescoping by two hydraulic cylinders with holding valves and telescoping assistance cables for the boom tip section.
CONTROLS
Five hand control levers for swing, telescope (with pedal), main winch, auxiliary winch, and boom hoist (with pedal). These are remote-control type without steps and can be 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; one lever for transmission gear selection;
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)	Swing lock device
Swing range limit device	Working range limit device
Boom telescope safety device	Overhoist prevention device (auto-stop)
Base machine inclination meter	Interceptive lever lock for on and off
Outrigger extension width automatic detecting device	Auxiliary brake for operating
Boom hoist safety device	Safety lock lever
Hydraulic safety valve	Sling wire lock
Boom telescoping default operation prevension device	Winch drum safety device
	Outrigger safety device
Swing flasher lamps	Anti-slip seat

HYDRAULIC SYSTEM



PUMPS
2 variable plunger pumps and 3gear

1st pump : Boom hoist, boom telescope, and winch assist
2nd pump: Outriggers, and winch system
3rd pump : Swing and steering
4th pump : Pilot circuits for the clutches and negative brake cylinders, steering, and air conditioner.
5th pump : Steering assist system,
MOTORS : Two 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 4-stack valve : Clutch and brake
One 1-stack valve : Swing
Lower
Solenoid valves : Outriggers and suspension lock system
One 2-stack valve : Steering
OIL RESERVOIR : 250 liters

CARRIER

TYPE
4-wheel drive (4WD), with 2-wheel drive (2WD) select for high speed mode.
MAX. TRAVEL SPPED: 49 km/h
GRADEABILITY: tan θ 0.6 (31°)
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	5.1m	4.8m	4.2m	3.2m	1.825m

ENGINE
MITSUBISHI 6D16-TE1/6D16-TUG (for Europe) turbocharged, water-cooled diesel engine with 4 cycles, 6 cylinders, and direct injection.

Max. output	136 kW at 2,800 min^{-1}
	141 kW at 2,800 min^{-1} (Europe area)
Max. torque	637 N·m at 1,600 min^{-1}
	637 N·m at 1,600 min^{-1} (Europe area)

Displacement ..... 7,545 cc
ELECTRICAL SYSTEM
24-volt DC system with two 12-volt batteries
FUEL TANK
Capacity ..... 250 liters
TORQUE CONVERTER
3 element, single-stage, 2 phases, torque converter with manually and automatically controlled lock-up clutch.
TRANSMISSION
3-speed for forward and 1-speed for reverse with high-low shift.
BRAKES
Service: Hydraulic and air booster disc brakes on all wheels.
Auxiliary: Torque converter lock-up linked electronic control exhaust brake.
Parking: Propel shaft brake internal expansion type with auxiliary brake for crane operation.

STEERING
Hydraulic power steering system with emergency steering device and 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	19,535 kg
Front-Vehicle Weight	9,620 kg
Rear-Vehicle Weight	9,915 kg

TIRES
Front/Rear: 325/95 R24 161E ROAD
LIGHTS

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

SAFETY DEVICES

Emergency steering device
Rear steering auto-lock
Suspension lock device
Engine overrun warning buzzer
Reverse travel buzzer

ATTACHMENTS

BOOM
Boom consists of a boom base and four power telescoping sections. The first sections extended separately as do the 2nd and 3rd sections, and 4th and 5th sections synchronized.
All-weleded, high tensile strength steel box construction.
Max. rated lifting capacity: 20.0 metric ton x 2.5 m
Fully retracted length ..... 6.7 m
Fully extended length ..... 25.0 m
Boom raising angle: -9 to 80˚
Boom raising time: 39 sec
Boom telescoping time: 60 sec / 18.3 m

JIB
Compressed truss-type jib extendable to stored alongside boom. Jib swing down under the boom and twist to set out. Jib offsets 5˚, 17˚, and 30˚ with suspension rods.
Jib length ..... 5.5 m
AUXILIARY SHEAVE
The auxiliary sheave permits one-part line operation.

HOOK BLOCK
4-sheave, Optional 20 metric ton block (or standard 16 metric ton block) with safety latch for main hoist, 2.9 metric ton hook with swivel and safety latch for aux. hoist.

LIFTING CAPACITIES

NOTES:

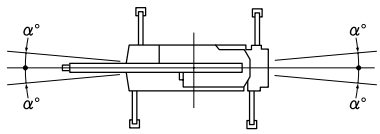
OPERATION WITH OUTRIGGERS

1. Rated load do not exceed 75% 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	20-ton	16-ton	2.9-ton
Weight	155 kg (opt.)	140 kg	45 kg

4. Maximum outrigger extension is 5.1 m. Three intermediate extension positions are also provided at 4.8 m, 4.2 m and 3.2 m. Minimum outrigger extension is 1.825 m.

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



Outrigger extension	4.8m	4.2m	3.2m	Min. outrigger extension
α°	33°	28°	20°	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 2,900kg. Ratings of the auxiliary sheave are calculated by deducting 20-ton hook weight (155 kg) or 16-ton hook weight (140 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 350 kg besides the weight of 20-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. Standard hoist reevings are shown bellow. Rated single-line pull must not exceed 2,900 kg.

Boom length	6.7m		11.3m	15.9m to 25.0m	Jib aux. sheave
Hook	20-ton	16-ton	16-ton	16-ton	2.9-ton
No. of reeving	8	6	6	4	1

12. In order to prevent a load from falling down to mistake of operation, do not use free-fall in crane operation.
13. 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)

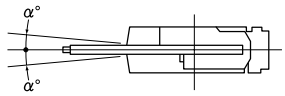
1. Rated load do not exceed 75% of the tipping loads with machine set horizontally on a firm and level ground, satisfy the specified stability over the front, and include weight of hook block(s) and other handling accessories. Ratings shown in ▭ are based on the machine's structural strength, and others are determined by the machine's stability. Tire specified air pressure is set to 900 kPa (9.0 kgf/cm²)
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	16-ton	2.9-ton
Weight	140 kg	45 kg

*Tire specified air pressure: 900kPa (9.0 kgf/cm²)

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 2,900 kg. Ratings of the auxiliary sheave are calculated by deducting 20-ton hook weight (155 kg) or 16-ton hook weight (140 kg) from main boom ratings.
6. Do not use jib operation and free fall.
7. Parking brake and auxiliary operation brake must be applied during stationary load lifting.
8. Pick and carry operations must be done in the low travel mode.
9. 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.
10. Do not operate the crane functions while carrying the load.
11. Standard hoist reevings are shown bellow. Single-line load must not exceed 2,900 kg.

Boom length	6.7m		11.3m to 20.4m	Jib aux. sheave
Hook	20-ton	16-ton	16-ton	2.9-ton
No. of reeving	4	4	4	1

BOOM LIFTING CAPACITIES RK200

Main Boom Lifting Capacities with Outriggers

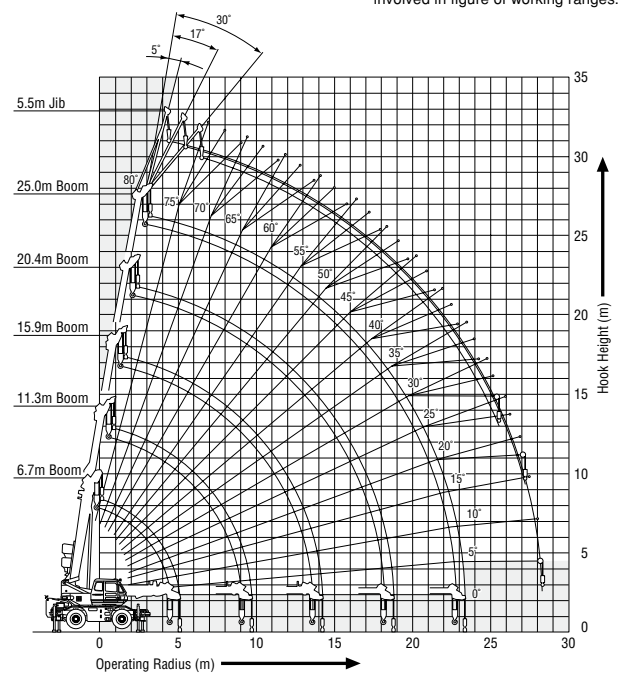
Unit: metric ton

MAIN	With outriggers in 5.1m position					With outriggers in 4.8m position					With outriggers in 4.2m position					With outriggers in 3.2m position				
	360˚ swing area					Over the side					Over the side					Over the side				
	Boom length in meters					Boom length in meters					Boom length in meters					Boom length in meters				
Operating radius (m)	6.7	11.3	15.9	20.4	25.0	6.7	11.3	15.9	20.4	25.0	6.7	11.3	15.9	20.4	25.0	6.7	11.3	15.9	20.4	25.0
2.5	20.00	12.00	9.00	7.00		16.00	12.00	9.00	7.00		16.00	12.00	9.00	7.00		16.00	12.00	9.00	7.00	
3.0	16.00	12.00	9.00	7.00		16.00	12.00	9.00	7.00		16.00	12.00	9.00	7.00		13.00	12.00	9.00	7.00	
3.5	14.00	12.00	9.00	7.00	5.00	14.00	12.00	9.00	7.00	5.00	14.00	12.00	9.00	7.00	5.00	10.00	10.00	9.00	7.00	5.00
4.0	12.50	12.00	9.00	7.00	5.00	12.50	12.00	9.00	7.00	5.00	12.50	12.00	9.00	7.00	5.00	7.70	7.80	7.20	7.00	5.00
4.5	11.50	11.10	8.50	7.00	5.00	11.50	11.10	8.50	7.00	5.00	11.20	10.55	8.30	7.00	5.00	5.40	6.20	6.10	6.45	5.00
5.0		10.25	8.05	7.00	5.00		10.15	8.05	7.00	5.00		9.15	7.65	7.00	5.00		5.10	5.00	5.30	5.00
5.5		9.40	7.60	6.60	4.75		9.10	7.60	6.60	4.75		7.75	6.95	6.55	4.75		4.30	4.20	4.50	4.70
6.0		8.55	7.15	6.20	4.55		8.05	7.10	6.20	4.55		6.55	6.30	6.10	4.55		3.60	3.60	3.85	4.05
6.5		7.70	6.70	5.80	4.35		7.00	6.60	5.80	4.35		5.65	5.60	5.70	4.35		3.10	3.10	3.35	3.55
7.0		6.85	6.20	5.50	4.15		6.20	6.05	5.50	4.15		4.90	4.95	5.25	4.15		2.70	2.70	2.95	3.10
7.5		6.00	5.70	5.15	3.90		5.40	5.45	5.15	3.90		4.30	4.40	4.70	3.95		2.40	2.35	2.60	2.80
8.0		5.30	5.20	4.85	3.70		4.75	4.80	4.80	3.70		3.80	3.85	4.20	3.70		2.10	2.05	2.30	2.50
9.0		4.25	4.25	4.30	3.30		3.80	3.85	4.10	3.30		3.05	3.10	3.40	3.30		1.65	1.60	1.85	2.00
10.0			3.50	3.75	3.00			3.15	3.45	3.00			2.50	2.80	2.90			1.25	1.50	1.65
11.0			2.90	3.20	2.70			2.60	2.90	2.70			2.05	2.35	2.50			1.00	1.20	1.35
12.0			2.45	2.75	2.50			2.20	2.45	2.45			1.70	1.95	2.15			0.80	1.00	1.15
13.0			2.05	2.35	2.30			1.85	2.10	2.20			1.40	1.65	1.85			0.63	0.80	0.95
14.0			1.85	2.05	2.10			1.70	1.80	1.95			1.25	1.45	1.60			0.50	0.65	0.80
15.0			(13.6m)	1.75	1.90			(13.6m)	1.55	1.70			(13.6m)	1.20	1.40			(13.6m)	0.55	0.65
16.0				1.50	1.70				1.35	1.50				1.00	1.20				0.40	0.55
17.0				1.32	1.50				1.15	1.30				0.80	1.00					0.45
18.0				1.15	1.30				0.95	1.15				0.65	0.85					0.35
19.0				1.15	1.15				0.90	1.00				0.60	0.70					
20.0				(18.1m)	1.00				(18.1m)	0.85				(18.1m)	0.60					
21.0					0.90					0.75					0.50					
22.0					0.80					0.65					0.40					
22.7					0.74					0.60					0.35					
Min. boom angle	0˚	0˚	0˚	0˚	0˚	0˚	0˚	0˚	0˚	0˚	0˚	0˚	0˚	0˚	0˚	0˚	0˚	0˚	29˚	37˚

MAIN	With outriggers in min. position				
	Over the side				
	Boom length in meters				
Operating radius (m)	6.7	11.3	15.9	20.4	25.0
2.5	7.75	7.80	7.80	7.00	
3.0	5.55	5.60	5.60	6.10	
3.5	4.20	4.30	4.25	4.70	4.70
4.0	3.30	3.40	3.35	3.70	3.80
4.5	2.65	2.70	2.70	3.00	3.10
5.0		2.20	2.25	2.55	2.65
5.5		1.80	1.85	2.10	2.25
6.0		1.50	1.55	1.80	1.90
6.5		1.25	1.30	1.55	1.65
7.0		1.05	1.05	1.30	1.45
7.5		0.85	0.85	1.15	1.30
8.0		0.70	0.70	0.95	1.10
9.0			0.45	0.70	0.85
10.0			0.30	0.50	0.65
11.0				0.29	0.50
12.0					0.30
13.0					
14.0					
15.0					
16.0					
17.0					
18.0					
19.0					
20.0					
21.0					
22.0					
22.7					
Min. boom angle	0˚	29˚	45˚	52˚	57˚

Working Ranges

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



BOOM LIFTING CAPACITIES

Main Boom Lifting Capacities without Outriggers

Unit: metric ton

MAIN	Stationary								Pick & Carry (under 2 km/h)							
	360˚ swing area				Over the front				360˚ swing area				Over the front			
	Boom length in meters				Boom length in meters				Boom length in meters				Boom length in meters			
Operating radius (m)	6.7	11.3	15.9	20.4	6.7	11.3	15.9	20.4	6.7	11.3	15.9	20.4	6.7	11.3	15.9	20.4
3.0	4.40	4.50	4.65	5.00	9.50	8.50	8.50	6.50	4.35	4.40	4.45	3.00	7.00	7.20	6.50	6.00
3.5	3.50	3.65	3.70	4.00	8.30	8.30	8.30	6.50	3.30	3.35	3.60	3.00	6.15	6.30	5.75	6.00
4.0	2.80	2.90	3.00	3.30	7.30	7.30	7.30	6.50	2.60	2.65	2.85	3.00	5.40	5.60	5.00	5.60
4.5	2.20	2.40	2.45	2.75	6.60	6.10	6.10	6.50	2.10	2.10	2.30	2.50	4.75	4.70	4.15	4.80
5.0		1.90	2.00	2.30		5.00	5.10	5.35		1.75	1.90	2.10		3.90	3.50	4.10
5.5		1.60	1.65	2.00		4.20	4.25	4.45		1.45	1.55	1.80		3.30	3.00	3.50
6.0		1.30	1.35	1.70		3.50	3.60	3.90		1.20	1.30	1.50		2.80	2.65	3.00
6.5		1.05	1.10	1.40		3.00	3.10	3.33		1.00	1.10	1.30		2.40	2.30	2.60
7.0		0.85	0.90	1.20		2.65	2.59	2.89		0.80	0.90	1.10		2.10	2.00	2.30
7.5		0.65	0.70	1.00		2.30	2.19	2.54		0.65	0.70	0.90		1.85	1.80	2.05
8.0		0.50	0.50	0.80		2.00	1.89	2.25		0.50	0.50	0.77		1.60	1.65	1.80
9.0				0.55		1.50	1.49	1.79				0.50		1.30	1.30	1.50
10.0				0.35			1.17	1.39				0.30			1.00	1.20
11.0							0.86	1.12							0.70	1.00
12.0							0.64	0.89							0.55	0.80
13.0							0.44	0.70							0.40	0.65
14.0								0.51								0.55
15.0								0.37								0.45
16.0																0.35
17.0																0.30
Min. boom angle	0˚	29˚	48˚	55˚	0˚	11˚	19˚	22˚	0˚	29˚	48˚	55˚	0˚	11˚	19˚	22˚

JIB LIFTING CAPACITIES

5.1 M	With outriggers in 5.1m position (360˚ swing area)					
	5.5 m Jib					
	Jib angle:5˚		Jib angle:17˚		Jib angle:30˚	
Boom angle	Operating radius (m)	Rated Load (metric ton)	Operating radius (m)	Rated Load (metric ton)	Operating radius (m)	Rated Load (metric ton)
80˚	4.7	2.00	5.9	1.50	6.8	1.20
75˚	7.6	2.00	8.6	1.50	9.4	1.20
70˚	10.3	2.00	11.2	1.50	11.8	1.20
65˚	12.7	1.62	13.4	1.25	14.1	1.12
60˚	14.9	1.35	15.7	1.09	16.3	1.02
55˚	17.0	1.15	17.6	0.98	18.3	0.91
50˚	19.0	1.00	19.6	0.87	20.1	0.82
45˚	20.8	0.87	21.4	0.78	21.8	0.75
40˚	22.5	0.75	22.9	0.70	23.1	0.68
35˚	23.9	0.65	24.3	0.62	24.4	0.60
30˚	25.2	0.56	25.4	0.54	25.4	0.52
25˚	26.2	0.48	26.4	0.46		
20˚	27.1	0.41	27.1	0.38		
15˚	27.7	0.35				
10˚	28.0	0.30				
5˚	28.3	0.25				
Min. boom angle	5˚		20˚		30˚	

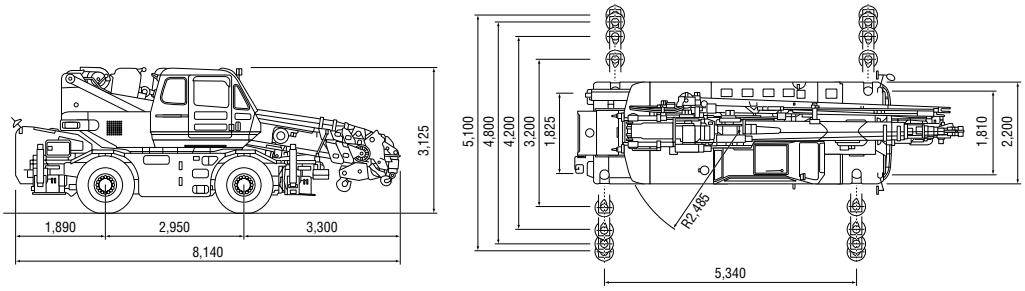
Unit: metric ton

4.8 M	With outriggers in 4.8 m position (over the side)					
	5.5 m Jib					
	Jib angle:5°		Jib angle:17°		Jib angle:30°	
Boom angle	Operating radius (m)	Rated Load (metric ton)	Operating radius (m)	Rated Load (metric ton)	Operating radius (m)	Rated Load (metric ton)
80°	4.7	2.00	5.9	1.50	6.8	1.20
75°	7.6	2.00	8.6	1.50	9.4	1.20
70°	10.3	2.00	11.2	1.50	11.8	1.20
65°	12.7	1.62	13.4	1.25	14.1	1.12
60°	14.9	1.35	15.7	1.09	16.3	1.02
55°	17.0	1.15	17.6	0.98	18.3	0.91
50°	19.0	1.00	19.6	0.87	20.1	0.82
45°	20.8	0.85	21.4	0.76	21.8	0.73
40°	22.5	0.70	22.9	0.66	23.1	0.63
35°	23.9	0.58	24.3	0.55	24.4	0.53
30°	25.2	0.47	25.4	0.45	25.4	0.41
25°	26.2	0.38	26.4	0.33		
20°	27.1	0.27				
Min. boom angle	20°		25°		30°	

4.2 M	With outriggers in 4.2 m position (over the side)					
	5.5 m Jib					
	Jib angle:5°		Jib angle:17°		Jib angle:30°	
Boom angle	Operating radius (m)	Rated Load (metric ton)	Operating radius (m)	Rated Load (metric ton)	Operating radius (m)	Rated Load (metric ton)
80°	4.7	2.00	5.9	1.50	6.8	1.20
75°	7.6	2.00	8.6	1.50	9.4	1.20
70°	10.3	2.00	11.2	1.50	11.8	1.20
65°	12.7	1.60	13.4	1.25	14.0	1.06
60°	14.9	1.32	15.7	1.09	16.3	0.94
55°	17.0	1.07	17.6	0.93	18.3	0.82
50°	19.0	0.85	19.6	0.78	20.1	0.69
45°	20.8	0.65	21.4	0.63	21.7	0.57
40°	22.5	0.50	22.9	0.49	23.1	0.45
35°	23.9	0.35	24.3	0.35	24.4	0.32
30°	25.2	0.25				
Min. boom angle	30°		35°		35°	

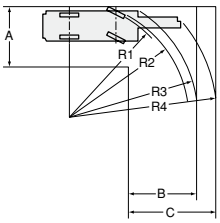
3.2 M	With outriggers in 3.2 m position (over the side)					
	5.5 m Jib					
	Jib angle:5°		Jib angle:17°		Jib angle:30°	
Boom angle	Operating radius (m)	Rated Load (metric ton)	Operating radius (m)	Rated Load (metric ton)	Operating radius (m)	Rated Load (metric ton)
80°	4.7	2.00	5.9	1.50	6.8	1.20
75°	7.6	2.00	8.6	1.50	9.4	1.20
70°	10.3	2.00	11.2	1.50	11.8	1.20
65°	12.7	1.50	13.3	1.15	14.0	1.00
60°	14.7	0.98	15.5	0.84	16.3	0.78
55°	16.7	0.65	17.5	0.58	18.3	0.56
50°	18.8	0.43	19.5	0.40	20.1	0.37
45°	20.6	0.22				
Min. boom angle	45°		50°		50°	

DIMENSIONS RK200



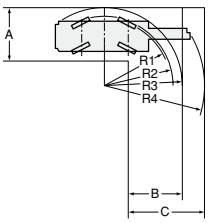
TURNING RADIUS

2-Drive Steering (Front)



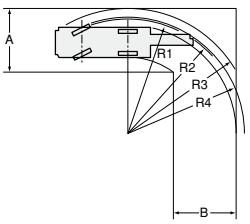
R1	Minimum turning radius	8.60m
R2	Tire clearance with cab	8.78m
R3	Carrier clearance	9.39m
R4	Boom clearance	9.78m
A	Entrance width (carrier)	4.63m
B	Exit width (tires)	4.63m
C	Exit width (boom)	5.02m

4-Drive Steering



R1	Minimum turning radius	4.73m
R2	Tire clearance with cab	4.94m
R3	Carrier clearance	5.53m
R4	Boom clearance	6.15m
A	Entrance width (carrier)	3.79m
B	Exit width (tires)	3.79m
C	Exit width (boom)	4.38m

2-Drive Steering (Rear)



R1	Minimum turning radius	8.60m
R2	Tire clearance with cab	8.78m
R3	Carrier clearance	9.39m
R4	Boom clearance	8.30m
A	Entrance width (carrier)	4.62m
B	Exit width (tires)	4.62m

STANDARD EQUIPMENT

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

OTHER AMENITIES

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

OPTIONAL EQUIPMENT

Extra 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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RK200-(1603)-101 20000103TF Printed in Japan