KOBELCO

NEW RK SERIES
Model: RK350-2

ROUGH TERRAIN CRANE

RK350

SPECIFICATIONS

Max. Lifting Capacity: **35 tons x 3.0 m**

Max. Boom Length: **35.0 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: 2.7 min^{-1}

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: 320 mm P.C.D. x 447 mm width
Aux. hoist: 320 mm P.C.D. x 274 mm width
WIRE ROPES

Main hoist	16 mm dia. x 191 m	IWRC 6 X Fi (29) c/o, hard twist rope
		4 x F (39) c/o anti twist rope (Europe area)
Aux. hoist	16 mm dia. x 105 m	WRC 6 X Ws (26) c/o, hard twist rope
		4 x F (39) c/o anti twist rope (Europe area)

LINE SPEED
Main hoist:124 m/min (at 4th layer)
Aux. hoist: 107 m/min (at 2nd layer)
BOOM HOIST
One-double acting hydraulic cylinder with holding valve.

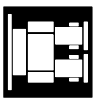
BOOM TELESCOPE
Full power telescoping by two hydraulic cylinders with holding valves and telescoping assistance cables for the boom tip section.
CONTROLS
Four adjustable hand control levers for swing, main winch, auxiliary winch (with pedal), and boom hoist (with pedal). These can be tilted in three neutral positions and stored in their bases when not in use.
Other controls include: one short lever for swing parking brake; one lever for telescope; one lever for telescope change; one lever for transmission gear selection; swing lock pin; 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)	Multi-display
Swing range limit device	Working range limit device
Swing automatic stop 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
Swing lock device	Safety lock lever
Hydraulic safety valve	Sling wire lock
Boom telescoping default operation prevension device	Boom telescope safety device
Boom hoist safety device	Check & Safety Monitor
Winch drum safety device	Swing alarm lamps
Outrigger safety device	Anti-slip seat

HYDRAULIC SYSTEM



PUMPS
2 variable plunger pumps and 3 gear pumps

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, air conditioner.
5th pump : Steering assist, power set jib
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 2-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 : 434 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	6.6m	6.2m	5.2m	3.8m	2.21m

ENGINE
MITSUBISHI 6D24-TE1/6D24-TUD (Europe), turbocharged, water-cooled diesel engine with 4 cycles, 6 cylinders, and direct injection.

Max. output	199 kW at 2,200 min^{-1}
	205 kW at 2,200 min^{-1} (Europe area)
Max. torque	1,049 N·m at 1,200 min^{-1}
	1,061 N·m at 1,400 min^{-1} (Europe area)

Displacement ..... 11,945 cc
ELECTRICAL SYSTEM
24-volt DC system with two 12-volt batteries
FUEL TANK
Capacity ..... 300 liters
TORQUE CONVERTER
3 element, single-stage, 2 phases, torque converter with fully 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, with ADS system.
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
Fully automaticsteering, front and rear axles are fitted with hydro-pneumatic suspension with suspension-lock system.
FRONT/REAR AXLES
Fully floating drive-steer type axles.

AXLE LOADING

Gross-Vehicle Weight	31,915 kg
Front-Vehicle Weight	15,955 kg
Rear-Vehicle Weight	15,960 kg

TIRES
Front/Rear: 445/95 R25 177E 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
Check & Safety Monitor
Boom mirror
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 section independently, 3rd, 4th and 5th sections synchronized. All-weleded, high tensile strength steel box construction.
Max. rated lifting capacity: 35.0 metric ton x 3.0 m
Fully retracted length ..... 9.4 m
Fully extended length ..... 35.0 m
Boom raising angle: 0˚ to 83˚
Boom raising time: 64.4 sec
Boom telescoping time: 122 sec / 25.6 m

JIB
Compressed truss, 2-step drawing up type jib extendable to stored alongside boom. Jib swing down under the boom and set out. Jib offsets 5˚, 25˚, and 45˚ with suspension rods.
Jib length ..... 8.1 m/13.5 m
AUXILIARY SHEAVE
The auxiliary sheave permits one-part line operation.

HOOK BLOCK
6-sheave, 35 metric ton block (double-sheave, 18 metric ton block) with safety latch for main hoist, 3.5 metric ton hook with swivel and safety latch for aux. hoist.

BOOM LIFTING CAPACITIES

Main Boom Lifting Capacities with Outriggers

MAIN	With outriggers in 6.6m position					With outriggers in 6.2m position					With outriggers in 5.2m position				
	360˚ swing area					Over the side					Over the side				
	Boom length in meters					Boom length in meters					Boom length in meters				
Operating radius (m)	9.4	15.8	22.2	28.6	35.0	9.4	15.8	22.2	28.6	35.0	9.4	15.8	22.2	28.6	35.0
3.0	35.00	22.50	15.50			35.00	22.50	15.50			35.00	22.50	15.50		
3.5	30.60	22.50	15.50			30.60	22.50	15.50			30.60	22.50	15.50		
4.0	27.50	22.50	15.50	10.00		27.50	22.50	15.50	10.00		27.50	22.50	15.50	10.00	
4.5	24.70	20.70	15.50	10.00		24.70	20.70	15.50	10.00		24.70	20.70	15.50	10.00	
5.0	22.30	19.20	15.50	10.00	7.00	22.30	19.20	15.50	10.00	7.00	21.50	19.20	15.50	10.00	7.00
5.5	20.30	17.85	14.00	10.00	7.00	20.30	17.85	14.00	10.00	7.00	18.70	17.50	14.00	10.00	7.00
6.0	18.60	16.70	13.00	10.00	7.00	18.60	16.70	13.00	10.00	7.00	15.70	14.80	13.00	10.00	7.00
6.5	16.40	15.60	12.15	10.00	7.00	16.40	15.60	12.15	10.00	7.00	13.40	12.55	12.15	10.00	7.00
6.8	9.00	15.00	11.70	10.00	7.00	9.00	15.00	11.70	10.00	7.00	9.00	11.40	11.70	10.00	7.00
7.0		14.70	11.40	10.00	7.00		14.70	11.40	10.00	7.00		10.70	11.40	10.00	7.00
8.0		12.65	10.15	8.80	7.00		11.95	10.15	8.80	7.00		8.10	8.90	8.80	7.00
9.0		10.40	9.05	7.85	6.25		9.70	9.05	7.85	6.25		6.50	7.30	7.85	6.25
10.0		8.40	8.15	7.05	5.65		7.70	8.15	7.05	5.65		5.20	6.00	6.60	5.65
11.0		6.85	7.40	6.35	5.15		6.10	7.10	6.35	5.15		4.25	4.95	5.55	5.15
12.0		5.50	6.45	5.80	4.70		4.80	6.15	5.80	4.70		3.45	4.15	4.70	4.70
12.5		5.05	5.95	5.50	4.45		4.35	5.65	5.50	4.45		3.10	3.80	4.30	4.50
13.0		4.56	5.55	5.30	4.30		3.95	5.20	5.30	4.30		2.85	3.50	4.00	4.20
13.2		3.70	5.40	5.20	4.20		3.25	5.10	5.20	4.20		2.80	3.40	3.85	4.05
14.0			4.80	4.85	3.95			4.50	4.65	3.95			2.95	3.45	3.65
15.0			4.15	4.45	3.65			3.85	4.15	3.65			2.45	2.95	3.15
16.0			3.55	4.00	3.40			3.25	3.70	3.40			2.05	2.55	2.75
17.0			3.10	3.55	3.15			2.80	3.25	3.15			1.65	2.20	2.40
18.0			2.70	3.15	2.95			2.40	2.85	2.95			1.35	1.85	2.10
19.0			2.35	2.75	2.75			2.05	2.45	2.65			1.10	1.60	1.80
19.6			2.20	2.50	2.65			1.90	2.20	2.50			1.00	1.45	1.65
20.0				2.40	2.60				2.10	2.40				1.35	1.60
21.0				2.10	2.35				1.80	2.15				1.10	1.35
22.0				1.80	2.10				1.50	1.90				0.90	1.15
23.0				1.60	1.90				1.30	1.70				0.70	0.95
24.0				1.40	1.70				1.10	1.45					0.75
25.0				1.25	1.50				0.95	1.25					0.60
26.0				1.10	1.35				0.80	1.10					
27.0					1.15					0.90					
28.0					1.00					0.75					
29.0					0.90					0.65					
30.0					0.75					0.50					
31.0					0.60					0.40					
32.0					0.50										
32.5					0.45										
Min. boom angle	0˚	0˚	0˚	0˚	0˚	0˚	0˚	0˚	0˚	18˚	0˚	0˚	0˚	28˚	39˚

Main Boom Lifting Capacities without Outriggers

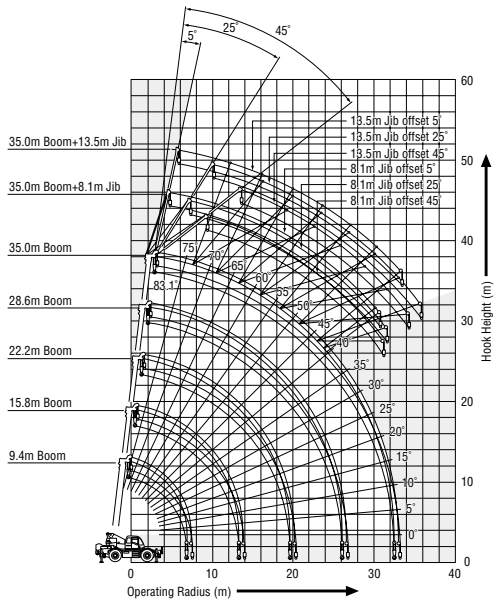
Unit: metric ton

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					
Operating radius (m)	9.4	15.8	22.2	9.4	15.8	22.2	9.4	15.8	22.2	9.4	15.8	22.2
3.0	9.00	8.00	5.00	16.00	13.00	10.00	6.80	6.00	3.70	12.00	10.00	7.50
3.5	7.50	6.70	5.00	16.00	13.00	10.00	5.70	5.20	3.70	12.00	10.00	7.50
4.0	6.00	5.15	5.00	14.40	13.00	10.00	4.80	4.35	3.70	10.80	10.00	7.50
4.5	4.80	4.00	4.90	13.05	11.80	10.00	4.10	3.65	3.70	9.75	9.15	7.50
5.0	3.85	3.15	4.00	11.85	10.80	10.00	3.50	3.00	3.70	8.85	8.35	7.50
5.5	3.15	2.45	3.25	10.80	9.90	10.00	3.00	2.45	3.15	8.05	7.60	7.50
6.0	2.55	1.90	2.70	10.00	9.10	10.00	2.50	1.90	2.65	7.30	6.95	6.90
6.5	2.10	1.45	2.20	8.70	8.15	8.80	2.10	1.45	2.20	6.60	6.10	6.35
6.8	1.85	1.20	1.95	7.95	7.50	8.15	1.85	1.20	1.95	5.95	5.60	6.05
7.0		1.10	1.80		7.10	7.80		1.10	1.80		5.35	5.85
8.0		0.50	1.15		5.45	6.20		0.50	1.15		4.10	4.65
9.0			0.70		4.20	5.00			0.70		3.20	3.75
10.0					3.30	4.05					2.55	3.05
11.0					2.55	3.30					2.00	2.50
12.0					1.95	2.70					1.50	2.05
13.0					1.50	2.20					1.10	1.65
13.2					1.40	2.10					1.05	1.55
14.0						1.80						1.35
15.0						1.45						1.10
16.0						1.15						0.85
17.0						0.90						0.60
18.0						0.65						
Min. boom angle	0˚	51˚	60˚	0˚	0˚	24˚	0˚	51˚	60˚	0˚	0˚	30˚

Unit: metric ton

With outriggers in 3.8m position					With outriggers in 2.21m position				
Over the side					Over the side				
Boom length in meters					Boom length in meters				
9.4	15.8	22.2	28.6	35.0	9.4	15.8	22.2	28.6	35.0
35.00	22.50	15.50			14.20	13.30			
26.00	22.50	15.50			10.70	9.90	11.20		
19.60	18.50	15.50	10.00		8.40	7.80	8.90	9.50	
15.40	15.15	15.50	10.00		6.80	6.20	7.20	7.80	
12.60	12.30	13.20	10.00	7.00	5.65	5.00	5.90	6.50	6.75
10.60	10.30	11.00	10.00	7.00	4.70	4.10	5.00	5.50	5.75
9.00	8.50	9.50	10.00	7.00	3.90	3.45	4.25	4.70	4.95
7.70	7.25	8.15	8.70	7.00	3.40	2.85	3.60	4.10	4.20
7.00	6.60	7.45	7.95	7.00	3.00	2.50	3.25	3.70	3.80
	6.35	7.10	7.60	7.00		2.35	3.10	3.50	3.60
	4.85	5.55	6.15	5.90		1.60	2.30	2.65	2.70
	3.75	4.40	4.85	5.00		0.95	1.70	1.95	2.05
	2.90	3.55	3.95	4.15			1.20	1.45	1.60
	2.25	2.90	3.25	3.45			0.70	1.10	1.25
	1.60	2.35	2.70	2.90				0.75	0.95
	1.30	2.10	2.50	2.65					0.80
	1.15	1.90	2.30	2.45					0.70
		1.80	2.20	2.35					
		1.50	1.90	2.05					
		1.15	1.55	1.75					
		0.80	1.25	1.45					
			0.95	1.20					
			0.70	0.95					
				0.70					
				0.55					
				0.50					
0˚	13˚	35˚	45˚	50˚	0˚	46˚	54˚	61˚	65˚

Working Ranges



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

JIB LIFTING CAPACITIES

Jib Lifting Capacities with Outriggers

Unit: metric ton

6.6 M — With outriggers in 6.60m position (360˚ swing area)

	8.1 m Jib							13.5 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)	Boom angle	Operating Radius (m)	Rated Load (metric ton)	Operating Radius (m)	Rated Load (metric ton)	Operating Radius (m)	Rated Load (metric ton)
83˚	5.6	3.40	8.2	2.10	10.4	1.50	83˚	7.0	2.20	11.4	1.25	15.0	1.00
78˚	9.8	3.40	12.0	2.10	13.8	1.50	79˚	10.5	2.20	14.9	1.25	17.9	1.00
77˚	10.3	3.21	12.8	2.10	14.5	1.50	77˚	12.5	2.20	16.6	1.25	19.3	0.80
75˚	11.9	2.84	14.1	1.93	15.8	1.50	72˚	16.5	1.67	20.3	1.07	22.7	0.80
70˚	15.4	2.21	17.5	1.60	18.9	1.31	70˚	18.2	1.51	21.7	1.01	24.0	0.76
65˚	18.8	1.80	20.7	1.36	21.8	1.17	65˚	22.0	1.22	25.2	0.86	27.1	0.67
60˚	21.9	1.51	23.7	1.18	24.6	1.05	60˚	25.5	1.02	28.4	0.75	29.9	0.60
55˚	24.9	1.31	26.5	1.05	27.1	0.96	55˚	28.8	0.88	31.4	0.65	32.7	0.54
53˚	26.1	1.26	27.5	1.01	28.1	0.92	51˚	31.3	0.78	33.6	0.59	34.7	0.51
52˚	26.6	1.16	28.1	0.99	28.6	0.91	50˚	31.9	0.70	34.2	0.58	35.2	0.51
49˚	28.2	0.87	29.5	0.74	30.0	0.67	49˚	32.5	0.63	34.7	0.52	35.8	0.50
47˚	29.3	0.69	30.5	0.59	30.8	0.53	45˚	34.8	0.38	36.6	0.30		
45˚	30.3	0.53	31.4	0.44	31.6	0.42							
43˚	31.2	0.40	32.2	0.31									
42˚	31.7	0.35											
Min. boom angle	42˚		43˚		45˚		Min. boom angle	45˚		45˚		49˚	

6.2 M — With outriggers in 6.20m position (Over the side)

	8.1 m Jib							13.5 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)	Boom angle	Operating Radius (m)	Rated Load (metric ton)	Operating Radius (m)	Rated Load (metric ton)	Operating Radius (m)	Rated Load (metric ton)
83˚	5.6	3.40	8.2	2.10	10.4	1.50	83˚	7.0	2.20	11.4	1.25	15.0	1.00
78˚	9.8	3.40	12.0	2.10	13.8	1.50	78˚	11.7	2.20	15.7	1.25	18.6	1.00
77˚	10.3	3.21	12.8	2.10	14.5	1.50	77˚	12.5	2.20	16.6	1.25	19.3	0.80
75˚	11.9	2.84	14.1	1.93	15.8	1.50	72˚	16.5	1.67	20.3	1.07	22.7	0.80
70˚	15.4	2.21	17.5	1.60	18.9	1.31	70˚	18.2	1.51	21.7	1.01	24.0	0.76
65˚	18.8	1.80	20.7	1.36	21.8	1.17	65˚	22.0	1.22	25.2	0.86	27.1	0.67
60˚	21.9	1.51	23.7	1.18	24.6	1.05	60˚	25.5	1.02	28.4	0.75	29.9	0.60
59˚	22.5	1.46	24.3	1.15	25.1	1.03	58˚	26.9	0.95	29.7	0.70	31.0	0.57
58˚	23.2	1.37	24.8	1.12	25.6	1.01	56˚	28.2	0.80	30.9	0.60	32.0	0.55
56˚	24.3	1.12	25.9	0.90	26.6	0.80	55˚	28.7	0.71	31.3	0.52	32.5	0.48
55˚	24.8	1.00	26.4	0.79	27.0	0.69	52˚	30.7	0.44	33.1	0.31	34.0	0.30
52˚	26.5	0.64	28.0	0.48	28.5	0.42	51˚	31.2	0.36				
51˚	27.2	0.52	28.6	0.38									
50˚	27.7	0.40											
Min. boom angle	50˚		51˚		52˚		Min. boom angle	51˚		52˚		52˚	

5.2 M — With outriggers in 5.20m position (Over the side)

	8.1 m Jib							13.5 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)	Boom angle	Operating Radius (m)	Rated Load (metric ton)	Operating Radius (m)	Rated Load (metric ton)	Operating Radius (m)	Rated Load (metric ton)
83˚	5.6	3.40	8.2	2.10	10.4	1.50	83˚	7.0	2.20	11.4	1.25	15.0	1.00
78˚	9.8	3.40	12.0	2.10	13.8	1.50	79˚	10.5	2.20	14.9	1.25	17.9	1.00
77˚	10.3	3.21	12.8	2.10	14.5	1.50	77˚	12.5	2.20	16.6	1.25	19.3	0.80
75˚	11.9	2.84	14.1	1.93	15.8	1.50	72˚	16.5	1.67	20.3	1.07	22.7	0.80
70˚	15.4	2.21	17.5	1.60	18.9	1.31	70˚	18.2	1.51	21.7	1.01	24.0	0.76
66˚	18.1	1.87	20.1	1.40	21.2	1.20	65˚	22.0	1.22	25.2	0.86	27.1	0.66
65˚	18.7	1.72	20.7	1.36	21.8	1.17	64˚	22.7	1.18	25.9	0.83	27.7	0.64
64˚	19.4	1.58	21.3	1.32	22.4	1.04	63˚	23.4	1.08	26.5	0.81	28.2	0.63
60˚	21.8	1.09	23.6	0.89	24.5	0.76	61˚	24.8	0.89	27.8	0.66	29.4	0.61
55˚	24.7	0.57	26.3	0.46	26.9	0.39	58˚	26.9	0.63	29.7	0.47	31.0	0.43
							56˚	28.1	0.48	30.8	0.35	31.9	0.33
							55˚	28.6	0.41				
Min. boom angle	55˚		55˚		55˚		Min. boom angle	55˚		56˚		56˚	

3.8 M — With outriggers in 3.80m position (Over the side)

	8.1 m Jib							13.5 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)	Boom angle	Operating Radius (m)	Rated Load (metric ton)	Operating Radius (m)	Rated Load (metric ton)	Operating Radius (m)	Rated Load (metric ton)
83˚	5.6	3.40	8.2	2.10	10.4	1.50	83˚	7.0	2.20	11.4	1.25	15.0	1.00
78˚	9.8	3.40	12.0	2.10	13.8	1.50	79˚	10.5	2.20	14.9	1.25	17.9	1.00
77˚	10.3	3.21	12.8	2.10	14.5	1.50	77˚	12.5	2.20	16.6	1.25	19.3	0.80
75˚	11.8	2.59	14.1	1.93	15.8	1.50	75˚	14.2	1.96	17.8	1.17	20.7	0.80
74˚	12.4	2.32	14.9	1.85	16.4	1.46	73˚	15.8	1.56	19.3	1.10	22.0	0.80
72˚	13.7	1.80	16.2	1.48	17.6	1.15	72˚	16.4	1.37	20.1	0.99	22.7	0.80
69˚	15.9	1.22	18.2	1.00	19.5	0.78	70˚	18.0	1.06	21.3	0.78	23.9	0.63
65˚	18.3	0.61	20.5	0.50	21.6	0.38	68˚	19.5	0.79	22.6	0.58	25.1	0.47
							65˚	21.5	0.46	24.5	0.33	26.9	0.26
Min. boom angle	65˚		65˚		65˚		Min. boom angle	65˚		65˚		65˚	

LIFTING CAPACITIES RK350

NOTES:

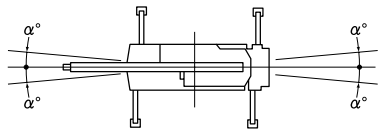
OPERATION WITH OUTRIGGERS

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.

Kind of Hooks	35-ton	18-ton	3.5-ton
Weight	300 kg	210 kg	70 kg

4. Maximum outrigger extension is 6.6 m. Three intermediate extension positions are also provided at 6.2 m, 5.2 m and 3.8 m. Minimum outrigger extension is 2.21 m.

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



Outrigger extension	6.2m	5.2m	3.8m	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 3,500kg. Ratings of the auxiliary sheave are calculated by deducting 35-ton hook weight (300 kg) or 18-ton hook weight (210 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 1,600 kg at 8.1m jib ro 1,800 kg at 13.5m jib besides the weight of 18-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 3,100 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 OUTTIGGERS (ON TIRES)

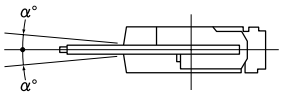
1. Rated load do not exceed 78% of the tipping loads with machine set horizontally on a firm and level ground, satisfy the specified stability over the front, and include weight of hook block(s) and other handling accessories. Ratings shown in ▭ are based on the machine's structural strength, and others are determined by the machine's stability. Tire specified air pressure is set to 900kPa (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.

Kind of Hooks	35-ton	18-ton	3.5-ton
Weight	300 kg	210 kg	70 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



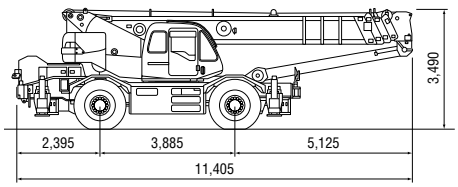
On tires	Stationery	Pick & carry
α° (FRONT)	1°	1°

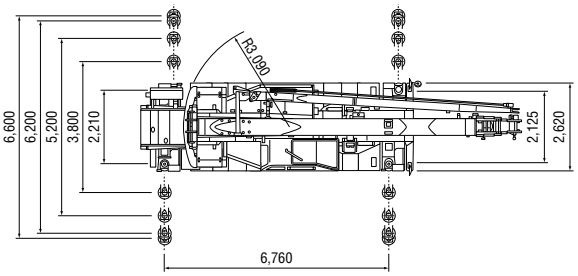
5. Ratings of the auxiliary sheave are the same as main boom ratings, but should not exceed 3,500 kg. Ratings of the auxiliary sheave are calculated by deducting 35-ton hook weight (300 kg) or 18-ton hook weight (210 kg) from main boom ratings.
6. Parking brake and auxiliary operation brake must be applied 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. Standard hoist reevings are shown bellow. Single-line load must not exceed 3,100 kg.

Boom length	9.4m	15.8m	22.2m	28.6m	35.0m	Jib aux. sheave
Hook	35-ton		18-ton			3.5-ton
No. of reeving	12	8	5	4	4	1

Boom length	9.4m	15.8m	22.2m	Jib aux. sheave
Hook	35-ton		18-ton	3.5-ton
No. of reeving	12	8	5	1

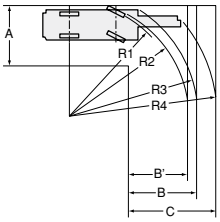
DIMENSIONS RK350





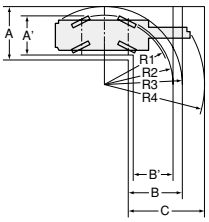
TURNING RADIUS

2-Drive Steering (Front)



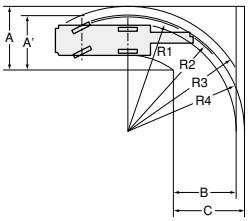
R1	Minimum turning radius	9.20m
R2	Tire clearance with cab	9.42m
R3	Carrier clearance	10.26m
R4	Boom clearance	11.76m
A	Entrance width (carrier)	4.90m
B	Exit width (carrier)	5.75m
B'	Exit width (tires)	4.90m
C	Exit width (boom)	7.25m

4-Drive Steering



R1	Minimum turning radius	5.20m
R2	Tire clearance with cab	5.42m
R3	Carrier clearance	6.38m
R4	Boom clearance	8.10m
A	Entrance width (carrier)	4.60m
A'	Entrance width (tires)	3.26m
B	Exit width (carrier)	4.60m
B'	Exit width (tires)	3.26m
C	Exit width (boom)	6.43m

2-Drive Steering (Rear)



R1	Minimum turning radius	9.20m
R2	Tire clearance with cab	9.42m
R3	Carrier clearance	10.36m
R4	Boom clearance	9.21m
A	Entrance width (carrier)	5.42m
A'	Entrance width (tires)	4.48m
B	Exit width (tires)	5.42m
C	Exit width (boom)	5.89m

STANDARD EQUIPMENT

Engine tachometer
Tachograph
Hourmeter
Engine over running alarm
Paper-element air cleaner
Two working lights
Horn
Remote back mirror
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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