



SPECIFICATIONS

CRANE PERFORMANCE							
	7.35 m boom	25,000 kg x 3.5 m (7 parts)					
	12.00 m boom	20,300 kg x 3.5 m (6 parts)					
	16.66 m boom	19,000 kg x 4.0 m (6 parts)					
	21.31 m boom	14,450 kg x 4.0 m (4 parts)					
Max. rated load	25.97 m boom	10,450 kg x 5.5 m (4 parts)					
Max. rated toad	30.62 m boom	7,000 kg x 8.0 m (4 parts)					
	5.8 m jib	4,000 kg x 10.6 m (1 part)					
	8.9 m jib	2,300 kg x 14.0 m (1 part)					
	12.0 m jib	2,000 kg x 12.0 m (1 part)					
	Auxiliary sheave	4,000 kg (1 part)					
Many lifeting by table	25 t hook (Main bo	om) 31.5 m					
Max. lifting height	4 t ball hook (Twist	jib) 43.2 m					
May waling radius	Boom	28.2 m					
Max. working radius	Jib	33.6 m					
Main boom length	7.35 m to 30.62 m	·					
Boom telescoping speed	100 sec/23.27 m						
Jib length	5.8 m, 8.9 m, 12.0	m					
Line speed	Main: 122 m/min a	t 4th layer, Aux.: 107 m/min at 1st layer					
Line pull	4,200 kg at 5th laye	er					
Boom raising speed	49.6 sec/ -8° to 82						
Swing speed	1.9 min ⁻¹ {1.9 rpm}						
CRANE MAIN STRUCTUF							
		s, 2nd, 3rd, and 4th singly and 5th					
Main boom	and 6th simultaneo						
		ng, use in combnation with wire rope					
		ressed truss and box type, 2nd and 3rd					
Jib	drawing out type.						
OID	Sky tilt jib: hydraulic no-step tilt type (3° to 45°)						
		l): 3 step variable tilt type (5°, 25°, 45°)					
Aux. sheave		tip, upward storage, hook winding up type					
		ve, planetary gear reduction and automatic					
Winch system		2 winches (without free-fall)					
	High to low variable speed						
Boom hoist system	Direct forced type by double acting hydraulic cylinder (-8°~ 82°)						
Swing system		ve, planetary gear reduction type,					
	1 0 0	ive) brake, half-free/lock selectable					
	Туре	All hydraulic, H-type or X-type					
Outriggers	Extension width	H-type: 6.3 m/5.9 m/5.1 m/3.8 m/2.12 m					
	LAIGHSIOII WIUIII	X-type: 6.3 m/5.9 m/5.1 m/3.8 m/2.98 m					

WIRE ROPE					
Main	Ø 16 mm	1 x 170 m	IWRC 6 x Fi (29) C/O anti-twist		
Aux.			WRC 6 x WS (26) C/O anti-twist		
HYDRAULIC SYSTEM					
Hydraulic pumps	for travel	3 gear emerge	ble displacement plunger pumps for travel, and pumps for steering and one gear pump for ency steering ble displacement plunger pumps, and 3 gear		
	for crane	pump			
Hydraulic oil tank	410 liters				
CARRIER PERFORMANO	CE				
Max. travel speed	49 km/h				
Gradeability	High gear:	19 % (11	°) /Low gear: 50 % (27°)		
Min. turning radius	Normal ste	ering	8.5 m		
wiiii. turriinig raulus	Cramp ste	ering	4.8 m		
	Make/mod	el	HINO J08E-TM		
	Туре		Water cooled, 4 cycle, 6 cylinders, direct		
Facina			injection diesel with turbocharger, intercooler		
Engine	Displacem	ent	7.684 liters		
	Max. output		209 kW/2,100 min ⁻¹ {284 PS/2,100 rpm}		
	Max. torque		998 Nm/1,600 min-1 {102 kgf m/1,600 rpm}		
CARRIER MAIN STRUCT	TURE				
Travel drive	All wheel o	Irive and s	steering (4 x 4)		
Transmission	Туре		HST (Hydrostatic transmission), full-time 4 wheel drive		
	No. of spe	ed shift	CVT by HST + High/Low 2-step		
Axles		fferential I	I driven by variable displacement hydraulic ocks for transverse lock. liate gear		
Suspension	Hydro-pne	umatic su	spension (with hydraulic cylinder)		
Steering	lype	levice an	lic power steering with emergency steering d about-face steering compensation device		
	Mode N	lormal (fr	ont 2W), clamp (4W), crab (4 W) and rear (2W)		
Brake	Main servi		Internal expansion drum type with full air booster, on all wheels		
	Aux. brake		HST brake		
	Parking br		Spring locked type, acting on all wheels		
Tires (front and rear)	385/95 R2	5 170E R	OAD		
Fuel tank 300 liters					





Main boom length: 7.35 - 30.62 m Outriggers: 6.3 m position

Swing area: 360°

							Unit: ton
В	oom length (m)	7.35	12.00	16.66	21.31	25.97	30.62
	2.5	25.00	20.30				
	3.0	25.00	20.30	19.00	14.45		
	3.5	25.00	20.30	19.00	14.45		
	4.0	22.40	19.75	19.00	14.45	10.45	
	4.5	20.00	19.10	18.00	13.85	10.45	
	5.0	11.50/4.9m	18.50	16.70	13.20	10.45	7.00
	5.5		16.90	15.60	12.60	10.45	7.00
	6.0		15.50	14.60	12.00	10.00	7.00
	6.5		14.30	13.80	11.50	9.60	7.00
	7.0		13.20	13.00	10.95	9.20	7.00
	7.5		12.20	12.20	10.40	8.80	7.00
	8.0		10.65	10.70	9.80	8.40	7.00
Œ	8.5		9.35	9.60	9.30	8.05	6.70
s (9.0		8.25	8.55	8.80	7.70	6.40
Operating radius	9.5		7.20	7.65	8.10	7.40	6.15
3.13	10.0			6.90	7.30	7.10	5.90
ΙĘ	11.0			5.65	6.05	6.55	5.35
era	12.0			4.70	5.10	5.55	4.90
ŏ	13.0			3.90	4.30	4.75	4.50
	14.0			3.30	3.70	4.10	4.15
	15.0			3.15/14.2m	3.15	3.55	3.85
	16.0				2.70	3.10	3.35
	17.0				2.30	2.75	2.95
	18.0				1.90	2.40	2.60
	19.0				1.60/18.8m	2.10	2.35
	20.0					1.80	2.10
	22.0					1.30	1.60
	24.0					1.00/23.5m	1.25
	26.0						0.95
	28.0						0.70
	30.0						0.70/28.2m

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30.62 m boom		- 1/	1/			7				,	7						b off		
+12.0 m jib 30.62 m boom	П	$\exists I$	#		/	7											offs		
+8.9 m jib	П	L	7		K	-	LZ,	/									offs		
30.62 m boom				1	1		X	Ź				7	40				offs		
+5.8 m jib		-	-	1	1/2			Z.		\gtrsim			ملك سر				offs		
		Az	4	À	$\mathbb{Z}_{\mathbb{Z}}$	4	Ì	Ž.	\boxtimes	Ø.	8	\ \}			5.8	מון ח	offs	et 4	5
30.62 m boom	82	W		5/ ₂			Ž		Ø	8		<u> </u>							
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25.97 m boom	Ш.			1./	1/	Z-&	9	%		<u> </u>	X	\boxtimes	\mathbb{Z}	\searrow	19				30
23.37 111 000111	1	=\	`	/	/	1	7	\triangleright	2		7,0	No.	\times	1					
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21.31 m boom	4	1	<i>t</i>	7	/7		X			\times		4172	\sim	\mathcal{A}	数	#/	1	_	Ê
	//₹	1-1	/	$\stackrel{>}{>}$	Ź	Z	\searrow	$\langle \cdot \rangle$	_	//	X	Z.		X)	7.	19/1		_	pu (
16.66 m boom	4	1	7	\Rightarrow	\times	\searrow	Ĺ	X	\gg	_	\rightarrow	#		- 7	\perp	-		_	20 0
]	Μ.	<i>7</i>	\leq	ζ,	\angle	X)	\sim		X.	×	Ľ	7	⟨3(_				_	% Se
12.00 m boom	\mathcal{A}	\nearrow	\times	2	\langle	K	\geq	X	\vdash		<u>k</u> -		4	25°	_				50 Height above ground (m)
	1 /A;	$\langle \langle \rangle$	Α	\geq	$\langle \cdot \rangle$	K	Z	(II)	<u> </u>		#	_	\rightarrow		0°—	_		\dashv	ight
7.35m m boom	1/3	X	X	\angle	×	7/1	_		11		<u> </u>	<u> </u>	. ^\	1/1	15°			4	Ξ̈́
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Boom and jib geometry shown does not reflect any deflection of boom and jib. Boom deflection and subsequent radius and boom angle change must be accounted for when at actual operation.

LIFTING CAPACITIES TWIST JIB

Main boom length: 30.62 m Jib length: 5.8, 8.9, 12.0 m Outriggers: 6.3 m position Swing area: 360°

I I to ide	400
Unit:	lon

							OIIIL TO	
	Jib length (m)			5.8	m			
	Jib angle (°)	3 to	o 5	2	5	45		
		Operating	Lifting	Operating	Lifting	Operating	Lifting	
		radius (m)	capacity (kg)	radius (m)	capacity (kg)	radius (m)	capacity (kg)	
	82.0	5.1	4.00	6.9	3.10	8.4	2.13	
	80.0	6.5	4.00	8.3	3.10	9.6	2.13	
	75.0	9.7	4.00	11.4	3.10	12.6	2.04	
	73.5	10.6	4.00	12.3	2.95	13.5	2.01	
	71.0	12.0	3.80	13.7	2.73	14.8	1.98	
_	70.0	12.6	3.63	14.2	2.65	15.3	1.97	
0	69.0	13.2	3.48	14.8	2.57	15.9	1.96	
angle	65.0	15.5	2.93	17.0	2.29	17.9	1.92	
٦a۲	62.0	17.1	2.60	18.5	2.12	19.4	1.86	
Boom	60.0	18.2	2.29	19.5	2.01	20.3	1.79	
ĕ	56.0	20.2	1.70	21.5	1.56	22.2	1.50	
	55.0	20.7	1.58	22.0	1.45	22.6	1.40	
	53.0	21.7	1.36	22.9	1.25	23.4	1.21	
	52.0	22.2	1.26	23.3	1.16	23.9	1.13	
	50.0	23.1	1.07	24.2	1.00	24.7	0.97	
	48.0	24.0	0.91	25.0	0.85	25.4	0.83	
	45.0	25.3	0.70	26.2	0.65	26.4	0.64	
	40.0	27.2	0.41	27.9	0.39			
	37.0	28.3	0.28	28.7	0.26			
M	in. boom angle	3	7°	3	7°	4	5°	

Unit: ton

	Jib length (m)	8.9 m					
	Jib angle (°)	3 to	o 5	2	5	4	5
		Operating	Lifting	Operating	Lifting	Operating	Lifting
		radius (m)	capacity (kg)	radius (m)	capacity (kg)	radius (m)	capacity (kg)
	82.0	5.8	2.30	8.7	2.10	11.0	1.40
	80.0	7.2	2.30	10.1	2.10	12.3	1.40
	75.0	10.8	2.30	13.4	1.82	15.3	1.35
	73.5	11.8	2.30	14.3	1.74	16.2	1.33
	71.0	13.4	2.30	15.9	1.62	17.6	1.30
	70.0	14.0	2.30	16.5	1.57	18.2	1.28
	69.0	14.6	2.28	17.1	1.53	18.7	1.27
_	65.0	17.1	1.95	19.4	1.39	20.8	1.20
(°)	62.0	18.8	1.76	21.0	1.30	22.4	1.15
Boom angle	60.0	20.0	1.65	22.1	1.25	23.3	1.12
n a	56.0	22.2	1.47	24.2	1.16	25.2	1.06
100	55.0	22.7	1.37	24.7	1.14	25.6	1.05
a	53.0	23.8	1.17	25.6	1.05	26.5	1.00
	52.0	24.3	1.08	26.1	0.97	26.9	0.93
	50.0	25.3	0.92	27.0	0.83	27.7	0.80
	48.0	26.3	0.77	27.9	0.70	28.5	0.68
	45.0	27.7	0.58	29.1	0.53	29.5	0.52
	40.0	29.8	0.33	31.0	0.30		
	39.0	30.2	0.29	31.4	0.26		
	38.0	30.6	0.25				
M	in. boom angle	38	8°	3	9°	4	5°

Unit:	to

							Onit. ton		
J	lib length (m)	12.0 m							
	Jib angle (°)	3 t	0 5	2	5	45			
		Operating	Lifting	Operating	Lifting	Operating	Lifting		
		radius (m)	capacity (kg)	radius (m)	capacity (kg)	radius (m)	capacity (kg)		
	82.0	7.1	2.00	10.7	1.25	13.6	1.00		
	80.0	8.5	2.00	12.1	1.25	14.9	1.00		
	75.0	12.0	2.00	15.6	1.18	18.1	1.00		
	73.5	13.1	1.87	16.6	1.15	19.0	1.00		
	72.0	14.1	1.75	17.5	1.12	19.9	0.97		
	71.0	14.8	1.70	18.2	1.10	20.5	0.95		
_	69.0	16.1	1.58	19.4	1.06	21.6	0.91		
(°)	65.0	18.8	1.40	21.9	1.01	23.8	0.84		
ng	60.0	21.9	1.20	24.8	0.94	26.4	0.74		
Boom angle	55.0	24.9	1.10	27.5	0.88	28.7	0.64		
100	53.0	26.0	1.03	28.5	0.85	29.6	0.60		
8	52.0	26.6	0.95	29.0	0.84	30.0	0.58		
	51.0	27.1	0.87	29.4	0.77	30.5	0.56		
	50.0	27.6	0.80	29.9	0.71	30.9	0.54		
	48.0	28.7	0.67	30.8	0.60	31.6	0.50		
	45.0	30.2	0.50	31.9	0.45	32.6	0.44		
	41.0	32.0	0.32	33.3	0.28				
	40.0	32.5	0.27	33.6	0.25				
M	in. boom angle	4	0°	4	0°	4	5°		



Lifting capacity

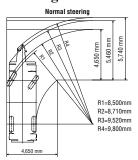
Stationary: Max., Operating radius 3.0 m

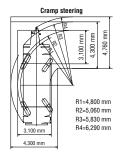
	Stationary								
Swing area		360							
Boom length (m)	7.35	7.35 12.00 16.66 21.31							
Lifting capacity (ton)	7.65 7.50 7.30 4.50								

Stationary: Max., Operating radius 3.0 m

	Stationary							
Swing area	Over the front							
Boom length (m)	7.35	7.35 12.00 16.66 21.31						
Lifting capacity (ton)	14.00 14.00 9.00 6.50							

Steering



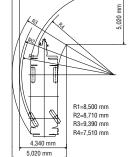


Pick & Carry: Max., Operating radius 3.0 m

	Pick & Carry (under 2 km/h)								
Swing area	360								
Boom length (m)	7.35	7.35 12.00 16.66 21.31							
Lifting capacity (ton)	7.65 6.40 5.10 3.20								

Pick & Carry: Max Operating radius 3 0 m

riok a barry. max., operating radias 6.5 m							
		Pick & Carry (under 2 km/h)					
Swing area		Over the front					
Boom length (m)	7.35	12.00	16.66	21.31			
Lifting capacity (ton)	13.80	10.50	7.50	5.50			



Rear steering

Reference

Ratings according to Japanese Construction Codes for mobile cranes and Japanese Safety Ordinance on Cranes, etc.

Classification of the crane

The crane is classified as follows. (ISO 4301-2 or FEM 1.001):

- Operating classification → U2
 Collective classification → Q2
- Crane group → A1

All the major components of the crane are designed and manufactured for standard construction operations. It is assumed that there is a normal working time relation between the maximum usage of the crane, work periods with relatively light usage of the crane, and the rest periods for the machinery, this ratio should be a value which is typical for an erection crane. Under more severe operating conditions, a shorter service life would be inevitable and must be expected.

If the crane will be used under uncommon operating conditions or for special tasks which are different from standard assembly work, the prior approval of manufacturer must be obtained; in such a case, it can be assumed that the load carrying capacity will be restricted

Notes

- . The rated crane load is the maximum lifting capacity when the crane is set on firm and level ground and includes the weight of the hook block, sling wire, etc.
- Area marked with \(\subseteq \) indicates that the rated load is decided by machine stability.

 2. In the area where the chart is blank, crane lifting can not be done there.

 If the boom is lowered exceeding the minimum boom angle, crane may turnover even without load. Take extra care not to do this.

 3. If the required boom length for actual work exceeds the specified boom length or one rank
- above that boom length, whichever the rated load is smaller.

 The crane load of aux.. sheave is equal to that of the boom rated load minus 25 ton hook weight
- (200 kg) and limited to 4,000 kg.
- 5. Operating radius is horizontal distance from swing center to the gravity point of the load.
 6. Radius shown on the above capacity chart are on actual base taking in account of boom and jib
- deflection under loaded condition at 100% of rated load. When using boom only, always refer to radius over your operation
- per the following table

Type of the hooks	s and their	weight is as	p
Kind of hooks	25 ton	4.0 ton	
Weight	200 kg	70 kg	

8. Minimum no. of reeving part of the hook is determined so that the sling line load does not

The maximum reeving for each boom length is shown bellow

Boom length	7.35 m	12.00 m	16.66 m	21.31 m	25.97 m	30.62 m	Jib/aux. sheave
Used hook	25.0 hook					4.0 ton hook	
No. of reeving	7	6	6	4	4	4	1

OPERATION WITHOUT OUTRIGGERS (ON TIRE)

1. The rated crane load means the maximum load that the crane can lift when the air pressure of tires is at the specified pressure on firm and level ground and when the suspension cylinder is retracted to the maximum rate and includes the weight of the hook block and sling wire, etc.

The part is decided by the strength of machine and other area are decided by the stability of the crane body.

(Tires specified air pressure: 900 kPa)

2. The rated crane load is different in capacity at the forward and lateral directions. When the crane swings from the forward area to the lateral area, take extra care because the crane may be overloaded.



- 3. Do not attempt the operation with jib
- 4. Operate the lifting work at the fixed position with the parking brake engaged
- 5. Operate the lifting work during propelling with the high and low selector switch set to the low
- 6. Operate the lifting work during propelling so that it is not swung while holding the load close to the ground at a speed of 2 km/h or lower.

 Special care should be taken to the cornering, sudden acceleration and braking.
- 7. Do not attempt the crane operation through the lifting work during propelling

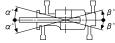
OPERATION WITH OUTRIGGERS

- orenation with outsidens.

 1. The maximum extension width of outrigger is 6.3 m, medium extension width is 5.9 m, 5.1 m and 3.8 m. The minimum extension width is 2.12 m for H type and 2.98 m for X type.

 2. The lifting capacity in side areas may differ depending on the extending condition of outriggers. If the extension width is different depending on the right and left, front and rear outriggers, carry out operation under the rated crane load according to the right front and rear outriggers with less extension width in the right side area, and the left front and rear outriggers with less extension width in the left side area

For the lifting capacity in the front and rear areas, make sure to work following the rated crane load chart with the outriggers maximum extension. However, the rated crane load indicated by the load safety device in the lateral area is designed to change continuously from the forward, backward to he lateral area by the calculation excluding the outriggers minimum extension



Outrigger extension condition	MID extension (5.9m)	MID extension (5.1m)	MID extension (3.8 m)	Minimum extension (H type 2.12 m) (X type 2.98 m)
Area α°	31	27	19	H 7
71100 00	0.			X 14
A 00	04	27 19	40	H 7
Area ∕3°	31		19	X 14

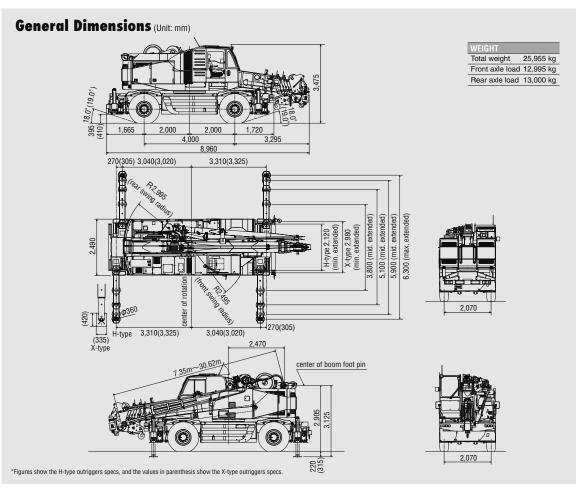
- 3. When using jib, the above chart shows only the actual radius under 30.62 m boom, therefore,
- always refer to boom angle when operating jib with boom length shorter than 30.62 m. In case of jib work, jib rated load 4.0 ton minus ball hook weight and sling wire rope weight should be used.
- In case of boom work with jib extended, boom rated load minus lifting sling weight and 1,200 kg should be used in case of 1 to 3 step jib extended condition. Do not use aux. sheave when the jib extended. Regarding stability in the oblique direction (outrigger direction), the outrigger float at the
- diagonal position against the lifted load may float depending of the condition during lifting work in the oblique direction (Outrigger direction). This phenomenon is caused due to the torsional rigidity of carrier frame and deflection and not by the loss o stability. This crane is set and operated horizontally on firm and level ground through out the work within the rated crane load and the stability is ensured. The oblique (outrigger direction) means the direction



of (1) to (4).

Warning
RK250 is designed for lifting purpose only. Do not use and/or lift attachments which cause The machine may be damaged.





SAFETY DEVICE

Crane System Moment limiter (auto-stop)

Overhoist prevention device (auto-stop) Swing automatic stop device Working range limit device Swing brake Interceptive lever lock for on and off Check & Safety Monitor Sling wire lock Auxiliary hoist drum camera Overload state record

Emergency directly connected cable

Travel System

Rear view camera Emergency steering pump Rear steering auto-lock Suspension lock device Engine overrun warning device Reverse sound alarm Seat belt

STANDARD EQUIPMENT

Auxiliary hoist drum/ rear view camera Reverse sound alarm Hook block 25t (3-sheave) Hook block 4t (ball) Tacho-graph (analog) Tools Twist jib hydraulically tilt Auxiliary sheave Centralized greasing system One way call Outrigger-pads (rubber type) Grease gun Air conditioner Main and auxiliary winch Foot pedals (boom raise/lower, auxiliary hoist) Outrigger control box (left side)

Radio and antenna (Japanese type)

OPTIONAL EQUIPMENT

Twist jib, manually tilt Stowage box Spare wheel: 385/95 R25 Spare rim: 385/95 R25 Radio and antenna (on request) Fire extinguisher (on request) ABS (on request)

*Optional equipment may vary by countries.

Note: This catalog may contain photographs of machines with specifications, attachments and optional equipment not certified for operation in your country. Please consult KOBELCO for those items you may require. Due to our policy of continual product improvements all designs and specifications are subject to change without advance notice.

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