

SPECIFICATIONS

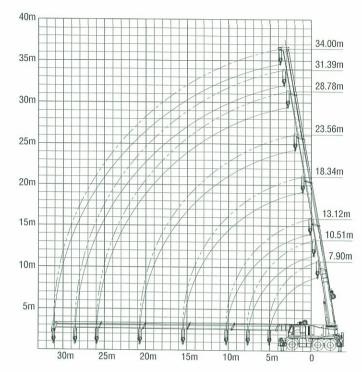
CRANE PERFORMANCE					
	7.90 m boom (over front/over rear)	45,000 kg** x 2.5 m (10 parts) 40,000 kg* x 2.5 m (10 parts)			
	7.90 m boom (all around)	35,000 kg x 3.0 m (10 parts)			
	10.51 m boom	24,500 kg x 5.0 m (7 parts)			
	13.12 m boom	22,500 kg x 5.0 m (7 parts)			
May voted lead	18.34 m boom	17,000 kg x 6.0 m (5 parts)			
Max. rated load	23.56 m boom	15,000 kg x 6.0 m (4 parts)			
	28.78 m boom	11,400 kg x 8.0 m (3 parts)			
	31.39 m boom	9,450 kg x 8.0 m (3 parts)			
	34.00 m boom	7,200 kg x 10.0 m (3 parts)			
	6.3 m jib	4,000 kg x 14.0 m (1 part)			
	10.2 m jib	3,000 kg x 12.0 m (1 part)			
	Heavy duty jib	15,000 kg x 8.0 m (4 parts)			
8.8 - 1261 - 1 - 1 - 1	25 t hook (Main boom)	34.15 m			
Max. lifting height	4 t ball hook (Twist jib)	44.4 m			
	Boom	31.1 m			
Max. working radius	Jib	36.0 m			
Main boom length	7.90 m to 34.0 m	00.0 111			
Boom telescoping speed	120 sec/26.1 m				
Jib length	6.3 m, 10.2 m (1.2 m: He	eavy duty jih)			
Line speed	120 m/min at 4th layer, 9				
Line pull	4,500 kg at 5th layer	o militar activos			
Boom raising speed	55 sec/ - 9° to 80°				
Swing speed	2.1 min ⁻¹ (2.1 rpm)				
CRANE MAIN STRUCTURE					
<u> </u>		d, 3rd and 4th singly, and 5th			
Main boom	and 6th simultaneous tel				
	Hydraulic telescoping, use in combination with wire rope				
	Side storage, compressed truss and box type, 2nd				
Jib	drawing out type.				
010	Manual jib, 3 step variable tilt type (5°,25°,45°)				
	Hydraulic motor drive, planetary gear reduction and				
Winch system	automatic brake (without free-fall).				
willon dystom	High to low variable speed				
	Direct forced type by do	thle acting hydraulic cylinder			
Boom hoist system	Direct forced type by double acting hydraulic cylinder (-8°~ 82°)				
		lanetary gear reduction type with			
Swing system	pedal brake and parking				
	All hydraulic H-type				
Outriggers	Extension width: 6.47/6.	10/5.10/3.60/2.17 m			
** Over rear/over front/requir		. 5, 5. 10, 5. 50, E. 17 111			

WIRE ROPE							
Main	φ 16 m	m x 160) m, P-	S (19)	+ 39 x P·7		
HYDRAULIC SYSTEM							
Hydraulic pumps	for trav	el an	2 variable displacement plunger pumps for trave and 2 gear pumps for steering and 1 gear pump for emergency steering				
	for crai	for crane 2 variable displacement plunger pun pumps			acement plunger pumps and 3 gear		
Hydraulic oil tank	558 lite	rs					
CARRIER PERFORMA	ANCE						
Max. travel speed	80 km/	h					
Gradeability	High ge	ear: 19 9	% (11°)	/ Low	gear: 50 % (27°)		
	Over or	utside fr	ont hur	nnar	8.02 /6.51 m		
Min. turning radius	Over or	itsiue ii	ont but	lihei	(normal/cramp steering)		
wiii. turriirig radius	Over by	oom hea	nd		8.33 /6.87 m		
	Over bt	Julii ilea	au		(normal/cramp steering)		
	Make/n	nodel	HINO	E13C			
			Water	ter cooled, 4 cycle, 6 cylinders, direct			
			injecti	jection diesel with turbocharger, intercooler			
Engine	(Anti-po		pollution conforming to Euromot III)				
	Displac	ement	12.91	3 liter:	S		
	Max. output 330 I		330 k	W/1,8	00 min ⁻¹ {449 PS/1,800 rpm}		
	Max. torque 1,930 f		Nm/1	,300 min ⁻¹ {197 kgf m/1,300 rpm}			
CARRIER MAIN STRU	JCTURE		No.				
Travel drive	All wheel drive and steering (6 x 6)						
	503		H	HST (Hydrostatic transmission),			
Transmission	Type		f	full-time 6 wheel drive			
	No. of	speed s		CVT by HST + High/Low 2-step			
	All axles steered and driven by variable displacement						
Axles					I locks for transverse lock.		
		axle inte					
Suspension					n (with hydraulic cylinder)		
				wer steering with emergency			
	Type		ng devic				
Steering			0		d axle (Steering lock: 2nd axle)		
J	Mode			amp mode (all axles), Crab mode (all axles)			
					and 3rd axles)		
	Main service brake		Interr	nal expansion drum type with full air			
Duoles	A la .	l.			er on all wheels		
Brake	Aux. bi	аке			HST brake		
	Parking	g brake			g locked type, acting on wheels of and 3rd axles.		
Tires (front and rear)	385/95	R25					
Fuel tank	400 lite	ers					

^{**} Over rear/over front/require special equipment * Over rear/over front/require additional equipment

MAIN BOOM • Main boom length: 7.90 - 34.0 m • Outriggers: 6.47 m position • Swing area: 360°

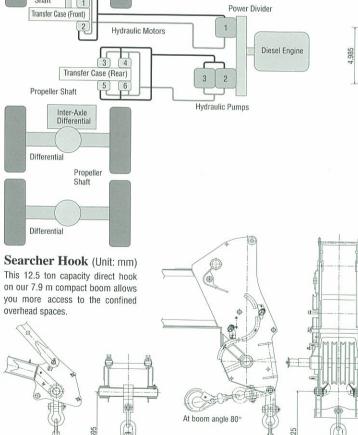
Boon	n length (m)	7.90	10.51	13.12	18.34	23.56	28.78	31.39	Unit: to
	in longth (III)	45.00**	10.01	10.12	10.04	20.00	20.70	31.39	34.00
	2.5	40.00*							
	3.0	35.00	24.50	22.50	17.00				
	3.5	33.00	24.50	22.50	17.00				
	4.0	31.00	24.50	22.50	17.00	15.00			
	4.5	28.50	24.50	22.50	17.00	15.00			
	5.0	25.00	24.50	22.50	17.00	15.00	11.40		
	6.0	8	21.30	19.10	17.00	15.00	11.40	9.45	7.20
E -	7.0		17.80	17.00	16.00	14.00	11.40	9.45	7.20
ns (8.0			15.50	14.70	13.15	11.40	9.45	7.20
radi	9.0	5		13.05	12.90	11.75	10.60	9.25	7.20
Operating radius (m)	10.0			10.65	10.50	10.80	9.90	8.70	7.20
erat	12.0	200			7.85	7.80	8.10	7.65	6.30
ರೆ 📗	14.0	10			5.85	6.10	6.35	6.20	5.40
	16.0					4.95	4.95	4.95	4.70
	18.0					3.90	4.30	4.15	4.20
	20.0	22				3.15	3.55	3.65	3.50
	22.0						2.90	3.05	2.85
	24.0						2.40	2.55	2.35
	26.0							2.10	1.90
	28.0							1.75	1.55
	30.0								1.25
Boon	n angle 0°	21.00	14.10	9.15	4.35	2.65	1.85	1.60	1.05



Differential

Driveline

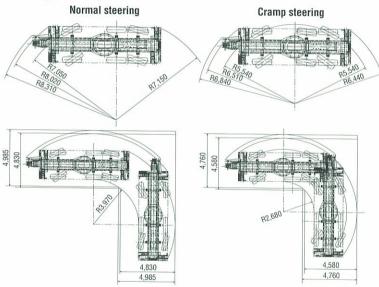
Hydrostatic transmission system delivers engine horsepower to the final drive without conventional mechanical-type transmission. And together with our integrated HST brake, offers you advanced mobility and less mechanical trouble.



Heavy Duty Jib

The adjustable heavy duty jib will gain further more access, suitable for indoor lifts.

Steering (Unit: mm)



Limit of Hook Lifting (Unit: mm)

Main Boom 25t hook	1.010 505 275	2,370
Jib offset angle 5° 4t ball hook	1.730	1.830
Heavy Duty Jib offset angle 0° 25t hook	1,010 660 83.220	2000
	Boom angle: 0° (Horizontal)	Boom angle: 80° (Max.hoist)

^{**}Over rear/over front/require special equipment

^{*}Over rear/over front/require additional equipment



•Boom length: 28.78 - 34.0 m • Jib length: 6.30 - 10.20 m • Outriggers: 6.47 m position • Swing area: 360°

Boom	length (m)		28.78			212	Unit: to
	ngth (m)		20.70	G	.30	34.0	
	igle (degree)	5	25	45	5	0.5	1 45
74 87	8.0	4.00	20	70	4.00	25	45
	9.0	4.00	3.90		4.00		
	10.0	4.00	3.90		4.00	2.00	
36	11.0	4.00	3.80	1.60	4.00	3.90	
	12.0	4.00	3.55	1.60	4.00	3.90	1.00
	13.0	3.70	3.30	1.60	4.00	3.70	1.60
	14.0	3.45	3.10	1.50	4.00	3.50	1.60
E	15.0	3.25	2.90	1.40	3.75	3.30	1.60
sn (16.0	3.10	2.75	1.35	3.55	3.10	1.60
radi	17.0	2.95	2.65	1.30	3.35	2.95	1.50
Du	18.0	2.75	2.55	1.20	3.20	2.80	1.40
Operating radius (m)	19.0	2.65	2.40	1.15	3.05	2.70	1.35
5	20.0	2.35	2.25	1.10	2.90	2.60	
	22.0	1.90	1.95	1.00	2.65	2.40	1.25
	24.0	1.50	1.50	0.90	2.20	2.40	1.15
	26.0	1.15	1.15	0.00	1.80	1.85	1.05
A 200	28.0	0.80	0.85		1.50	1.60	1.00
	30.0		50		1.15	1.25	0.90
	32.0				0.90	0.90	
4	34.0				0.60	0.65	
Vo. of	part line	1	1	1	1	1	1

	-00	
- 11	nit:	ton

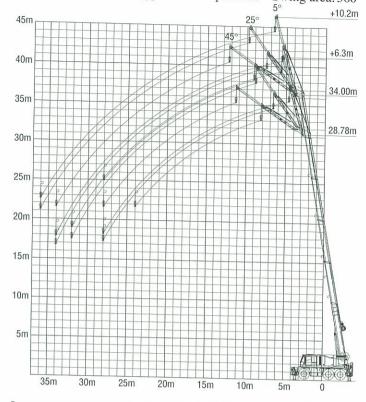
Boon	n length (m)		28.78			34.0	Unit: tor
	ngth (m)			10	.20	04.0	
Jib angle (degree)		5	25	45	5	25	45
	8.0	3.00					40
	9.0	3.00	V.		3.00		
	10.0	3.00			3.00		
	11.0	2.95	2.10		3.00		
	12.0	2.90	2.10		3.00		
	13.0	2.85	2.10		2.95	2.10	
	14.0	2.80	2.10	1.00	2.90	2.10	
=	15.0	2.75	2.10	1.00	2.85	2.10	1.00
L) S	16.0	2.65	2.10	1.00	2.80	2.10	1.00
Operating radius (m)	17.0	2.55	2.05	0.90	2.75	2.10	1.00
g ra	18.0	2.45	2.00	0.85	2.70	2.10	1.00
atiu	19.0	2.35	1.95	0.80	2.60	2.05	0.90
ber	20.0	2.20	1.90	0.80	2.50	2.00	0.85
	22.0	2.00	1.75	0.75	2.30	1.90	0.80
	24.0	1.70	1.65	0.70	2.10	1.80	0.75
	26.0	1.35	1.50	0.60	1.90	1.70	0.70
	28.0	1.10	1.35	0.55	1.60	1.60	0.65
	30.0	0.90	1.00		1.30	1.45	0.60
	32.0	0.70	0.70		1.10	1.30	0.55
	34.0				0.90	1.00	0.50
	36.0				0.70	0.70	
No. of	part line	1	1	1	1	1	1

Lifting capacity

Stationary: Max.

Operating radius 4.5 m

Swing area			360°	
Boom length	m	7.90	10.51	13.12
Lifting capacity	ton.	8.00	7.50	7.50



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.

Reference

- RKE450 was designed and manufactured by KOBELCO CRANES CO., LTD. in accordance with the Standard: ASME code B30.5, EN13000:2010.
- 2. The crane is classified as follows (ISO 4301-1, ISO 4301-2). Class of utilization of cranes = U2

Normal load spectrum factor for cranes = Q2 Group classification of the crane as a whole= A1

3. The hoist winch mechanism is classified as follows (ISO 4301-1, ISO 4301-2). Class of utilization of cranes = T4

State of loading= L1

Group classification of the hoist mechanism as a whole= M3

Furthermore, KOBELCO CRANES CO., LTD. hereby confirms that the stability factor for the RKE450-3.1 EUR is 75% for stationary lifting and 66.6% for pick and carry.

Note

Since the operating radius given in the chart includes allowances for laden boom deflection, the crane must always be operated on the basis of actual operating radius.

Warning

RKE450 is designed for lifting purpose only. Do not use and/or lift attachments which cause vibration or shock.

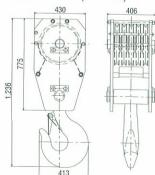
The machine may be damaged.

Pick & carry (under 2 km/h): Max.

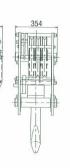
Operating radius: 3.0 m/Boom length: 7.90~13.12m

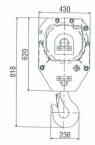
Swing area	Over fornt	Over rear
Lifting capacity ton	12.00	15.50

Hook Blocks (Unit: mm)

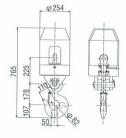


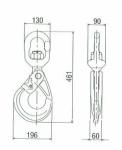












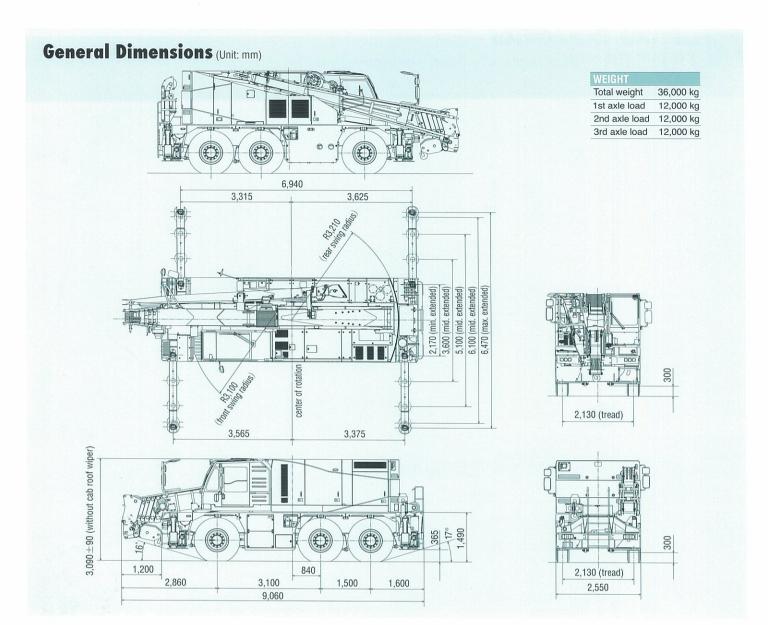
40 t hook

25 t hook

10 t hook

4t ball hook

Searcher hook



SAFETY DEVICE

Crane System

Deadman switch

Moment limiter (auto-stop)
Overhoist prevention device (auto-stop)
Swing automatic stop device
Working range limit device
Swing brake
Swing lock device (front and rear)
Interceptive lever lock for on and off
Check & Safety Monitor
Sling wire lock
Hoist drum camera
Overload state record
Emergency directly connected cable
Over lowering prevention device (auto-stop)

Travel System

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

STANDARD EQUIPMENT

Spotlights

Hoist drum camera, rear view camera Reverse sound alarm

Hook block 25t (3-sheave) Tacho-graph (analog)

Tacilo-grapii

Hydraulically retractable side-step for cabin

Centralized greasing system

Air conditioner

Hoist winch

Foot pedals (swing)

Outrigger control box (left and right side)

OPTIONAL EQUIPMENT

Twist jib

Heavy duty jib

4.0t ball, 10.0 t, 25.0t, 40.0 t hook block

12.5t searcher hook

Outrigger spotlight

Engine pre-heater

Stainless steel muffler with spark arrester

Stowage box

Spare wheel: 385/95 R25

Spare rim: 385/95 R25

One-way call

Radio antenna (on request)

Fire distinguisher (on request)

Yellow rotating beacon (on request)

Boom bumper (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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