



## MAIN 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)			
Max. rated load	18.34 m boom 17,000 kg x 6.0 m (5 r				
	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)			
	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				
Boom telescoping speed	120 sec/26.1 m				
Jib length	6.3 m, 10.2 m (1.2 m: He	eavy duty jib)			
Line speed	120 m/min at 4th layer, 9				
Line pull	4,500 kg at 5th layer	-			
Boom raising speed	55 sec/ - 9° to 80°				
Swing speed	2.1 min-1 (2.1 rpm)				
<b>CRANE MAIN STRUCTURE</b>					
	Box type, 6 sections, 2nd	l, 3rd and 4th singly, and 5th			
Main boom	and 6th simultaneous telescoping				
	Hydraulic telescoping, use in combination with wire rope				
	Side storage, compressed truss and box type, 2nd				
Jib	drawing out type.				
	Manual jib, 3 step variable tilt type (5°,25°,45°)				
	Hydraulic motor drive, planetary gear reduction and				
Winch system	automatic brake (without free-fall).				
	High to low variable speed				
Boom hoist system	Direct forced type by double acting hydraulic cylinder (-8°~ 82°)				
0	Hydraulic motor drive, planetary gear reduction type with				
Swing system	pedal brake and parking				
0	All hydraulic H-type				
Outriggers	Extension width: 6.47/6.10/5.10/3.60/2.17 m				
Extension with 6.1776.1676.6072.1711					

<sup>\*\*</sup> Over rear/over front/require special equipment \* Over rear/over front/require additional equipment

WIRE ROPE						
Main	∮ 16 mm x 160 m, P·S (19) + 39 x P·7					
HYDRAULIC SYSTEM		/	, 1	5 (.0)		
Hydraulic pumps	for trav	rel ar	for emergency steering			
		for crane 2 variable displacement plunger pumps and 3 gea pumps				
Hydraulic oil tank	558 lite	ers				
CARRIER PERFORMA						
Max. travel speed	80 km/					
Gradeability	High ge	ear: 19	% (11°	')/ Low	gear: 50 % (27°)	
Min. turning radius	Over or	utside fi	ront bu	ımper	8.02 /6.51 m (normal/cramp steering)	
wiii. turiiiiy raulus	Over bo	oom he	ad		8.33 /6.87 m (normal/cramp steering)	
	Make/n	nodel		E13C		
Engine	Туре		Water cooled, 4 cycle, 6 cylinders, direct injection diesel with turbocharger, intercooler (Anti-pollution conforming to Euromot III)			
ŭ	Displacement 12.913 liters		S			
	Max. output 330 kW/		kW/1,8	00 min-1 {449 PS/1,800 rpm}		
	Max. torque 1,930 Nm/1,300 min-1 {197 kgf m/1,300 rpm}					
CARRIER MAIN STRU						
Travel drive	All whe	el drive	and s			
Transmission	Type			HST (Hydrostatic transmission), full-time 6 wheel drive		
	No. of				/ HST + High/Low 2-step	
		All axles steered and driven by variable displacement				
Axles					I locks for transverse lock.	
	2-step					
Suspension					n (with hydraulic cylinder)	
-	Type		ated po		eering with emergency	
Steering	On-road: 1st and 3			and 3r mp mo e (2nd		
	Main service brake		Internal expansion drum type with full ai booster on all wheels			
Brake	Aux. brake			ABS,	HST brake	
	Parking	j brake		Spring locked type, acting on wheels of the 2nd and 3rd axles.		
Tires (front and rear)	385/95 R25					
Fuel tank	400 lite	ers				





## FTING CAPACITIES

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

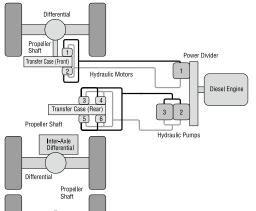
									Unit: ton
Во	om length (m)	7.90	10.51	13.12	18.34	23.56	28.78	31.39	34.00
	2.5	45.00**							
	2.0	40.00*							
	3.0	35.00	24.50	22.50	17.00				
	3.5	33.00	24.50	22.50	17.00				
	4.0	31.00	24.50	22.50	17.00	15.00			
	4.5	28.50	24.50	22.50	17.00	15.00			
	5.0	25.00	24.50	22.50	17.00	15.00	11.40		
=	6.0		21.30	19.10	17.00	15.00	11.40	9.45	7.20
Operating radius (m)	7.0		17.80	17.00	16.00	14.00	11.40	9.45	7.20
igin	8.0			15.50	14.70	13.15	11.40	9.45	7.20
g	9.0			13.05	12.90	11.75	10.60	9.25	7.20
atin	10.0			10.65	10.50	10.80	9.90	8.70	7.20
)per	12.0				7.85	7.80	8.10	7.65	6.30
	14.0				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					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
Во	om angle 0°	21.00	14.10	9.15	4.35	2.65	1.85	1.60	1.05

<sup>\*\*</sup>Over rear/over front/require special equipment \*Over rear/over front/require additional equipment

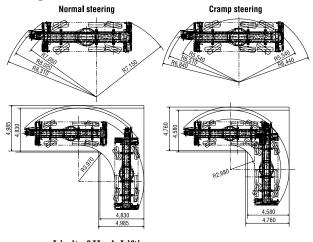
# 34.00m 31.39m 28.78m 23.56m 18.34m 13.12m 10.51m 7.90m

## 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.

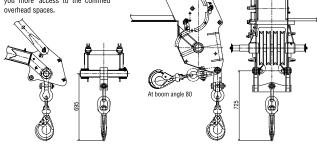


## Steering



## Differential Searcher Hook

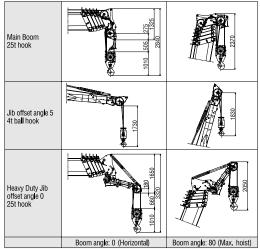
This 12.5 ton capacity direct hook on our 7.9 m compact boom allows you more access to the confined



## **Heavy Duty Jib**

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

## Limit of Hook Lifting







# LIFTING CAPACITIES TWIST JIB Boom length: 28

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

							Unit: to
Во	om length (m)	28.78 34.0					
Jib	length (m)		6.30				
Jib	angle (degree)	5	25	45	5	25	45
	8.0	4.00			4.00		
	9.0	4.00	3.90		4.00		
	10.0	4.00	3.90		4.00	3.90	
	11.0	4.00	3.80	1.60	4.00	3.90	
	12.0	4.00	3.55	1.60	4.00	3.90	1.60
	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
Ê	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	1.50
Operating radius	17.0	2.95	2.65	1.30	3.35	2.95	1.40
ing	18.0	2.75	2.55	1.20	3.20	2.80	1.35
erati	19.0	2.65	2.40	1.15	3.05	2.70	1.30
Ö	20.0	2.35	2.25	1.10	2.90	2.60	1.25
	22.0	1.90	1.95	1.00	2.65	2.40	1.15
	24.0	1.50	1.50	0.90	2.20	2.15	1.05
	26.0	1.15	1.15		1.80	1.85	1.00
	28.0	0.80	0.85		1.50	1.60	0.90
	30.0				1.15	1.25	
	32.0				0.90	0.90	
	34.0				0.60	0.65	
No	. of part line	1	1	1	1	1	1

	25
45m	23
45	
	+6.3m
	10.0
40m	
	34.00m
	No. 1986
35m	
	28.78m
30m	<del>                                     </del>
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25m	<del></del>
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15m	<del>                                     </del>
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10m	<del>                                     </del>
5m	
···	
35m 30m 25m 20m 15m	10m 5m 0
20 20 2011 2011	

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

## Unit: ton

OIII.					Offic. to			
Boom length (m)		28.78 34.0						
Jib	length (m)	10.20						
Jit	angle (degree)	5	25	45	5	25	45	
	8.0	3.00						
	9.0	3.00			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	
ᄩ	16.0	2.65	2.10	1.00	2.80	2.10	1.00	
lë.	17.0	2.55	2.05	0.90	2.75	2.10	1.00	
Operating radius (m)	18.0	2.45	2.00	0.85	2.70	2.10	1.00	
Ę	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	
0	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		

### 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.

## Lifting capacity

No. of part line

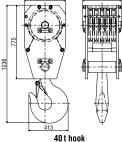
Stationary: Max. Operating radius 4.5 m

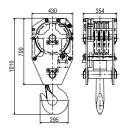
Swing area			360	
Boom length	m	7.90	10.51	13.12
Lifting capacity	ton	8.00	7.50	7.50

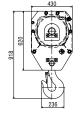
Pick & carry (under 2 km/h): Max. Operating radius: 3.0 m / Boom length: 7.90~13.12m

Swing area		Over fornt	Over rear		
Lifting capacity	ton	12.00	15.50		

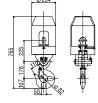


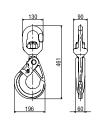












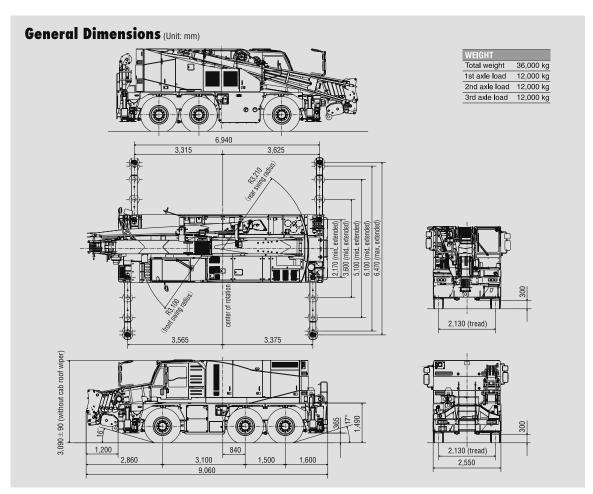
25 t hook

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 Rear steering auto-lock Suspension lock device Engine overrun warning device Reverse sound alarm Seat belt

## STANDARD EQUIPMENT

Spotlights 5 2 2 Hoist drum camera, rear view camera Reverse sound alarm Hook block 25t (3-sheave)

Tacho-graph (analog)

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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