

# **SPECIFICATIONS**

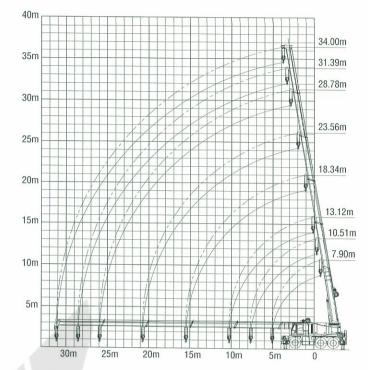
CRANE PERFORMANCE					
	7.90 m boom (over front/over rear)	45,000 kg** x 2.5 m (10 parts) 40,000 kg* x 2.5 m (10 parts)			
	7.90 m boom (all around)	35,000 kg × 3.0 m (10 parts)			
	10.51 m boom	24,500 kg x 5.0 m (7 parts)			
	13.12 m boom	22,500 kg x 5.0 m (7 parts)			
Manager and the state of the st	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 p				
	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			
Max. working radius	Boom	31.1 m			
	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 istrayer			
Boom raising speed	55 sec/ - 9° to 80°				
Swing speed	2.1 min <sup>-1</sup> {2.1 rpm)				
CRANE MAIN STRUCTURE	2.1 mm (2.1 pm)				
	Box type 6 sections 2nd	d, 3rd and 4th singly, and 5th			
Main boom	and 6th simultaneous tel				
Wall boom	Hydraulic telescoping, use in combination with wire rope				
	Side storage, compressed truss and box type, 2nd				
Jib	drawing out type.				
OID	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 system	High to low variable speed				
		uble acting hydraulic cylinder			
Boom hoist system	(-8°~ 82°)	able acting flydraulic cyllider			
		lanetary gear reduction type with			
Swing system	pedal brake and parking				
	All hydraulic H-type	bruno.			
Outriggers		10/5 10/3 60/2 17 m			
	Extension width: 6.47/6.10/5.10/3.60/2.17 m				

WIRE ROPE				110		
Main	φ 16 m	m x 160	m, P·S (	(19)	+ 39 x P·7	
HYDRAULIC SYSTEM	ZEES					
Hydraulic pumps	for trav	rel an fo	2 variable displacement plunger pumps for tr and 2 gear pumps for steering and 1 gear pur for emergency steering     2 variable displacement plunger pumps and 3 pumps		ps for steering and 1 gear pump steering	
Hydraulic oil tank	558 lite		ритро			
CARRIER PERFORMA				2)(1)		
Max. travel speed	80 km/	h				
Gradeability	High ge	ear: 19 9	19 % (11°)/ Low gear: 50 % (27°)			
Min. turning radius	Over outside front bum				8.02 /6.51 m (normal/cramp steering)	
		oom hea		8.33 /6.87 m (normal/cramp steering)		
Engine	Type injection		cooled, 4 cycle, 6 cylinders, direct on diesel with turbocharger, intercooler collution conforming to Euromot III)			
	Max. output 330		330 kW	kW/1,800 min <sup>-1</sup> {449 PS/1,800 rpm} 0 Nm/1,300 min <sup>-1</sup> {197 kgf m/1,300 rpm}		
CARRIER MAIN STRU	JCTURE				,000 mm (107 kg/ m/ 1,000 fpm)	
Travel drive	All wheel drive and steering (6 x 6)					
Transmission	Type	oneed el	full	HST (Hydrostatic transmission), full-time 6 wheel drive		
Axles	All axle hydrau	of speed shift   CVT by HST + High/Low 2-step uxles steered and driven by variable displacement raulic motors, differential locks for transverse lock. ep axle intermediate gear			by variable displacement I locks for transverse lock.	
Suspension	Hydro-	pneuma	itic suspe	nsio	n (with hydraulic cylinder)	
	Туре		ated powe	r ste	eering with emergency	
Steering	Mode				d axle (Steering lock: 2nd axle) de (all axles), Crab mode (all axles) and 3rd axles)	
	Main service brake			Internal expansion drum type with full a booster on all wheels		
Brake	Aux. bi	ake	A	BS,	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 liters					

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

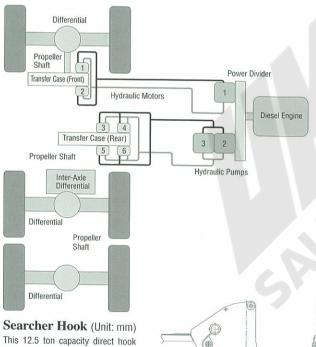
MAIN BOOM • Main boom length: 7.90 - 34.0 m • Outriggers: 6.47 m position • Swing area: 360°

									Unit: to
Boo	om length (m)	7.90	10.51	13.12	18.34	23.56	28.78	31.39	34.00
	2.5	45.00** 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		
3	6.0		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
Sn	8.0			15.50	14.70	13.15	11.40	9.45	7.20
rad	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
eral	12.0	50			7.85	7.80	8.10	7.65	6.30
8	14.0	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
Boo	m angle 0°	21.00	14.10	9.15	4.35	2.65	1.85	1.60	1.05

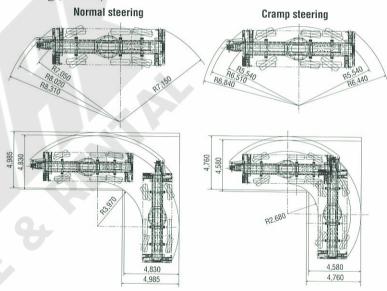


### **Driveline**

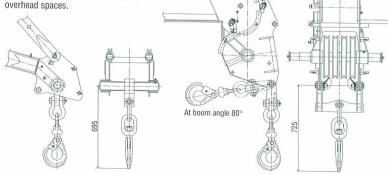
Hydrostatic transmission system delivers engine horsepower to the final drive without conventional mechanical-type transmission. And together with our integrated HST brake, offers you advanced mobility and less mechanical trouble.



### Steering (Unit: mm)



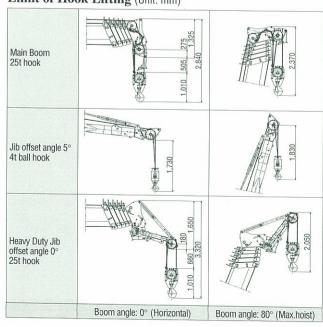
This 12.5 ton capacity direct hook on our 7.9 m compact boom allows you more access to the confined overhead spaces.



### **Heavy Duty Jib**

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

## Limit of Hook Lifting (Unit: mm)



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

<sup>\*</sup>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°

Воо	m length (m)		28.78			04.0	Unit: to
	Jib length (m)		6.30			34.0	
Jib a	angle (degree)	5	25	45	5	25	45
74	8.0	4.00		10	4.00	20	45
	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
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	1.50
Operating radius (m)	17.0	2.95	2.65	1.30	3.35	2.95	1.40
ıng	18.0	2.75	2.55	1.20	3.20	2.80	1.35
erat	19.0	2.65	2.40	1.15	3.05	2.70	1.30
5	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	0.00	1.80	1.85	1.00
	28.0	0.80	0.85		1.50	1.60	0.90
	30.0				1.15	1.25	0.90
	32.0	-			0.90	0.90	
1	34.0	8			0.60	0.65	
Vo. o	f part line	1	1	1	1	1	1

	ton

Boor	m length (m)	F-17/1-05/19/19	28.78				Unit: to	
	ength (m)		20.70		34.0			
		10.20						
JID a	ngle (degree)	5	25	45	5	25	45	
	8.0	3.00						
	9.0	3.00			3.00			
	10.0	3.00			3.00		7	
	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	
E)	16.0	2.65	2.10	1.00	2.80	2.10	1.00	
# _	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	
Operating radius	20.0	2.20	1.90	0.80	2.50	2.00	0.85	
3	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	0.50	
No. of	f 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

# +10.2m +6.3m 40m 34.00m 35m 28.78m 30m 25m 20m 15m 10m 20m 15m 10m

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

- 1. 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.

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

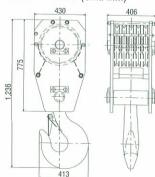
vibration or shock.
The machine may be damaged.

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

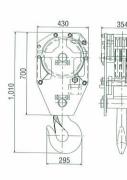
Operating radius: 3.0 m/Boom length: 7.90~13.12m

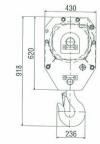
Swing area		Over fornt	Over rear
Lifting capacity	ton	12.00	15.50

# Hook Blocks (Unit: mm)

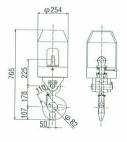


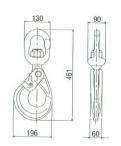












40 t hook

25 t hook

10t hook

4t ball hook

Searcher hook

# General Dimensions (Unit: mm) Total weight 36,000 kg 1st axle load 12,000 kg 2nd axle load 12,000 kg 3rd axle load 12,000 kg 6,940 3,315 3,625 A5:270 mid. ,600 (mid. mid. 6,100 (6,470 ( 90 153 in 10 sings center of 2,130 (tread) 3.565 3,375 3,090 ± 90 (without cab roof wiper)

# 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)

1,200

2.860

# Travel System

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

3,100

9,060

840

1,500

### STANDARD EQUIPMENT

Spotlights

1.600

Hoist drum camera, rear view camera

Reverse sound alarm

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

Tools

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

2,130 (tread)

2.550

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.

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