



# 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 p								
	10.51 m boom 24,500 kg x 5.0 m (7 part								
	13.12 m boom 22,500 kg x 5.0 m (7 pai								
Max. rated load	18.34 m boom 17,000 kg x 6.0 m (5 pa								
iviax. Tateu ioau	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)							
B.A 11611	25 t hook (Main boom)	34.15 m							
Max. lifting height	4 t ball hook (Twist jib)	44.4 m							
B. B. S.	Boom	31.1 m							
Max. working radius	Jib	36.0 m							
Main boom length	7.90 m to 34.0 m	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: Heavy duty jib)								
Line speed	120 m/min at 4th layer, 98 m/min at 1st layer								
Line pull	4,500 kg at 5th layer								
Boom raising speed	55 sec/ - 9° to 80°								
Swing speed	2.1 min <sup>-1</sup> {2.1 rpm)								
CRANE MAIN STRUCTURI									
	Box type, 6 sections, 2nd	d, 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								
Doom hoist sustans	Direct forced type by dou	uble acting hydraulic cylinder							
Boom hoist system	(-8°~ 82°)								
Swing system	Hydraulic motor drive, p	lanetary gear reduction type with							
owing system	pedal brake and parking	brake.							
Outrieses	All hydraulic H-type								
Outriggers	Extension width: 6.47/6.10/5.10/3.60/2.17 m								

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

WIRE ROPE											
Main	₫ 16 m	m x 160	) m. P	·S (19)	+ 39 x P·7						
HYDRAULIC SYSTEM			THE REAL PROPERTY.	- (14)							
Hydraulic pumps	for travel 2 varia			ear pum	acement plunger pumps for travel, nps for steering and 1 gear pump steering						
	for crar	1e	variab ımps	le displ	acement plunger pumps and 3 gear						
Hydraulic oil tank		558 liters									
CARRIER PERFORMA	NCE										
Max. travel speed	80 km/										
Gradeability	High ge	ear: 19 9	% (11	)/ Low	gear: 50 % (27°)						
Min. turning radius	Over or	ıtside fr	ont bi	ımper	8.02 /6.51 m (normal/cramp steering)						
		oom hea			8.33 /6.87 m (normal/cramp steering)						
	Make/n	nodel		D E13C							
Engine	Туре		Water cooled, 4 cycle, 6 cylinders, direct injection diesel with turbocharger, intercooler (Anti-pollution conforming to Euromot III)								
	Displac	ement		13 liter							
	Max. o	330	kW/1.8	00 min <sup>-1</sup> {449 PS/1,800 rpm}							
	Max. to				,300 min <sup>-1</sup> {197 kgf m/1,300 rpm}						
CARRIER MAIN STRU	CTURE										
Travel drive		el drive	and s	teerina	(6 x 6)						
Transmission	Туре	Kels			HST (Hydrostatic transmission), full-time 6 wheel drive						
	No. of speed shift			CVT by HST + High/Low 2-step							
Axles	hydrau		rs, di	driven fferentia	by variable displacement al locks for transverse lock.						
Suspension	Hydro-	pneuma	tic su	spensio	on (with hydraulic cylinder)						
	Type		ated p	ower st	eering with emergency						
Steering	Mode	Off-roa	n-road: 1st and 3rd axle (Steering lock: 2nd axle) ff-road: Clamp mode (all axles), Crab mode (all ax anual mode (2nd and 3rd axles)								
	Main s	ervice b	rake		nal expansion drum type with full air ter on all wheels						
Brake	Aux. bi	ake		ABS.	HST brake						
	Parking	g brake		Spring locked type, acting on wheels of the 2nd and 3rd axles.							
Tires (front and rear)	385/95	R25									
Fuel tank	400 lite										

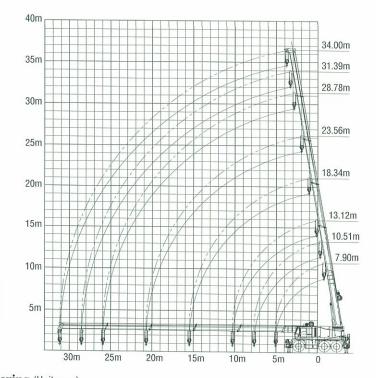
<sup>\*</sup> Over rear/over front/require additional equipment



# LIFTING CAPACITIES

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

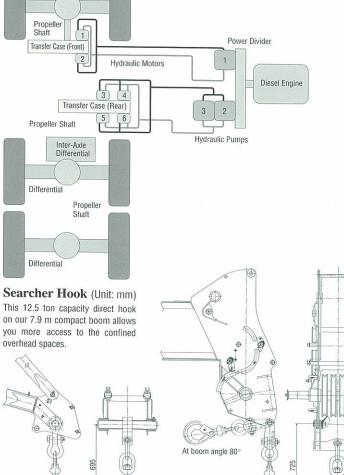
									Unit: tor
Boo	om length (m)	7.90	10.51	13.12	18.34	23.56	28.78	31.39	34.00
	2.5	45.00** 40.00*						E 30-300C4-XC4-3	
	3.0	35.00	24.50	22.50	17.00				
	3.5	33.00	24.50	22.50	17.00				
	4.0	31.00	24.50	22.50	17.00	15.00			
	4.5	28.50	24.50	22.50	17.00	15.00			
	5.0	25.00	24.50	22.50	17.00	15.00	11.40		
	6.0		21.30	19.10	17.00	15.00	11.40	9.45	7.20
Œ	7.0		17.80	17.00	16.00	14.00	11.40	9.45	7.20
ins	8.0			15.50	14.70	13.15	11.40	9.45	7.20
Operating radius (m)	9.0			13.05	12.90	11.75	10.60	9.25	7.20
ting	10.0			10.65	10.50	10.80	9.90	8.70	7.20
erat	12.0				7.85	7.80	8.10	7.65	6.30
이	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	5)				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	om angle 0°	21.00	14.10	9.15	4.35	2.65	1.85	1.60	1.05



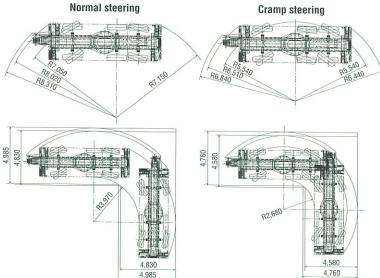
Differential

#### Driveline

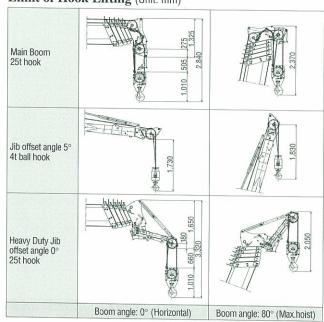
Hydrostatic transmission system delivers engine horsepower to the final drive without conventional mechanical-type transmission. And together with our integrated HST brake, offers you advanced mobility and less mechanical trouble.



# Steering (Unit: mm)



## Limit of Hook Lifting (Unit: mm)



## **Heavy Duty Jib**

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

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



# TWIST JIB FTING CAPACITIES

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

Boo	m length (m)		28.78			040	Unit: to		
	length (m)		20.70	6	34.0				
	angle (degree)	5	25	45	5	25	15		
75	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	1.00		
	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		
ns (	16.0	3.10	2.75	1.35	3.55	3.10			
Operating radius (m)	17.0	2.95	2.65	1.30	3.35	2.95	1.50		
Di l	18.0	2.75	2.55	1.20	3.20	2.80	1.40		
erat	19.0	2.65	2.40	1.15	3.05	2.70	1.35		
3	20.0	2.35	2.25	1.10	2.90	2.60	1.30		
	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	0.50	1.80	70.000 (0.000)	1.05		
	28.0	0.80	0.85		1.50	1.85	1.00		
	30.0	5.00	0.00		1.15	1.60	0.90		
	32.0				0.90	1.25			
	34.0				0.60	0.90			
Vo. o	f part line	1	1	1	1	0.65	1		

40m +6.			Ш			Н								H	Н	85			ф <b>х</b> ф <b>Ж</b>
40m 35m 30m 25m 20m 15m			$\perp$														1	Ш	
40m 35m 30m 25m 20m	5m																		
40m 35m 30m 25m	10m																		
40m 35m 30m 25m	15m																		
40m	20m		1	000	4		/ ·											1	
40m +6.	25m					1	1	/											
40m +6.	30m					1										0			28.78
45°	35m											1							34.00
	40m																		+6.3n
45m 25° +10				F						I	4	5°	25		2				+10.2

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.

Boom	length (m)		28.78		TOTAL SECTION	34.0	Unit: to		
	ngth (m)			10	.20				
Jib an	gle (degree)	5	25	45	5	25	45		
	8.0	3.00			•	20	40		
	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		
5	16.0	2.65	2.10	1.00	2.80	2.10	1.00		
in a	17.0	2.55	2.05	0.90	2.75	2.10	1.00		
g La	18.0	2.45	2.00	0.85	2.70	2.10	1.00		
atin	19.0	2.35	1.95	0.80	2.60	2.05	0.90		
Operating radius (m)	20.0	2.20	1.90	0.80	2.50	2.00	0.85		
٥	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	5.00		
lo. of	part line	1	1	1	1	1	1		

#### 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.

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.

## Lifting capacity

### Stationary: Max. Operating radius 4.5 m

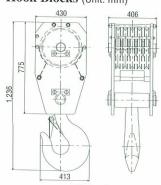
Swing area			360°	
Boom length	m	7.90	10.51	13.12
Lifting capacity	ton.	8.00	7.50	7.50

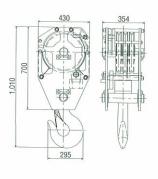
## Pick & carry (under 2 km/h): Max.

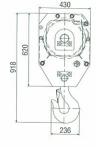
Operating radius: 3.0 m/Boom length: 7.90~13.12m

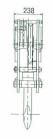
Swing area		Over fornt	Over rear
Lifting capacity	ton	12.00	15.50

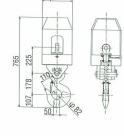
## Hook Blocks (Unit: mm)

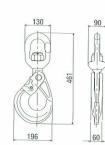












40 t hook

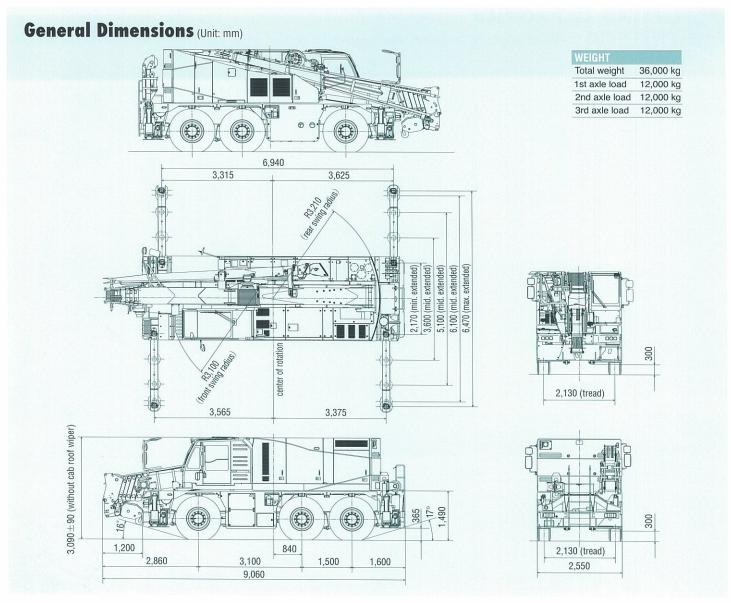
25 t hook

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 belt

### STANDARD EQUIPMENT

Spotlights

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

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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