Kobelw RK500

6. SPECIFICATIONS AND TABULATED DATA

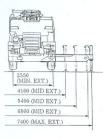
6.1 SPECIFICATIONS

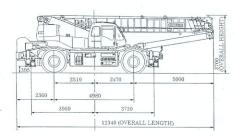
The data described here are for reference. Since described values may sometimes be different from those of the actual machine, use these data for reference only.

6.1.1 GENERAL DIMENSIONS

General dimension [Unit: mm]

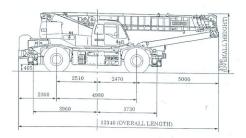
1. MACHINE WITH H-TYPE OUTRIGGERS





2. MACHINE WITH X-TYPE OUTRIGGERS







6.1.2 GENERAL SPECIFICATIONS

1. CRANE PERFORMANCE

	10.2m boom	51,000kg×2.9m (12 parts)
	17.4m boom	28,000kg×5.0m (6 parts)
	24.6m boom	20,000kg×6.0m (5 parts)
Rated crane loads	31.8m boom	14,000kg×6.5m (4 parts)
Main boom length Jib length Max, lifting height: m Main winch line speed Aux, winch line speed	39.0m jib	7,600kg×10.0m (1 part)
	9.0m jib	3,500kg×75° (1 part)
	15.0m jib	2,400kg×77° (1 part) -
	Auxiliary sheave	4,500kg (1 part)
Main boom length	m	10.2 - 39.0
Jib length	m	9.0 - 15.0
Max. lifting height: ma	in hook/aux. hook m	40.1/54.6
Main winch line speed:	high/low m/min	122/52 (4th layer)
Aux. winch line speed:	high/low m/min	105/45 (2nd layer)
Boom extending speed	sec/m	120.0/28.8
Boom raising speed	sec/deg	60.0/0° - 82.5°
Swing speed	rpm	2.4

2. CRANE MAIN MECHANISM

Type of main boom		Box type, 5 sections, 2nd/3rd singly and 4th/5th simultaneously telescoping.
Type of jib		Compressed truss and box type, 2nd drawing out type. Power set jib, 3 step variable tilt type (5*/17*/30*). Sky tilt jib (optional): hydraulically steplessly tilting type (5* to 45*).
Boom telescopic system Boom hoist system Winch system	em	Direct push by double act. hydr. cyls (triple) with use of wire ropes.
	Direct push by double act. hydr. cyl. (single).	
Winch system		2 set hydr. motor drive, spur gear reduction. With flow control valve of pressure compensating type. High speed (2 pumps flow) and low speed (1 pump) automatic change. Independent 2 winches with automatic brake and free fall.
oom telescopic system oom hoist system /inch system wing system	Hydr. motor drive, planetary gear reduction type. Free/lock selector type, with hand brake attached.	
Outriggers	Type	All hydraulic type, H-type or X-type.
	Extending width m	7.4/6.8/5.4/4.1/2.55 (min. H-type) 3.46 (min. X-type).

3. WIRE ROPES

Main winch wire rope	$mn \phi \times m$	18×220/IWRC6×Fi (29) C/O hard	to twist rope
Auxiliary winch wire rope	mn $\phi \times m$	18×120/IWRC6×WS (26) C/O hard	to twist rope



4. HYDRAULIC SYSTEM

Type of hydraulic pump	2 tandem (variable plunger) and 3 tandem gear pumps
Capacity of hydraulic oil tank &	575

5. SAFETY DEVICES

Moment limiter, swing automatic stop device, multi-display, overhoist preventive device, working range limit device (with swing range limit), outrigger ext. width automatic detecting device, check and safety monitor, auxiliary brake for work, sling wire lock, winch drum lock device, swing lock device, hydraulic safety valve, boom telescope wrong operation preventive device, outrigger safety device, boom hoist safety device, boom telescope safety device, free fall interlock device, interreptive lever lock for on and off, basic machine inclination meter, antislip seat, swing warning lamp, swing voice alarm.

6. PERFORMANCE OF CARRIER

Maximum travelin	g speed km/h	49
_n. turning radiu	is, 2W steer/4W steer m	10.9/6.1
Gradeabitity	tan θ (deg.)	0.6 (31°)
	Model	Mitsubishi 6D24-TCE2
Engine	Kind	Water cooled, 4cycle, 6cyls, direct inject, type with inter cooler, diesel
	Total displacement cc	11,945
	Max. output · PS/rpm	350/2,200
	Max. torque kg·m/rpm	135/1,400

7. MAJOR MECHANISM OF CARRIER

Transmission Model No. of speed change ge Reduction unit form Axle front wheel/rear wheel	4WD (4×4)/2WD (4×2) selecting type	
Torque converter		3 element, 1 step, 2 phases Electronic control, full automatic with lock-up clutch.
Transmission	Model	Electronic control, full automatic shift.
)	No. of speed change gear	3 speed forward/1 speed reverse (with high/low shift).
Reduction unit form	rque converter ansmission Model No. of speed change ges duction unit form de front wheel/rear wheel eering Form Mode Alake Main service brake Parking brake uspension uel tank capacity f	Axle 2 step reduction type.
Axle front wheel/rea	ar wheel	All floating type.
Steering	Form	Engine rpm induction type all hydraulic type power steering. With emergency steering and reverse steering correcting device.
Fransmission Reduction unit form Exclusion wheel/rear	Mode	Normal (front 2W), cramp (4W), crab (4W) and rear (rear 2W)
Brake	Main service brake	With hydr. air booster, disc type 4 wheel brake, with fluids type retarder, and electro-control exhaust brake linked with torque converter lock-up.
	Parking brake	Propel shaft brake internal expansion type with aux. brake for work.
Axle front wheel/rear wheel Steering Form Mode Brake Main service brake Parking brake Suspension	Hydr-pneumatic suspension (with hydr. lock cylinder).	
Fuel tank capacity	ŧ	300
Tires (front wheel a	and rear wheel)	505/95 R25 183E ROAD



8. CARRIER SAFETY DEVICES

Emergency steering device, rear steering auto. lock, suspension lock device, engine overrun warning device, check
and safety monitor, boom mirror, reverse voice alarm, left turn voice alarm.

9. DIMENSIONS WHEN TRAVELING

Overall length	mm .	12,340	
Overall width	min	2,960	
Overall height	mm	3,700	
Wheelbase (axle distance)	mm	4,980	
Tread front wheel/rear wheel	mm	2,380/2,380	

10. TOTAL WEIGHT

Total load	kg	38,495	
Front axle load	kg	19,245	
Rear axle load	kg	19,250	

11. SEATING CAPACITY

1 person



LIFTING HEIGHT

View thousands of Crane Specifications on Fre

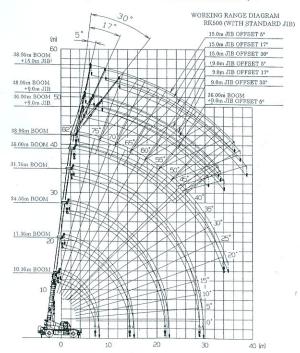
6.2 OPERATING RADIUS-LIFTING HEIGHT DIAGRAM

The diagram shows the relations between the operating radius and lifting height and between the boom length and boom hoisting angle.

- This diagram does not include the boom deflection. Since the actual operating radius is somewhat extended from that shown in this diagram due to deflection of the boom, be careful.
- The operating radius is the horizontal distance from the centerline of rotation to a vertical line through the centerline of gravity of the load.
- 3. When estimating a lifting height above the ground, make allowance for sling wire length.

6.2.1 WORKING RANGE DIAGRAM (STANDARD JIB)

(NOTE) This diagram does not include deflection of the boom and jib.

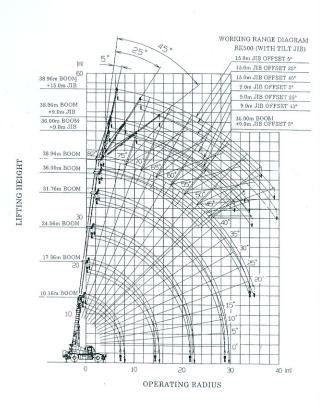


OPERATING RADIUS



6.2.2 WORKING RANGE DIAGRAM (TILT JIB)

(NOTE) This diagram does not include deflection of the boom and jib.





	Boom Length (m) Operating Radius(m)	2.9	3.0	3.2	3.5	3.75	4.0	4.5	5.0	6.6	6.0	6.6	0.0	7.5	8.0	8.5	9.0	9.6	10.0	11.0	12.0	14.0	14.4	15.0	16.0	17.0	18.0	20.0	21.0	21.6	22.0	23.0	24.0	25.0	26.0	27.0	28.0	28.8	20.0	31.0	32.0	33.0	34.0	Min. Boom Angle
(Over side)	24.6		11.00	11.00	11.00	11.00	11.00	10.80	8.90	7.45	6.25	5.30	4.00	3 90	3.30	2.80	2.35	1.90	1.50	0.80																								. 89
(Over side)	17.4		12.00	12.00	12.00	12.00	12.00	10.90	9.05	7.55	6.40	5.45	4.60	4 00	3,45	2.95	2.50	2.05	1.65	0.95																	-							-
9	10.2	16.00	16.00	16.00	16.00	15.40	14.00	11.30	9.30	7.80	6.60	5.65	4.85	4.00														T																.0 .39
	39.0							7.60	7.60	7.60	2.60	2.60	7.60	7.60	2.60	7.60	2.00	6.35	9.80	4.80	4.05	2.90	2.70	2.45	2.00	1.60	1.25	0.96																
	31.8			14.00	14.00	14.00	14.00	14.00	14.00	14.00	12.70	11.50	1040	9.30	8.20	7.30	6.55	6.90	5.35	4.40	3.60	3.00	2.25	1.95	1.50	1.10	0.75																	. 00
(Over side)	24.6		20.00	20.00			20.00	-	_	_	_	11.00	9.50	00.6	7.30	6.45	5.70	5.10	4.55	3.60	2.85	2.15	1.30	1.00				Ī	Ī															
0	17.4		28.00	28.00	-		28.00	23.00	18.50	15.30		_	9.60	9.10	7.40	6.55	5.80	5.20	4.65	3.70	2.95	1.70	1.50	T				Ī	T	T							Ī		Ī					. 0
	10.2	40.00	40.00	37.30	_	_	27.00		18.50	15.70		_	-	9.40	t					1	1	T	İ					İ	T												T			
(Over side)	39.0	4	4	67	69	60	676	7.60 2	7.69	7.60		_		7.60	2.60	7.60	7.60	7.60	7.60	7.10	6.10	5.40	4.40	4.05	3.55	3.10	2.70	2.35	1 65	1.50	1.35	1.10	0.85	99.0	0.50			1	Ī	Ī	1			
	31.8			14.00	14.00	14.00	14.00	14.00	14.00	14.00			4	13.30	12.00	11.00		9.10	8.30	6.90	5.80	4.90	3.95	3.60	3.10	2.60	2.15	1.75	011	0.95	9.85	09'0			1			t	t	Ì	t	T		
(Over side)	24.6	-	20.00	20.00	Н	-	20.00	20.00	20.00	20.00	_	_	_	14.25	-			8.20		4	4	4.05		2.65			1.20	4	t	1	F							1	1	1				
(Ove	17.4 2			28.00 20			28.00 20	28.00 20	28.00 24	24.00 2/	-	-	-	14.40			_	8.35	_	-	_	4.25	1	-				1	t	t								1	1	†	t	t		
	10.2	45.00	45.00 28	43.30 28			37.00 28	33.50 28	30.20 28	25.00 24			-	11.50	1	10				-	-	1						+	t	t	H							1				t		
	39.0 10	45	45	48	41	38	37	7.60 33	7.60 30	7.60 25				7.60	7 60	7.60	7.60	7.60	09	7.10	09'9	6.15	00.00	5.35	2.00	4.70	4.20	3.75	00.00	3.00	2.65	2.35	2.05	1.75	1.50	1.30	1.10	96.0	06.0	0.70	200	t	-	1
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(Over side)	1 24.6		0 20.00	0 20.00	0 20.00	0 50.00	00.00	00.00	0 20.00	0 20.00		_	-	17.15		-	-	_	-	4	_	6.70 6.	+	\perp	3	00	2	64	7	-	-								+	+	+			
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	10.2	51.00	20.00	45.00	41.00	38.90	37.00	0 33.50	_	0 27.50	0 25.00	-	-	0 11.50	0 0	0	0	0	0	0	0	10 1	0 9	2 15	0	0.	01	00	2	3.55	2 50	08	25	08	2.00	1.75	1.55	1.40	35	15	00	0.00	0.55	
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(Whole around)	24.6		20.00	20.00	-	-		20.00	20.00	20.00	20.00		-	_	16.60		-			10.90		_	0.00	+	4.90	4.25	3.70	3.20	2.70	2.30	6.0			L						-	-	+	-	
(Whole around)	17.4		28.00	_	-	-	_	28.00		26.10	24.40	_	_	+	19.30	16.90	15.00	14.00	13.10	11.00	9.30	7.90	0.70	4.00		L			1												1	-		1
	10.2	51.00	50.00	45.00	41.00	38.90	37.00	33.50	30.20	27.50	25.00	22.70	20.70	11.50															1					L							-	1		
	Boom Length (m) Operating Radius(m)	2.9	3.0	3.2	3.5	3.75	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.2	1.5	0.00	0.6	9.6	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	28.8	29.0	30.0	31.0	93.0	34.0	0.4.0

RATED CRANE LOAD TABLE
BOOM RATED LOADS (100) WITH OUTBIGGERS