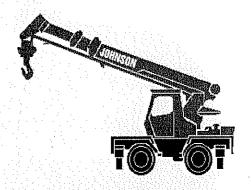
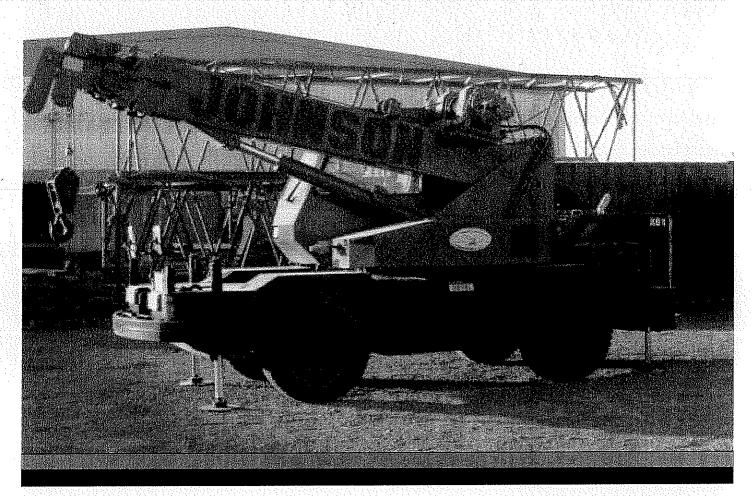
ROUGHTERRAIN



JOHNSON

ARABIA L.L.C.

KOBELCO 7T



Postal Address:

P.O. Box 71240, Dubai. United Arab Emirates

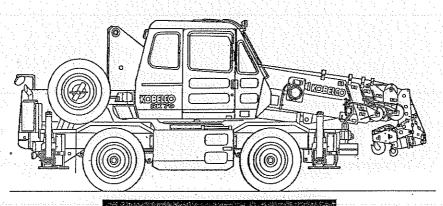
Contact Numbers:

+971 4 3471908 Telephone: Telefax: +971 4 3474811 E-mail:

info@jonarbia.ae



KB 1 RB 2



SPECIFICATIONS

Max. Lifting capacity: 7.0 metric tons x 2.5 meters Max. Boom Length: 21.2 meters



Specifications

UPPER STRUCTURE



SWING UNIT

A hydraulic piston motor drives the swing pinion through a deck-mounted planetary gear reducer for 360° continuous rotation.

Hydraulic flow into the swing motor is controlled by a manual valve in the swing circuit.

SWING PARKING BRAKE

Spring applied hydraulically released disc brake built in swing motor

SWING GEAR

Outernal spur gear

SLEWING RING

Integral with the swing gear, with a single row of ball bearings



WINCH

Mounted on the boom base section, Power hoisting and lowering with inching capability, and free fall. Hydraulic motor drive, spur gear

reduction, and counterbalance valve. Main and auxiliary drums located side by side.

CLUTCHES

Internal-expanding, hydraulic shoe type.

BRAKES

Band type, with positive and negative brake modes.

180mm P.C.D., with 330mm diameter flanges. Width: 216.3mm (main) and 121.3 mm (auxiliary).

HOIST CABLES

IWRC6xFi (22+7) c/o spin-resist cable. Diameter: 10mm. Length: 115m (main) and 50m (auxiliary).

BOOM HOIST

Double-acting hydraulic cylinder with holding valve, inching device.



BOOM TELESCOPE

Full power telescoping by two hydraulic cylinders with holding valves and telescoping assistance cables for the boom extension of

3rd and 5th tip section.

CONTROLS

Five adjustable hand control levers for swing, telescope, main winch, auxiliary winch, and boom hoist (with pedal). These can be tilted in variable angle for neutral positions and stored in their bases when not in use. Other controls include: two short levers for main and auxiliary winch clutches and selection of free fall; one switch for swing parking brake; one lever for telescope change over; one lever for transmission gear selection; two pedals for main and auxiliary winch drum brakes; one pedal for engine throttle control; and one travel brake pedal. Optional joy-stick type levers are available.



OPERATOR'S CAB

All-weather, wide-view cab with safety glass, sliding door; roll-down window, and sliding roof window with wiper. Adjustable driver's

seat with seat belt.

SAFETY DEVICES (Standard)

Overhoist shut-off, relief valves in hydraulic circuits, holding valves for boom hoist and telescope cylinders, counterbalance valve for winch motor, Check and Safety Monitor, overload warning device (automatic shut-off), safety lock lever stand, boom rest, lock valves for vertical cylinders on outriggers, rear steer auto-lock, about-face steering compensator valve, axle lock-up valve (optional for X-type outrigger carrier), and swing flasher lamps, Programmable Operating Zone System, Automatic Outrigger Extension sensor, and Excess Swing Alert.

HYDRAULIC SYSTEM



PUMPS

One vane pump and three-tandem gear pump deliver power to the upper structure and outriggers. The first gear pump displacement

is 95 liters/min. for outriggers and hook hoist. The second gear pump displacement is 95 liters/min. for steering, boom hoisting, boom telescoping, and hook hoist. The third gear pump displacement is 65 liters/min. for swing and cab cooler. The one vane pump is 10 liters/ min. for pilot control circuit.

MOTORS

Two piston motors power the main and auxiliary winches and the swing, respectively.

CONTROL VALVES

One 4-stack set for the winch, boom telescope, swing, and boom hoist; one 4-stack set for the clutch and brake; one 1-stack set for the swing.

One-spool and four-solenoid valves for the outriggers; one spool valve for steering.

OIL RESERVOIR

Capacity149 liters



EQUIPMENT (Standard)

Radio, windshield wiper/washer, cigarette lighter, ashtray, sun visor, floor mat, engine tachometer, hourmeter, paper-element air

cleaner, four working lights, horn, outrigger sight level bubble, automatic hook holder, cab heater/defroster, and cabcooler.

EQUIPMENT (Optional)

Oil cooler for hydraulic system. Optional two tandem drums powered independently are available for simultaneous operation of main and auxiliary winches.

CARRIER

TYPE

4-wheel drive (4x4), with 2-wheel (4x2) drive select for high speed mode.

FRAME

Welded box structure.



OUTRIGGERS

KOBELCO hydraulic H- or X-type outriggers. Eight double-acting hydraulic cylinders provide independent horizontal and vertical

movement for each outrigger. Outriggers can be set from inside the cab or at the side of the carrier.



POWER PLANT

ISUZU 4BD1 turbocharged, water-cooled diesel engine with 4 cycles, 4 cylinders, and direct injection.

Max. output	(DIN)	140 l	PS at	3,000	фm
Max torque	(DIN)	34kg	·m at	1,900	трт
Displacemen	nt			3,85	56cc

ELECTRICAL SYSTEM

24-volt DC system with two 12-volt, 65 Ah batteries

FUEL TANK

Capacity......190 liters

TORQUE CONVERTER

Single-stage, torque converter with automatically controlled lock-up clutch.

TRANSMISSION

10-speed with high-low range. The transmission shifts to automatic drive in D range.

Gear ratios (forward and reverse):

Lower mode: 1st-4.602; 2nd-2.357; 3rd-1.5;

Over Drive-1.086; R-3.938

1st-3.068; 2nd-1.571; 3rd-1.00; High mode:

Over Drive-0.724; R-2.625

BRAKES

Service: Vacuum-servo hydraulic disc brakes on all wheels; single caliper on front and rear wheels.

Parking: Spring-applied, hydraulically-released shoe brake on the out-put shaft of the transfer. Complementary disc brake actuator on all wheels can be also applied.



STEERING

"Orbitrol" hydraulic steering system. Four steering modes are provided: normal, cramp, crab, and rear. Adjustable steering wheel.

About-Face Steering Compensator

An about-face steering compensator makes it possible to travel in reverse with the same handling characteristics as forward travel. The compensator is activated by a reverse steer switch on the front panel.

SUSPENSION

Front and rear axles are fitted with leaf springs with shock absorbers.

FRONT/REAR AXLES

Fully floating drive-steer type axles.

AXLE LOADINGS

H type (X type)

Tire	BIAS (with tubes) 10.00-20-14PR RADIAL (with tube) 10.00R20-14PR	RADIAL (tubeless) 275/80R22.5	WIDE RADIAL 13/80R20	
Gross-Vehicle Weight	11,535 (11,735)	11,485 (11,685)	11,635 (11,845)	
Front	5,740 (5,835)	5,715 (5,815)	5,790 (5,890)	
Rear	5,795 (5,900)	5,770 (5,870)	5,845 (5,955)	

FINAL REDUCTION

Differential; 4.11:1

3.412:1 (High) Transfer;

5.123:1 (Low)

TIRES

Bias with tube 10.00-20-14PR Radial with tube 10.00 R20-14PR Tubeless radial 275/80-R22.5 Wide radial 13/80-R20

LIGHTS

Headlights, license plate light, clearance light, directional lights, parking lights, and back light.

ATTACHMENTS

BOOM

Boom consists of a boom base and five power telescoping sections. The first, second and third sections are paired and extent simultaneously, as do the fourth, fifth and sixth sections. All-welded, high tensile strength steel box construction.

Fully retracted length	5. 1111
Fully extended length	21.2m

AUXILIARY SHEAVE

The auxiliary sheave permits one-part line operation.



HOOK BLOCKS

3-sheave, 7 metric ton block with safety latch. 1.4 metric ton hook with swivel and safety latch.

PERFORMANCE

Max. rated lifting capacity: 7.0 metric ton x 2.5m

Boom length: 5.1 to 21.2m

Boom derricking angle: -8.8 to 80.5°

Boom derricking time: 28.5 sec

Boom telescoping time: 49.5 sec (5.1 to 21.2m)

Main hoist line speed (5th 111m/min layer)

Aux. hoist line speed (4th 104m/min layer)

Swing speed: 2.5rpm Max. travel speed: 49km/h Gradeability: tane 0.62

Lifting Capacities

NOTES FOR LIFTING CAPACITIES

GENERAL NOTES

- Lifting cpaacities listed apply only to the machine as originally manufactured and designed by KOBE STEEL, LTD. modifications to this machine or use of equipment other than that specified can reduce operating capacity.
- Construction equipment can be dangerous if improperly operated or maintained. Operation and maintenance of this machine must be in compliance with the information in the operation, safety and maintenance manual supplied with machine. If this manul is missing, order replacement.

OPERATION WITH OUTRIGGERS

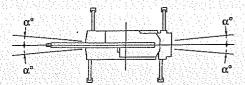
- For outrigger operation, outriggers shall be fully extended with tires free of supporting surface before operating crane.
- 2. Total rated loads shown on the chart are the maximum allowable crane capacities and are based on the machine standing level onfirm supporting surface under ideal job conditions. Depending on the nature of the supporting surface, it may be necessary to have structual supports under the outrigger floats to spread the load to larger bearing surface.
- Capacities do not exceed 78% of the tipping loads. Capacities factors other than machine stability such as structural competence are shown by bold lines.
- 4. Weight of hooks, hook blocks, slings adn other lifting devices are a part of the total load. Their total weight must be subtracted load to obtain the weight that can be lifted.

- The workign radius given in the charts allow for loaded boom deflection. Always operate the machine on the basis of actual operating radius.
- 6. Total rated loads are based on freely suspended load and mark no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, side loads, etc. Side pull on boom or jib is extremely dangerous.
- Maximum outrigger extension is 4.4m. Two intermediate extension positions are also provided at 3.6m and 2.7m. Minimum outrigger extension is 1.65m.

Over-the-side ratings depend on outrigger extension. Values for each outrigger position are given separately and must be followed accordingly during operation. Load rating over the front and rear assume fully extended outrigger position.

Over-the-front area

Over-the-rear area



Outriggers	3.6m extension	2.7m extension	1,65m extension
αº (FRONT)	28	20	5.00
α° (REAR)	28	20	\$ 5 \$ \$ \$

- Ratings of the auxiliary sheave are the same as main boom ratings, but should not exceed 1,400kg. Ratings of the auxiliary sheave are calculated by deducting 1.4-ton hook weight (70kg) from main boom ratings.
- To determine load ratings that fall between those shown in the charts, proceed as follows:
 - a) For boom lengths not listed use rating for next longer boom length or next shorter boom length, whichever is smaller.
 - b) For load radii not shown, use rating for next larger radius.

- 10. To attempt to lift loads in the area other than those listed in the rated load charts, the machine may tip or collapse.
- Standard hoist reevings are shown bellow. Rated single-line pull must not exceed 1,400kg.

Boom length	5.1m	8.4m	11.6m	16.4m	21.2m	Aux. sheave
Hook	7-ton	7-ton	7-ton	7-ton	7-ton	1.4-ton
Parts of line	6	4	4	4	4	1

12. Free fall should in principle be done with no load on a hook. When a load must unavoidably be applied, load allowabel for free fall operations are restricted to one-fifth of rated loads at the given load radius.

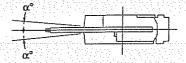
Never brake suddenly during free fall, or machine may tip.

OPERATION WITHOUT OUTRIGGERS (ON TIRES)

- Suspension lock-up cylinder is available for X-type outrigger carrier as option.
 - Do not attempt to lift loads other than over the front area with H-type outrigger carrier with which suspension lock-up is not available.
- 2. Load ratings are the allowable maximum lifting capacities for a firm and level surface, with tires filled to prescribed pressure; Bias (6.75kg/cm²), Radial (7.25kg/cm²), Tubeless Radial (8.25kg/cm²) and wide Radial (6.00kg/cm²). Damaged tires are hazardous to safe operation of crane. Ratings include hook block and all other load handling accessories.

- The working radius given in the charts allow for loaded boom deflection. Always operate the machine on the basis of actual operating radius.
- Load ratings differ for over-the-front and 360° operation. Care must be taken to avoid overload when swinging a load from an over-the-front position to a over-the-side position.

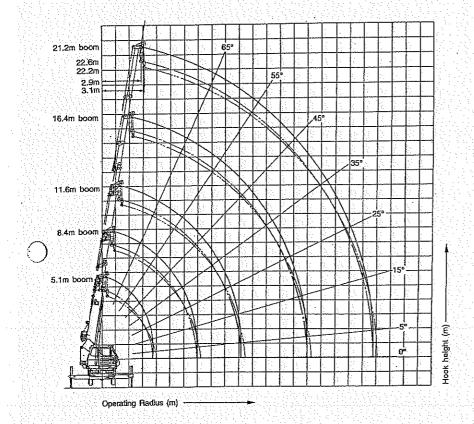
Over-the-front area



On tires	Stationery	Pick & carry
α° (FRONT)		, 1º

- Ratings of the auxiliary sheave are the same as main boom ratings, but should not exceed 1,400kg. Ratings of the auxiliary sheave are calculated by deducting 1.4-ton hook weight (70kg) from main boom ratings.
- Do not use free fall.
- Parking brake and auxiliary operation brake must be applied during stationary load lifting.
- 8. Pick and carry operations must be done in the low travel mode.
- During pick and carry operations, keep the load close to the ground to avoid swaying, and travel no faster than 2.0km/n.
 Avoid cornering, sudden starts (acceleration), and sudden braking. Boom must be centered over the frontarea.
- 10. Do not operate the crane functions while carring the load.
- 11. Single-line load must not exceed 1,400kg.

Working Ranges



With outrigger in 4.4m position — 360° working area

(METRICTON)

Operating radius in	Boom length in meters							
radius in meters	[[]], \ a, \ i, a = 5.1 ; \ a, a, a, i \ i, \ v	8.4	11.6	16.4	21.2(14.44)			
13. 15. 15. 15. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	7.00	4.90		er expression vitaria	Tegal of A. Salta Applications for			
1.5% (1.5%)	7.00	4.90	4.90	en energy and a Cha				
2.0	7.00	4.90	4.90					
2.5	7.00	4.90	4.90	3.90	1945,533,335,53			
3.0	6.10	4.90	4.90	3.90	2.00			
3.5 v. 11 (1.1)	5.30	4.90	4.90	3.90	2.00			
4.0,1,1,1,1,1	4.90 (3.7m)	4.50	4.50	3.60	2.00			
4.5		3.85	3.87	3.30 (4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.	2.00			
75.0		3.38	337	9.05	2.00			
4.54 (1.54 5.5) (1.54 (1.54)	o Vindi so e vine symple (de legis)	2.95	2.97	2.82	1.85			
6.0		2.62	2.65	2.56	, 1.70			
7.0.	ganag Kababababababa	2.15 (6.9m)	2.14	2.15	1.50			
8.0	An amariya waxani dalah		1.70	1.84	1.40			
9.0	ne Valente en en en en en en en	New Article Service Agency Control Con-	1.40	2.11.2.1.2.1.1.60	1,23			
10.0		GELVI INIVERSI ALMASI	14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	31.405	型基本 商(309 通過)			
1,445,646, 11.0 v ₃ ,44,45,67			1.16 (10.2m)	1.20	0.98			
12.0	Statistica estatistica e co	Pindanian North		1.02	0.89			
55.1 5 5 5 13.0 5 5 5 5 5 5	drama na nikipi wilaya sa	ta a ku ta na na ta ta kana a mana a	Santa e di Listina da santa santa s	0.85	0.82			
14.000 (656.00	WERV made nimetory	varansa sa karura sa s	Secolis de la Colonia de la Co	0.69	0.75			
150 _{15 %} 150	化电子 医拉克斯氏病			2r0.55 ii /s 7/3-2	0.69 also			
77 5 5 5 5 16.0 . 5 6 5 5 5 5	ig di fina e diversità di singlica			syny i da satabalyi papipies	0.59			
(17.0 _{) (1} .5 (17.0)	Ne eras Estere et tes est. L	dearace to a magnificación e	Fasteria de la proposición de la composición del composición de la composición del composición de la c	veteta divida dila torra dipira la cas	0.51			
- 18.0% x 2 + 19.0%		Ng palendayang bigingan		Perdeform to the Perdometry				
19.0		(umana garak (asmakanakanga afili)	riy Paar na careeriy paalistiye iy	nation, special also be a	0.36			
200	18.2010 (\$10.00 \$10.00 \$10.00)		高的数字系统数据	Company of the second	(19,8m) (25 (19,8m)			
21.0	Alaisia anna stanaata .	rat Ar Ard Branch (Madri	advaga, tahar	Medika sheda Deta tida	itu u ira sukazoruna			
Min. angle	Paliya a day - t abah a dabah da	Haratana P ro loga da da J	2000. 20. 20. 200 . 20. 20. 20.	aaaa aa aa aa aa a				

With outrigger in 3.6m position - over the side

(METRICTON

Operating radius in			Boom length in meters		e Anna a maga separ
meters	-containin 5.1 -paramagan	14,4744 B.4.474444	11.6	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	21.2
N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.00	4.90	SECTION AND DESCRIPTION	particular Agrae salah Salah sa	NAMES ASSESSED.
	7.00	4.90	4.90	a sa sejako sargeger	1111 1 2 1 1 1 1 1 1 1 1 1 1
2.0	7.00	4.90	4.90	Strandinavine está	
2.5	7.00	4.90	4.90	3.90	
3.0	6.10	4.90	4.90	3.90	2.00
3.5	5.30	4.90	4.90	1.1 A	2.00
4.0	4.90 (3.7m)	4.50	4.50	3.60	2.00
4_5		3.85	3.87	3.30	2.00
5.0		\$333 - S	#2.0 %; 3.37 ic see 34.	23.05	2.00
3-17-14-14-14-1 5-5 -14-14-14-14-1	Valey is they were to be part.	2.85	2.97	2.82	1.85
6.0		2.46	2.52	2.56	1.70
7.0		1.89 (6.9m)	1.87	2.03	1.50
8.0	alatra artisal (1944) alatra	14.513 (\$4.66) (\$4.65) (\$4.74)	1.40 (e.g. a.c.)	2.465.ga.ga. 1.57 3.aasingaya.	1.33
aasaa haa 9.0 0.000 oo ha	PROMERNIA (PROMERNIA)		1.02	1.22	1.18
F-5-10-10-10-10-10-10-10-10-10-10-10-10-10-			0.78	0.96	1.04
11.0		Kanang menganahan mer	0.76 (10.2m)	0.75	0.91
12.0				0.57	0.78
13.0		ra e a lagras a francis presentas proprietas de la Proprieta de la Proprieta de la Proprieta de la Proprieta d Nota y la completa de la completa de la Proprieta de la Proprie	art alle 1991 i transcriber egelet de la Salata Gretor d'Arma Salata egelet d'Arma salata	0.44	0.65
14.0		AND CARREST OF BUILDING	Britiski krajalanski	54.54.54.5.0.34.6.6.6.6.5.5	0.53
15.0 C			224 T. T. S.	0.27	13 S 5 50 42
16.0	A V Programment Note that a recent to the	SAME SEES TO SAME BOOK	No Sintenta Sina statat	Environmente te te tentre atriani con con este	0.33
hailight 17.0 ann an L	Kanaga kangaya	Pathy and Shannya ships	1,351,251,471,171,171,171,171	1 1, 1, 1, 1	0.26
18.0(11)	Angelet (Angelet (An			Angraniya i	0.19
19.0	and the great and the first of				0.13
20.0	A. S. Sakatana			927333 . N. 371	- Baran
21.0					
Min. angle					17°

With outrigger in 2.7m position — over the side

(METRICTON)

Operating radius in			Boom length in meters		
meters	5.1	8.4	11.6	16.4	21.2
1.0	7.00	4.90		:	
1.5	7.00	4.90	4.90		
- 2.0	7.00	4.90	4.90		
2.5	7.00	4.90	4.90	3.90	1.4
3.0	6.10	4.90	4.10	3.90	2.00
3.5	4.40	4.07	3.60	3.90	2.00
4.0	4.20 (3.7m)	3.26	2.98	3.60	2.00
4.5	er de la composition de la filipa	2.63	2.40	2.90	2.00
运动建筑45.0 46 位置的	的是在新疆的	2.10	1.98	2.43	生命。172.00
5.5	error and error to the	1.71	1.64	2.05	1.85
6.0	es ver se reference e	1.40	1.36	1.76	1.70
7.0		1.07 (6.9m)	1.00	1.31	1.30
8.0		<u> Andreas and a second control of the second</u>	0.66	0.96	0.97
9.0	and the second second	and the same and	0.41	0.70	0.76
(1) MO.0 (6)	《是部學的世界等》	· · · · · · · · · · · · · · · · · · ·	0.235 795	-0.50 This is	e 2 ≥ 0.60 × 1
11.0			0.21 (10.2m)	0.34	0.47
12.0			Large de See See	0.21	0.35
13.0					0.26
14.0					0.17
150 Jan 150 Jan 188					
16.0	anna'tanna i j				
17.0					
18.0					
19.0	Acids Acids and Addition to				
20.0 - 27.20.0 (2.75)					
21.0	· · · · · · · · · · · · · · · · · · ·		· · ·		
Min. angle			<u> </u>	37°	45°

With outrigger in 1.65m position — over the side (H-type outrigger only)

	· · · · · · · · · · · · · · · · · · ·		type can igger of.	37 .:	(METHICSON
Operating radius in	2 5 4 5 5 4 2 2 3 4	a ta tata as a	Boom length in meters		
meters	5.1	8.4	11.6	16.4	21.2
1.0	7.00	4.90			
1.5	7.00	4.90	4.90		:
2.0	5.40	4.90	4.90		
2.5	3.54	3.27	3.25	2.10	
3.0	2.60	2.40	2.35	2.10	1.40
3.5	2.01	1.81	1.80	2.10	1.40
4.0	1.81 (3.7m)	1.38	1.35	1.67	1.40
4.5	ta kata iti iti	1.10	1.05	1.35	1.40
等等的第三名D#SEE		- 0.87/5	S > 0.8575 5	2 4 5 4 08	F-5-6-1-7-1-22-5-1-7-5
5.5		0.67	0.63	0.85	1.03
6.0		0.49	0.45	0.67	0.85
7.0		0.23 (6.9m)	0.18	0.40	0.56
8.0	e se succession procession	and the Desires type and a second		0.20	0.36
9.0		N. S. State No. of the State of		eastepaatalije as signig	0.20
到的基础的10.0 是有企	是是新老宝宝的				0.70
Min. angle	Andre Medicine i d epart di senga	pia pulsas - j eriosis. I	47° (1944)	1944 (1445) 57. 4 (1445) (14	59°,,,,,,,,

ON TIRE 1 (only over the front) NO SUSPENSION lock-up

ON TIRE 2 — optional lock-up suspension engaged (For X-type outrigger only)

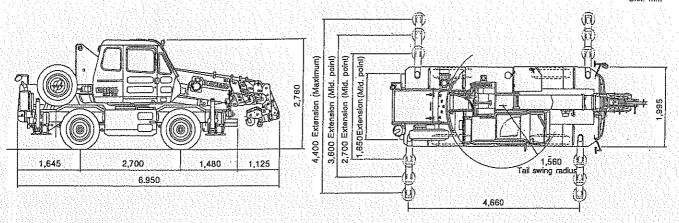
Operating radius in	Boom length in meters
meters	5.1m - 8.4m
5.0	1.00 TON

Operating	Landing Parkage \$	860° Swing radio	us jo o vejetene.	La testa de la Calendaria	Over the front	
radius in		The stage of the	Boom leng	th in meters		
meters	5.1	8.4	11.6	5.1	8.4	11.6
1,0	1.70	1.70	14	3.20	3.20	
1.5	1.70	1.70	1.70	3.20	3.20	3.20
2.0	1.37	1.32	1.32	3.00	3.00	3.00
2.5	0.92	0.86	0.86	2.60	2.54	2.53
3.0	0.61	0.55	0.54	2.15	2.09	2.09
3.5	0.39	0.30	0.26	1.80	1.73	1.73
4.0	0.32 (3.7m)	0.18	0.12	1.69 (3.7m)	1.44	1.44
4.5		0.12			1.20	1_20
5.0		1000	FER WEST	是領域被被	00.ti	1. 極 1.00 🔠
5.5					0.82	0.81
6.0					0.67	0.66
7.0						0.42
9.0						0.25

Dimensions

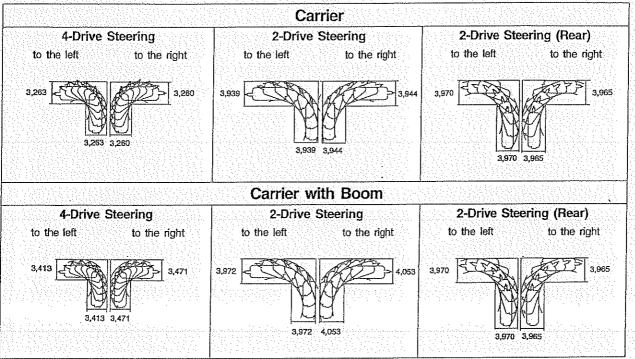


Unit: mm



Exit Width

Unit: mm



Note: RK70 can be driven with no boom overhang.

Note: Due to our policy of continual product improvement, all designs and specifications are subject to change without advance notice.



KOBE STEEL, LTD.

ENGINEERING & MACHINERY DIVISION Construction Machinery & Compressor Group

27-8, Jingumae 6-chome, Shibuya-ku, TOKYO, 150 Japan/Tel: (03) 3797-7021/Fax. (03) 3797-7072

Bulletin No. RK70 SPEC-102