

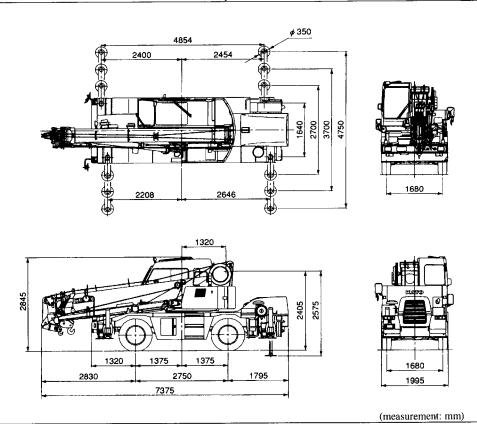
Kato MR-130 City Ace (KRM-13H) Rough Terrain Crane (Power Jib)

	(KKI		gh Terrain Cra	ne (Power Jib)					
			PECIFICATION						
		Cı	ane Specification						
Crane Perfo	rmance								
Rated Lifting	g Capacity	5.30m Boom	13.0 Tonne @ 1.7m	(8 Parts of Line)					
•	• •	9.04m Boom	6.0 Tonne @ 4.0m	(4 Parts of Line)					
		12.78m Boom	6.0 Tonne @ 4.0m	(4 Parts of Line)					
		16.52m Boom	5.0 Tonne @ 4.5m	(4 Parts of Line)					
		20.26m Boom	4.7 Tonne @ 4.0m	(4 Parts of Line)					
		24.00m Boom	3.2 Tonne @ 5.5m	(4 Parts of Line)					
		3.6m Jib	1.6 Tonne @ 75°	(1 Part of Line)					
		5.5m Jib	1.0 Tonne @ 70°	(1 Part of Line)					
		Rooster Sheave	1.8 Tonne	(1 Part of Line)					
Boom Lengt	h	5.3m - 24.0m		,					
Jib Length		3.6m - 5.5m							
Maximum L	ifting	24.8m (Boom)							
Height Abov		30.3m (Jib)							
Line Speed (118m/min (5th la	iver)						
Line Speed (103m/min (3rd la		4					
Hook Speed			14.75m/min (5th laye	r)					
Hook Speed		(Parts of Line 1):							
High Speed	\	(<u> </u>					
Lowering Ro	ope Speed								
Main	r	180m/min (5th	laver)						
Auxiliary		155m/min (3rd							
Boom Derric	king Range	-7.5° ~ 82°							
Boom Raisir		-7.5° ~ 82°/30 se	C						
Boom Exten		5.3m ~ 24.0m/65							
Slewing Spe		2.4min ⁻¹							
Rear Slewing		1,600 mm							
	pment and Struc								
Boom Type	pinent and Struc		lydraulic Telescopic Ty	rne.					
Boom Type		(Simultaneous 2	· 3 Stage, Simultaneous	24 · 5 · 6 Stage)					
Jib Type			d Stage Retractable)	, 4 3 0 0 mge)					
JID Type			tage Gradient (Offset 5	°~60°)					
Boom Exten	sion Equipment		ler (2) with Wire Rope						
	cking Equipment			low Regulator with Pressure Compensator					
Hoist Equip				Drive · Differential Gear Speed					
Hoist Equip	incin			ger Type with Automatic Brakes,					
			with Pressure Compens						
Slewing Equ	iinment			Speed Reducer (Built-in Negative Brake)					
Slew Circle	i pinent	Ball Bearing Typ							
Outrigger	Туре		H Type (Float, Vertical	Cylinder Model)					
Equipment	Extension	4,750 mm (Full l							
Equipment	Range		mediate Extension)						
	range		mediate Extension)						
		1,640 mm (Full I							
Wire Rope	Main		Wire Rope ø 11.2mm ×	: 132m					
20 Mope	Auxiliary		Wire Rope ø 11.2mm ×						
Hydraulic H	<u> </u>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The stope of the state of						
Hydraulic P		Double Variable	Plunger Type Variable	Plunger + Gear Type					
		Double Variable Plunger Type, Variable Plunger + Gear Type Hoisting and Slewing: Axial Plunger Type							
Hydraulic M		Multiple Auto Recovery Type (with Pressure Compensator, Flow Regulator)							
Control Val	V C	Multiple Auto Recovery Type (with Pressure Compensator, Flow Regulator) Double Acting Type							
Cylinder			ype						
Oil Reservoi	Ц	150L							



Kato MR-130 City Ace (KRM-13H) Rough Terrain Crane (Power Jib) SPECIFICATION

Crane Specification



Safety Equipment	
	ACS (with Overload Prevention/Voice Alarm Device)
	Operation Range Limit Device
	Outrigger Extension Automatic Detection Device
	Boom Freefall Prevention Device
	Overhoist Prevention Device
	Automatic Brake Device
	Hydraulic Safety Valve
	Outrigger Lock Device
	Slewing Warning Light
	Hydraulic Fluid Overheat Alarm Device
Standard Equipment	
	Drum Revolution Indicator Device
Cab Components	
	Dehumidifying Air Conditioner,
	Tilt/Telescopic Handle,
	Fully Adjustable Suspension Seat (with Headrest and Armrest),
	Power Windows (with Open Window Prevention Switch),
	Hot and Cool Box, Intermittent Front and Roof Wipers (with Washers),
	Lunch Table, AM/FM Clock Radio, Cigarette Lighter, Step Light,
	Fire Extinguisher, Floor Mat
Optional Components	
	ACS Outside Display Area Display Equipment,
	Loud Speaker, Door Visa, Winding Jam Prevention Device



Kato MR-130 City Ace (KRM-13H) Rough Terrain Crane (Power Jib)

	(1217)	M-13H) Rough Terrain Crane (Power Jib) SPECIFICATION					
		Carrier Specification					
D : : D C.		Carrier Specification					
Driving Perfo		40.1					
Maximum Tra	velling Speed	49 km/hr					
Uphill Ability		$0.43 ag{tan } \theta$					
Minimum Turi	ning Radius	6.5m (2 Wheel Steering)					
		3.92m (4 Wheel Steering)					
Weight and D							
Overall Length	1	7,375 mm approx.					
Overall Width		1,995 mm approx.					
Overall Height	t	2,845 mm approx.					
Distance Betw	een Axles	2,750 mm approx.					
Treads	Front	1,680 mm					
	Rear	1,680 mm					
Seats		\cdot 1					
Gross Vehicle	Weight						
Overall Weigh	t	13,235 kg approx.					
Front Axle We		6,410 kg approx.					
Rear Axle Wei		6,825 kg approx.					
Engine	<u> </u>						
Engine Model		Hino W04D-TF (with Intercooler Turbo)					
Engine Type		Water Cooled, 4 Cycle, In-Line 4 Cylinder, Direct Injection Type Diesel Engine					
Total Emission		4.009L					
Maximum Pow		118kW @ 2,800min ⁻¹					
Maximum Tor		461N·m @ 1,600min ⁻¹					
Carrier Comp	onents and St	<u></u>					
Drive System		2 Wheel Drive (4×2), 4 Wheel Drive (4×4) Switching System					
Torque Conver		3 Components, 1 Stage (with Automatic Lock Up Mechanism)					
Transmission 7		Complete Automatic and Manual Gear Transmission Type					
Number of Gea	; · · · · · · · · · · · · ·	4 Forward Gears, 2 Reverse Gears					
Axle Type	Front	Full Floating Type, 2 Stage Reducer Type					
	Rear	Full Floating Type, 2 Stage Reducer Type					
Suspension	Front	Taper Leaf Spring Type (Hydraulic Lock Cylinder Type)					
Components	Rear	Taper Leaf Spring Type (Hydraulic Lock Cylinder Type)					
Brake	Main Brake	Dual System Combined Hydraulic Pneumatic Type, 4 Wheel Disc Brakes					
Components	Park Brake	Pneumatic Type, Transmission Braking Internal Expansion Type					
	Auxiliary	Torque Converter Lock Up Interlocking Exhaust Retarder,					
	Brake	Auxiliary Braking Device for Operation					
Steering	Туре	Complete Hydraulic Type Power Steering					
Device	Mode	Front 2 Wheels, Rear 2 Wheels, Front/Back Wheels Independent					
		(with Rear Steering Lock Mechanism)					
Tyre Size	Front	275 / 80 R22.5 149 / 146J 275 / 80 R22.5 151 / 148J					
,	Rear	275 / 80 R22.5 149 / 146J 275 / 80 R22.5 151 / 148J					
Fuel Tank Cap		250L					
Battery		(12V-100AH) ×2					
Safety Compo	nante	(12 * 100/11) / 2					
Salety Compo	mems	Emergency Steering Device, Rear Wheel Steering Lock Device, Miss Shift					
		Prevention Device, Brake Fluid Leakage Alarm Device, Auxiliary Braking					
		Device for Operation, Suspension Lock Device, Overrun Alarm Device, Radiator					
0.4115	•	Fluid Level Alarm Device					
Optional Dev	ices						
		Electric-Powered Housing Side Mirrors, Tachograph					

Rated Lifting Capacity Table (1)

ſ <u> </u>	5.30m ~ 24.0m Boom												
	1 (4.75m)							(3.7m)					
Working	Outriggers Fully Extended (360° Full Range)							Outriggers Intermediately Extended (Over Side)					
Radius													
(m)	5.3m	l	12.78m	1			5.3m	1	12.78m	I .			
	Boom	Boom	Boom	Boom	Boom	Boom	Boom	Boom	Boom	Boom	Boom	Boom	
1.5	13.00	6.00	6.00				12.00	6.00	6.00		_		
1.7	13.00	6.00	6.00				12.00	6.00	6.00				
2.0	12.00	6.00	6.00	5.00			12.00	6.00	6.00	5.00			
2.5	10.00	6.00	6.00	5.00			10.00	6.00	6.00	5.00			
3.0	8.20	6.00	6.00	5.00	4.70		8.20	6.00	6.00	5.00	4.70		
3.5	7.00	6.00	6.00	5.00	4.70	3.20	7.00	6.00	6.00	5.00	4.70	3.20	
4.0	6.10	6.00	6.00	5.00	4.70	3.20	6.10	6.00	6.00	5.00	4.70	3.20	
4.5		5.50	5.40	5.00	4.50	3.20		5.00	5.00	5.00	4.50	3.20	
5.0		5.00	4.90	4.60	4.05	3.20		4.30	4.30	4.40	4.05	3.20	
5.5		4.50	4.40	4.20	3.70	3.20		3.70	3.60	3.80	3.70	3.20	
6.0		4.10	4.00	3.80	3.40	3.00		3.10	3.10	3.30	3.30	3.00	
6.5		3.70	3.65	3.50	3.15	2.80		2.70	2.65	2.85	2.90	2.75	
7.0		3.35	3.30	3.20	2.90	2.60		2.30	2.30	2.50	2.60	2.50	
8.0		2.70 (7.7m)	2.70	2.70	2.50	2.25		1.85 (7.7m)	1.75	1.90	2.00	2.10	
9.0		, ,	2.20	2.30	2.20	1.95			1.35	1.50	1.60	1.70	
10.0			1.80	1.90	1.95	1.75			1.05	1.20	1.30	1.40	
11.0			1.45	1.60	1.75	1.55			0.80	1.00	1.10	1.15	
12.0		-	1.30 (11.4m)	1.40	1.50	1.40			0.65 (11.4m)	0.80	0.90	0.95	
13.0			(71.411)	1.20	1.30	1.25	·		(11111111111111111111111111111111111111	0.60	0.75	0.80	
14.0				1.00	1.10	1.15				0.45	0.60	0.65	
15.0				0.85	0.95	1.00				0.35	0.45	0.55	
16.0	· ·				0.80	0.90					0.35	0.45	
17.0					0.70	0.80					0.25	0.35	
18.0					0.60	0.68						0.25	
19.0					0.50 (18.8m)	0.58							
20.0					(10.011)	0.48	<u> </u>				1		
21.0				-		0.40	1						
22.0						0.35							
22.5				·		0.32							
Critical	1			_		_	_		_	_	23°	36°	
Boom Angle									<u> </u>	<u> </u>			
Standard	13t Hook						13t Hook						
Hook							-						
Hook Weight	-		1.	kg		1	0	T 4	4	kg 4	4	4	
Parts of Line	8	4	4	4	4	4	8	4	4	1 4	1 4	1 4	

Rated Lifting Capacity Table (2)

	5.30m ~ 24.0m Boom												
Working			∃ (2.7m)		(1.64m)							
Radius	Outrigg	gers Inter	rmediate	ly Exten	ded (Ove	er Side)	Οι	itriggers	Fully Re	tracted (Over Sic	le)	
(m)	5.3m	9.04m	12.78m	16.52m	20.26m	24.0m	5.3m	9.04m	12.78m	16.52m	20.26m		
	Boom	Boom	Boom	Boom	Boom	Boom	Boom	Boom	Boom	Boom	Boom	Boom	
1.5	12.00	6.00	6.00				8.00	6.00	6.00				
1.7	12.00	6.00	6.00				7.00	6.00	6.00				
2.0	12.00	6.00	6.00	5.00			5.60	5.40	5.00	4.70			
2.5	8.50	6.00	6.00	5.00			3.80	3.80	3.60	3.50			
3.0	6.00	6.00	6.00	5.00	4.70		2.80	2.80	2.70	2.70	2.60		
3.5	4.70	4.70	4.60	4.50	4.40	3.20	2.10	2.10	2.00	2.10	2.10	2.10	
4.0	3.70	3.70	3.70	3.70	3.70	3.20	1.60	1.60	1.55	1.70	1.70	1.75	
4.5		3.00	3.00	3.10	3.10	3.00		1.25	1.20	1.40	1.40	1.45	
5.0		2.40	2.40	2.60	2.70	2.70		0.95	0.95	1.10	1.20	1.25	
5.5		2.00	2.00	2.20	2.30	2.30		0.75	0.75	0.90	1.00	1.05	
6.0	_	1.70	1.70	1.85	2.00	2.05		0.60	0.55	0.75	0.80	0.90	
6.5		1.40	1.40	1.60	1.70	1.75		0.40	0.35	0.60	0.65	0.75	
7.0		1.20	1.20	1.40	1.50	1.55		0.25		0.45	0.55	0.60	
8.0		0.90 (7.7m)	0.85	1.05	1.15	1.20							
9.0			0.60	0.80	0.90	0.95							
10.0			0.35	0.55	0.65	0.75							
11.0				0.40	0.50	0.60							
12.0				0.25	0.35	0.45							
13.0					0.20	0.30							
14.0						0.20							
15.0													
16.0													
17.0					ļ								
18.0													
Critical	-	-	19°	32°	44°	50°	-	20°	54°	61°	66°	70°	
Boom Angle Standard								J	L		<u> </u>	L	
Hook			13t I	Hook					13t I	Hook			
Hook Weight			90	kg					90	kg			
Parts of Line	8	4	4	4	4	4	8	4	4	4	4	4	

Rated Lifting Capacity Table (3)

	[Ctomdos	ud Haalu fe		oom + 3.6r		rts of Line	. 13	
	[Standar	u nook: ic	or 1.8 ton (H			its of Line	. 1]	
				(4.75m)				
		Outrigg	ers Fully Ex	tended (36	0° Full Ran	ge)		
Boom	5° O	ffset	25° C	ffset	45° C	ffset	60° O	ffset
Angle	Working	Load	Working	Load	Working	Load	Working	Load
(°)	Radius (m)	(t)	Radius (m)	(t)	Radius (m)	(t)	Radius (m)	(t)
82	4.4	1.60	5.8	1.50	6.5	1.00	6.8	0.65
80	5.2	1.60	6.4	1.50	7.2	1.00	7.4	0.65
75	7.8	1.60	8.7	1.17	9.5	0.93	9.6	0.65
70	10.1	1.25	11.1	0.98	11.6	0.85	11.8	0.65
65	12.3	1.05	13.1	0.88	13.6	0.77	13.8	0.65
60	14.3	0.90	15.1	0.76	15.6	0.70	15.6	0.65
55	16.3	0.72	17.0	0.64	17.4	0.64		
50	18.1	0.55	18.7	0.53	18.9	0.52		
45	19.7	0.40	20.4	0.37	20.3	0.40		
40	21.1	0.28	21.6	0.27				
35	22.3	0.20	22.7	0.19				
Critical Boom Angle	34	1 °	34	ļ°	44	0	59	0

	(3.7m)													
	Outriggers Intermediately Extended (Over Side)													
Boom														
Angle	Working	Load	Working	Load	Working	Load	Working	Load						
(°)	Radius (m)	(t)	Radius (m)	(t)	Radius (m)	(t)	Radius (m)	(t)						
82	4.4	1.60	5.8	1.50	6.5	1.00	6.8	0.65						
80	5.2	1.60	6.4	1.50	7.2	1.00	7.4	0.65						
75	7.8	1.60	8.7	1.17	9.5	0.93	9.6	0.65						
70	10.1	1.25	11.1	0.98	11.6	0.85	11.8	0.65						
65	12.2	0.90	13.1	0.76	13.6	0.77	13.8	0.65						
60	14.2	0.59	15.0	0.54	15.5	0.53	15.5	0.54						
55	16.0	0.37	16.8	0.33	17.2	0.33								
50														
Critical Boom Angle	49)0	49)°	49) 0	59	10						

			3	(2.7m)									
	Outriggers Intermediately Extended (Over Side)												
Boom													
Angle	Working	Load	Working	Load	Working	Load	Working	Load					
(°)	Radius (m)	(t)	Radius (m)	(t)	Radius (m)	(t)	Radius (m)	(t)					
82	4.4	1.60	5.8	1.50	6.5	1.00	6.8	0.65					
80	5.2	1.60	6.4	1.50	7.2	1.00	7.4	0.65					
75	7.8	1.20	8.7	1.05	9.5	0.93	9.6	0.65					
70	10.0	0.72	10.9	0.65	11.5	0.62	11.7	0.56					
65	11.9	0.41	12.9	0.35	13.4	0.34	13.6	0.33					
Critical Boom Angle	64	10	64	0	64	.0	64	.0					

Rated Lifting Capacity Table (4)

	[Standar	d Hook: fo	24.0m Bo or 1.8 ton (He			rts of Line	: 1]				
			_	(4.75m)						
		Outrigg	ers Fully Ext	ended (36	0° Full Ran	ge)					
Boom	5° O:	ffset	25° O	ffset	45° C	ffset	60° O	ffset			
Angle	Working	Load	Working	Load	Working	Load	Working	Load			
(°)	Radius (m)	(t)	Radius (m)	(t)	Radius (m)	(t)	Radius (m)	(t)			
82	4.8	1.00	6.9	1.00	8.2	0.65	8.6	0.40			
80	5.6	1.00	7.6	1.00	8.9	0.65	9.5	0.40			
75	8.4	1.00	10.1	0.85	11.2	0.63	11.5	0.40			
70	11.1	1.00	12.4	0.72	13.4	0.58	13.6	0.40			
65	13.4	0.81	14.7	0.61	15.6	0.52	15.6	0.40			
60	15.6	0.69	16.8	0.55	17.5	0.48	17.4	0.40			
55	17.7	0.58	18.8	0.49	19.3	0.45					
50	19.6	0.49	20.5	0.44	20.8	0.40					
45	21.2	0.36	22.0	0.34	22.3	0.35					
40	22.9	0.23	23.4	0.24							
Critical boom angle	39	39° 39° 44° 59°									

			<u></u>	(3.7m)		-							
	Outriggers Intermediately Extended (Over Side)												
Boom	5° O:	ffset	25° C	ffset	45° O	ffset	60° O	ffset					
Angle	Working	Load	Working	Load	Working	Load	Working	Load					
(°)	Radius (m)	(t)	Radius (m)	(t)	Radius (m)	(t)	Radius (m)	(t)					
82	4.8	1.00	6.9	1.00	8.2	0.65	8.6	0.40					
80	5.6	1.00	7.6	1.00	8.9	0.65	9.2	0.40					
75	8.4	1.00	10.1	0.85	11.2	0.63	11.5	0.40					
70	11.1	1.00	12.4	0.72	13.4	0.58	13.6	0.40					
65	13.4	0.75	14.7	0.61	15.6	0.52	15.6	0.40					
60	15.4	0.52	16.7	0.45	17.5	0.42	17.4	0.40					
55	17.4	0.31	18.6	0.28	19.1	0.28							
52	18.5	0.22	19.5	0.21	20.0	0.20							
Critical boom angle	51	0	51	0	51	0	59	0					

				(2.7m)				
		Outrigge	ers Intermedia	ately Exte	nded (Over S	ide)		
Boom	5° O	ffset	25° O	ffset	45° O	ffset	60° O	ffset
Angle	Working	Load	Working	Load	Working	Load	Working	Load
(°)	Radius (m)	(t)	Radius (m)	(t)	Radius (m)	(t)	Radius (m)	(t)
82	4.8	1.00	6.9	1.00	8.2	0.65	8.6	0.40
80	5.6	1.00	7.6	1.00	8.9	0.65	9.2	0.40
75	8.4	1.00	10.1	0.85	11.2	0.63	11.5	0.40
70	10.8	0.66	12.3	0.55	13.3	0.48	13.6	0.40
65	12.9	0.36	14.4	0.30	15.3	0.26		
Critical boom angle	64	10	64	64	0	69	0	

Rated Lifting Capacity Table (5)

When Outriggers Are Not In Use

			<u>J</u>									
Working	Stationary on Rubber											
Radius	5.3m	Boom		Boom	12.781	m Boom						
(m)	Over	360°	Over	360°	Over	360°						
	Front	Full Range	Front	Full Range	Front	Full Range						
1.5	3.60	2.80	3.60	2.80	3.60	2.80						
2.0	3.40	2.80	3.40	2.80	3.40	2.80						
2.5	3.10	2.15	3.10	2.10	3.10	2.05						
3.0	2.65	1.60	2.60	1.55	2.55	1.50						
3.5	2.30	1.25	2.20	1.20	2.10	1.10						
4.0	2.00	0.90	1.90	0.80	1.70	0.70						
4.5			1.60	0.50	1.40	0.40						
5.0			1.30		1.10							
5.5			1.10		0.95							
6.0			0.90		0.80							
7.0	-1		0.50		0.50							
Critical			26°	54°	52°	7 66°						
Boom Angle		-			32	1 30						
Standard Hook	13t Hook											
Hook Weight	90 kg											
Parts of Line				4								

(unit: metric ton)

Washing	60						
Working Radius (m)	Pick & Carry (Travelling Speed Maximum 2 km/h)						
	5.3m Boom		9.04m Boom		12.78m Boom		
(111)	Over	360°	Over	360°	Over	360°	
	Front	Full Range	Front	Full Range	Front	Full Range	
1.5	3.20	2.00	3.20	2.00	3.20	2.00	
2.0	3.00	2.00	3.00	2.00	3.00	2.00	
2.5	2.80	1.55	2.75	1.50	2.65	1.45	
3.0	2.40	1.10	2.30	1.05	2.20	1.00	
3.5	2.00	0.85	1.90	0.75	1.80	0.65	
4.0	1.70	0.60	1.65	0.50	1.50	0.40	
4.5		"	1.40	0.30	1.25		
5.0			1.15		1.00		
5.5			0.95		0.85		
6.0			0.80		0.70		
7.0			0.45		0.45		
Critical Boom Angle	_	-	26°	54°	52°	68°	
Standard Hook	13t Hook						
Hook Weight	90 kg						
Parts of Line	4						

When Outriggers Are Used

- 1. The rated lifting figures shown are the maximum guaranteed loads for when the Crane is level on flat and firm ground and includes the weight of the main hook and lifting equipment during boom operation and the weight of the auxiliary hook and lifting equipment during jib operation.
 - The figures within the bold lines are based on the structural strength of the machine and those outside of the heavy lines are based on the stability of the Crane.
- 2. The working radii are based on actual figures including the deflection of the boom and jib. For this reason operate the Crane based on the operation radius.
- 3. The working radii of the jib are based on figures obtained when the jib is attached to a 24.0m long boom. If operating with a boom of a different length only use the boom angle as a reference.
- 4. Do not use the jib with the outriggers at their minimum extended state.
- 5. Depending on the outrigger extension status the side lifting (lateral) performance will differ so perform operations referring to the rated lifting capacity chart for each extension status. For front and rear lifting refer to the rated capacity lifting chart with the outriggers at maximum extension.



Outrigger	Outriggers	Outriggers	Outriggers
Extension Status	Intermediately	Intermediately	Fully Retracted
	Extended (3.7m)	Extended (2.7m)	
Range a°	25	15	3

- 6. The rated lifting capacity for the rooster sheave is equivalent to the rated lifting capability for the boom minus the weight of the hook and other hoisting equipment attached to the boom and has a maximum of 1,800 kg.
 - [Rooster sheave hook: 1.8 ton hook (weight 25 kg) 1 part of line].
- 7. When the boom exceeds the specified length on the chart operate the Crane according to the rated lifting capabilities for the next longer boom length or the chart above whichever has the lowest value.
- 8. When operating the boom with the jib attached refer to the rated lifting capacity minus the weight of additional hoisting equipment and 600 kg. Do not use the rooster sheave with the jib attached or the boom with the jib attached if the outriggers are at minimum extension.
- 9. The critical boom angles during each operation are as shown in the chart. If these critical angles are exceeded the Crane will tip over even without a load.

When Outriggers Are Used

- 10. The parts of standard hook line required for each boom length is as stated in the chart. When the standard number of parts of line is not used each wire rope is limited to 15.7kN (1.6ft).
- 11. When using the jib in situations where the jib offset angle exceeds the specified angle operate using a jib offset one stage larger as a rough guide.
- 12. The free fall option is designed to lower the hook only. Avoid sudden operation of the lever.
- 13. Crane operation is possible in wind speeds up to 10m/sec however even when the wind is relatively weak pay extra if handling a hanging load that has a large wind reception area.
- 14. If operating with loads exceeding those specified or using the Crane in an incorrect manner the Crane will tip over or be damaged. The equipment warranty will not be valid in this situation.

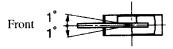
When Outriggers Are Not Used

1. The rated lifting figures shown are the maximum guaranteed loads for when the Crane is level on flat and firm ground with the weight of the hook and all other hoisting equipment included, the suspension lock cylinder in its most reduced state and with the tyres at the specified pressure.

[Specified tyre pressure: 875 kPa (8.75 kg/cm²)]

The figures within the bold lines are based on the structural strength of the Crane and those outside of the bold lines are based on the stability of the machine.

- 2. The working radii are based on figures including the deflection of the boom. For this reason operate the Crane based on the operation radius.
- 3. The rated lifting capability of forward capability and entire capability is different. When slewing from front lifting to side lifting there is the possibility of overloading so exercise extreme care.



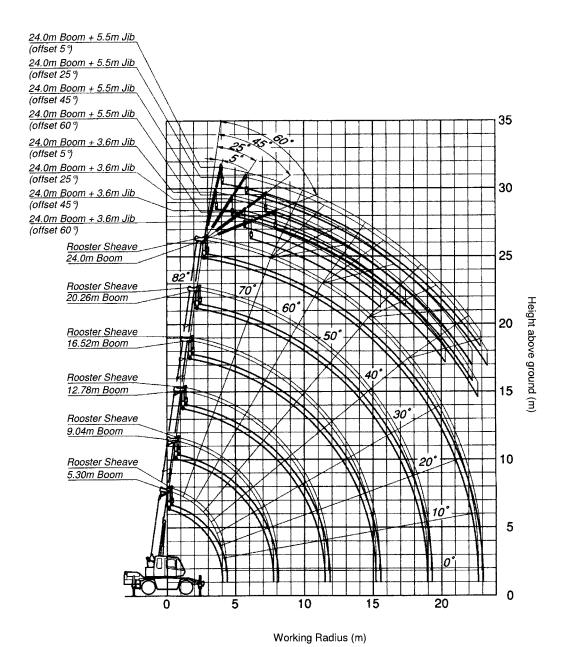
4. The rated lifting capacity for the rooster sheave is equivalent to the rated lifting capability for the boom minus the weight of the hook and other hoisting equipment attached to the boom and has a maximum of 1,800 kg.

[Rooster sheave hook: 1.8 ton hook (weight 25 kg) 1 part of line]

- 5. Do not operate the boom, jib or free fall operation with the boom longer than 12.78m.
- 6. When performing stationary lifting operate with the parking brake and the brake lock on at the same time.
- 7. When mobiling place the shift lever in 1st.
- 8. When mobiling hold the load close to the ground to prevent swinging and travel at less than 2 km/h. Be particularly careful when turning corners, starting and stopping.
- 9. When mobiling do not operate the Crane and be sure to have the slewing brake on.
- 10. When the boom exceeds the specified length on the chart operate the Crane according to the rated lifting capabilities for the next longer boom length or the chart above, whichever has the lowest value.
- 11. The critical boom angles during each operation are as shown in the chart. If these angles are exceeded the Crane will tip over even without a load.
- 12. The parts of standard hook line required for each boom length is as stated in the chart. When the standard number of parts of line is not used each wire rope is limited to 15.7kN (1.6ft).

When Outriggers Are Not Used

- 13. Crane operation is possible in wind speeds up to 10m/sec however even when the wind is relatively weak pay extra if handling a hanging load that has a large wind reception area.
- 14. If operating with loads exceeding those specified or using the Crane in an incorrect manner the crane will tip over or be damaged. The equipment warranty will not be valid in this situation.

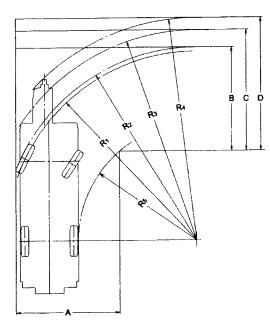


Caution

- 1. The diagram above does not allow for boom and jib deflections.
- 2. The chart above is based on operation with all outriggers at full extension.

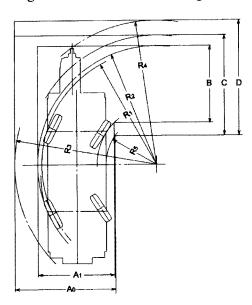
Minimum Road Width for Right-Angle Turn

Right Turn in 2-Wheel Steering Mode



- R₁ = 6.50m (Minimum Turning Radius)
- \cdot R₂ = 6.64m
- (Turning Radius of Extremely Outer Tyre)
- $R_3 = 7.23m$
- (Chassis Turning Radius)
- $R_4 = 7.65 \text{m}$
 - (Boom End Turning Radius)
- R₅ = 4.03m (Vehicle Interior Turning Radius)
- A = 3.57m (Width of Entrance)
- B = 3.57m (Width of Wheel Exit)
- C = 4.16m (Width of Chassis Exit)
- \cdot D = 4.57m (Width of Exit at End of Boom)

Right Turn in 4-Wheel Steering Mode



- $\cdot R_1 = 3.92m$
 - (Minimum Turning Radius)
- $R_2 = 4.06 m$
 - (Turning Radius of Extremely Outer Tyre)
- $R_3 = 4.85 m$
 - (Chassis Turning Radius)
- $R_4 = 4.94 \text{m}$
 - (Boom End Turning Radius)
- \cdot R₅ = 1.72m
 - (Vehicle Interior Turning Radius)
- $A_0 = 3.44$ m (Width of Entrance)
- $A_1 = 2.62m$ (Width of Wheel Entrance)
- \cdot B = 2.62m (Width of Wheel Exit)
- \cdot C = 3.44m (Width of Chassis Exit)
- \cdot D = 3.95m (Width of Exit at End of Boom)

Note: The above figures are calculated values