

# SR-300L ROUGH TERRAIN CRANE

# [SPECIFICATION]

CRANE	Speci	fication								
Maximum rated capacity	lifting	30ton × 3m								
Boom length Fly jib length		9.35m — 30.5m (4 section) 7.9m — 13.0m (2 section, offset 5°,25°,45°)								
	lifting	31.2m (Boom)								
Maximum rateo height	lifting	44.8m (jib)								
Hoisting	Main winch	125m / min. (at 4th layer)								
line speed (winch up)	Auxiliary winch	116m / min. (at 3rd layer)								
Hoisting hook	Main winch	(Parts of line; 9) : 13.8m / min. (at 4th layer)								
speed (winch up)	Auxiliary winch	(Parts of line; 1) : 116m / min. (at 3rd layer)								
Boom derricking		0° — 83°								
Boom derricking	g time	40s / 0° — 83°								
Boom extendin	g speed	9.35m — 30.5m / 93s								
Slewing speed		2.9min <sup>-1</sup>								
Tail slewing rad	ius	3,500mm								
●Equipmen	t and stru	ucture								
Boom type		Box-shaped, 4-section hydraulically telescopic type (Boom section 3 / 4 simultaneously operated)								
Jib type		2 sections (2nd section of draw-out type) (offset angles 5° ,25° and 45° )								
Boom extension retraction equip		Two hydraulic cylinders and wire ropes used together								
Boom derricking equipment		One hydraulic cylinder of direct acting type with pressure- compensated flow control valve								
		Driven by axial plunger type hoisting motor through planetary gear								
Winch system Main & Auxiliar	/ winches	reduction. Controlled independently by respective operating lever. Equipped with automatic brake.								
Slewing equipm	nent	Ball bearing type								
	Туре	Hydraulic H-beam type (with float and vertical cylinder in single unit)								
		6,600mm (Fully extended)								
Outriggers	E tracia	6,000mm (Intermediately extended)								
	Extension width	5,000mm (Intermediately extended)								
		3,800mm (Intermediately extended)								
	Main	2,310mm (Fully retracted)								
Wire rope for hoisting	winch Auxiliary	Diameter: 16mm×Length: 175m								
	winch	Diameter: 16mm × Length: 95m								
Hydraulic	equipme									
Oil pump	Hoisting	4 pumps, plunger and gear type Axial plunger type								
Hydraulic motor	motor Slewing	Axial plunger type								
Oristaliustus	motor									
Control valve		Double acting with integral check and relief valves								
Cylinder Oil reservoir ca	nacity	Double acting type 500L								
Safety de		ACS (Automatic Crane System with voice alarm), Slewing automatic stop system, Outrigger status detector, Boom derricking / telescoping holding valve, Overhoist prevention device, Drum lock device (on aux. winch), Winch holding valve, Automatic winch brake, Winch drum roller, Hydraulic safety valves, Outrigger lock pins, Slewing lock, Joystick control safety stop system, Hydraulic oil temperature warning device, Hydraulic oil return filter warning device								
Standard	equipme									
		Hydraulic oil cooler, Working light (on boom, table and cab), Winch drum turning indication device								
Operator's	cab									
		All steel welded construction, 1 person, Rubber mounted, Adjustable steering wheel, Adjustable seat, Seat belt, Front windscreen wiper & washer (2 speed wiper), Roof window wiper & washer, Cigarette lighter, Ashtray, Floor mat								
Optional e	quipmen	t								
		Winch over unwinding device, Winch drum mirror (Hoist mirror), Cab heater, Cab cooler, Fan, AM/FM Radio, Fire extinguisher, Smoke torch								
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Maximum trave	ER Spe	101								
	- 1	49km/h								
Grade ability (ta	an θ)	57% (computed at G.V.W. = 26990kg)								
Minimum turnin (center of extrem		8.2m (2 wheel steer)								
		4.9m (4 wheel steer)								
Engine										
Model		Mitsubishi 6M60-TL								
Туре		4 cycle, 6 cylinders, water cooled, direct injection turbo-charged diesel engine with intercooling								
Piston displace	ment	7.545L								
Max. power		200kW at 2,600min <sup>-1</sup>								
Max. torque		785N·m at 1,400min <sup>-1</sup>								
Fuel due to KA	TO's recom	mendation only								
Equipmen	t and stru	icture								
Drive system		4x2 / 4x4								
Torque converte	er	Engine mounted 3 elements 1 stage (with lock up clutch)								
Transmission		Remote mounted full automatic								
Number of spee	eds	4 forward & 1 reverse speed (with HI - Low selector)								
Axles	Front	Planetary, drive/steer type								
	Rear	Planetary, drive/steer type								
Suspension	Front & Rear	Taper - leaf spring Hydraulic locking device with shock absorber								
	Service	Air-over hydraulic disk brake on 4 wheels (front and rear independent circuit)								
Brake system	Parking	Spring applied, electrically air released parking brake mounted or front axle, internal expanding type								
	Auxiliary	Exhaust brake								
Steering		Full hydraulic power steering Completely independent front and rear steering (with automatic rear wheel steering lock system)								
Front		385 / 95 R25 170E ROAD								
Tire size	Rear	385 / 95 R25 170E ROAD								
Fuel tank capao	city	300 L								
Batteries		(12V-120AH) ×2								
<ul> <li>Safety dev</li> </ul>	vices									
		Emergency steering device, Rear wheel steering lock system (automatic), Mis-shifting prevention system, Brake fluid leak warning device, Service brake lock, Suspension lock, Engine overspeed alarm, Radiator coolant level warning device, Air filter service warning device								
<ul> <li>Standard</li> </ul>	equipme	nt								
		Centralized lubricating system								
		<u></u>								
Optional e	quipmen	t.								
		Yellow rev. light								
		Yellow rev. light								
GENER		Yellow rev. light nensions								
		Yellow rev. light nensions 11,360mm								
Overall length Overall width Overall height		Yellow rev. light nensions 11,360mm 2,620mm								
Overall length Overall width Overall height Wheel base	AL Din	Yellow rev. light           nensions           11,360mm           2,620mm           3,475mm           3,650mm           2,170mm								
Overall length Overall width Overall height Wheel base Treads	Front Rear	Yellow rev. light           nensions           11,360mm           2,620mm           3,475mm           3,650mm								
Overall length Overall width Overall height Wheel base Treads	Front Rear	Yellow rev. light           nensions           11,360mm           2,620mm           3,475mm           3,650mm           2,170mm								
GENER Overall length Overall width	Front Rear	Yellow rev. light           nensions           11,360mm           2,620mm           3,475mm           3,650mm           2,170mm								
Overall length Overall width Overall height Wheel base Treads	Front Rear acity Gross	Yellow rev. light           nensions           11,360mm           2,620mm           3,475mm           3,650mm           2,170mm           2,170mm           One person								

KATO products and specifications are subject to improvements and changes without notice.

## ■RATED LIFTING CAPACITY —

Based on ISO 4305

9.35m — 30.5m Boom	9.35m — 3	0.5m	Boom
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		(6.6	3m)			(6.	))			(5.0	Om)			(3.8	3m)		(block	ed on va	rtical cyl	inders)	
Working		ggers fu full rar	ully exte	nded					Outriggers intermediately extended (over side)			Outriggers intermediately extended (over side)				Outriggers completely retracted (over side)					
radius (m)	9.35m Boom	16.4m Boom	23.45m Boom	30.5m Boom	9.35m Boom	16.4m Boom	23.45m Boom	30.5m Boom	9.35m Boom	16.4m Boom	23.45m Boom	30.5m Boom	9.35m Boom	16.4m Boom	23.45m Boom	30.5m Boom	9.35m Boom	16.4m Boom	23.45m Boom	30.5m Boom	
2.5	30.00*	19.00	12.50		30.00*	19.00	12.50		30.00*	19.00	12.50		30.00*	19.00	12.50		12.00	10.35	9.10		
3.0	30.00*	19.00	12.50		30.00*	19.00	12.50		30.00*	19.00	12.50		26.00	18.90	12.50		11.15	8.25	7.50		
3.5	27.20*	19.00	12.50	7.50	27.20*	19.00	12.50	7.50	27.20*	19.00	12.50	7.50	20.20	15.20	12.50	7.50	9.00	6.75	6.30	5.50	
4.0	23.00	19.00	12.50	7.50	23.00	19.00	12.50	7.50	23.00	19.00	12.50	7.50	16.35	12.60	11.40	7.50	7.45	5.60	5.35	5.15	
4.5	21.20	18.65	12.50	7.50	21.20	18.65	12.50	7.50	21.20	17.30	12.50	7.50	13.65	10.65	9.85	7.50	6.25	4.65	4.60	4.50	
5.0	19.40	17.30	12.50	7.50	19.40	17.30	12.50	7.50	18.85	14.70	12.50	7.50	11.40	9.10	8.60	7.50	5.30	3.95	3.95	3.95	
5.5	17.80	16.15	12.50	7.50	17.80	16.15	12.50	7.50	15.65	12.65	11.80	7.50	9.50	7.90	7.55	7.25	4.50	3.30	3.45	3.45	
6.0	16.30	15.15	12.25	7.50	16.30	15.15	12.25	7.50	13.15	11.05	10.45	7.50	8.10	6.90	6.70	6.50	3.85	2.80	3.00	3.05	
6.5	15.10	14.25	11.50	7.50	15.10	13.50	11.50	7.50	11.25	9.75	9.35	7.50	7.05	6.05	6.00	5.85	3.30	2.35	2.60	2.70	
7.0		13.45	10.80	7.50		12.00	10.80	7.50		8.70	8.40	7.50		5.35	5.40	5.35		2.00	2.25	2.40	
7.5		12.70	10.20	7.50		10.75	10.20	7.50		7.75	7.60	7.40		4.75	4.85	4.85		1.65	1.95	2.15	
8.0		11.80	9.65	7.50		9.65	9.35	7.50		7.00	6.95	6.80		4.25	4.40	4.45		1.40	1.70	1.90	
9.0		9.70	8.65	6.80		7.95	7.85	6.80		5.75	5.80	5.75		3.40	3.60	3.70		0.90	1.25	1.50	
10.0		7.90	7.85	6.15		6.50	6.70	6.15		4.70	4.90	4.95		2.75	3.00	3.15		0.55	0.90	1.15	
11.0		6.50	6.90	5.60		5.35	5.75	5.60		3.85	4.20	4.30		2.20	2.50	2.65			0.60	0.85	
12.0		5.45	6.00	5.10		4.50	5.00	5.05		3.15	3.60	3.75		1.75	2.10	2.30				0.65	
13.0		4.55	5.20	4.70		3.75	4.35	4.50		2.60	3.10	3.30		1.35	1.70	1.95					
13.5		4.20	4.85	4.50		3.45	4.05	4.20		2.40	2.90	3.05		1.20	1.55	1.80					
14.0			4.50	4.35			3.75	4.00			2.70	2.90			1.40	1.65					
15.0			3.90	4.05			3.25	3.55			2.30	2.55			1.15	1.40					
16.0			3.45	3.75			2.85	3.20			2.00	2.25			0.95	1.15					
17.0			3.00	3.35			2.50	2.85			1.70	1.95			0.75	1.00					
18.0			2.65	2.95			2.15	2.50			1.45	1.75			0.60	0.80					
19.0			2.35	2.65			1.90	2.20			1.20	1.55				0.65					
20.0			2.05	2.35			1.65	2.00			1.05	1.35				0.50					
20.5			1.95	2.25			1.55	1.85			0.95	1.25									
21.0				2.10				1.75				1.15									
22.0				1.90				1.55				1.00									
24.0				1.50				1.20				0.70									
26.0				1.20				0.95				0.50									
27.9				0.95				0.70													
Standard hook		for 30 ton				for 3	for 30 ton for 30 ton for 3			for 30 ton				for 3	0 ton						
Hook mass		25	0kg			25	Okg			25	0kg		250kg				250kg				
Parts of line	9*/7	6	4	4	9*/7	6	4	4	9*/7	6	4	4	9*/7	6	4	4	7	6	4	4	
Critical boom angle	_	_								_		20°			28°	41°	_	40°	55°	62°	

(Unit : Metric ton)

							30.5	5m I	Зос	m-I	-7.9	9m .	Jib							
	(6.6m)						(6.0m)						(5.0m)							
0	utriggers	fully ex	tended (	360° ful	range)		Outr	riggers ir	ntermedi	ately ext	ended (	over side	)	Outr	iggers ir	ntermedi	ately ext	ended (	over side	:)
Boom	Offs	et 5°	Offse	et 25°	Offse	et 45°	Boom	Offs	et 5°	Offse	et 25°	Offse	et 45°	Boom	Offs	et 5°	Offse	et 25°	Offse	et 45°
angle	Working	Load	Working	Load	Working	Load	angle	Working	Load	Working	Load	Working	Load	angle	Working	Load	Working	Load	Working	Load
(°)	radius (m)	(ton)	radius (m)	(ton)	radius (m)	(ton)	(°)	radius (m)	(ton)	radius (m)	(ton)	radius (m)	(ton)	(°)	radius (m)	(ton)	radius (m)	(ton)	radius (m)	(ton)
83.0	4.5	3.50	7.2	2.40	9.1	1.70	83.0	4.5	3.50	7.2	2.40	9.1	1.70	83.0	4.5	3.50	7.2	2.40	9.1	1.70
75.0	10.5	3.50	12.6	2.40	14.1	1.70	75.0	10.5	3.50	12.6	2.40	14.1	1.70	75.0	10.5	3.50	12.6	2.40	14.1	1.70
73.0	11.9	3.35	13.9	2.40	15.3	1.69	73.0	11.9	3.35	13.9	2.40	15.3	1.69	73.0	11.9	3.35	13.9	2.40	15.3	1.69
71.0	13.2	3.11	15.2	2.32	16.5	1.66	71.0	13.2	3.11	15.3	2.32	16.5	1.66	72.0	12.5	3.23	14.6	2.37	15.9	1.68
69.0	14.5	2.89	16.3	2.19	17.6	1.63	69.0	14.5	2.89	16.3	2.19	17.6	1.63	71.0	13.1	2.98	15.3	2.32	16.5	1.66
65.0	16.9	2.45	18.7	1.94	19.8	1.57	65.0	16.9	2.45	18.7	1.94	19.8	1.57	69.0	14.3	2.55	16.3	2.19	17.6	1.63
61.0	19.2	2.12	20.9	1.73	21.8	1.53	64.0	17.5	2.35	19.3	1.88	20.3	1.56	66.0	16.3	1.92	18.0	1.76	19.3	1.58
58.0	20.8	1.92	22.5	1.60	23.3	1.47	63.0	18.1	2.27	19.8	1.83	20.8	1.55	61.0	18.7	1.35	20.6	1.20	21.7	1.15
55.0	22.4	1.68	24.0	1.49	24.6	1.39	61.0	19.1	2.01	20.9	1.73	21.8	1.53	55.0	21.8	0.81	23.4	0.74	24.3	0.71
54.0	22.8	1.60	24.4	1.46	25.0	1.37	59.0	20.2	1.78	21.9	1.62	22.8	1.50	53.0	22.8	0.67	24.4	0.60	25.1	0.59
50.0	24.8	1.26	26.2	1.16	26.6	1.16	55.0	22.2	1.37	23.7	1.29	24.5	1.25	51.0	23.8	0.53	25.3	0.50	26.0	0.47
46.0	26.6	0.99	27.8	0.93	28.0	0.93	46.0	26.4	0.75	27.7	0.71	27.9	0.71	Standard hook			for 4.	0 ton		
40.0	28.9	0.69	29.8	0.68			45.0	26.8	0.70	28.0	0.67			Hook mass			80	kg		
34.0	31.0	0.46	31.7	0.45			40.0	28.8	0.48	29.8	0.46			Parts of line			-	1		
Standard hook			for 4.	0 ton			Standard hook			for 4.	0 ton			Critical boom angle	4	9°	4	9°	4	9°
Hook mass			80	lkg			Hook mass			80	kg									
Parts of line				1			Parts of line	s of line 1												
Critical boom angle	3	2°	3	2°	4	4°	Critical boom angle	Critical boom angle 38° 38° 44°												
30.5	30.5m Boom+7.9m Jib 30.5m Boom+13.0m Jib																			

# 30.5m Boom+7.9m Jib

(3.8m)
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			-								
Outriggers intermediately extended (over side)											
Boom	Offs	et 5°	Offse	et 25°	Offset 45°						
angle (°)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)					
83.0	4.5	3.50	7.2	2.40	9.1	1.70					
78.0	8.3	3.50	10.6	2.40	12.2	1.70					
76.0	9.6	3.13	11.9	2.40	13.5	1.70					
73.0	11.4	2.31	13.8	1.87	15.3	1.69					
71.0	12.6	1.87	14.9	1.55	16.4	1.41					
67.0	14.9	1.22	17.1	1.03	18.3	0.97					
61.0	18.3	0.56	20.2	0.48	21.3	0.45					
Standard hook for 4.0 ton											
Hook mass	80kg										
Parts of line		1									
Critical boom angle	59° 59° 59°										
611-75102000											

				6.6m)						(6	.0m)		
0	utriggers	s fully ex	tended (	360° ful	ll range)		Out	Outriggers intermediately extended (over side)					
Boom	Offs	et 5°	Offse	et 25°	Offse	et 45°	Boom	Offs	et 5°	Offset 25°		Offset 45°	
angle (°)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	angle (°)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)
83.0	5.6	2.20	10.0	1.25	13.2	0.85	83.0	5.6	2.20	10.0	1.25	13.2	0.85
77.0	10.8	2.20	14.5	1.25	17.2	0.85	77.0	10.8	2.20	14.5	1.25	17.2	0.85
73.0	14.2	2.18	17.4	1.17	19.8	0.85	73.0	14.2	2.18	17.4	1.17	19.8	0.85
71.0	15.6	2.02	18.8	1.12	21.1	0.84	71.0	15.6	2.02	18.8	1.12	21.1	0.84
65.0	19.6	1.61	22.7	1.01	24.5	0.80	65.0	19.6	1.61	22.7	1.01	24.5	0.80
61.0	22.3	1.42	25.1	0.94	26.7	26.7 0.78		22.3	1.42	25.1	0.94	26.7	0.78
60.0	23.0	1.38	25.7	0.93	27.2	0.78	60.0	23.0	1.38	25.7	0.93	27.2	0.78
53.0	27.2	1.19	29.5	0.87	30.4	0.77	58.0	24.2	1.31	26.8	0.91	28.1	0.78
49.0	29.3	0.94	31.4	0.84	32.0	0.77	54.0	26.5	1.01	28.9	0.88	30.0	0.77
47.0	30.3	0.83	32.3	0.76	32.8	0.77	52.0	27.5	0.89	29.9	0.82	30.9	0.77
46.0	30.7	0.78	32.7	0.72	33.1	0.72	50.0	28.5	0.78	30.8	0.72	31.7	0.70
42.0	32.5	0.61	34.2	0.57			46.0	30.6	0.58	32.5	0.55	33.0	0.55
39.0	33.8	33.8 0.49 35.3 0.47 44.0 31.4 0.51 33.3 0.47											
Standard hook			for 4.	0 ton			Standard hook			for 4.	0 ton		
Hook mass	80kg						Hook mass			80	kg		
Parts of line			1				Parts of line	1					
Critical boom angle	le 37° 37° 44°					4°	Critical boom angle	42° 42° 44°					4°

# 30.5m Boom+13.0m Jib

			(5.0	m)			(3.8m)							
Outr	iggers in	termedi	ately ext	ended (	over side	)	Outriggers intermediately extended (over side)							
Boom	Offs	et 5°	Offse	et 25°	Offse	et 45°	Boom	Offs	et 5°	Offse	et 25°	Offset 45°		
angle (°)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	angle (°)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	
83.0	5.6	2.20	10.0	1.25	13.2	0.85	83.0	5.6	2.20	10.0	1.25	13.2	0.85	
77.0	10.8	2.20	14.5	1.25	17.2	0.85	77.0	10.8	2.20	14.5	1.25	17.2	0.85	
73.0	14.2	2.18	17.4	1.17	19.8	0.85	76.0	76.0 11.6 2.20		15.2	1.24	17.8	0.85	
71.0	15.6	2.02	18.8	1.12	21.1	0.84	71.0	15.0	1.47	18.8	1.12	21.1	0.84	
68.0	17.6	1.79	20.7	1.07	22.8	0.82	69.0	16.4	1.17	20.0	0.93	22.2	0.82	
62.0	21.4	1.15	24.5	0.96	26.1	0.79	67.0	17.7	0.93	21.1	0.75	23.3	0.68	
60.0	22.5	0.97	25.5	0.84	27.2	0.78	64.0	19.6	0.64	22.9	0.51	24.8	0.47	
58.0	23.7	0.82	26.6	0.71	28.1	0.68	Standard hook			for 4.	0 ton			
54.0	26.0	0.55	28.6	0.49	29.8	0.48	Hook mass 80kg							
Standard hook			for 4.	0 ton			Parts of line				1			
Hook mass	s 80kg						Critical boom angle	6	2°	6	2°	6	2°	
Parts of line				1										
Critical boom angle	le 52° 52° 52°													

611-75103000

#### ■When the outriggers are not used

	-								-			(U	nit : Metric ton)	
										Ó	);			
		Sta	ationary	on rub	ber		F	Pick & c	arry (le	ss than	2 km/h	)		
Working	9.35m	Boom	16.4m	Boom	23.45n	n Boom	9.35m	Boom	16.4m	Boom	23.45m	1 Boom	Working	
radius (m)	Over front	360° full range	radius (m)											
3.0	13.50	8.10	9.00	6.80			10.00	6.10	6.60	5.10			3.0	
3.5	12.00	6.80	9.00	5.60	6.50	4.50	8.95	5.10	6.60	4.90	5.50	3.20	3.5	
4.0	10.75	5.80	9.00	4.65	6.50	4.45	8.00	4.30	6.60	4.10	5.50	3.20	4.0	
4.5	9.65	5.00	9.00	3.85	6.50	3.80	7.10	3.65	6.60	3.45	5.50	3.20	4.5	
5.0	8.70	4.30	8.20	3.20	6.50	3.25	6.40	3.15	6.00	2.90	5.50	2.95	5.0	
5.5	7.80	3.60	7.40	2.70	6.05	2.80	5.75	2.65	5.40	2.40	5.15	2.55	5.5	
6.0	7.00	3.00	6.60	2.25	5.65	2.45	5.20	2.25	5.00	1.95	4.80	2.20	6.0	
6.5	6.25	2.50	5.90	1.85	5.25	2.10	4.70	1.90	4.45	1.60	4.45	1.90	6.5	
7.0			5.20	1.55	4.85	1.80			3.90	1.30	4.15	1.60	7.0	
8.0			4.00	1.00	4.10	1.30			3.00	0.80	3.45	1.15	8.0	
9.0			3.15	0.60	3.50	0.95			2.40		2.80	0.80	9.0	
10.0			2.50		3.00	0.60			1.80		2.30	0.50	10.0	
11.0			2.00		2.50				1.30		1.90		11.0	
12.0			1.60		2.10				1.00		1.55		12.0	
13.0			1.25		1.75				0.75		1.25		13.0	
14.0					1.45						1.00		14.0	
15.0					1.20						0.75		15.0	
16.0					0.95						0.55		16.0	
17.0					0.75								17.0	
18.0					0.55								18.0	
Standard hook		for 30 ton				for 30 ton						Standard hook		
Hook mass	s 250kg							250kg						
Parts of line			4	4					4	1			Parts of line	
Critical boom angle	_	_		45°	29°	59°	_		_	51°	38°	58°	Critical boom angle	

## Notes for the rated lifting capacity chart

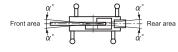
#### When the outriggers are used

- 1. The rated lifting capacity charts are based on the jib stowed on the boom side.
- 2. The rated lifting capacity chart indicates the maximum load which can be lifted by this crane provided it is level and standing on firm level ground. The values in the chart include the mass of the main hook and slings for boom operation, and auxiliary hook and slings for jib operation. [30 ton hook (mass: 250kg), 4 ton hook (mass: 80kg)]

Within the chart the figures in the area bordered with a thick line are based on structural limitations while other figures are determined by stability limitations.

- The working radii are the actual values allowing for boom and jib deflection. Therefore you must always operate the crane on the basis of the working radius.
- 4. The jib working radius is based on the jib mounted on the end of the 30.5m boom. When operating at other boom lengths, use the boom angle alone as the criterion.
- 5. Do not operate the jib when the outriggers are completely retracted.
- The lifting capacities for the over sides vary with the outrigger extension width. Therefore for each outrigger extension condition you should work according the rated lifting capacity chart.

Use the rated lifting capacity chart of outriggers full extended for both front and rear areas lifting capacities.



Outrigger	Intermediate	Intermediate	Intermediate	Full retraction
extension status	extension (6.0m)	extension (5.0m)	extension (3.8m)	
Area α∘	35	30	20	3

7. The rated lifting capacity of the rooster sheave is the rated lifting capacity of the boom minus the mass of all attached hook, slings etc. to the boom, with an upper limit of 4,000kg.

[The hook for use with the rooster sheave is the 4 ton hook (mass: 80kg) with one part of line.]

- If the boom length, boom angle and/or working radius exceeds the rated value, use the rated lifting capacity for the rated value or for the next one, whichever gives the smaller rated lifting capacity.
- 9. If you are working with the boom while the jib is rigged, subtract 2.2 ton plus the mass of all attached hook, slings etc. to the boom from the each rated lifting capacity of the boom, with an upper limit of 14 ton.

Do not use the rooster sheave in this situation. And do not operate the boom while the jib is rigged, when the outriggers are retracted.

- 10. In whatever working conditions the corresponding boom critical angel is shown in the chart. The crane can tip over if the boom is lowered below the critical angle even if unloaded. Therefore, never lower the boom below these angles.
- 11. The standard parts of line for each boom length are as indicated in the chart. If you work with a non-standard number of parts of line, do not exceed 37.2kN (3.8tf) per wire rope respectively.
- 12. Crane operation is permissible up to a wind speed of 10m/s. Even in relatively light wind conditions, extra care should be taken when handling loads presenting large wind catching areas.
- 13. Kato bears no liability whatsoever for damage, crane tipping or other accident caused by crane operations which differ from the directions contained in the instruction manual and the warning labels.

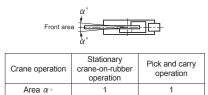
#### When the outriggers are not used

- 1. The rated lifting capacity charts are based on the jib stowed on the boom side.
- 2. The rated lifting capacity chart indicates the maximum load the crane can lift when its body is level on firm level ground with all tires inflated to the rated pressure and the suspension cylinder completely retracted. The values in the chart include the mass of the main hook and slings.

Within the chart the figures in the area bordered with a thick line are based on structural limitations while other figures are determined by stability limitations.

[Rated tire pressure: 900kPa (9.0kgf/cm<sup>2</sup>)]

- 3. The working radii are the actual values allowing for boom deflection. Therefore you must always operate the crane on the basis of the working radius.
- 4. The rated lifting capacity differs between the front area capacity and the full range capacity. When slewing from the front to the side, take care that the crane could not be over loaded.

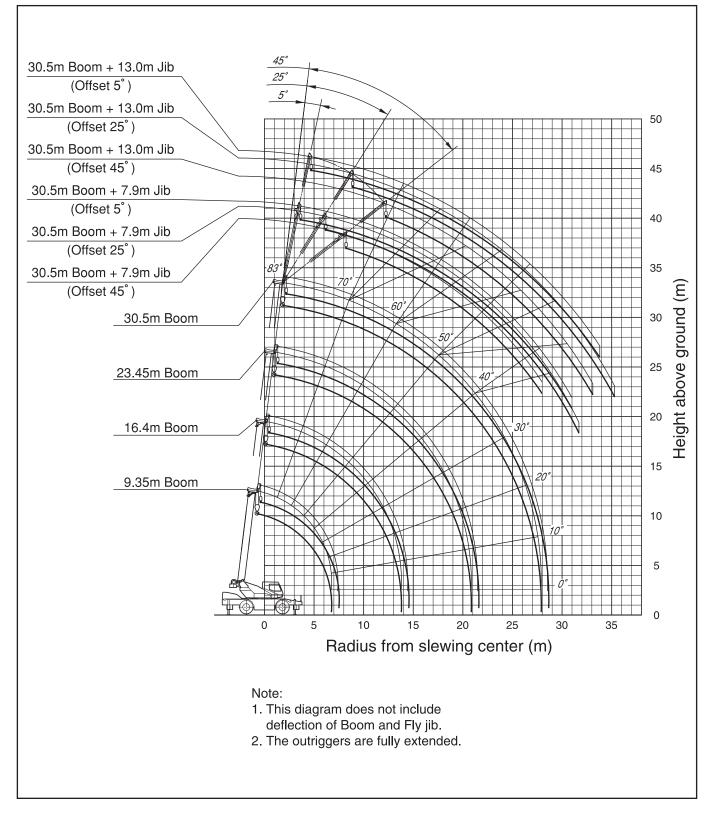


- 5. The rated lifting capacity of the rooster sheave is the rated lifting capacity of the boom minus the mass of all attached hook, slings etc. to the boom, with an upper limit of 4,000kg. [The hook for use with the rooster shave is the 4 ton hook (mass: 80kg) with one part of line.]
- 6. Do not work with the jib or with a boom length of more than 23.45m.
- For stationary crane-on-rubber operation, the parking brake and service brake lock device must be engaged.
- 8. For pick and carry operation, the super-slow speed switch must be switched to "ON" and the shift lever set to speed 1.
- For pick and carry operation, lower the load to just above the ground and keep your speed strictly below 2km/h to avoid swinging the load.

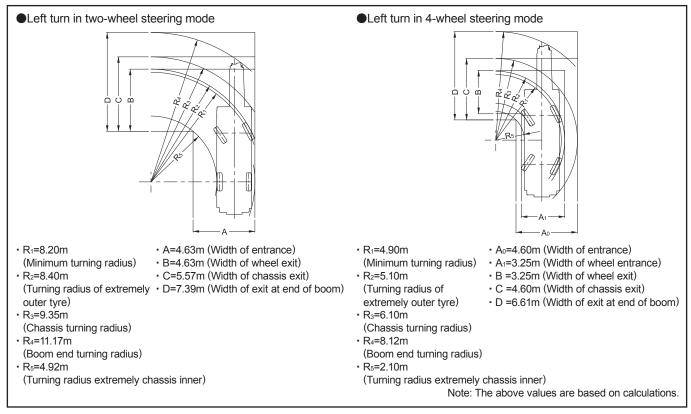
Take particular care to avoid sharp turns, sudden starts and stops.

- 10. Never operate the crane during pick and carry operation. The slewing brake must be applied.
- 11. If the boom length or working radius exceeds the rated value, use the rated lifting capacity for the rated value or for the next one, whichever gives the smaller rated lifting capacity.
- 12. In whatever working conditions the corresponding boom critical angel is shown in the chart. The crane can tip over if the boom is lowered below the critical angle even if unloaded. Therefore, never lower the boom below these angles.
- 13. The standard parts of line for each boom length are as indicated in the chart. If you work with a non-standard number of parts of line, do not exceed 37.2kN (3.8tf) per wire rope respectively.
- 14. Crane operation is permissible up to a wind speed of 10m/s. Even in relatively light wind conditions, extra care should be taken when handling loads presenting large wind catching areas.
- 15. Kato bears no liability whatsoever for damage, crane tipping or other accident caused by crane operations which differ from the directions contained in the instruction manual and the warning labels.

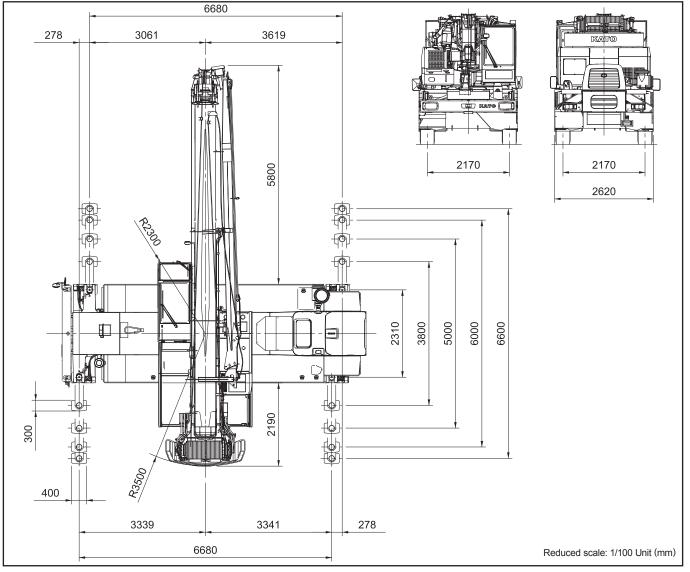
## WORKING RANGE



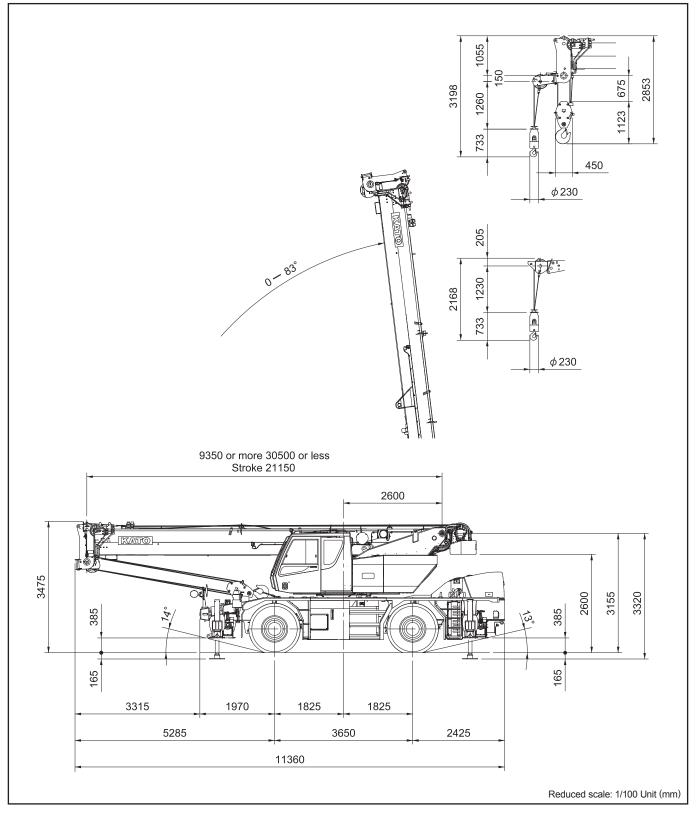
## Minimum path width



### Overall view



## Overall view



\* KATO products and specifications are subject to improvements and changes without notice.

Address inquiries to:



#### KATO WORKS CO.,LTD.

9-37, Higashi-ohi 1-chome, Shinagawa-ku, Tokyo, 140-0011, Japan : Head Office Tel. Tokyo (03) 3458-1111 Tokyo (03) 3458-1115

Overseas Marketing Department. : Tokyo (03) 3458-1152 Fax.

URL http://www.kato-works.co.jp



We acquired the "ISO 9001" certification which is an international standard for quality assurance.

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