

SR-300L **ROUGH TERRAIN CRANE**

[SPECIFICATION]

		LOI LO							
■ CRANE	Speci	fication							
Maximum rated									
capacity		30ton×3m							
Boom length		9.35m — 30.5m (4 section)							
Fly jib length		7.9m — 13.0m (2 section, offset 5° ,25° ,45°)							
Maximum rated	lifting	31.2m (Boom)							
height		44.8m (jib)							
Hoisting line speed	Main winch	125m / min. (at 4th layer)							
(winch up)	Auxiliary winch	116m / min. (at 3rd layer)							
Hoisting hook speed	Main winch	(Parts of line; 9): 13.8m / min. (at 4th layer)							
(winch up)	Auxiliary winch	(Parts of line; 1): 116m / min. (at 3rd layer)							
Boom derricking	g angle	0° — 83°							
Boom derricking	g time	40s / 0° — 83°							
Boom extendin	g speed	9.35m — 30.5m / 93s							
Slewing speed		2.9min ⁻¹							
Tail slewing rad	lius	3,500mm							
Equipmen	t and str	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	g/lowering	One hydraulic cylinder of direct acting type with pressure- compensated flow control valve							
Winch system Main & Auxiliar	y winches	Driven by axial plunger type hoisting motor through planetary gear 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	Futoncion	6,000mm (Intermediately extended)							
o da i ggoro	Extension	5,000mm (Intermediately extended)							
	width	3,800mm (Intermediately extended)							
		2,310mm (Fully retracted)							
\\/ina rana far	Main winch	Diameter: 16mm×Length: 175m							
Wire rope for hoisting	Auxiliary	Diameter: 16mm×Length: 95m							
Hydraulic		nt							
Oil pump	cquipino								
	Hoisting motor	4 pumps, plunger and gear type Axial plunger type							
Hydraulic motor	Slewing	Axial plunger type							
Control valve	motor	Double acting with integral check and relief valves							
Cylinder		Double acting type							
Oil reservoir ca	nacity	500L							
		3002							
●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	nt							
		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 ma							
Optional e	quipmen								
5 - paoriai 6	4	Winch over unwinding device, Winch drum mirror (Hoist mirror), Cab heater, Cab cooler, Fan, AM/FM Radio, Fire extinguisher, Smoke torch							

AIIOIN	4	
■CARRIE	R Spe	ecification
Maximum trave		49km/h
Grade ability (ta		57% (computed at G.V.W. = 26990kg)
Minimum turnin	g radius	8.2m (2 wheel steer)
(center of extrem		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 ⁻¹
Max. torque		785N⋅m at 1,400min ⁻¹
		mendation only
●Equipmen	t and stru	ucture
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 on 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 capad	city	300 L
Batteries		(12V-120AH) ×2
●Safety dev	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
Standard	equipmer	nt
		Centralized lubricating system
Optional e	quipmen	t
		Yellow rev. light
GENER	AL Din	nensions
Overall length		11,360mm
Overall width		2,620mm
Overall height		3,475mm
Wheel base		3,650mm
Treads	Front	2,170mm
	Rear	2,170mm
Passenger cap	Gross	One person approx. 26,990kg
Gross vehicle	weight Front	approx. 13,000kg
mass	weight Rear	approx. 13,990kg
Stow the hor	weight oks in place	e before traveling.

Stow the hooks in place before traveling.
Before you use this machine, read the precautions in the instruction manual thoroughly to operate it correctly.

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



■RATED LIFTING CAPACITY -

Based on ISO 4305

9.35m — 30.5m Boom

			<u> </u>				<u>1</u>			<u></u>	1			<u>></u>	1		1			
		(6.6	Sm)			(6.0)m)			(5.0)m)			(3.8)	3m)		(blocke	ed on va	rtical cyli	inders)
			Illy exte	nded			termedi				termed		Outriggers intermediately				Outriggers completely			
Working radius (m)	_	full rar	<u> </u>				er side		extended (over side) 9.35m 16.4m 23.45m 30.5m			extended (over side)				retracted (over side)				
radius (III)	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	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	Boom	30.00*	19.00	12.50	DOOM	30.00*	19.00	12.50	DOOM	30.00*	19.00	12.50	DOOM	12.00	10.35	9.10	DOOM
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 2.65		0.55	0.90	1.15
11.0 12.0		6.50 5.45	6.90	5.60 5.10		5.35 4.50	5.75 5.00	5.60 5.05		3.85	4.20 3.60	4.30 3.75		2.20 1.75	2.50	2.65			0.60	0.85
13.0		4.55	5.20	4.70		3.75	4.35	4.50		2.60	3.10	3.75		1.75	1.70	1.95				0.05
13.5		4.20	4.85	4.70		3.45	4.05	4.20		2.40	2.90	3.05		1.20	1.55	1.80				
14.0		4.20	4.50	4.35		3.43	3.75	4.00		2.40	2.70	2.90		1.20	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												<u> </u>
Standard hook	for 30 ton for 30 ton					for 3	0 ton			for 3	0 ton			for 3	0 ton					
Hook mass		250	Dkq			250kg 250kg			Oka			250)ka			250	0kg			
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	sm E	30c	m- l	-7.9	9m .	Jib							
				6.6m)				(6.0m)						m)						
													Ī							
0	Outriggers fully extended (360° full range) Outriggers intermediately extended (over side)									Out	riggers ir	termedi	iately 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	ok for 4.0 ton						Critical boom angle	4	9°	4	9°	49	9°
Hook mass			80	kg			Hook mass	80kg												
Parts of line				1			Parts of line	line 1												
Critical boom angle	32	2°	3	2°	4	4°	Critical boom angle	Critical boom angle 38° 38° 44°												

30.5m Boom+7.9m Jib

	(3.8m)										
Outriggers intermediately extended (over side)											
Boom Offset 5° Offset 25° Offset 45°											
angle Working Load Working Load Working Load											
(°)	radius (m)	(ton)	radius (m)	(ton)	radius (m)	(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	9°	59	9°	59	9°					

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30.5m Boom+13.0m Jib

		_		6.6m)					_	(6.	.0m)		
0	utriggers	fully ex	tended (360° ful	I range)		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	0.78	61.0	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	0.49	35.3	0.47			44.0	31.4	0.51	33.3	0.47		
Standard hook	dard hook for 4.0 ton									for 4.	0 ton		
Hook mass	look mass 80kg									80	kg		
Parts of line			1				Parts of line			1			
Critical boom angle	om angle 37° 37° 44° Critical boom angle 42° 42°							2°	44°				

30.5m Boom + 13.0m Jib

		<u> </u>	(5.0r	m)				\supseteq	(3.8m	1)			
Out	riggers in	termedi	ately ext	ended (d	over side	2)	Outriggers intermediately extended (over side)						
Boom	Boom	Offs	et 5°	Offse	et 25°	Offse	et 45°						
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)
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	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	hook for 4.0 ton					
54.0	26.0	0.55	28.6	0.49	29.8	0.48	Hook mass	80kg					
Standard hook	lard hook for 4.0 ton									1	l		
Hook mass 80kg							Critical boom angle	6:	2°	62	2°	6:	2°
Parts of line			1	I									
Critical boom angle	52	2°	5	2°	5	2°	1						

611-75103000



■When the outriggers are not used

(Unit : Metric ton)

												(U	nit : Metric ton)	
		1					00							
		Sta	ationary	on rub	ber		ı	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	23.45n	n Boom	Working	
radius (m)	Over front	360° full range	Over front	360° full range	Over front	360° full range	Over front	360° full range	Over front	360° full range	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 3	0 ton					for 3	0 ton			Standard hook	
Hook mass			250	Okg				Hook mass						
Parts of line			4	1			4						Parts of line	
Critical boom angle	_	_	_	45°	29°	59°	_	_	_	51°	38°	58°	Critical boom angle	

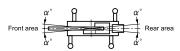


■Notes for the rated lifting capacity chart

■When the outriggers are used

- 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.
- 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.

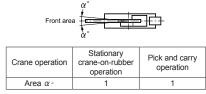


	ıtrigger sion status	Intermediate extension (6.0m)	Intermediate extension (5.0m)	Intermediate extension (3.8m)	Full retraction
Ar	ea α∘	35	30	20	3

- 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.
- 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

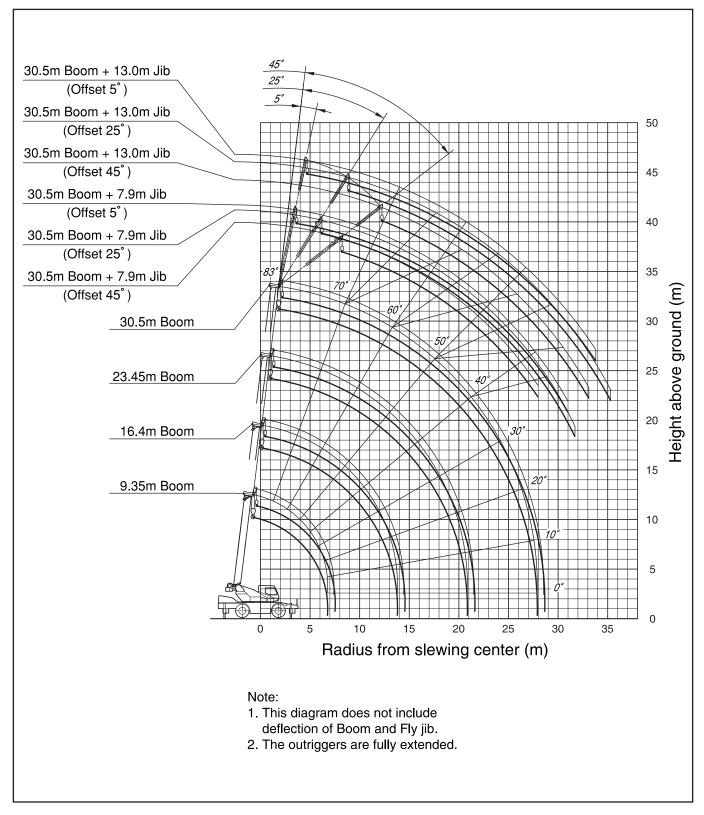
- The rated lifting capacity charts are based on the jib stowed on the boom side.
- 2. The rated lifting capacity chart indicates the maximum load the crane can lift when its body is level on firm level ground with all tires inflated to the rated pressure and the suspension cylinder completely retracted. 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/cm²)]
- 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.
- 7. 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.
- 9. 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
- 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.



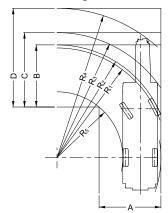
■WORKING RANGE





■Minimum path width

Left turn in two-wheel steering mode



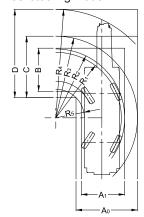
- A=4.63m (Width of entrance)

- B=4.63m (Width of wheel exit)

- C=5.57m (Width of chassis exit)

- R₁=8.20m
- (Minimum turning radius)
- R₂=8.40m (Turning radius of extremely \cdot D=7.39m (Width of exit at end of boom) outer tyre)
- R₃=9.35m
- (Chassis turning radius)
- R₄=11.17m
- (Boom end turning radius)
- (Turning radius extremely chassis inner)

●Left turn in 4-wheel steering mode



- R₁=4.90m
- (Minimum turning radius)
- R₂=5.10m (Turning radius of extremely outer tyre)
- R₃=6.10m (Chassis turning radius)
- R₄=8.12m
- (Boom end turning radius) • R₅=2.10m
- (Turning radius extremely chassis inner)

Note: The above values are based on calculations.

- A₀=4.60m (Width of entrance)

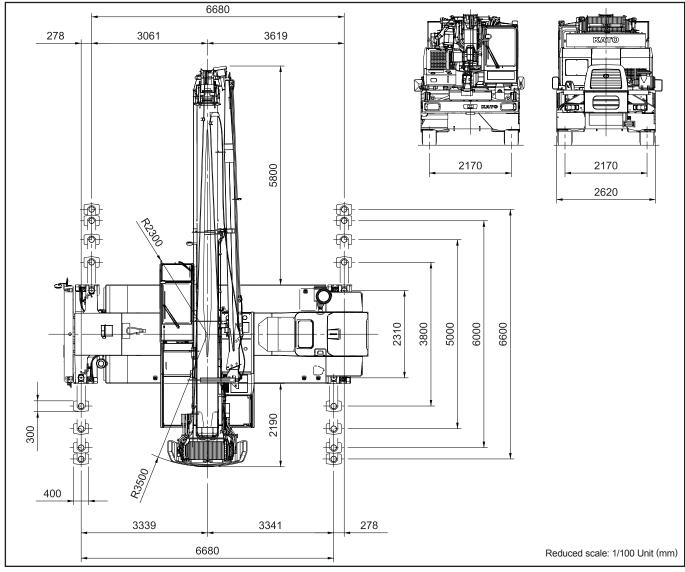
- B =3.25m (Width of wheel exit)

- C =4.60m (Width of chassis exit)

- A₁=3.25m (Width of wheel entrance)

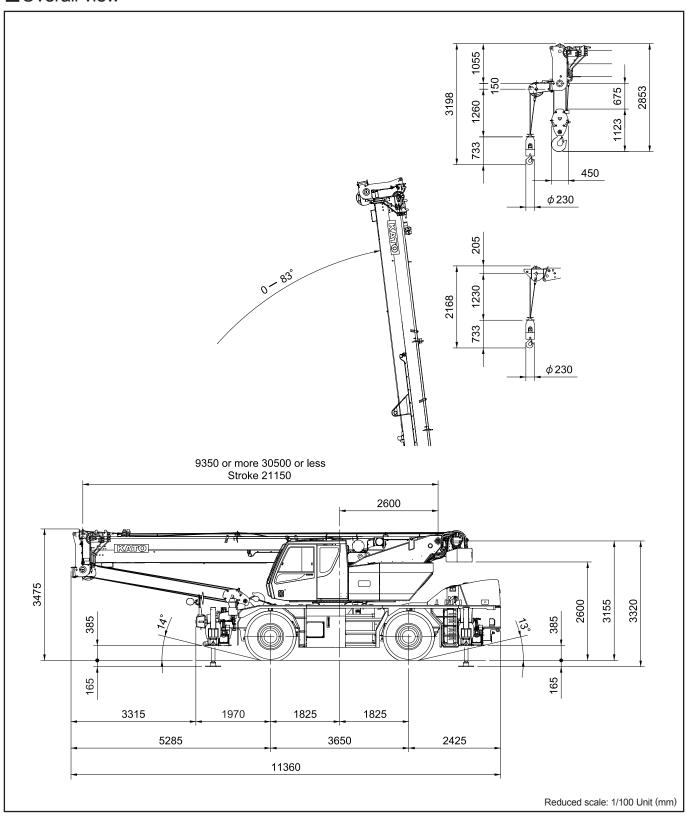
• D =6.61m (Width of exit at end of boom)

■Overall view





■Overall view •



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

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