

# **SUPERBOOM**

# SR-250R **ROUGH TERRAIN CRANE**



## **[SPECIFICATION]**

Description		Pough torroin group with marriage lifting and although										
<b>-1</b> (''rono (	Propification	Rough terrain crane with maximum lifting capacity 25 ton										
Ociane v	Specification	9.35 m Boom   25,000kg × 3.5m (Parts of line : 7)										
		16.4 m Boom 19,000kg × 4.0m (Parts of line : 6)										
		23.45 m Boom										
Maximum ra	ited lifting	30.5 m Boom 8,000kg × 7.5m (Parts of line : 4)										
capacity		8.7 m Jib 3,300kg × 75° (Parts of line : 1)										
		13.1 m Jib 2,100kg × 73° (Parts of line : 1)										
		Rooster 4,000kg (Parts of line : 1)										
Boom length		9.35m — 30.5m										
Fly jib length		8.7m — 13.1m										
Maximum ra height	ited lifting	31.2m (Boom)										
Hoisting	Main winds	44.8m (jib)										
line speed	Main winch	125m / min. (at 4th layer)										
(winch up)	Auxiliary winch											
Hoisting hook speed	Main winch	(Parts of line; 7): 17.8m / min. (at 4th layer)										
(winch up)	Auxiliary winch	(Parts of line; 1): 125.0m / min. (at 4th layer)										
High-speed	Main winch	Defended and the width are leaded at 400mg (and 4th leaves)										
lowering Rope speed	Auxiliary winch	Reference value with no load at 163m / min. (at 4th layer)										
Boom derric		0° — 83°										
Boom derric		40s / 0° — 83°										
Boom exten	ding speed	9.35 — 30.5m / 93s										
Slewing spe	ed	2.9min <sup>-1</sup>										
Tail slewing	radius	3,100mm										
■Equipm	ent and stru	ucture										
Boom type		Box-shaped, 4-section hydraulically telescopic type										
Doon type		(Boom section 3 / 4 simultaneously operated)										
Jib type		2 sections (2nd section of draw-out type)										
Boom exten	sion/	Hydraulic stepless tilting type (offset angles 5° — 60°)										
retraction ed		Two hydraulic cylinders and wire ropes used together										
	king/lowering	One hydraulic cylinder of direct acting type with pressure-										
equipment		compensated flow control valve										
Winch syste Main & Auxi	m liary winches	Two units of Single winch Equipped with Hydraulic motor drive and Planetary gear speed reducer (built-in negative brake), High/Low speed switching systen and Hydraulic compensated flow control valve.										
Slewing equ	ipment	Equipped with Hydraulic motor drive and a planetary gear speed										
Slewing bea		reducer (built-in negative brake) Free/Lock change-over model  Ball bearing type										
Ole Willig Dea	Туре	Hydraulic H-beam type (with float and vertical cylinder in single unit)										
	.,,,,,	6,600mm (Fully extended)										
		6,000mm (Intermediately extended)										
Outriggers	Extension	5,000mm (Intermediately extended)										
Outriggers	width	5,000mm (Intermediately extended) 3,800mm (Intermediately extended)										
Outriggers												
Wire rope	width  Main winch	3,800mm (Intermediately extended)										
Wire rope	width  Main winch	3,800mm (Intermediately extended) 2,310mm (Fully retracted) Diameter: 16mm×Length: 175m										
Wire rope for hoisting  Hydrau	width  Main winch	3,800mm (Intermediately extended) 2,310mm (Fully retracted) Diameter: 16mm × Length: 175m Diameter: 16mm × Length: 95m										
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CARRIE	R	
●Carrier Sp		n
Maximum trave		49km/h
Grade ability	g -p	$0.60 \text{ (tan } \theta)$
Minimum turnin	g radius	8.2m (2 wheel steer)
(center of extrem	e outer tire)	4.9m (4 wheel steer)
Engine		
Model		Mitsubishi 6M60-TLE3A (with Intercooled turbocharger)
Type		4 cycle, 6 cylinders, water cooled, direct injection turbo-charged
Piston displace	ment	diesel engine with intercooling 7.545L
Max. power	ment	200kW at 2.600min <sup>-1</sup>
Max. torque		785N·m at 1,400min <sup>-1</sup>
●Equipmen	t and stru	
Drive system		Switches between 2 wheel drive (4x2) and 4 wheel drive (4x4)
Torque convert	or	Engine mounted 3 elements
	GI	1 stage (with lock up clutch)
Transmission		Remote mounted full automatic
Number of spe	eds	4 forward & 1 reverse speed (with HI - Low selector)
Avles	Front	Full floating type, with a two-stage reduction gear
Axles	Rear	Full floating type, with a two-stage reduction gear
Suspension	Front	Taper - leaf spring (hydraulic locking device with shock absorber)
Сиореноюн	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
	Austian	Exhaust brake (electronically controlled torque convertor interlocking
	Auxiliary	Eddy current type retarder, Auxiliary braking unit for working
	Model	All hydraulic power steering with reverse steering correction system
Steering	Mode	Front 2 wheel steering, counter steering, crab steering, rear 2 wheel steering, independent front and rear wheel steering (5 modes) (with automatic rear steering lock system)
Tina aima	Front	385 / 95 R25 170E ROAD
Tire size	Rear	385 / 95 R25 170E ROAD
Fuel tank capa	city	300 L
Batteries		(12V-120AH) ×2
Safety de	vices	
		Emergency steering device, Rear wheel steering lock system (automatic), Miss-shifting prevention system, Brake fluid leak warning device, Service brake lock, Suspension lock, Engine overspeed alarm, Radiator coolant level warning device, Electrically stowed side mirrors, Mirror on the right side of the boom, Rearview camera and color monitor, Air filter service warning device
Standard	equipmer	nt
		Centralized lubricating system
Optional e	quipmen	
		Right side view camera, Left side view camera, Wheel stopper, Way side lamp, Side marker lamp
■GENER	AL Din	nensions
Overall length		11,565mm
Overall width		2,620mm
Overall height Wheel base		3,475mm 3,650mm
VVIICCI DASE	Front	3,650mm 2,170mm
Treads	Rear	2,170mm
Passenger cap		One person
3	Gross weight	approx. 26,495kg
Gross vehicle mass	Front weight	approx. 13,180kg
	Rear weight	approx. 13,315kg
Stow the hor	oks in place	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.

# 9.35m — 30.5m Boom

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		(6.6	6m)			(6.0	Om)			(5.0	Om)			(3.8)	3m)		(2.31m)					
Working		ggers fu full rar	ully exte	nded			termedi /er side)				termedi er side				termed er side		Outriggers completely retracted (over side)					
radius (m)	9.35m	16.4m	23.45m		9.35m		23.45m	30.5m	9.35m		23.45m	30.5m	9.35m	16.4m	23.45m		9.35m	16.4m	23.45m	30.5m		
2.5	Boom 25.00	Boom 19.00	Boom 12.50	Boom	Boom 25.00	Boom 19.00	Boom 12.50	Boom	Boom 25.00	Boom 19.00	Boom 12.50	Boom	Boom 25.00	Boom 19.00	Boom 12.50	Boom	Boom 12.00	Boom 11.60	Boom 9.20	Boom		
3.0	25.00	19.00	12.50		25.00	19.00	12.50		25.00	19.00	12.50		25.00	19.00	12.50		12.00	11.60	9.20	$\overline{}$		
3.5	25.00	19.00	12.50	8.00	25.00	19.00	12.50	8.00	25.00	19.00	12.50	8.00	22.20	19.00	12.50	8.00	9.20	9.10	8.80	5.50		
4.0	23.00	19.00	12.50	8.00	23.00	19.00	12.50	8.00	23.00	19.00	12.50	8.00	16.50	15.90	12.50	8.00	7.25	7.10	7.40	5.50		
4.5	21.20	18.15	12.50	8.00	21.20	18.15	12.50	8.00	21.20	18.15	12.50	8.00	12.95	12.80	12.50	8.00	5.85	5.75	6.25	5.20		
5.0	19.40	17.00	12.50	8.00	19.40	17.00	12.50	8.00	17.90	17.00	12.50	8.00	10.55	10.40	10.80	8.00	4.80	4.70	5.40	4.55		
5.5	17.80	16.00	12.50	8.00	17.80	16.00	12.50	8.00	14.60	14.35	12.50	8.00	8.80	8.60	9.40	8.00	4.05	3.90	4.55	4.00		
6.0	16.30	15.05	12.20	8.00	16.30	15.05	12.20	8.00	12.20	12.00	12.20	8.00	7.45	7.30	8.05	7.95	3.40	3.25	3.90	3.55		
6.5	15.10	14.25	11.50	8.00	15.10	14.25	11.50	8.00	10.40	10.20	11.05	8.00	6.45	6.25	6.95	7.10	2.90	2.75	3.35	3.15		
7.0		13.45	10.80	8.00		12.25	10.80	8.00		8.80	9.60	8.00		5.40	6.10	6.40		2.30	2.90	2.80		
7.5		12.70	10.20	8.00		10.60	10.20	8.00		7.70	8.45	8.00		4.70	5.35	5.70		1.95	2.50	2.45		
8.0		11.10	9.60	7.60		9.30	9.60	7.60		6.75	7.50	7.60		4.10	4.75	5.10		1.60	2.20	2.20		
9.0		8.75	8.60	6.90		7.35	8.10	6.90		5.35	6.05	6.35		3.20	3.80	4.10		1.00	1.65	1.70		
10.0		7.10	7.70	6.25		5.95	6.65	6.25		4.30	4.95	5.25		2.50	3.10	3.40		0.50	1.20	1.35		
11.0		5.80	6.50	5.70		4.90	5.55	5.70		3.50	4.15	4.45		1.95	2.55	2.80			0.80	1.00		
12.0		4.85	5.50	5.20		4.10	4.75	5.00		2.85	3.50	3.75		1.45	2.10	2.35						
13.0		4.10	4.70	4.80		3.40	4.05	4.35		2.30	2.95	3.25		1.05	1.70	1.95						
13.5		3.75	4.40	4.60		3.10	3.75	4.05		2.05	2.70	3.00		0.85	1.50	1.80						
14.0			4.05	4.35			3.50	3.75			2.45	2.75			1.35	1.65						
15.0			3.55	3.80			3.00	3.30			2.10	2.35			1.05	1.35						
16.0			3.10	3.35			2.60	2.90			1.75	2.05			0.80	1.10						
17.0			2.70	2.95			2.25	2.55			1.45	1.75			0.55	0.85				$\overline{}$		
18.0			2.35	2.60			1.95	2.20			1.20	1.50				0.65				$\vdash$		
19.0			2.05	2.30			1.65	1.95			1.00	1.25				0.45						
20.0			1.75	2.05			1.45	1.70			0.80	1.10										
20.5			1.65	1.90			1.35	1.60			0.70	1.00										
21.0				1.80 1.60				1.50 1.30				0.90										
24.0				1.60				0.95				0.70										
24.0				0.95				0.95														
26.0				0.95				0.70												$\overline{}$		
Critical boom angle	_	_	_	-	_	_	_		_	_	_	35°	_	_	34°	46°	_	41°	56°	65°		
Standard hook		for 2	5 ton	I		for 2	5 ton			for 2	5 ton		for 25 ton			I	for 25 ton					
Hook mass		220	0kg			220	Okg			220	Okg		220kg				220kg					
Parts of line	7	6	4	4	7	6	4	4	7	6	4	4	7	6	4	4	7	6	4	4		

(Unit : Metric ton)



## 30.5m Boom + 8.7m Jib

	(6.6m)								(6.0m)									(5.0m)								
0	Outriggers fully extended (360° full range)									riggers	interr	nediat	ely ext	ended	(over	side)		Outriggers intermediately extended (over side)						side)		
Boom	Offs		Offse		Offse		Offse		Boom	Offs	et 5°		et 25°	Offse	et 45°	Offse	et 60°	Boom	Offs	et 5°		et 25°	Offse		Offse	et 60°
angle (°)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	angle (°)	Working radius (m)	Load (ton)	angle (°)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)						
83	4.9	3.30	7.4	2.30	9.2	1.60	9.8	1.05	83	4.9	3.30	7.4	2.30	9.2	1.60	9.8	1.05	83	4.9	3.30	7.4	2.30	9.2	1.60	9.8	1.05
75	10.9	3.30	13.0	2.30	14.2	1.53	14.4	1.05	75	10.9	3.30	13.0	2.30	14.2	1.53	14.4	1.05	75	10.9	3.30	13.0	2.30	14.2	1.53	14.4	1.05
73	12.3	3.25	14.3	2.28	15.4	1.49	15.5	1.05	73	12.3	3.25	14.3	2.28	15.4	1.49	15.5	1.05	73	12.3	3.25	14.3	2.28	15.4	1.49	15.5	1.05
71	13.6	2.93	15.5	2.14	16.5	1.45	16.6	1.04	71	13.6	2.93	15.5	2.14	16.5	1.45	16.6	1.04	71	13.6	2.93	15.5	2.14	16.5	1.45	16.6	1.04
69	14.9	2.65	16.7	1.99	17.6	1.43	17.7	1.04	69	14.9	2.65	16.7	1.99	17.6	1.43	17.7	1.04	69	14.9	2.46	16.7	1.99	17.6	1.43	17.7	1.04
65	17.4	2.23	19.0	1.76	19.7	1.37	19.7	1.04	65	17.4	2.23	19.0	1.76	19.7	1.37	19.7	1.04	68	15.4	2.27	17.3	1.93	18.1	1.41	18.2	1.04
62	19.1	1.99	20.6	1.62	21.3	1.34	21.0	1.04	62	19.1	1.92	20.6	1.62	21.3	1.34	21.0	1.04	64	17.6	1.60	19.4	1.40	20.3	1.33	20.2	1.04
58	21.3	1.72	22.7	1.46	23.2	1.31			60	20.2	1.65	21.7	1.51	22.2	1.33			62	18.7	1.33	20.4	1.19	21.2	1.14	21.0	1.04
56	22.4	1.48	23.8	1.37	24.2	1.27			58	21.2	1.43	22.7	1.31	23.2	1.30			61	19.8	1.10	21.4	0.99	22.1	0.97		
55	22.9	1.39	24.2	1.30	24.6	1.27			55	22.7	1.14	24.1	1.06	24.5	1.05			55	22.4	0.62	23.9	0.55	24.3	0.55		
50	25.3	0.98	26.5	0.91	26.5	0.91			50	25.1	0.75	26.3	0.70	26.5	0.70			53	23.3	0.48	24.9	0.40	25.1	0.40		
46	27.0	0.71	28.0	0.68	28.0	0.68			46	26.9	0.49	27.9	0.46	27.9	0.46			Critical boom angle	52	2°	5	2°	52	2°	6	1°
45	27.4	0.65	28.4	0.62					45	27.4	0.42	28.3	0.41					Standard hook				for 4	ton			
40	29.5	0.38	30.4	0.35					Critical boom angle	4.	4°	4.	4°	43	5°	6	1°	Hook mass				60	kg			
Critical boom angle	35	9°	35	9°	43	5°	6	1°	Standard hook				for 4	ton				Parts of line	9							
Standard hook for 4 ton							Hook mass	ass 60kg																		
Hook mass 60kg							Parts of line	<u> </u>																		



# 30.5m Boom+8.7m Jib

Parts of line

# 30.5m Boom + 13.1m Jib

	Outriggers intermediately extended (over side)								(6.6m)									(6.0m)								
Out	riggers	interr	nediat	ely ext	tended	l (over	side)		0	utrigge	ers full	y exte	nded (	360° f	ull ran	ge)		Out	riggers	interr	nediat	ely ex	tended	l (over	side)	
Boom	Offs			et 25°	Offse	et 45°	Offse	et 60°	Boom	Offs	et 5°	Offse	et 25°	Offse	et 45°	Offse	et 60°	Boom			Offset 25°		Offse			et 60°
angle (°)	Working radius (m)	Load (ton)	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)	Working radius (m)	Load (ton)	angle (°)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)
83	4.9	3.30	7.4	2.30	9.2	1.60	9.8	1.05	83	5.8	2.10	9.8	1.25	12.8	0.85	14.0	0.65	83	5.8	2.10	9.8	1.25	12.8	0.85	14.0	0.65
76	10.2	3.30	12.3	2.30	13.6	1.55	13.9	1.05	77	11.0	2.10	14.4	1.25	16.8	0.85	17.6	0.65	77	11.0	2.10	14.4	1.25	16.8	0.85	17.6	0.65
75	10.9	2.96	13.0	2.30	14.2	1.53	14.4	1.05	73	14.2	2.10	17.3	1.20	19.3	0.85	20.0	0.65	73	14.2	2.10	17.3	1.20	19.3	0.85	20.0	0.65
71	13.2	1.96	15.2	1.63	16.5	1.45	16.6	1.04	71	15.7	2.03	18.7	1.15	20.5	0.85	21.0	0.64	71	15.7	2.03	18.7	1.15	20.5	0.85	21.0	0.64
68	14.9	1.40	16.9	1.17	18.0	1.09	18.2	1.04	65	19.9	1.62	22.5	1.03	24.0	0.83	24.1	0.63	65	19.9	1.62	22.5	1.03	24.0	0.83	24.1	0.63
65	16.6	0.97	18.5	0.82	19.4	0.79	19.6	0.78	62	21.8	1.48	24.3	0.99	25.5	0.81	25.7	0.63	62	21.8	1.48	24.3	0.99	25.5	0.81	25.7	0.63
62	18.3	0.59	20.2	0.48	20.9	0.48	20.9	0.48	60	23.1	1.38	25.5	0.96	26.6	0.80			60	23.1	1.37	25.5	0.96	26.6	0.80		
Critical boom angle	6	1°	6	1°	6	1°	6	1°	55	26.1	1.15	28.3	0.91	29.0	0.79			59	23.7	1.27	26.1	0.94	27.1	0.80		
Standard hook				for 4	l ton				53	27.2	1.00	29.3	0.89	29.9	0.79			57	24.9	1.09	27.2	0.92	28.0	0.80		
Hook mass				60	kg				51	28.2	0.87	30.2	0.80	30.6	0.79			55	26.1	0.92	28.3	0.84	29.0	0.79		
Parts of line				1	1				46	30.6	0.58	32.3	0.54	32.4	0.54			50	28.7	0.59	30.6	0.54	31.0	0.53		
511-743020	511-74302002									31.1	0.52	32.7	0.49					48	29.7	0.48	31.5	0.44	31.7	0.44		
									43	32.0	0.43	33.5	0.41					Critical boom angle	47	7°	4	7°	4.	7°	6	1°
									Critical boom angle	gle 42° 42° 45° 61°						Standard hook				for 4	1 ton					
									Standard hook for 4 ton							Hook mass				60	kg					
									Hook mass				60	kg				Parts of line					1			
Parts of line 1																										

## 30.5m Boom + 13.1m Jib

		-		(5.0	m)				(3.8m)									
Out	riggers	interr	nediate	ely ext	ended	(over	side)		Outriggers intermediately extended (over side)									
Boom	Offs	et 5°	Offse	et 25°	Offse	et 45°	Offse	et 60°	Boom	Offs	et 5°	Offse	et 25°	Offse	et 45°	45° Offset 60		
angle (°)	Working radius (m)	Load (ton)	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)	Working radius (m)	Load (ton)	
83	5.8	2.10	9.8	1.25	12.8	0.85	14.0	0.65	83	5.8	2.10	9.8	1.25	12.8	0.85	14.0	0.65	
77	11.0	2.10	14.4	1.25	16.8	0.85	17.6	0.65	77	11.0	2.10	14.4	1.25	16.8	0.85	17.6	0.65	
73	14.2	2.10	17.3	1.20	19.3	0.85	20.0	0.65	74	13.4	2.10	16.6	1.23	18.7	0.85	19.4	0.65	
71	15.7	2.03	18.7	1.15	20.5	0.85	21.0	0.64	71	15.4	1.62	18.7	1.15	20.5	0.85	21.0	0.64	
67	18.5	1.72	21.3	1.07	22.9	0.84	23.1	0.63	69	16.6	1.32	19.9	0.98	21.7	0.85	22.1	0.64	
63	21.0	1.21	23.7	1.00	25.1	0.81	25.1	0.63	66	18.5	0.93	21.5	0.71	23.5	0.61	23.6	0.61	
62	21.5	1.12	24.3	0.96	25.5	0.81	25.7	0.63	64	19.7	0.72	22.6	0.54	24.5	0.45	24.6	0.45	
60	22.7	0.93	25.4	0.80	26.6	0.73			Critical boom angle	6.	3°	6.	3°	6.	3°	6.	3°	
55	25.5	0.54	27.9	0.47	29.0	0.39			Standard hook for 4 ton									
Critical boom angle	54	4°	54	4°	54	4°	6	1°	" Hook mass 60kg									
Standard hook for 4 ton									Parts of line					1				
Hook mass 60kg																		
Parts of line 1																		

511-74302002

## ■When the outriggers are not used

Based on ISO 4305 Not exceed 75% of static tipping loads

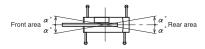
		ŀ								00	<u>)</u>		s apparig loads	
		Sta	ationary	on rubl	ber		F	Pick & c	arry (le	ss than	2 km/h	)		
Working	9.35m	Boom	16.4m	Boom	23.45m	Boom	9.35m	Boom	16.4m	Boom	23.45m	Boom	Working	
radius (m)	Over front	360° full range	Over front	360° full range	Over front	360° full range	Over front	360° full range	Over front	360° full range	Over front	360° full range	radius (m)	
3.0	13.50	8.10	9.00	7.30			10.00	6.10	6.60	5.10			3.0	
3.5	12.00	6.80	9.00	6.70	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	5.65	6.50	4.50	8.00	4.30	6.60	4.10	5.50	3.20	4.0	
4.5	9.65	4.90	9.00	4.60	6.50	4.50	7.10	3.65	6.60	3.45	5.50	3.20	4.5	
5.0	8.70	4.00	8.20	3.75	6.50	4.30	6.40	3.10	6.00	2.75	5.50	3.20	5.0	
5.5	7.80	3.35	7.40	3.10	6.05	3.65	5.75	2.55	5.40	2.25	5.15	2.75	5.5	
6.0	7.00	2.80	6.60	2.55	5.65	3.10	5.20	2.15	5.00	1.80	4.80	2.35	6.0	
6.5	6.25	2.30	5.90	2.10	5.25	2.65	4.70	1.80	4.45	1.50	4.45	2.00	6.5	
7.0			5.20	1.70	4.85	2.30			3.90	1.20	4.15	1.70	7.0	
8.0			4.00	1.05	4.10	1.60			3.00	0.70	3.45	1.25	8.0	
9.0			3.15		3.50	1.05			2.40		2.80	0.90	9.0	
10.0			2.50		3.00	0.65			1.80		2.30		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	
Critical boom angle	_	_	_	50°	29°	59°	_	_	_	49°	38°	61°	Critical boom angle	
Standard hook			for 2	5 ton				for 25 ton						
Hook mass			220	Okg					220	Okg			Hook mass	
Parts of line		4 4							Parts of line					

(Unit : Metric ton)

### ■Notes for the lifting capacity chart

#### ■When the outriggers are used

- The 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.
  - [25 ton hook (mass: 220kg), 4 ton hook (mass: 60kg)]
  - 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 working radius.
- 3. 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.
- 5. The lifting capacities for the over sides vary with the outriggers extension width. Therefore for each outriggers extension condition you should work according the lifting capacity chart. Use the lifting capacity chart of outriggers full extended for both front and rear areas lifting capacities.

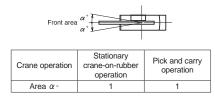


Outrigger extension status	Intermediate extension (6.0m)	Intermediate extension (5.0m)	Intermediate extension (3.8m)	Full retraction
Area α∘	35	30	20	3

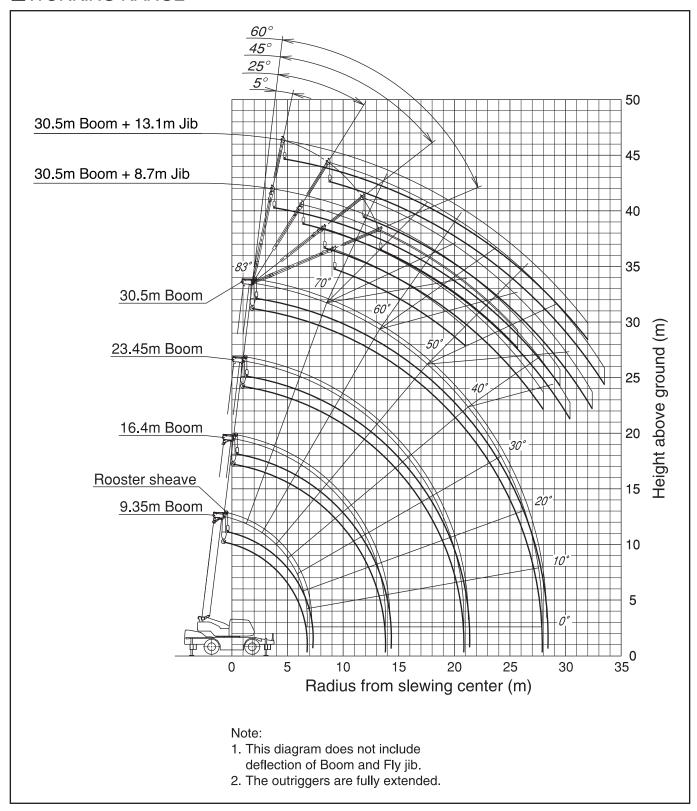
- 6. The lifting capacity of the rooster sheave is the lifting capacity of the boom minus the mass of all attached hook, slings etc. to the boom, with an upper limit of 4,000kg.
  - [The hook for use with the rooster sheave is the 4 ton hook (mass: 60kg) with one part of line.]
- 7. If the boom length, boom angle, working radius and/or jib angle exceeds the rated value, use the lifting capacity for the rated value or for the next one, whichever gives the smaller lifting capacity.
- 8. If you are working with the boom while the jib is rigged, subtract 2,400kg plus the mass of all attached hook, slings etc. to the boom from the each 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 completely retracted.
- 9. 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.
- 10. 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.
- 11. If you are work with 7 parts of line on the hook, use the rooster sheave.
- 12. High-speed lowering operation should only be performed to allow descent of the hook alone. Avoid sudden lever operation.
- 13. Outriggers full retraction condition is applied only to the crane with H-type outriggers.
- 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 crane tipping or damage caused by crane operations with a load in excess of the lifting capacity or incorrect procedure.

#### ■When the outriggers are not used

- The lifting capacity chart indicate 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 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.
- The 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.

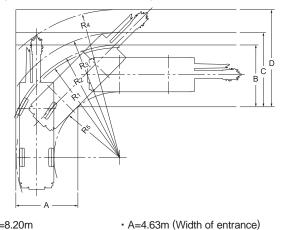


- 4. Do not work with the jib or with a boom length of more than 23.45m.
- 5. For stationary crane-on-rubber operation, the parking brake and service brake lock device must be engaged.
- For pick and carry operation, the high/low speed switch must be switched to "ON" (low range) and the shift lever set 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.
- 8. Never operate the crane during pick and carry operation. The slewing brake must be applied.
- The lifting capacity of the rooster sheave is the 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: 60kg) with one part of line.]
- 10. If the boom length, boom angle, working radius and/or jib angle exceeds the rated value, use the lifting capacity for the rated value or for the next one, whichever gives the smaller lifting capacity.
- 11. 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.
- 12. 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.
- 13. High-speed lowering operation should only be performed to allow descent of the hook alone. Avoid sudden lever operation.
- 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 crane tipping or damage caused by crane operations with a load in excess of the lifting capacity or incorrect procedure.



## ■Minimum path width

#### Right turn in two-wheel steering mode



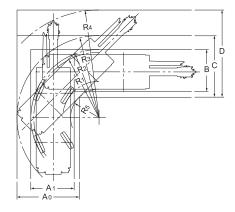
- B=4.63m (Width of wheel exit)

- C=5.57m (Width of chassis exit)

- R₁=8.20m
- (Minimum turning radius)
- R<sub>2</sub>=8.40m (Turning radius of extremely • D=7.28m (Width of exit at end of boom) outer tyre)
- R<sub>3</sub>=9.35m
- (Chassis turning radius)
- R<sub>4</sub>=11.07m
- (Boom end turning radius)

(Turning radius extremely chassis inner)

#### Right turn in 4-wheel steering mode



- R₁=4.90m
- (Minimum turning radius)
- R<sub>2</sub>=5.10m (Turning radius of extremely outer tyre)
- R₃=6.17m
- (Chassis turning radius)
- R<sub>4</sub>=8.09m
- (Boom end turning radius)
- R<sub>5</sub>=2.10m

(Turning radius extremely chassis inner)

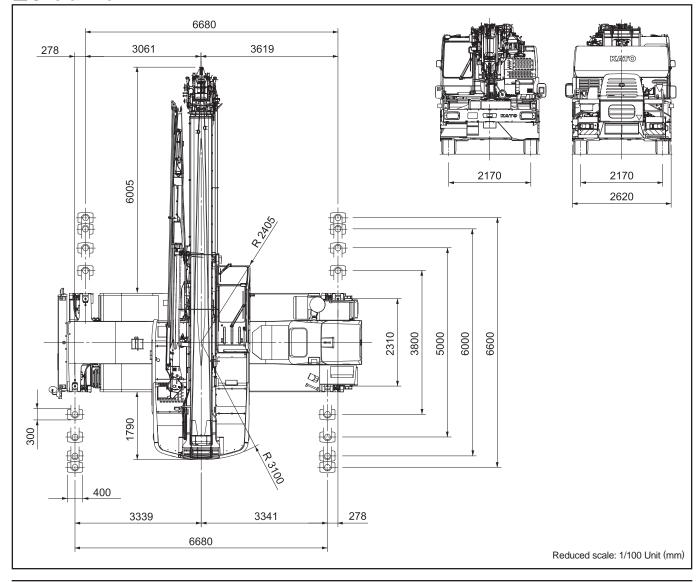
Note: The above values are based on calculations.

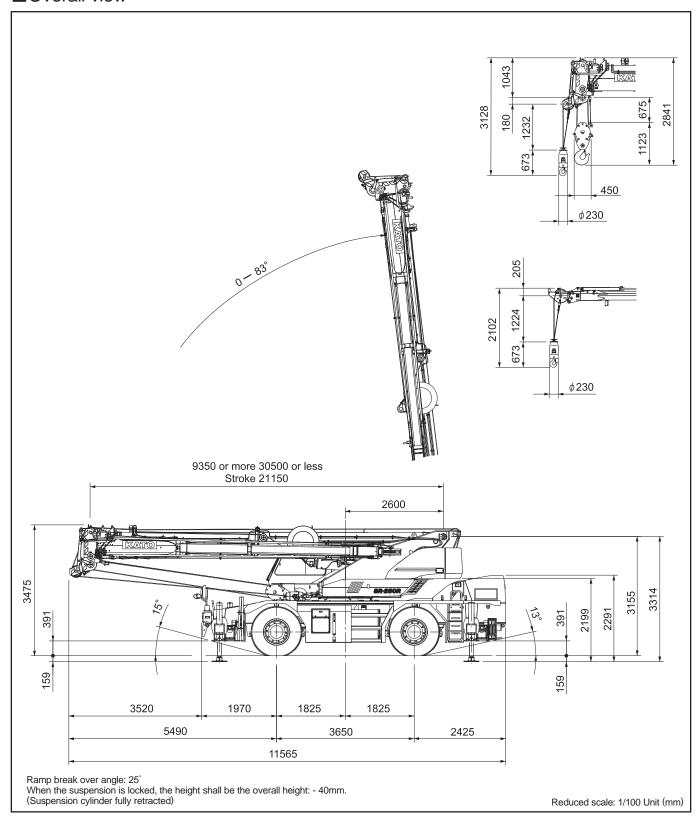
- A<sub>1</sub>=3.25m (Width of wheel entrance) - B =3.25m (Width of wheel exit) - C =4.66m (Width of chassis exit)

- A<sub>0</sub>=4.66m (Width of chassis entrance)

- D =6.58m (Width of exit at end of boom)

## ■Overall view





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

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