



SR-250R ROUGH TERRAIN CRANE



[SPECIFICATION]

CRAN	1E											
Description		Rough terrain crane with maximum lifting capacity 25 ton										
	Specification											
	opeoindution	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 12,500kg × 5.5m (Parts of line : 4)										
Maximum ra	ted 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	1	8.7m — 13.1m										
Maximum ra	ted lifting	31.2m (Boom)										
height		44.8m (jib)										
Hoisting	Main winch	125m / min. (at 4th layer)										
line speed (winch up)	Auxiliary winch	125m / min. (at 4th layer)										
Hoisting		(Parts of line; 7): 17.8m / min. (at 4th layer)										
hook speed	Main winch											
(winch up)	Auxiliary winch	(Parts of line; 1) : 125.0m / min. (at 4th layer)										
High-speed	Main winch											
lowering		Reference value with no load at 163m / min. (at 4th layer)										
	Auxiliary winch											
Boom derric		0° — 83°										
Boom derric		40s / 0° — 83°										
Boom exten	ding speed	9.35 — 30.5m / 93s										
Slewing spe	ed	2.9min ⁻¹										
Tail slewing	radius	3,100mm										
	ent and stru	ucture										
		Box-shaped, 4-section hydraulically telescopic type										
Boom type		(Boom section 3 / 4 simultaneously operated)										
Eb. 6		2 sections (2nd section of draw-out type)										
Jib type		Hydraulic stepless tilting type (offset angles $5^{\circ} - 60^{\circ}$)										
Boom exten	sion/											
retraction ed	quipment	Two hydraulic cylinders and wire ropes used together										
Boom derric	king/lowering	One hydraulic cylinder of direct acting type with pressure-										
equipment		compensated flow control valve										
		Two units of Single winch										
Winch syste		Equipped with Hydraulic motor drive and Planetary gear speed										
Main & Auxi	liary winches	reducer (built-in negative brake), High/Low speed switching system										
		and Hydraulic compensated flow control valve.										
Slewing equ	ipment	Equipped with Hydraulic motor drive and a planetary gear speed reducer (built-in negative brake) Free/Lock change-over model										
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Clausing has	uin a	Dell hearing type										
Slewing bea		Ball bearing type										
Slewing bea	ring Type	Hydraulic H-beam type (with float and vertical cylinder in single unit)										
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Outriggers Wire rope for hoisting Hydraulic motor Control valv Cylinder Oil reservoir Safety of Safety of	Type Extension width Main winch Auxiliary winch lic equipmen Hoisting motor Slewing motor e capacity devices	Hydraulic H-beam type (with float and vertical cylinder in single unit) 6,600mm (Fully extended) 6,000mm (Intermediately extended) 3,800mm (Intermediately extended) 3,800mm (Intermediately extended) 2,310mm (Fully retracted) Diameter: 16mm × Length: 175m Diameter: 16mm × Length: 95m nt Double variable plunger type, gear and plunger type Axial plunger type Double acting with integral check and relief valves (With Hydraulic compensated flow control valve) Double acting type 500L ACS (Automatic Crane System with Voice alarm), Slewing automatic stop system, Boom raise / lower dampening function, Boom extension / retraction dampening function, Working range limit mode, Outrigger status detector, Boom derricking / telescoping holding valve, Judernaking holding valve, Overhoist prevention device, Winch holding valve, Automatic winch brake, Hydraulic oil return filter warning device nt Air conditioner(with cold/warm box), Hydraulic oil cooler, Working light (on boom, table and cab), Winch drum turning indication device, Hook for 25 ton, Hook for 4 ton Hydraulic cab suspension, Adjustable steering wheel, Adjustable suspension seat, Power Window(external closing switch),										
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Outriggers Wire rope for hoisting Hydrau Oil pump Hydraulic motor Control valv Cylinder Oil reservoir Safety of Safety of Standa	Type Extension width Main winch Auxiliary winch lic equipmen Hoisting motor Slewing motor e capacity devices	Hydraulic H-beam type (with float and vertical cylinder in single unit) 6,600mm (Fully extended) 6,000mm (Intermediately extended) 3,800mm (Intermediately extended) 3,800mm (Intermediately extended) 2,310mm (Fully retracted) Diameter: 16mm × Length: 175m Diameter: 16mm × Length: 95m nt Double variable plunger type, gear and plunger type Axial plunger type Double acting with integral check and relief valves (With Hydraulic compensated flow control valve) Double acting type 500L ACS (Automatic Crane System with Voice alarm), Slewing automatic stop system, Boom raise / lower dampening function, Boom extension / tertaction dampening function, Working rape limit mode, Outrigger status detector, Boom derricking / telescoping holding valve, Automatic winch brake, Wich drum roller, Hydraulic safety valves, Outrigger toker, Sueing lock, Slewing warning lamp, Hydraulic oil temperature warning device, Hydraulic oil return filter warning device nt Air conditioner(with cold/warm box), Hydraulic oil cooler, Working raysension, Adjustable steering wheel, Adjustable suspension seat, Power Window(external closing switch), Front windscreen wiper & washer (2 speed wiper), Roof window wiper & washer, Tea table, Cigarette lighter, Access step light, Floor mat, AM/FM Radio, Hot and cool box tt										
Outriggers Wire rope for hoisting Hydrau Oil pump Hydraulic motor Control valv Cylinder Oil reservoir Safety of Safety of Standa	Type Extension width Main winch Auxiliary winch lic equipmen Hoisting motor Slewing motor e capacity devices	Hydraulic H-beam type (with float and vertical cylinder in single unit) 6,600mm (Fully extended) 6,000mm (Intermediately extended) 5,000mm (Intermediately extended) 2,310mm (Fully retracted) Diameter: 16mm × Length: 175m Diameter: 16mm × Length: 95m nt Double variable plunger type, gear and plunger type Axial plunger type Double acting with integral check and relief valves (With Hydraulic compensated flow control valve) Double acting type 500L AcS (Automatic Crane System with Voice alarm), Slewing automatic stop system, Boom raise / lower dampening function, Boom extension / retraction dampening function, Working range limit mode, Outrigger status detector, Boom derricking / telescoping holding valve, Automatic winch brake, Wich drum roller, Hydraulic safety valves, Outrigger status detector, Boom derricking / telescoping holding valve, But derricking holding valve, Slewing warning lamp, Hydraulic oil temperature warning device, Hydraulic oil return filter warning device nt IAir conditioner(with cold/warm box), Hydraulic oil cooler, Working light (on boom, table and cab), Winch drum turning indication device, Hook for 25 ton, Hook for 4 ton Hydraulic cab suspension, Adjustable steering wheel, Adjustable suspension seat, Power Window(external closing switch), Front windscreen wiper & washer (2 speed wiper), Roof window wiper & washer, Tea table, Cigarette lighter, Access step light, Floor mat, AM/FM Radio, Hot and cool box										

νh (tan θ) (2 wheel steer)								
(2 wheel steer)								
(4 wheel steer)								
bishi 6M60-TLE3A (with Intercooled turbocharger)								
le, 6 cylinders, water cooled, direct injection turbo-charged I engine with intercooling								
5L								
W at 2,600min ⁻¹								
l∙m at 1,400min ⁻¹								
Switches between 2 wheel drive (4x2) and 4 wheel drive (4x4)								
ne mounted 3 elements ge (with lock up clutch)								
ote mounted full automatic								
ward & 1 reverse speed HI - Low selector)								
floating type, with a two-stage reduction gear								
floating type, with a two-stage reduction gear								
r - leaf spring (hydraulic locking device with shock absorber)								
r - leaf spring (hydraulic locking device with shock absorber)								
ver hydraulic disk brake on 4 wheels and rear independent circuit)								
Spring applied, electrically air released parking brake mounted of front axle, internal expanding type								
ust brake (electronically controlled torque convertor interlocking current type retarder, Auxiliary braking unit for working								
draulic power steering with reverse steering correction syster								
2 wheel steering, counter steering, crab steering, rear 2 I steering, independent front and rear wheel steering odes) (with automatic rear steering lock system)								
95 R25 170E ROAD								
95 R25 170E ROAD								
-								
120AH) ×2								
gency steering device, Rear wheel steering lock system matic), Miss-shifting prevention system, Brake fluid leak ing device, Service brake lock, Suspension lock, Engine speed alarm, Radiator coolant level warning device, rically stowed side mirrors, Mirror on the right side of the h, Rearview camera and color monitor, Air filter service ing device								
ralized lubricating system								
side view camera, Left side view camera, Wheel stopper, side lamp, Side marker lamp								
sions								
5mm								
20mm								
75mm								
50mm								
70mm								
70mm								
person								
approx. 26,495kg								
ox. 13,180kg								
ox. 13,315kg								

■RATED LIFTING CAPACITY -----

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

9.35m — 30.5m Boom

			1				1				1							 ; ;	1 1 1		
			6m)))			V -))			(3.8	- /		(2.31m)				
Working		ggers fu full rar	ully exte nge)	nded	Outriggers intermediately extended (over side)						ntermed				itermedi /er 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	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		
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		
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					
18.0			2.35	2.60			1.95	2.20			1.20	1.50				0.65					
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				1.50				0.90									
22.0				1.60				1.30				0.70									
24.0				1.25				0.95													
26.0				0.95				0.70													
27.9				0.75				0.45													
Critical boom angle	_	_	_	_	—	_		_	_	_	-	35°	_	_	34°	46°	_	41°	56°	65°	
Standard hook						for 25 ton					for 2	5 ton		for 25 ton							
Hook mass		22	Okq			22	Okq			220	Okq		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

 $5^{\circ}-60^{\circ}$

(6.6m)																		(5.0m)								
0	utrigge	ers full	/ exter	nded (360°f	ull ran	ge)		Outriggers intermediately extended (over side)									Outriggers intermediately extended (over side)								
Boom	Offset 5° Offset 25° Offset 45° Offset 60		et 60°	Boom	Offs			et 25°	Offse	et 45°	Offse	et 60°	Boom	Offs			et 25°	Offse	et 45°	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	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		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			21.0	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		1.46					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				50	25.1	0.75	26.3	0.70	26.5	0.70			53	23.3		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	5.	2°	5.	2°	5.	2°	6	1°
45	27.4	0.65	28.4	0.62					45	27.4	0.42		0.41					Standard hook	for 4 ton							
40	29.5		30.4						Critical boom angle	4.	4°	4	4°	43	5°	6	1°	Hook mass	60kg							
Critical boom angle	3	9°	3	9°	43	5°	6	1°	Standard hook				for 4	1 ton	Parts of line 1											
Standard hook	Standard hook for 4 ton								Hook mass 60kg																	
Hook mass	Hook mass 60kg							Parts of line 1]										
Parts of line	Parts of line 1																									

30.5m Boom+8.7m Jib

🖟 30.5m Boom+13.1m Jib

 $5^{\circ}-60^{\circ}$

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

	☐ 1 (3.8m)																(6.0m)									
Out	Outriggers intermediately extended (over side)						Outriggers fully extended (360° full range)								Outriggers intermediately extended (over side					side)						
Boom	Offs			et 25°	Offse		Offse	et 60°	Boom	Offs		Offset 25° Offset 45°			et 60°	Boom	Offs		Offset 25°							
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	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				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	02								45	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	4	2°	42	2°	43	5°	6	1°	Standard hook				for 4	l ton			
									Standard hook	andard hook for 4 ton						Hook mass	mass 60kg									
									Hook mass	***··9							Parts of line					1				
							Parts of line	s of line 1																		

	30.5m Boom+13.1m Jib																	
(5.0m)									(3.8m)									
Outriggers intermediately extended (over side)								Outr	riggers	interr	nediat	ely ext	ended	(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°	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)	
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	1 ton				
Critical boom angle	5-	4°	54	4°	54	4°	6	1°	Hook mass				60	lkg				
Standard hook				for 4	1 ton				Parts of line					1				
Hook mass				60	kg													
Parts of line	Parts of line 1																	
511-7430200	11-74302002										oro	no	mo	nц	مام	~~	m	

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■When the outriggers are not used

		_										tipping loads				
		Sta	ationary	on rub	ber)								
Working	9.35m	Boom	16.4m	Boom	23.45m	n Boom	9.35m	Boom	16.4m	Boom	23.45m	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	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 25 ton							
Hook mass	Hook mass 220kg								220kg							
Parts of line			4	4				Parts of line								

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

(Unit : Metric ton)

Notes for the lifting capacity chart

When the outriggers are used

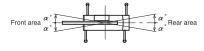
 The lifting capacity chart indicates the maximum load which can be lifted by this crane provided it is level and standing on firm level ground. The values in the chart include the mass of the main hook and slings for boom operation, and auxiliary hook and slings for jib operation.

[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.
- 4. 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	Intermediate	Intermediate	Intermediate	Full retraction
extension status	extension (6.0m)	extension (5.0m)	extension (3.8m)	
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.
- 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.
- 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.

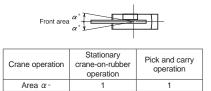
When the outriggers are not used

 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)]

- 2. 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.
- 3. 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.

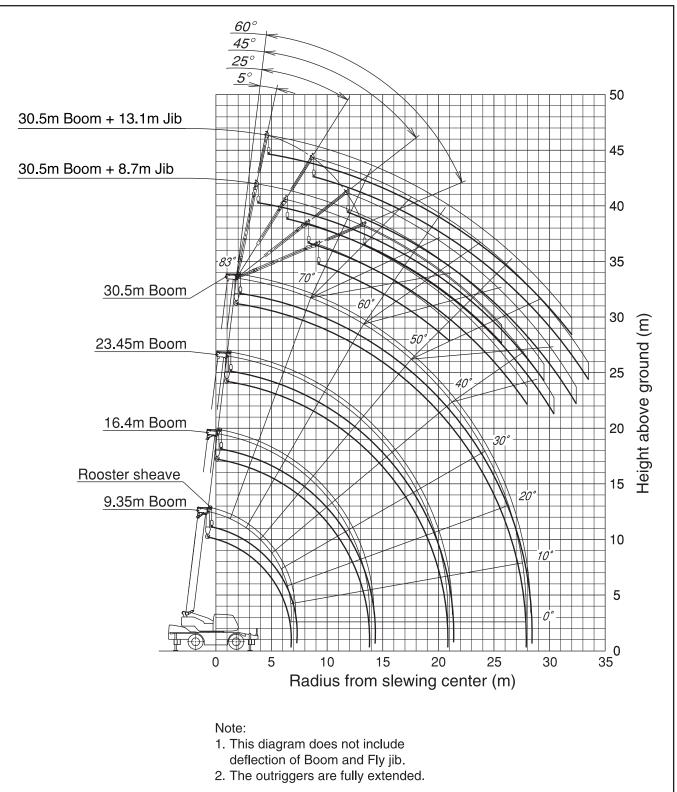


- 4. Do not work with the jib or with a boom length of more than 23.45m.
- 5. For stationary crane-on-rubber operation, the parking brake and service brake lock device must be engaged.
- 6. For pick and carry operation, the high/low speed switch must be switched to "ON" (low range) and the shift lever 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.

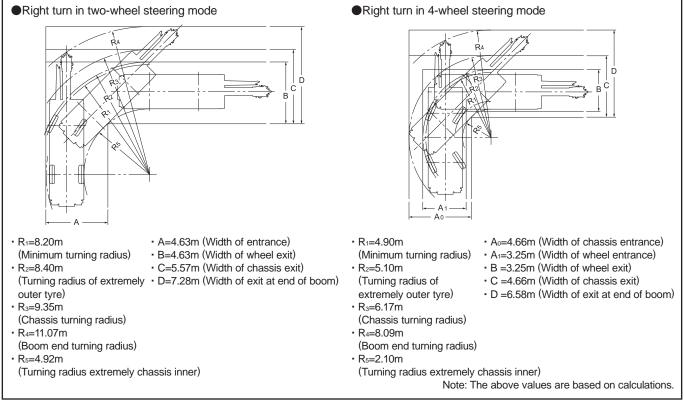
Take particular care to avoid sharp turns, sudden starts and stops.

- 8. Never operate the crane during pick and carry operation. The slewing brake must be applied.
- 9. 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.

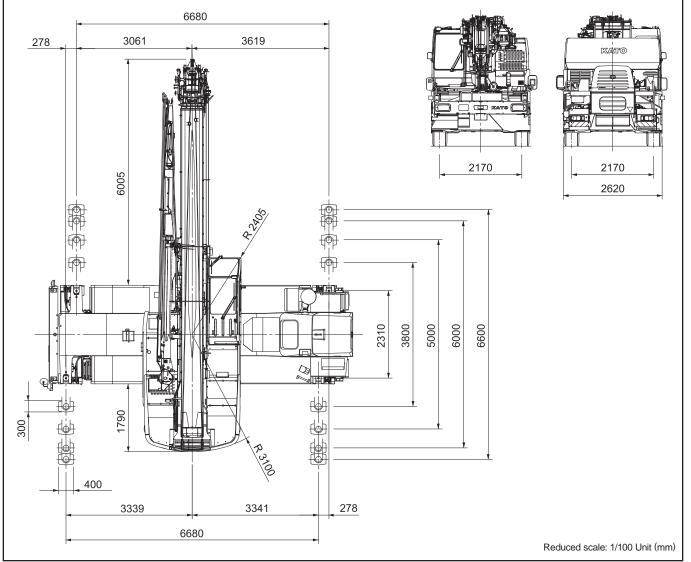
WORKING RANGE



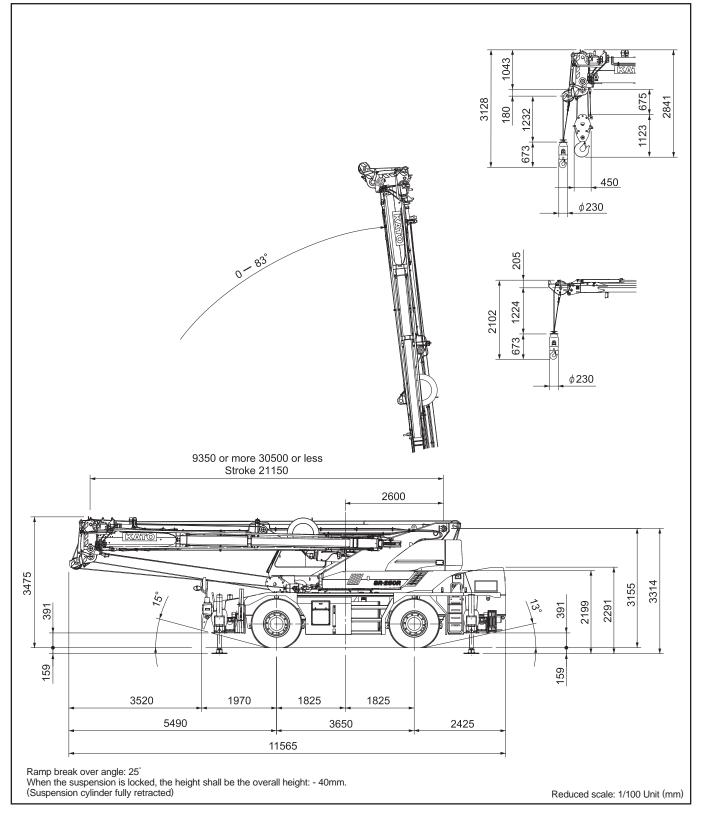
Minimum path width



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.