# **NK-550VR**





Address inquiries to :

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

NOTE : Illustrations may include optional equipment. KATO products and specifications are subject to improvements and changes without notice. Before you use this crane, study the instruction manual thoroughly and follow the instructions it contains.

Some differences may arise between the machine delivered and the photographs in the catalogue. The actual colours of the body and interior may appear slightly different from those shown in this catalogue due to the limitations of photography and printing.





# KATO WORKS CO., LTD.

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Overseas Marketing Department Tokyo(03)3458-1115 Fax. : Tokyo(03)3458-1163

NK-550VR FULLY HYDRAULIC TRUCK CRANE Maximum rated lifting capacity: 55t×3.0m Maximum boom length: 43.0m Engine output: 258kW/2,100min<sup>-1</sup>(ISO Net) KATO T NK-550VR

C02312 10.2008-3000(AT)2 Printed in Japan





KATO WORKS CO., LTD.

# PÜWERFULAND EGÜ-FRIENDL

**More Closer! More Higher! More Farther!** 

Solid 43m SUPERBOOM combined with 15m fly jib offers you steady operation and wider working ranges in narrow spaces.



# Wide & roomy operator's cab for the safe operation

**New ACS Moment Limiter Compuload** (MS-200) with outrigger width detector and working range limiting function.





- High quality color display
- Working range limiting function

### Advanced "SUPERBOOM

Max. boom length —	43 m
<ul> <li>Fly jib length</li> </ul>	9.2 m &15 m
• Max. lifting height	43 m (boom)
5 5	58  m (boom + fly iib)

#### Wide working ranges in narrows spaces

Max. derricking angle	<b>81°</b>
	• 1
Fly jib with 3 offset angles ——	— 5°, 25°, 45°
Small tail slewing radius	3.48 m

#### Wide & roomy operator's cabin

Operating lever system	
<ul> <li>Safe load indicator</li> </ul>	ACS COMPULOAD with working range limiting function

#### Compact body with better mobility

Overall length ————————————————————————————————————	13.37 m
Overall height	
Min. turning radius ————	11.75 m

#### New engine FAW CA6DL2-35

Conformity regulation —	Euro III Engine
Max. output	258 kW
Max torque	1 500 Nm







# **(SPECIFICATION)**

Description			h maximum lifting cap	acity 55 ton							
Model		NK-550VR									
<ul> <li>Specifica</li> </ul>	tion										
		11.0 m Boom	55,000 kg × 3.0 m	(Parts of line : 14)							
		11.0 m Boom	40,000 kg × 3.5 m	(Parts of line : 10)							
		15.0 m Boom	28,000 kg × 5.0 m	(Parts of line : 8)							
		19.0 m Boom	28,000 kg × 5.0 m	(Parts of line : 8)							
		23.0 m Boom	24,000 kg × 6.0 m	(Parts of line : 6)							
Maximum rate lifting capacity	d	27.0 m Boom 20,000 kg × 6.5 m (Parts of line : 5)									
ппу сарасну		35.0 m Boom	14,000 kg × 8.0 m	(Parts of line : 4)							
		43.0 m Boom	8,000 kg × 10.0 m	(Parts of line : 4)							
		9.2 m Jib	3,500 kg × 80°	(Parts of line : 1)							
		15.0 m Jib	2,500 kg × 80°	(Parts of line : 1)							
		Rooster	4,000 kg	(Parts of line : 1)							
Boom length		11.0 m — 43.0	-	· /							
Fly jib length		9.2 m, 15.0 m									
Maximum liftin	a	43.0 m (Boom)									
height	J	58.0 m (Jib)									
Hoisting line	Main	114 m/min. (at 3	Brd laver)								
speed	winch Auxiliary	105 m/min. (at 2									
•	winch Main		: 8.1 m/min. (at 3rd la	ver)							
Hoisting hook speed	winch Auxiliary	,	: 105 m/min. (at 2nd la								
Boom derricking	winch	-2.5° — 81°	100 m/mm. (at 2nd la	yer)							
Boom derricking			91°)								
0			70 s (-2.5° — 81°)								
Boom extending		170 s (11.0 m — 43.0 m)									
Slewing speed		1.85 min <sup>-1</sup>									
Tail slewing rad		3,480 mm									
Equipme	nt and	d structure									
Boom type			section hydraulically te 2/3 and 4/5 simultane								
Jib type		2 sections (2nd		pe, 3-step inclination typ							
Boom extensic retraction equi			cylinders and wire ro	bes used together							
Boom derrickir Iowering equip	ng/	One hydraulic cylinder of direct acting type with pressure-compensated flow control valve									
Winch system Main & Auxiliary v		Driven by axial plunger type hoisting motor through planetary gear reduction. Controlled independently by operating lever. Equipped with automatic brake.									
Slewing equipr		Ball bearing typ									
Wire rope for	Main	Diameter : 18 mm × Length : 235 m									
hoisting	winch Auxiliary winch		Diameter : 18 mm × Length : 125 m								
●Hydraulio		1									
	, equi										
Oil pump	Hoisting	4 section gear t									
Hydraulic motor	motor Slewing	Axial plunger ty	•								
0	motor	Axial plunger type 3 position 4 way double acting with integral check and relief valves									
Control valve				ral check and relief valves							
Cylinder	14	Double acting ty	ype								
Oil reservoir cap		695 L									
Safety de	evices										
		Winch hoisting limiter Automatic winch brak	r, Winch drum lock device, Wi ke, Irregular winding preventio	n device, Hydraulic safety valve							
			, Joystick control safety stop	system, orewing lock device							
<ul> <li>Standard</li> </ul>	equi										
		Irregular winding prev Hooks (40 ton, 20 tor 3 working lights, Mon	oster sheave, Independent tw vention device, Winch automa n, 4 ton), Hydraulic oil cooler, I nent limiter with voice alarm, V er, Ashtray, Cab floor mat, Too	tic brake, Full size fender, Large size step Vinch drum turning indicator,							
Optional	equip	ment									
		Cab heater, Cab co	ng device, Winch drum mirn oler, Fan, Radio AM FM, Fire 55t, Outrigger sheet, Cab lev								

CAR										
Maker and	moo	del	FAW CA5425JQZ							
<ul> <li>Speci</li> </ul>	fica	tion								
Maximum trav	veling	speed	70 km/h							
Gradeabilit	ty		30% (theoretical value)							
Minimum tur	ning	radius	11.75 m							
Gene	ral o	dimer	isions & G.V.W.							
Overall len	ath		approx.13,370 mm							
	-		approx. 2,800 mm							
Overall width Overall height			approx. 3,780 mm							
Wheel base			1,450 mm + 3,900 mm + 1,350 mm = 6,700 mm							
		Front	2,282 mm							
Treads		Rear	2,059 mm							
		Туре	Hydraulic H-beam type (with float and vertical cylinder in single uni							
			7,000 mm (Fully extended)							
Outriggers		Extension width	4,800 mm (Intermediately extended)							
			2,500 mm (Fully retracted)							
_		Gross weight	approx. 41,600 kg							
Gross mac	hine	Front weight	approx. 15,650 kg							
weight		Rear weight	approx. 25,950 kg							
●Engin	e									
Model			CA6DL2-35E3 (EURO-III) (turbo charged)							
Туре			6-inline, 4 cycle, water cooled, diesel							
Piston disp	blace	ment	8.6 L							
Max. powe			258 kW/ 2,100 min <sup>-1</sup> (350 PS/ 2,100 min <sup>-1</sup> )							
Max. torqu			$1,500 \text{ N} \cdot \text{m}/ 1,600 \text{ min}^{-1} (153 \text{ kg} \cdot \text{m}/ 1,600 \text{ min}^{-1})$							
		el Fuel	recommended by KATO must be used							
			d structure							
		in and								
Drive syste	em		8×4							
Clutch			Single dry plate, hydraulic control with air booster							
Transmissi			Manual transmission type							
Number of	spe	eus	9 forward & 1 reverse speed							
		Eront	Roverse "ELLIOT" type							
Axles		Front	Reverse "ELLIOT" type							
Axles		Rear	Full floating type with hub reduction							
	n	Rear Front	Full floating type with hub reduction Leaf springs with shock absorber							
Suspensio		Rear Front Rear	Full floating type with hub reduction Leaf springs with shock absorber Equalizer beams & torque rods with leaf springs (with lockout device							
Suspensio	Serv	Rear Front Rear ice	Full floating type with hub reduction         Leaf springs with shock absorber         Equalizer beams & torque rods with leaf springs (with lockout device         2 circuit air brake, 8 wheels internal expanding type							
Suspensio Brake	Serv Park	Rear Front Rear ice ing	Full floating type with hub reduction Leaf springs with shock absorber Equalizer beams & torque rods with leaf springs (with lockout device 2 circuit air brake, 8 wheels internal expanding type Spring loaded brake							
Suspensio Brake	Serv	Rear Front Rear ice ing liary	Full floating type with hub reduction Leaf springs with shock absorber Equalizer beams & torque rods with leaf springs (with lockout device 2 circuit air brake, 8 wheels internal expanding type Spring loaded brake Exhaust brake							
Suspensio Brake	Serv Park	Rear Front Rear ice ing iary Type	Full floating type with hub reduction Leaf springs with shock absorber Equalizer beams & torque rods with leaf springs (with lockout device 2 circuit air brake, 8 wheels internal expanding type Spring loaded brake Exhaust brake Ball nut type with power booster							
Suspensio Brake	Serv Park	Rear Front Rear ice ing iary Type Front	Full floating type with hub reduction Leaf springs with shock absorber Equalizer beams & torque rods with leaf springs (with lockout device 2 circuit air brake, 8 wheels internal expanding type Spring loaded brake Exhaust brake Ball nut type with power booster 315 / 80R 22.5-18PR							
Brake /	Serv Park Auxil	Rear Front Rear ice ing liary Type Front Rear	Full floating type with hub reduction Leaf springs with shock absorber Equalizer beams & torque rods with leaf springs (with lockout device 2 circuit air brake, 8 wheels internal expanding type Spring loaded brake Exhaust brake Ball nut type with power booster 315 / 80R 22.5-18PR 315 / 80R 22.5-18PR							
Suspensio Brake	Serv Park Auxil	Rear Front Rear ice ing iary Type Front Rear city	Full floating type with hub reduction         Leaf springs with shock absorber         Equalizer beams & torque rods with leaf springs (with lockout device         2 circuit air brake, 8 wheels internal expanding type         Spring loaded brake         Exhaust brake         Ball nut type with power booster         315 / 80R 22.5-18PR         380 L							
Suspensio Brake	Serv Park Auxil	Rear Front Rear ice ing iary Type Front Rear city	Full floating type with hub reduction         Leaf springs with shock absorber         Equalizer beams & torque rods with leaf springs (with lockout device         2 circuit air brake, 8 wheels internal expanding type         Spring loaded brake         Exhaust brake         Ball nut type with power booster         315 / 80R 22.5-18PR         380 L         2 persons							
Suspensio	Serv Park Auxil	Rear Front Rear ice ing iary Type Front Rear city ty	Full floating type with hub reduction Leaf springs with shock absorber Equalizer beams & torque rods with leaf springs (with lockout device 2 circuit air brake, 8 wheels internal expanding type Spring loaded brake Exhaust brake Ball nut type with power booster 315 / 80R 22.5-18PR 315 / 80R 22.5-18PR 380 L 2 persons (12V-6-QAW-180) × 2							
Suspensio Brake	Serv Park Auxil	Rear Front Rear ice ing iary Type Front Rear city ty	Full floating type with hub reduction Leaf springs with shock absorber Equalizer beams & torque rods with leaf springs (with lockout device 2 circuit air brake, 8 wheels internal expanding type Spring loaded brake Exhaust brake Ball nut type with power booster 315 / 80R 22.5-18PR 315 / 80R 22.5-18PR 380 L 2 persons (12V-6-QAW-180) × 2 oment							
Suspensio	Serv Park Auxil	Rear Front Rear ice ing iary Type Front Rear city ty	Full floating type with hub reduction         Leaf springs with shock absorber         Equalizer beams & torque rods with leaf springs (with lockout device         2 circuit air brake, 8 wheels internal expanding type         Spring loaded brake         Exhaust brake         Ball nut type with power booster         315 / 80R 22.5-18PR         380 L         2 persons         (12V-6-QAW-180) × 2         Oment         Towing hook (front and rear, eye type), Spare tire & wheel,							
Suspensio	Serv Park Auxil	Rear Front Rear ice ing iary Type Front Rear city ty	Full floating type with hub reduction Leaf springs with shock absorber Equalizer beams & torque rods with leaf springs (with lockout device 2 circuit air brake, 8 wheels internal expanding type Spring loaded brake Exhaust brake Ball nut type with power booster 315 / 80R 22.5-18PR 315 / 80R 22.5-18PR 380 L 2 persons (12V-6-QAW-180) × 2 oment							

Stow the hooks in place before traveling.

 Before you use this machine, read the precautions in the instruction manual thoroughly to operate it correctly.

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# ■LIFTING CAPACITIES —

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

# 11.0 m — 43.0 m Boom

(Unit	:	Metric ton)	
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						(01111.	Metric ton;			
Outriggers fully extended with front jack – $360^{\circ}$ full range										
Outrigg	ers fully ext	ended witho	out front jacl	< – over side	e and over r	ear				
11.0m	11.0m	15.0m	19.0m	23.0m	27.0m	35.0m	43.0m			
					Boom	Boom	Boom			
			28.00							
			28.00							
34.20	34.20	28.00	28.00	24.00	20.00					
30.80	30.80	28.00	28.00	24.00	20.00					
27.80	27.80	27.40	27.20	24.00	20.00	14.00				
25.40	25.40	25.00	24.80	24.00	20.00	14.00				
23.20	23.20	22.80	22.60	22.50	20.00	14.00	8.00			
21.40	21.40	21.00	20.80	20.60	19.60	14.00	8.00			
19.70	19.70	19.30	19.10	19.00	18.00	14.00	8.00			
17.90	17.90	17.75	17.50	17.30	17.25	14.00	8.00			
16.20	16.20	15.90	15.70	15.50	15.45	13.80	8.00			
14.60	14.60	14.40	14.15	14.00	13.90	13.60	8.00			
		11.90	11.65	11.50	11.45	12.30	8.00			
		10.00	9.75	9.60	9.50	10.40	7.80			
		8.40	8.15	8.10	8.00	8.85	7.10			
		7.15	6.90	6.80	6.75	7.55	6.65			
			5.90	5.80	5.75	6.50	6.15			
			4.30	4.20	4.10	4.95	5.35			
				3.00	2.95	3.75	4.20			
				2.10	2.05	2.80	3.30			
					1.30	2.10	2.55			
					0.75	1.50	2.00			
						1.05	1.50			
						0.65	1.05			
							0.70			
							0.50			
for 40 ton										
+ sub		for 4	0 ton			for 20 ton				
+	450 kg 320 kg									
150 kg										
14	10	8	8	6	5	4	4			
	10	Ŭ	Ŭ	<u> </u>	Ŭ		-			
						.33°	40°			
						00	70			
	Outrigg 11.0m Boom 55.00 43.70 38.50 34.20 30.80 27.80 25.40 23.20 21.40 19.70 17.90 16.20 14.60 	Outriggers fully ext           11.0m         11.0m           Boom         Boom           55.00         40.00           43.70         40.00           38.50         38.50           34.20         34.20           30.80         30.80           25.40         25.40           23.20         23.20           21.40         21.40           19.70         17.90           16.20         16.20           14.60         14.60           14.60         14.60           150 kg         14           10         10	Outriggers fully extended witho           11.0m         15.0m         Boom         Boom           Boom         Boom         Boom         Boom           55.00         40.00         28.00           43.70         40.00         28.00           38.50         38.50         28.00           34.20         34.20         28.00           34.20         34.20         28.00           27.80         27.80         27.40           25.40         25.40         25.00           23.20         23.20         22.80           21.40         21.40         21.00           19.70         19.70         19.30           17.90         17.90         17.75           16.20         15.90         14.60           14.60         14.40         11.90           10.00         8.40         7.15           10.00         8.40         14.00           10.00         10.00         10.00           14.60         14.40         10.00           10.00         10.00         10.00           10.00         10.00         10.00           10.00         10.00         10.00	Outriggers fully extended without front jack           11.0m         11.0m         15.0m         19.0m           Boom         Boom         Boom         Boom           55.00         40.00         28.00         28.00           43.70         40.00         28.00         28.00           38.50         38.50         28.00         28.00           34.20         34.20         28.00         28.00           30.80         30.80         28.00         28.00           27.80         27.40         27.20         25.40         25.00         24.80           23.20         23.20         22.80         22.60         21.40         21.00         20.80           19.70         19.70         19.30         19.10         17.90         17.75         17.50           16.20         16.20         15.90         15.70         14.60         14.40         14.15           14.60         14.60         14.40         14.15         5.90         5.90           14.60         14.60         14.40         4.30         14.30         14.30           15.90         15.90         15.90         15.90         14.30         14.30	Outriggers fully extended without front jack - over side           11.0m         11.0m         15.0m         19.0m         23.0m           Boom         Boom         Boom         Boom         Boom         Boom           55.00         40.00         28.00         28.00         24.00           43.70         40.00         28.00         28.00         24.00           38.50         38.50         28.00         28.00         24.00           34.20         34.20         28.00         28.00         24.00           30.80         30.80         28.00         24.00         24.00           27.80         27.40         27.20         24.00         24.00           23.20         23.20         22.80         22.60         22.50           21.40         21.40         21.00         20.80         20.60           19.70         19.70         19.30         19.10         19.00           17.90         17.75         17.50         17.30           16.20         16.20         15.90         15.70         15.50           14.60         14.40         14.15         14.00         21.00           20         20         20	Outriggers fully extended without front jack - over side and over r           11.0m         11.0m         15.0m         19.0m         23.0m         27.0m           Boom         Boon         Boon	Outriggers fully extended with front jack - 360° full range Outriggers fully extended without front jack - over side and over rear           11.0m         11.0m         15.0m         19.0m         23.0m         Boom         Boom         Boom           55.00         40.00         28.00         24.00              35.0m         Boom         State         State			

421-75103000

						(Unit :	Metric ton				
C	Outriggers intermediately extended without front jack - 360° full range										
	Outriggers fully extended without front jack - over front										
Working	11.0m	15.0m	19.0m	23.0m	27.0m	35.0m	43.0m				
radius (m)	Boom	Boom	Boom	Boom	Boom	Boom	Boom				
3.0	32.00	28.00	28.00	24.00							
3.5	32.00	28.00	28.00	24.00							
4.0	32.00	28.00	28.00	24.00	20.00						
4.5	29.00	28.00	28.00	24.00	20.00						
5.0	22.00	21.90	21.50	21.40	20.00	14.00					
5.5	17.30	17.20	16.90	16.80	16.70	14.00					
6.0	14.10	14.00	13.70	13.60	13.50	14.00	8.00				
6.5	11.80	11.65	11.35	11.30	11.20	12.30	8.00				
7.0	10.00	9.85	9.55	9.50	9.45	10.45	8.00				
7.5	8.55	8.40	8.15	8.10	8.05	9.00	8.00				
8.0	7.40	7.25	7.00	6.95	6.90	7.85	8.00				
9.0	5.70	5.55	5.30	5.25	5.20	6.05	6.50				
10.0		4.25	4.00	3.90	3.85	4.75	5.20				
11.0		3.20	2.95	2.90	2.80	3.70	4.20				
12.0		2.40	2.20	2.10	2.05	2.90	3.40				
13.0		1.80	1.55	1.45	1.40	2.25	2.70				
14.0						1.70	2.15				
15.0							1.70				
Standard		for 4	0 ton	r.		for 20 ton					
hook											
Hook mass		450	) kg			320 kg					
Parts of line	8	8	8	6	5	4	4				
Critical boom angle			35°	48°	58°	64 °	68°				

# 43 m Boom + 9.2 m Jib 43 m Boom + 15 m Jib

											(U	nit : Met	ric ton)
		0.1					h front jac						
			00	,	ended w	ithout 1	ront jack						
	4 Offse		om + 9.2 Offse		Offse	+ 15°		4 Offse		om + 15 Offse		Offee	+ 150
Boom	Working		Working		Working		Boom	Working		Working		Offse Working	
angle (°)	radius (m)	Load (t)	radius (m)	Load (t)	radius (m)	Load (t)	angle (°)	radius (m)	Load (t)	radius (m)	Load (t)	radius (m)	Load (t)
81.0	10.00	3.50	12.75	2.30	14.60	1.25	81.0	11.75	2.50	16.20	1.20	19.40	0.70
80.0	11.05	3.50	13.70	2.30	15.45	1.25	80.0	12.95	2.50	17.20	1.20	20.35	0.69
79.0	12.05	3.48	14.65	2.30	16.30	1.24	79.0	14.10	2.49	18.15	1.19	21.25	0.69
78.0	13.00	3.40	15.60	2.25	17.20	1.23	78.0	15.10	2.45	19.10	1.17	22.15	0.68
77.0	13.90	3.23	16.50	2.19	18.05	1.21	77.0	16.20	2.30	20.10	1.15	23.05	0.67
76.0	14.85	3.04	17.40	2.12	18.90	1.19	76.0	17 <b>.</b> 25	2.17	21.10	1.12	24.00	0.67
75.0	15.75	2.90	18.25	2.06	19.75	1.17	75.0	18.25	2.06	22.15	1.10	24.85	0.65
74.0	16.70	2.75	19.15	1.99	20.55	1.16	74.0	19.20	1.95	23.15	1.07	25.70	0.64
72.0	18.50	2.49	20.90	1.85	22.25	1.12	72.0	21.10	1.76	25.05	1.02	27.45	0.62
70.0	20.15	2.28	22.60	1.73	23.90	1.09	70.0	23.00	1.59	26.80	0.97	29.10	0.61
68.0	21.85	2.09	24.20	1.62	25.40	1.06	68.0	24.90	1.47	28.60	0.93	30.65	0.59
66.0	23.55	1.91	25.80	1.53	26.85	1.04	66.0	26.75	1.35	30.30	0.90	32.25	0.58
64.0	25.05	1.68	27.40	1.43	28.35	1.02	64.0	28.60	1.24	32.00	0.87	33.80	0.57
62.0	26.55	1.41	28.85	1.24	29.85	1.00	62.0	30.40	1.10	33.70	0.84	35.30	0.56
60.0	28.00	1.13	30.20	1.00	31.15	0.85	60.0	32.00	0.87	35.25	0.72	36.75	0.55
59.0	28.75	1.00	30.85	0.89	31.80	0.77	59.0	32.80	0.76	36.00	0.66	37.45	0.55
58.0	29.45	0.86	31.50	0.77	32.45	0.69	58.0	33.60	0.64	36.60	0.58	38.20	0.54
57.0	30.20	0.73	32.20	0.66	33.05	0.61							
56.0	30.85	0.63	32.85	0.56	33.70	0.53							
Standard hook	for 4 ton					Standard hook	for 4 ton						
Hook mass	120 kg					Hook mass			120	kg			
Parts of line	1					Parts of line			1				
Critical boom angle			5	5°			Critical boom angle			5.	7°		

421-75105000

# 43 m Boom + 9.2 m Jib

# 43 m Boom + 15 m Jib

											(U	nit : Met	ric ton)
Outriggers intermediately extended without front jack - 360° full range Outriggers fully extended without front jack - over front													
	4	3m Boo	om + 9.2	2m Jib				4	3m Bo	om + 15	m Jib		
Boom	Offse	et 5°	Offse	t 25°	Offse	t 45°	Boom	Offse	et 5°	Offse	t 25°	Offse	t 45°
angle (°)	Working radius (m)	Load (t)	Working radius (m)	Load (t)	Working radius (m)	Load (t)	angle (°)	Working radius (m)	Load (t)	Working radius (m)	Load (t)	Working radius (m)	Load (t)
81.0	10.00	3.50	12.75	2.30	14.60	1.25	81.0	11.75	2.50	16.20	1.20	19.40	0.70
80.0	11.05	3.50	13.70	2.30	15.45	1.25	80.0	12.95	2.50	17.20	1.20	20.35	0.69
79.0	12.05	3.42	14.65	2.30	16.30	1.24	79.0	14.10	2.49	18.15	1.19	21.25	0.69
78.0	12.90	3.05	15.60	2.25	17.20	1.23	78.0	15.10	2.45	19.10	1.17	22.15	0.68
77.0	13.65	2.67	16.45	2.06	18.05	1.21	77.0	16.05	2.06	20.10	1.15	23.05	0.67
76.0	14.50	2.27	17.20	1.76	18.90	1.19							
Standard hook			for 4	ton			Standard hook	for 4 ton					
Hook mass			120	kg			Hook mass			120	kg		
Parts of line	1					Parts of line	1						
Critical boom angle			75	5°			Critical boom angle	76°					

Outriggers fully retracted (blocked on vertical cyls.) - $360^{\circ}$ full range	
Working radius (m)	11.0 m Boom
3.0	8.00
3.5	6.40
4.0	5.10
4.5	4.20
5.0	3.40
5.5	2.80
6.0	2.30
6.5	1.90
7.0	1.60
7.5	1.25
8.0	1.00
Standard hook	for 40 ton
Hook mass	450 kg
Parts of line	10

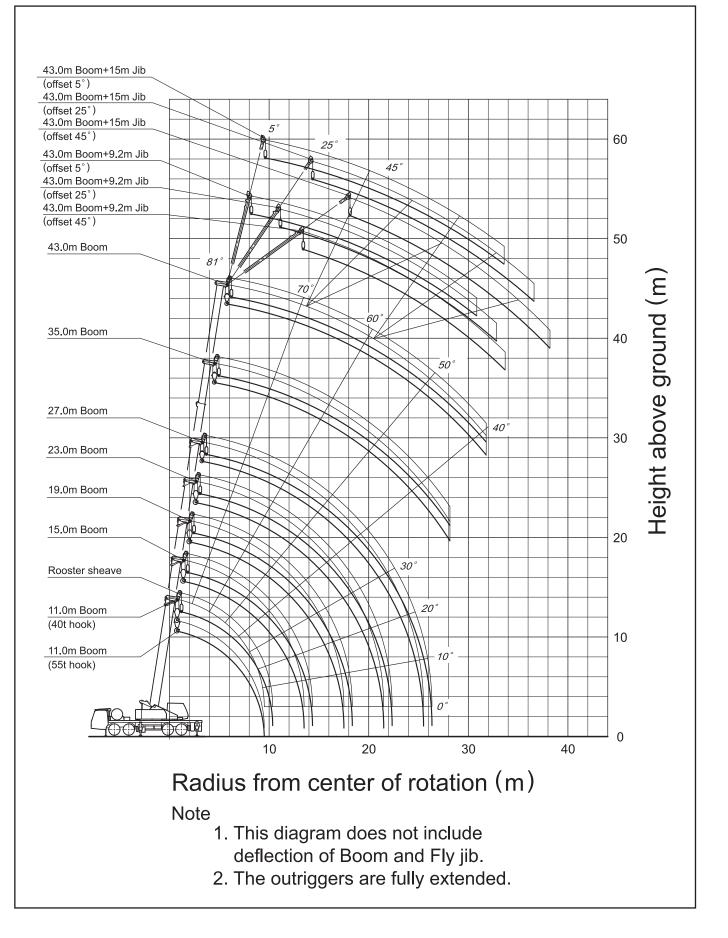
#### (Unit : Metric ton)

# Notes for the rated lifting capacity chart

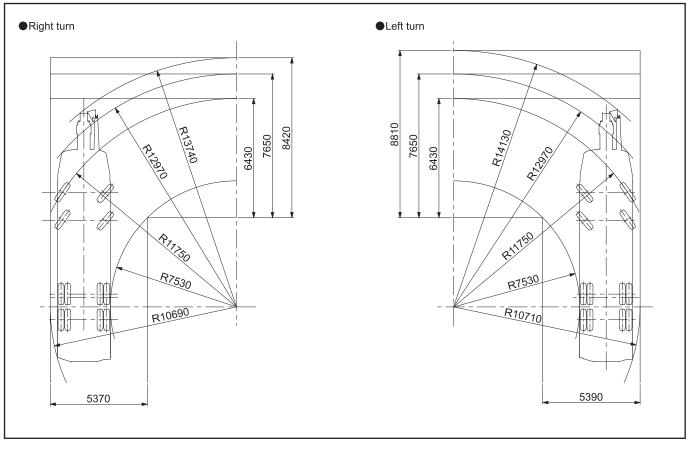
### Precautions

- 1. The rated lifting capacities are the maximum load guaranteed on a firm level ground and include the mass of hook block and other lifting equipment. The capacities enclosed with bold lines are based on the structural strength of machine and the others are based on the stability of machine.
- 2. The working radii as given in the table are the actual values including the deflection of the boom. Therefore, operate the machine based on the working radius. However, the working radii shown for jib operations are based on the values obtained when the boom is fully extended (43 m). Jib operations should be performed on the basis of boom angle only, regardless of boom length when the boom is not fully extended.
- 3. The rated lifting capacities for the rooster sheave are equivalent to the rated lifting capacities for the main boom to a maximum of 4000 kg. At all times the mass of all lifting equipment in use (including main hook block suspended from boom head)forms part of load and must be subtracted from the rated lifting capacity.
- 4. If the boom length exceeds the specified value, the rated lifting capacities for the boom length above and below the present boom length should be referred to, and the crane should be operated within the smaller lifting capacity.
- 5. When using the main boom with the jib installed, 4000 kg plus the mass of hook block and other lifting equipment, etc., should be subtracted from the rated lifting capacities. When performing the above operation, do not use the rooster sheave.
- 6. Critical boom angles for each boom length are shown on bottommost line of lifting capacity table. If the boom angle is lowered to less than the critical boom angle, the machine will tip over without load. Therefore, never lower the boom below these angles.
- 7. The standard number of parts of line is shown in the rated lifting capacity table. If you work with a non-standard number of parts of line, take 39.2kN (4tf) as the maximum load on any part of the wire rope.
- 8. Over front lifting performance without front jack is inferior to over side and over rear lifting performance. Great care should be taken when transferring from over side to over front since there is a danger of overloading.
- 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.
- The machine will tip over or be damaged if operated with a load exceeding that specified in the rated lifting capacity table or not conforming to correct handling.
   If such trouble occurs, the machine will not be guaranteed.

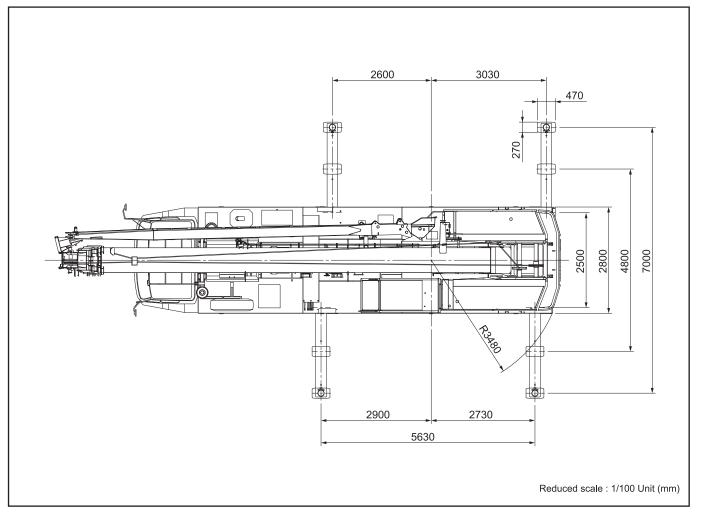
# WORKING RANGE



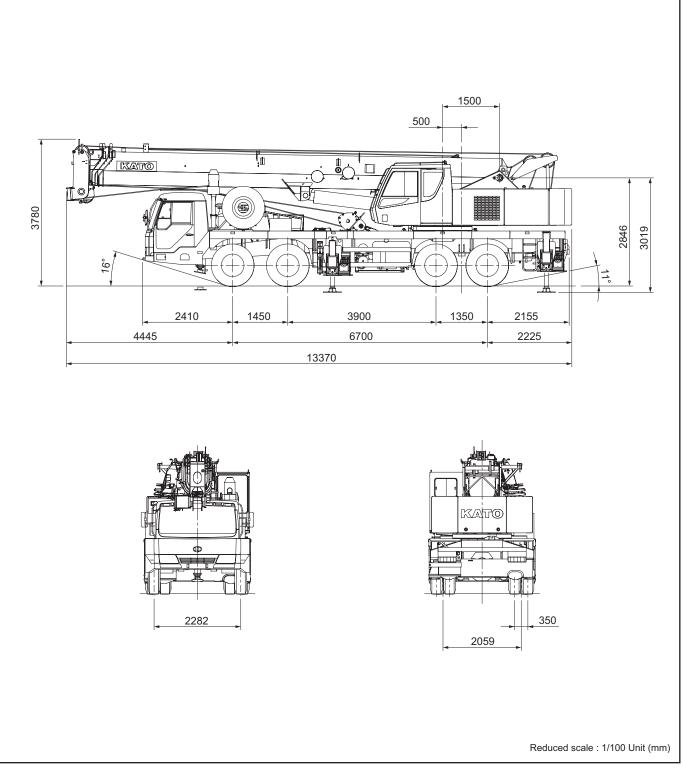
# Minimum path width



# Overall view



## Overall view



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

Address inquiries to:

