

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.





QUALITY & EXPERIENCE

SINCE 1895

KATO WORKS CO.,LTD.

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KATO

NK-300VR

FULLY HYDRAULIC TRUCK CRANE

Maximum rated lifting capacity: 30t × 3.0m Maximum boom length: 34.0m Engine output: 213kW/2,300min⁻¹(ISO Net)



Progress to the Next Stage

KATO

KATO WORKS CO.,LTD.



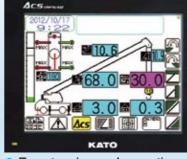
Solid 34m SUPERBOOM combined with 13.8m fly jib offers you steady operation and wider working ranges in narrow spaces.

Outrigger width



Wide & roomy operator's cab for the safe operation

New ACS Moment Limiter Compuload (MS-200) with working range limiting function.



- Easy touch panel operation
- High quality color display
- Working range limiting function



13.8m

34m





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注: 插图可能包括选用设备。KATO产品和规格若有所改良或变化, 恕不另行通知。 使用此汽车起重机前,详细阅读说明书,按照其规定操作。 所售机器可能因机器使用国或对产品进行的改良,而与本产品目录中图片所示的规格有所不同。 由于拍摄和印刷条件所限,机身和机内的实际颜色可能与本产品目录所示稍有不同。







QUALITY & EXPERIENCE SINCE 1895

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C02632 7.2010-1000(AT)2 Printed in Japan



NK-300VR

全液压式汽车起重机

最大额定总起重量:30,000公斤×3.0米

主臂长度: 10.6米 - 34.0米



Innovations For The Future

KATO WORKS CO.,LTD.





34米 SUPERBOOM 加上

13.8米副臂,可在狭小范围里创造

宽敞的操作空间。

无进的4段SUPERBOOM和双节副臂

 國形截面设计构造,可减少主管模同及纵向的形变管

 ●最大额定总起重量 — 30,000公斤×3.0米

 ●主臂长度 — 10.6米 - 34.0米

 ●副臂长度 — 8.3米, 13.8米

 ●主臂仰角 — - 3° - 82°

 ●副臂倾角 — 5°, 25°, 45°

机身小巧,机动性能更好

12.65米
2.50米
3.80米
30,900公斤
3.37米
11.5米

全新底盘

发动机型号 — FAW CA6DL1-29E3 (EUROⅢ)
 最大输出功率 — 213千瓦 / 2,300转/分
 最大扭矩 — 1,150牛顿-米 / 1,600转/分

安全舒适的驾驶室





2.08m Q伸出支腿垂直油缸 → 4.1m 支腿半伸 6.1m 支腿全伸

驾驶室安全舒适,操作方便

配置<mark>新型</mark>ACS力矩限制器(MS-200),并配备有 支腿伸出量自动检测装置 和工作范围限制功能





- ▲場作俑刮的舳咸坎쇸は
- △宫质量彩色显示
- 工作范围限制功能



13.8m

34m



NK-300VR

FULLY HYDRAULIC TRUCK CRANE

[SPECIFICATION]

■ CRANE							
Description	escription Truck crane with maximum lifting capacity 30 ton						
Model		NK-300VR					
Specification	ion						
		10.6 m Boom	30,000 kg×3.0 m	(Parts of line : 10)			
		14.5 m Boom	23,000 kg×4.0 m	(Parts of line : 8)			
		18.4 m Boom	16,000 kg×5.0 m	(Parts of line : 8)			
		22.3 m Boom	12,000 kg×7.0 m	(Parts of line : 4)			
Maximum rated	I	26.2 m Boom	12,000 kg×7.0 m	(Parts of line : 4)			
lifting capacity		30.1 m Boom	· · · · · · · · · · · · · · · · · · ·				
		34.0 m Boom	7,500 kg×9.0 m	(Parts of line : 4)			
		8.3 m Jib 13.8 m Jib	3,400 kg×75° 2,200 kg×78°	(Parts of line : 1) (Parts of line : 1)			
		Rooster	3,400 kg	(Parts of line : 1)			
Boom length		10.6 m — 34.0	_	(1 dit3 01 line : 1)			
Fly jib length		8.3 m , 13.8 m					
.,,,,		34.0 m (Boom)	· · · · · · · · · · · · · · · · · · ·				
Maximum lifting	height	48.0 m (jib)					
	Main		t 4th lover				
Hoisting line speed (winch up)	winch Auxiliary	105 m / min. (a 91 m / min. (a					
·	winch Main			44b lover)			
Hoisting hook speed (winch up)	winch		0) : 10.5 m / min. (at				
(wincir up)	winch	(Parts of line; 1) : 91.0 m / min. (at 2	and layer)			
Boom derricking	g angle	-3° — 82°					
Boom derricking		58 s (-3° — 82°					
Boom extending	g time	116 s (10.6 m -	– 34.0 m)				
Slewing speed		2.3 min ⁻¹					
Tail slewing rad		3,370 mm		4			
● Equipmen	t and stru						
Boom type		(Boom sections	section hydraulically 3 / 4 simultaneously	y operated)			
Jib type			l section of draw-out 5°,25° and 45°))	type, 3-step inclination type			
Boom extension retraction equip		Two hydrauric	cylinders and wire ro	pes used together			
Boom derricking lowering equipm			cylinder of direct acti ensated flow control				
Winch system Main & Auxiliary	y winches		endently by respective	otor through built-in gear reduction. operating lever.			
Slewing equipm	nent	Ball bearing typ	oe e				
Wire rope for	Main winch	Diameter: 16 m	m×Length: 190 m				
hoisting	Auxiliary winch	Diameter: 16 m	m×Length: 110 m				
●Hydraulic	system	*					
Oil pump		4 section gear	type	_			
Hydraulic	Hoisting motor	Axial plunger ty	/pe				
motor	Slewing motor	Axial plunger type					
Control valve		3 position 4 wa	y double acting with	integral check and relief valves			
Cylinder		Double acting t	уре				
Oil reservoir capacity 400 L							
Safety devices							
		ACS (Automatic crane system with voice alarm), Boom falling prevention device, Winch hoisting limiter, Winch drum lock device, Winch drum turning indicator device, Automatic winch brake, Winch drum roller, Hydraulic safety valve, Outrigger lock device, Joystic control safety stop system, Slewing lock device					
Standard	equipme	nt					
Fly jib, Rooster sheave, Independent two winches control systen Hooks (30 ton, 3.4 ton), Full size fender, Large size steps, 3 working lights, Outrigger sheet, Cigar lighter, Ashtray, Cab floor mat, Tool kit				der,			
●Optional e	quipmen	t	,				
				t jack, Hydraulic oil cooler, AM FM, Fire extinguisher			

■CARRIE	ĒR					
Maker and mod	lel	FAW CA5325JQZ				
Specificati	on					
Maximum trave	ling speed	73 km/h				
Gradeability (ta	n θ)	35 % (theoretically computed at G.V.W. = 30900 kg)				
Minimum turning (center of extrem		11.5 m				
●General di	imension	S				
Overall length		approx. 12,650 mm				
Overall width		approx. 2,500 mm				
Overall height		approx. 3,800 mm				
Wheel base		5,825 mm (4,475 mm+1,350 mm)				
- .	Front	2,071 mm				
Treads	Rear	1,847 mm				
	Туре	Hydraulic H-beam type (with float and vertical cylinder in single unit)				
0.4	4	6,100 mm (Fully extended)				
Outriggers	Extended outriggers	4,100 mm (Intermediately extended)				
	outinggers	2,080 mm (Fully retracted)				
	Gross weight	approx. 30,900 kg				
Gross machine	Front weight	approx. 6,950 kg				
weight	Rear weight	approx. 23,950 kg				
● Engine						
Model		FAW CA6DL1-29E3 (EURO-Ⅲ)				
Туре		6-inline, 4cycle, turbo charged, direct injection water cooled, diesel with intercooling				
Piston displace	ment	7.7 L				
Max. power		213 kW / 2,300 min ⁻¹				
Max. torque		1,150 N·m / 1,600 min ⁻¹				
● Equipmen	t and stru	ucture				
Drive system		6×4				
Clutch		Single dry plate, hydraulic control with air booster				
Transmission	7	Manual transmission type				
Number of spec	eds	8 forward & 1 reverse speed				
	Front	Reverse "ELLIOT" type				
Axles	Rear	Full floating type with hub reduction				
	Front	Leaf springs with shock absorber				
Suspension	Rear	Equalizer beams and torque rods with leaf springs (with lockout device)				
	Service	2 circuit air brake, 6 wheels internal expanding type				
Brakes	Parking	Spring loaded brake				
	Auxiliary	Exhaust brake				
Steering	Туре	Ball nut type with power booster				
	Front					
Tire size	Rear (dual tire)	12R22.5(16 PR)				
Fuel tank capac		300 L				
Seating capacit		2 persons				
Battery		(12V-6-QAW-180)×2				
●Standard e	equipmer	nt				
		Towing hook (front and rear, eye type), Spare tire & wheel, Air dryer, Radio AM FM, Cigar lighter, Ashtray, Cab cooler, Cab heater				

- 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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10.6 m — 34.0 m Boom

Outriggers fully extended with front jack -360° full range							
Outriggers fully extended without front jack -over side and over rear							
Working radius (m)	10.6 m Boom	14.5 m Boom	18.4 m Boom	22.3 m Boom	26.2 m Boom	30.1 m Boom	34.0 m Boom
2.5	30.00	23.00	16.00				
3.0	30.00	23.00	16.00				
3.5	26.50	23.00	16.00	12.00			
4.0	24.00	23.00	16.00	12.00	12.00		
4.5	22.00	21.50	16.00	12.00	12.00		
5.0	20.10	19.80	16.00	12.00	12.00	9.50	
6.0	16.50	16.10	15.00	12.00	12.00	9.50	7.50
7.0	13.70	13.20	13.10	12.00	12.00	9.50	7.50
8.0	11.40	11.10	11.00	11.00	10.55	9.50	7.50
8.5	10.30	10.30	10.20	10.25	9.95	8.95	7.50
9.0		9.40	9.30	9.50	9.40	8.40	7.50
10.0		7.60	7.50	8.00	8.30	7.50	6.90
12.0		5.30	5.10	5.60	5.90	6.10	5.70
14.0			3.65	4.05	4.30	4.50	4.70
16.0			2.65	3.00	3.30	3.45	3.60
18.0				2.25	2.50	2.70	2.80
20.0				1.65	1.90	2.10	2.20
22.0					1.45	1.60	1.70
24.0					1.05	1.25	1.35
26.0						0.90	1.00
28.0						0.65	0.75
30.0							0.55
31.0							0.45
Standard hook		4		for 30 ton			
Hook mass				300 kg			
Parts of line	10	8	3		4	1	
Critical boom angle	-4	_	_	_	_		<u> </u>

(Unit: Metric ton

Outriggers intermediately extended without front jack -360° full range							
Outriggers fully	Outriggers fully extended without front jack -over front						
Working radius (m)	10.6 m Boom	14.5 m Boom	18.4 m Boom	22.3 m Boom	26.2 m Boom	30.1 m Boom	34.0 m Boom
2.5	25.00	23.00	16.00				
3.0	25.00	23.00	16.00				
3.5	25.00	23.00	16.00	12.00			
4.0	22.40	22.20	16.00	12.00	12.00		
4.5	17.45	17.30	16.00	12.00	12.00		
5.0	14.15	14.00	13.90	12.00	12.00	9.50	
6.0	10.00	9.85	9.80	10.20	10.40	9.50	7.50
6.5	8.65	8.50	8.40	8.85	9.10	9.10	7.50
7.0	7.55	7.40	7.30	7.70	8.00	8.20	7.50
8.0	5.90	5.75	5.65	6.05	6.30	6.50	6.65
8.5	5.30	5.10	5.00	5.40	5.65	5.85	6.00
9.0		4.55	4.50	4.85	5.10	5.30	5.45
10.0		3.70 3.60 3.95 4.15 4.35 4.5				4.50	
12.0		2.30	2.20	2.60	2.90	3.10	3.20
13.0			1.70	2.10	2.35	2.55	2.70
14.0			1.25	1.65	1.90	2.10	2.30
15.0			0.90	1.30	1.55	1.75	1.90
16.0			0.65	1.00	1.25	1.45	1.60
17.0				0.75	0.95	1.15	1.30
18.0		0.75 0.95 1.05					1.05
19.0		0.55 0.70 0.85				0.85	
20.0	0.55 0.65						
Standard hook				for 30 tor	l		
Hook mass				300 kg			
Parts of line	10	8	3			1	
Critical boom angle	_	26° 37° 45° 51°			51°		

(Unit: Metric ton)

34 m Boom+8.3 m Jib

34 m Boom + 13.8 m Jib

Outriggers fully extended with front jack -360° full range							
Outriggers fully	Outriggers fully extended without front jack -over side and over rear						
		3.	4 m Boom	+ 8.3 m J	lib		
Boom angle	Offs	et 5°	Offse	et 25°	Offse	et 45°	
(°)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	
82	6.8	3.40	9.5	2.20	11.4	1.30	
79	9.3	3.40	11.9	2.20	13.5	1.30	
77	11.1	3.40	13.4	2.15	14.9	1.30	
75	12.8	3.40	14.8	2.05	16.2	1.30	
72	14.6	3.05	17.0	1.95	18.3	1.25	
68	17.7	2.45	19.7	1.80	20.8	1.20	
64	20.3	2.05	22.2	1.60	23.2	1.15	
63	20.9	1.95	22.8	1.55	23.7	1.15	
61	22.1	1.70	24.1	1.50	24.9	1.14	
60	22.8	1.55	24.6	1.40	25.4	1.13	
57	24.4	1.25	26.2	1.14	27.0	1.10	
55	25.5	1.07	27.2	0.97	28.0	0.94	
50	28.0	0.71	29.7	0.64	30.1	0.64	
46	30.0	0.48	31.4	0.44	31.8	0.43	
44	31.0 0.37 32.3 0.34						
Standard hook			for 3.	4 ton			
Hook mass	60 kg						
Parts of line	1						
Critical boom angle	42° 42° 44°						

Outriggers fully extended with front jack -360° full range							
Outriggers fully extended without front jack -over side and over rear							
		34	m Boom	+ 13.8 m v	Jib		
Boom angle	Offs	et 5°	Offse	et 25°	Offse	et 45°	
(°)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	
82	8.4	2.20	12.6	1.10	15.9	0.70	
80	10.4	2.20	14.3	1.10	17.5	0.70	
<i>78</i>	12.4	2.20	16.0	1.08	19.0	0.70	
<i>76</i>	14.1	2.00	17.6	1.02	20.5	0.70	
72	17.3	1.65	20.8	0.92	23.2	0.67	
68	20.4	1.43	23.7	0.85	25.9	0.65	
64	23.5	1.25	26.5	0.79	28.4	0.63	
60	26.4	1.11	29.2	0.75	30.7	0.62	
<i>56</i>	28.9	0.91	31.6	0.71	32.8	0.61	
<i>55</i>	29.5	0.84	32.2	0.69	33.3	0.61	
53	30.7	0.70	33.3	0.63	34.3	0.59	
50	32.4	0.54	34.9	0.47	35.6	0.47	
48	33.4	0.44	35.8	0.39	36.4	0.39	
46	34.5	34.5 0.35 36.8 0.31 37.2 0.31					
Standard hook		for 3.4 ton					
Hook mass		60 kg					
Parts of line	1						
Critical boom angle		44°					

661-75103000

34 m Boom+8.3 m Jib

Outriggers intermediately extended without front jack -360° full range Outriggers fully extended without front jack

Outriggers fully exterided without from jack -over from								
Boom		34 m Boom + 8.3 m Jib						
angle	Offse	t 5°	Offset	25°	Offset	t 45°		
(°)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)		
82	6.8	3.40	9.5	2.20	11.4	1.30		
79	9.3	3.40	11.9	2.20	13.5	1.30		
77	11.0	3.35	13.4	2.15	14.9	1.30		
75	12.4	3.10	14.8	2.05	16.2	1.30		
74	13.1	2.75	15.6	2.00	16.9	1.28		
72	14.4	2.20	16.9	1.74	18.3	1.25		
70	15.7	1.75	18.1	1.41	19.6	1.20		
67	17.6	17.6 1.22 19.8 1.00 21.2 0.91						
65	18.8	18.8 0.93 21.0 0.77 22.3 0.70						
Standard hook	for 3.4 ton							
Hook mass	60 kg							
Parts of line	1							
Critical boom angle		63°						

34 m Boom + 13.8 m Jib

Outriggers intermediately extended without front jack -360° full range -over front

Outriggers fully extended without front jack

Boom		34 m	Boom +	13.8 m	Jib		
angle	Offse	t 5°	Offset	t 25°	Offset	t 45°	
(°)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	
82	8.4	2.20	12.6	1.10	15.9	0.70	
80	10.4	2.20	14.3	1.10	17.5	0.70	
78	12.4	2.20	16.0	1.08	19.0	0.70	
76	14.1	2.00	17.6	1.02	20.5	0.70	
73	16.3	1.75	20.0	0.94	22.6	0.68	
70	18.7	1.30	22.3	0.89	24.6	0.66	
68	20.1	1.01	23.7	0.79	25.9	0.65	
66	21.5	0.75	25.0	0.62	27.2	0.54	
Standard hook	for 3.4 ton						
Hook mass	60 kg						
Parts of line	1						
Critical boom angle	64°						

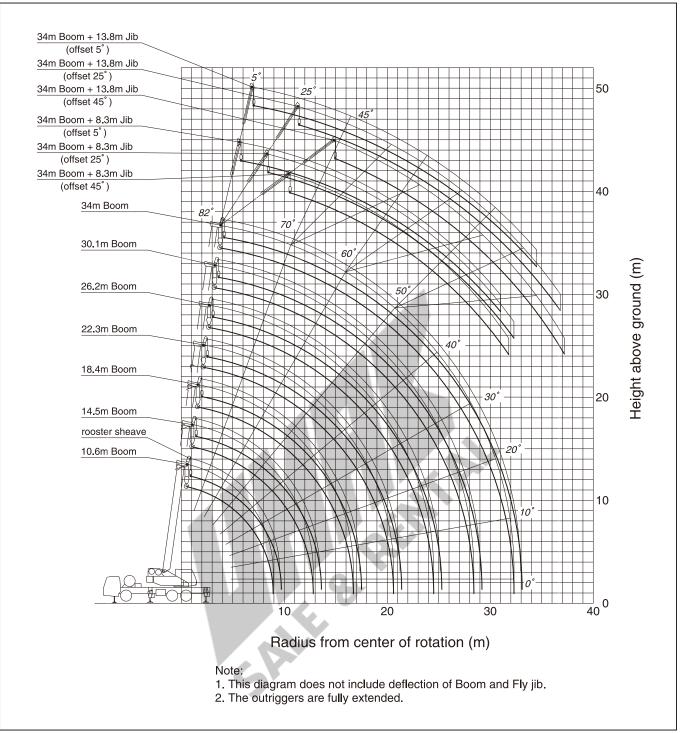
Outriggers fully retracted (blocked on vertical cyls.) -360° full range

Working radius (m)	10.6 m Boom
2.5	7.00
3.0	7.00
3.5	5.50
4.0	4.50
4.5	3.70
5.0	3.10
5.5	2.60
6.0	2.20
6.5	1.80
7.0	1.50
7.5	1.20
8.0	1.00
Standard hook	for 30 ton
Hook mass	300 kg
Parts of line	10

(Unit: Metric ton)

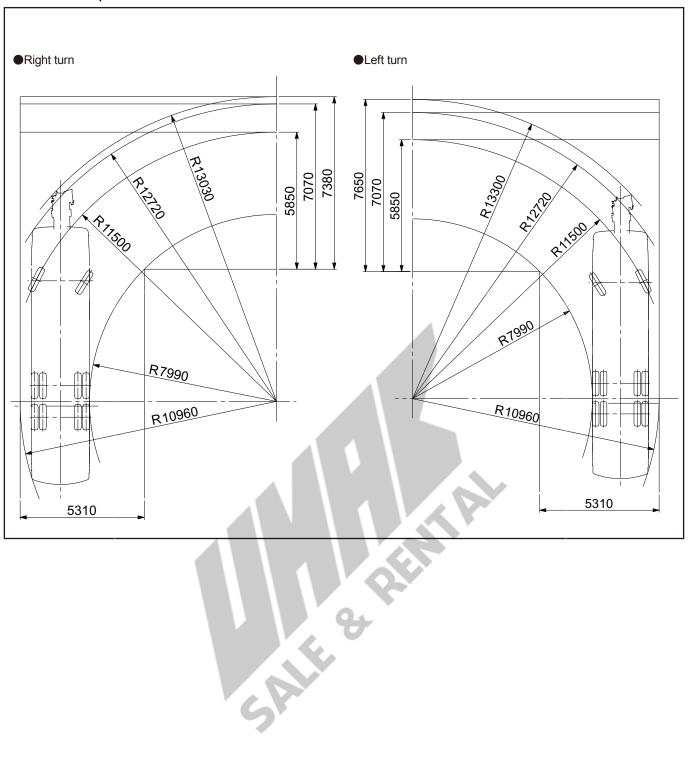
Precautions

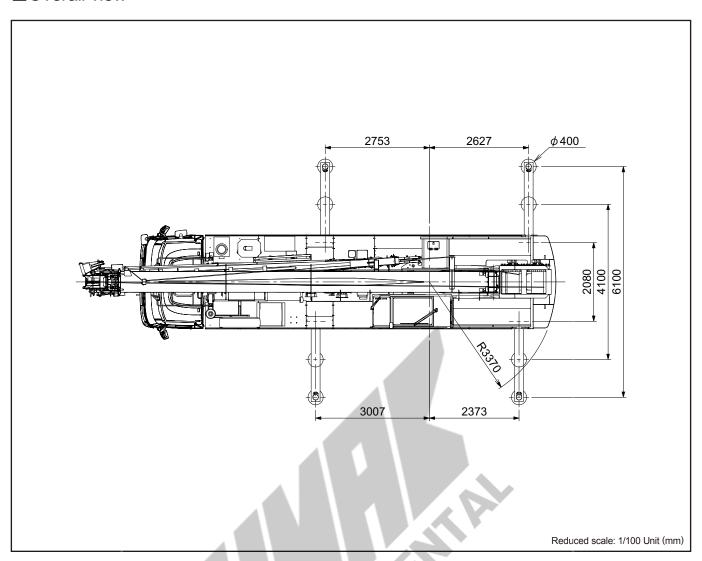
- 1. The rated lifting capacities indicate the maximum load which can be lifted by this crane provided it is standing on firm, level ground. They include the mass of the hook and all other slings etc. The capacities enclosed with bold lines are based on the structural strength of the crane.
- 2. The working radii as given in the lifting capacity chart are the actual values including the deflection of the boom. Therefore, operate the crane 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 (34 m). If the boom is at any other length, jib operations should be performed on the basis of the boom angle only.
- 3. The rated lifting capacities for the rooster sheave are equivalent to the rated lifting capacities for the boom to a maximum of 3400 kg.
 At all times the mass of all slings etc. in use (including the slings etc. attached to the boom) must be subtracted from the rated lifting capacity.
- 4. If the boom length exceeds the rated value, the rated lifting capacities for the rated boom length or for the one stage longer boom length should be referred to, and the crane should be operated within the smaller lifting capacity.
- 5. If you are working with the boom while the jib is mounted, 2200 kg plus the mass of the slings etc. should be subtracted from the rated lifting capacity. 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 the lifting capacity chart. If the boom angle is lowered to less than the critical boom angle, the crane will tip over even if unloaded. Therefore, never lower the boom below these angles.
- 7. The standard number of parts of line for each boom length are indicated in the lifting capacity chart. If you work with a non-number of parts of line, take 29.4 kN (3 tf) as the maximum load on any part of the wire rope.
- 8. Frontward hoisting capacity with the outriggers fully extended is lower than sideward or rearward hoisting capacity. 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.
- 10. If you work with a load in excess of the rated lifting capacity or use incorrect working procedures, you are risking damaging the crane or tipping it over. In such cases, the crane will not be guaranteed.

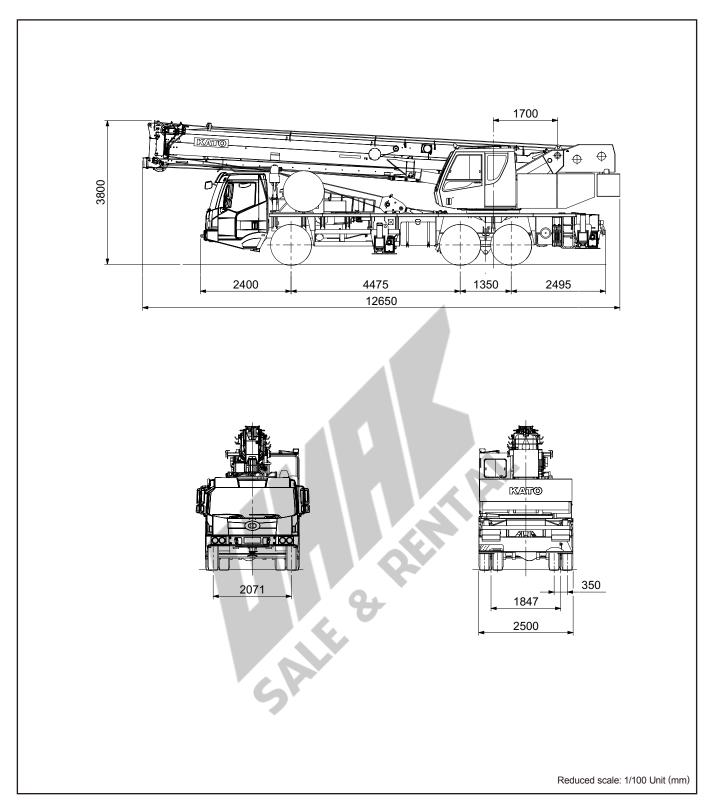


661-75107000

■Minimum path width







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C03251

Fax.

URL

6.2011-1000 (AT) 1





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