

NK-300VR

FULLY HYDRAULIC TRUCK CRANE

Description		Truck crane wit	h maximum lifting ca	apacity 30 ton				
Model		NK-300VR						
Specificati	on							
		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 lifting capacity		26.2 m Boom						
		30.1 m Boom	9,500 kg×8.0 m	(Parts of line : 4)				
		34.0 m Boom	7,500 kg×9.0 m	(Parts of line : 4)				
		8.3 m Jib	3,400 kg×75°	(Parts of line : 1)				
		13.8 m Jib	2,200 kg×78°	(Parts of line : 1)				
		Rooster	3,400 kg	(Parts of line : 1)				
Boom length		10.6 m — 34.0						
Fly jib length		8.3 m , 13.8 m	(2 section)					
Maximum lifting	height	34.0 m (Boom)						
	Main	48.0 m (jib)	Att. Inc. of					
Hoisting line speed	winch	105 m / min. (a						
(winch up)	winch	91 m / min. (at	2nd layer)					
Hoisting hook speed	Main winch	(Parts of line; 1	0) : 10.5 m / min. (at	4th layer)				
(winch up)	Auxiliary winch	(Parts of line; 1): 91.0 m / min. (at 2	2nd layer)				
Boom derricking	g angle	-3° — 82°						
Boom derricking	g time	58 s (-3° — 82°)					
Boom extendino	g time	116 s (10.6 m — 34.0 m)						
Slewing speed		2.3 min ⁻¹						
Tail slewing radi	ius	3,370 mm						
■Equipmen	t and stru	ucture						
Boom type			section hydraulically 3 / 4 simultaneousl					
Jib type		2 sections (2nd (offset angles 5	section of draw-out °,25° and 45°))	type, 3-step inclination type				
Boom extension retraction equip		Two hydrauric	cylinders and wire ro	pes used together				
Boom derricking lowering equipn		One hydraulic cylinder of direct acting type with pressure-compensated flow control valve						
Winch system Main & Auxiliary		Driven by axial plunger type hoisting motor through built-in gear reduction. Controlled independently by respective operating lever.						
		Equipped with automatic brake.						
Slewing equipm	Main	Ball bearing typ	m×Length: 190 m					
Wire rope for	winch	Diamoldi. 10 III	Longui. 190 III					
hoisting	Auxiliary winch	Diameter: 16 m	m×Length: 110 m					
Hydraulic :	system							
Oil pump		4 section gear	уре					
Hydraulic	Hoisting motor	Axial plunger ty	ре					
motor	Slewing	Axial plunger ty	ре					
Control valve		3 position 4 way double acting with integral check and relief valves						
Cylinder		Double acting type						
Oil reservoir capacity		400 L						
●Safety dev	/ices	,						
		Boom falling pro Winch drum loo Automatic wince	h brake, Winch drun device, Joystic contr					
		nt						
●Standard e	equipmei	Fly jib, Rooster sheave, Independent two winches control system, 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						
Standard e	equipmei	Hooks (30 ton, 3 Large size steps	3.4 ton), Full size fends, 3 working lights, Ou	der,				
Standard		Hooks (30 ton, 3 Large size steps Ashtray, Cab flo	3.4 ton), Full size fends, 3 working lights, Ou	der,				

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nt					
	213 kW / 2,300 min ⁻¹				
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	1,150 N·m / 1,600 min ⁻¹				
ınd stru					
ina ou c	6×4				
	Single dry plate, hydraulic control with air booster				
	Manual transmission type				
Front	8 forward & 1 reverse speed				
Front	Reverse "ELLIOT" type				
Rear	Full floating type with hub reduction				
Front Rear	Leaf springs with shock absorber Equalizer beams and torque rods with leaf springs				
Service	(with lockout device) 2 circuit air brake, 6 wheels internal expanding type				
Parking	Spring loaded brake				
_	Exhaust brake				
Type	Ball nut type with power booster				
Rear	12R22.5(16 PR) 12R22.5(16 PR)				
	300 L				
	2 persons				
	(12V-6-QAW-180)×2				
uinma					
F	ront				

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.

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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				for 30 ton			
Hook mass				300 kg	•		
Parts of line	10	8	3		۷	4	
Critical boom angle	_	_					

(Unit: Metric ton)

Outriggers intermediately extended without front jack -360° full range 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	4.50
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
19.0					0.55	0.70	0.85
20.0						0.55	0.65
Standard hook				for 30 tor	1		
Hook mass				300 kg			
Parts of line	10	8	3			4	
Critical boom angle	_	_	_	26°	37°	45°	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 extended without front jack -over side and over rear							
	34 m Boom + 8.3 m 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	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° 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	
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	
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	
56	28.9	0.91	31.6	0.71	32.8	0.61	
55	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	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	4°			

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34 m Boom+8.3 m Jib

34 m Boom+13.8 m Jib

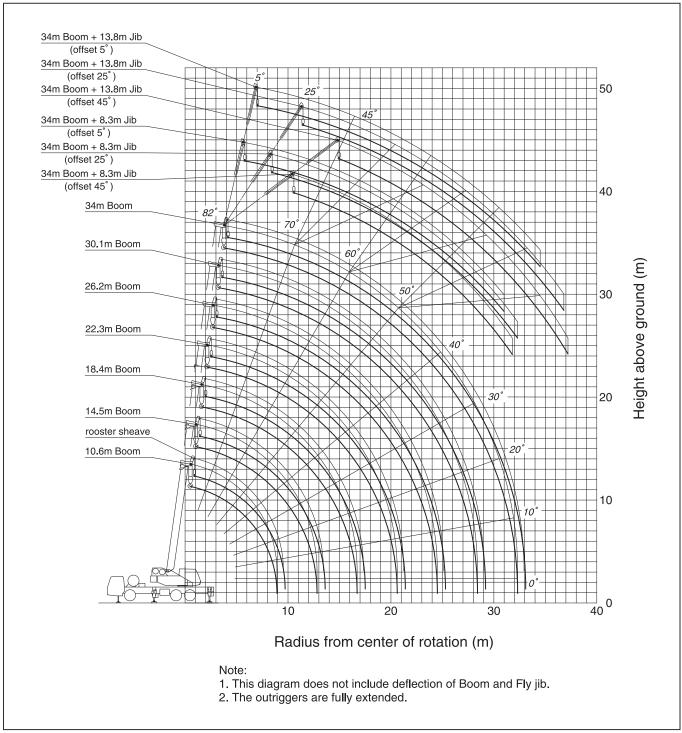
Outriggers intermediately extended without front jack -360° full range							
Outrigger	rs fully ext	ended	without fro	nt jack	-ovei	front	
Boom		34 ı	n Boom +	8.3 m J	ib		
angle	Offse	t 5°	Offset	t 25°	Offset	t 45°	
(°)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	
82	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	o			

Outriggers intermediately extended without front jack -360° full range							
Outrigge	rs fully ext	ended	without fro	nt jack	-ove	r front	
Boom		34 m	n Boom + '	13.8 m .	Jib		
angle	Offse	et 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	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	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	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°						
		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)						

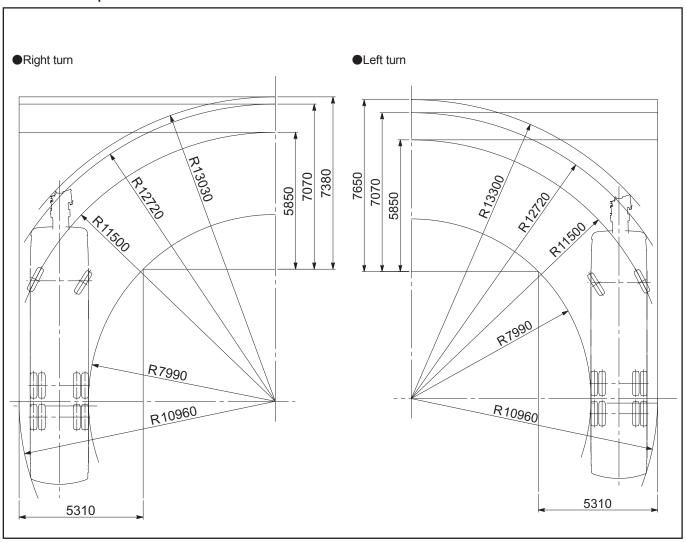
Precautions

- 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.

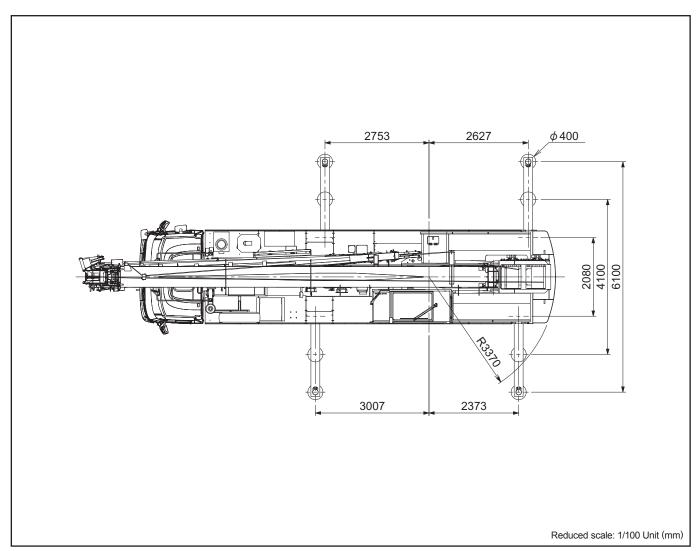


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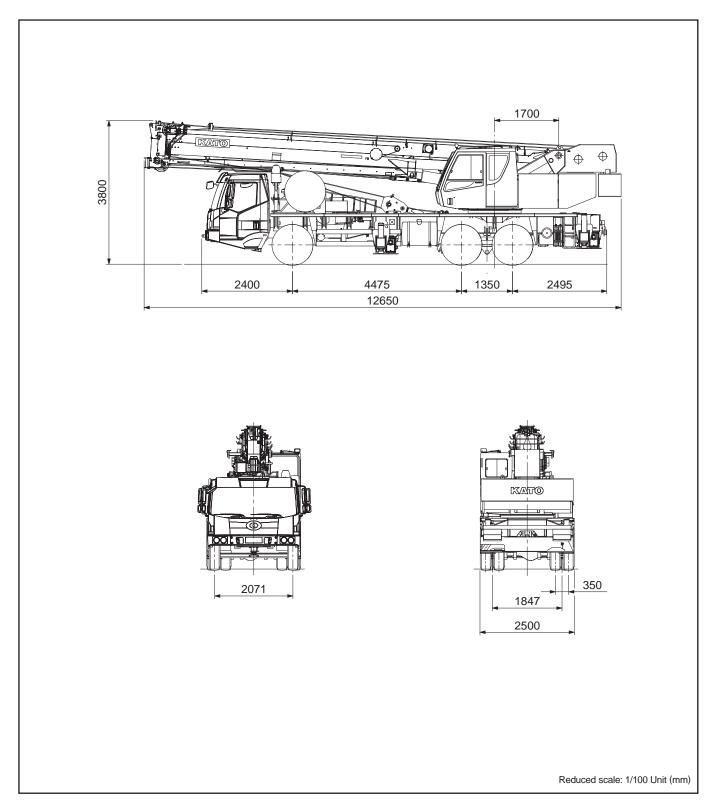
■Minimum path width



■Overall view — NK-300VR



■Overall view — NK-300VR



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