

KATO NK-500E-V

Based on *BS 1757 : 1986
*DIN 15019-2
*75% of tipping loads

RATED LIFTING CAPACITY (1) (Unit ; Metric ton)

Outriggers fully extended with front jack - 360° full range
Outriggers fully extended without front jack - over side and over rear

Working radius (m)	10.8 m Boom	14.45m Boom	18.1 m Boom	21.75m Boom	25.4 m Boom	32.7 m Boom	40.0 m Boom	
3.0	50.50	28.00	28.00	24.00				
3.5	42.20	28.00	28.00	24.00	18.00			
4.0	37.00	28.00	28.00	24.00	18.00			
4.5	33.00	28.00	28.00	24.00	18.00			
5.0	30.20	28.00	28.00	24.00	18.00	13.00		
5.5	27.50	26.50	25.60	23.20	18.00	13.00		
6.0	25.00	24.00	23.50	21.50	18.00	13.00		
6.5	22.70	22.30	21.80	19.90	18.00	13.00	7.50	
7.0	20.70	20.30	20.00	18.40	16.80	13.00	7.50	
7.5	18.90	18.60	18.50	17.10	15.70	13.00	7.50	
8.0	17.40	17.10	17.00	15.90	14.80	12.30	7.50	
8.5	15.95	15.70	15.60	14.65	14.00	11.60	7.50	
9.0	14.35	14.20	14.10	13.50	13.20	11.00	7.50	
9.5		12.85	12.70	12.55	12.45	10.50	7.50	
10.0		11.70	11.55	11.45	11.40	10.00	7.30	
11.0		9.75	9.60	9.50	9.45	9.10	6.80	
12.0		8.20	8.10	8.00	7.95	8.30	6.30	
13.0		7.00	6.85	6.75	6.70	7.55	5.90	
14.0			5.85	5.75	5.70	6.50	5.50	
16.0			4.25	4.15	4.10	4.95	4.70	
18.0				3.00	2.95	3.75	4.00	
20.0				2.10	2.05	2.80	3.30	
22.0					1.30	2.10	2.55	
23.0					1.00	1.80	2.25	
24.0						1.50	2.00	
26.0						1.05	1.50	
28.0						0.65	1.10	
30.0							0.75	
31.0							0.60	
Standard hook	for 50.5 ton				for 20 ton			
Hook weight	500 kg				270 kg			
Parts of line	12	7	7	6	5	4	3	
Critical boom angle	—	—	—	—	—	25°	35°	

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*75% of tipping loads

RATED LIFTING CAPACITY (2) (Unit ; Metric ton)

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

Working radius (m)	10.8 m Boom	14.45m Boom	18.1 m Boom	21.75m Boom	25.4 m Boom	32.7 m Boom	40.0 m Boom
3.0	32.00	28.00	28.00	24.00			
3.5	32.00	28.00	28.00	24.00	18.00		
4.0	32.00	28.00	28.00	24.00	18.00		
4.5	26.30	25.00	24.00	22.00	18.00		
5.0	19.90	19.70	19.40	18.00	16.50	13.00	
5.5	15.75	15.55	15.30	15.20	15.00	13.00	
6.0	12.80	12.60	12.40	12.30	12.25	11.80	
6.5	10.60	10.45	10.25	10.15	10.10	10.60	7.50
7.0	8.95	8.75	8.60	8.50	8.45	9.45	7.50
7.5	7.60	7.45	7.25	7.15	7.10	8.10	7.50
8.0	6.50	6.35	6.20	6.10	6.05	7.00	7.50
9.0	4.80	4.70	4.55	4.45	4.40	5.30	6.00
10.0		3.50	3.35	3.25	3.20	4.10	4.70
11.0		2.55	2.40	2.35	2.30	3.15	3.75
12.0		1.80	1.70	1.60	1.60	2.40	2.95
13.0						1.80	2.35
14.0						1.30	1.85
15.0							1.40
Standard hook	for 50.5 ton				for 20 ton		
Hook weight	500 kg				270 kg		
Parts of line	12	7	7	6	5	4	3
Critical boom angle	—	—	40°	51°	58°	62°	66°

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 * BS 1757 : 1986
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 * 75% of tipping loads

RATED LIFTING CAPACITY (3) (Unit ; Metric ton)

Outriggers fully extended with front jack - 360° full range
 Outriggers fully extended without front jack - over side and over rear

40m Boom + 9.2m Jib							40m Boom + 15m Jib						
Boom angle (°)	Offset 5°		Offset 25°		Offset 45°		Boom angle (°)	Offset 5°		Offset 25°		Offset 45°	
	Working radius (m)	Load (t)	Working radius (m)	Load (t)	Working radius (m)	Load (t)		Working radius (m)	Load (t)	Working radius (m)	Load (t)	Working radius (m)	Load (t)
81.0	8.90	3.50	11.80	2.30	13.80	1.25	81.0	10.70	2.50	15.50	1.20	18.80	0.70
79.0	10.90	3.50	13.50	2.30	15.35	1.25	80.0	11.75	2.50	16.40	1.20	19.55	0.70
78.0	11.80	3.50	14.35	2.30	16.20	1.24	79.0	12.85	2.50	17.35	1.20	20.40	0.69
77.0	12.70	3.32	15.20	2.23	17.00	1.22	78.0	14.00	2.50	18.30	1.19	21.25	0.69
76.0	13.50	3.13	16.00	2.16	17.80	1.20	77.0	15.00	2.35	19.20	1.16	22.10	0.68
75.0	14.40	2.97	16.80	2.09	18.55	1.18	76.0	15.95	2.22	20.00	1.13	22.90	0.67
74.0	15.25	2.82	17.65	2.02	19.30	1.17	75.0	16.90	2.10	20.95	1.10	23.70	0.65
72.0	16.85	2.55	19.25	1.89	20.80	1.13	74.0	17.85	1.98	21.85	1.07	24.50	0.64
70.0	18.50	2.33	20.90	1.76	22.25	1.10	72.0	19.75	1.78	23.60	1.03	26.15	0.63
68.0	20.05	2.14	22.40	1.65	23.70	1.07	70.0	21.50	1.61	25.35	0.98	27.75	0.61
66.0	21.60	1.97	23.90	1.56	25.20	1.05	68.0	23.40	1.48	27.05	0.94	29.25	0.60
64.0	23.15	1.83	25.30	1.47	26.55	1.03	66.0	25.10	1.36	28.70	0.91	30.75	0.58
62.0	24.65	1.71	26.75	1.38	27.90	1.01	64.0	26.85	1.26	30.30	0.88	32.15	0.57
60.0	26.15	1.51	28.20	1.30	29.25	0.99	62.0	28.45	1.16	31.85	0.85	33.55	0.56
59.0	26.85	1.38	28.85	1.26	29.90	0.98	60.0	30.05	1.08	33.35	0.81	34.90	0.56
58.0	27.45	1.23	29.50	1.15	30.50	0.97	58.0	31.70	1.01	34.75	0.77	36.25	0.55
56.0	28.75	1.02	30.75	0.94	31.70	0.90	57.0	32.40	0.90	35.40	0.75	36.85	0.55
54.0	30.00	0.80	31.90	0.75	32.80	0.72	56.0	33.05	0.80	36.10	0.70	37.50	0.54
52.0	31.15	0.60	33.05	0.58	33.80	0.57	54.0	34.40	0.60	37.40	0.55	38.65	0.54
Standard hook	for 4 ton						Standard hook	for 4 ton					
Hook weight	120 kg						Hook weight	120 kg					
Parts of line	1						Parts of line	1					
Critical boom angle	51°						Critical boom angle	53°					

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RATED LIFTING CAPACITY (4) (Unit ; Metric ton)

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

40m Boom + 9.2m Jib							40m Boom + 15m Jib						
Boom angle (°)	Offset 5°		Offset 25°		Offset 45°		Boom angle (°)	Offset 5°		Offset 25°		Offset 45°	
	Working radius (m)	Load (t)	Working radius (m)	Load (t)	Working radius (m)	Load (t)		Working radius (m)	Load (t)	Working radius (m)	Load (t)	Working radius (m)	Load (t)
81.0	8.90	3.50	11.80	2.30	13.80	1.25	81.0	10.70	2.50	15.50	1.20	18.80	0.70
79.0	10.90	3.50	13.50	2.30	15.35	1.25	80.0	11.75	2.50	16.40	1.20	19.55	0.70
78.0	11.80	3.43	14.35	2.30	14.85	1.24	79.0	12.85	2.50	17.35	1.20	20.40	0.69
77.0	12.45	2.88	15.15	2.22	16.20	1.22	78.0	14.00	2.50	18.30	1.19	21.25	0.69
76.0	13.20	2.44	15.85	1.92	17.00	1.20	77.0	14.90	2.20	19.20	1.16	22.10	0.68
75.0	13.95	2.06	16.60	1.63	18.55	1.18	76.0	15.70	1.87	20.00	1.13	22.90	0.67
74.0	14.80	1.73	17.30	1.40	19.30	1.17	75.0	16.60	1.58	20.95	1.09	23.75	0.65
Standard hook	for 4 ton						Standard hook	for 4 ton					
Hook weight	120 kg						Hook weight	120 kg					
Parts of line	1						Parts of line	1					
Critical boom angle	73°						Critical boom angle	74°					

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RATED LIFTING CAPACITY (5) (Unit ; Metric ton)

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

Working radius (m)	10.8m 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 50.5 ton
Hook weight	500 kg
Parts of line	12