



T.S.K. CRANE SERVICE CO.,LTD.

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Load Chart



**FOR FULLY HYDRAULIC TRUCK CRANE 160 TONS
MODEL : KATO NK - 1600**

Max. Lifting Height	160 ton (160,000 kg.)	Working Radius 3.2 m.
Boom	Boom Section	6 Sections
	Length	13.6 / 18.15 / 22.7 / 31.8 / 40.9 / 50.0 m.
Jib	Luffing jib	11 / 11+10 / 10+17 m.
	Heavy Lift jib	12 / 21 / 30 m.
Dimensions (carrier only)	Length	16.54 m.
	Width	3.0 m.
	Height	4.0 m.
Wire Rope	Main Winch	24 mm. X 350 m. (Diameter x Length)
	Auxiliary Winch	24 mm. X 300 m. (Diameter x Length)
Outriggers	1 Stages	Full extended width 8.6 m.
Tires	1 st , 2nd , 3 rd , 4 th and 7 th axle	14.00-24-24PR (single)
	5 th +6 th axle	14.00-24-24PR (dual)
Weights (carrier only)	Gross Vehicle Weight	Total 84,000 kg.

TOTAL RATED LOADS (Unit : metric ton)						
Working radius (m)	360° full range					
	13.6 m Boom	18.15 m Boom	22.7 m Boom	31.8 m Boom	40.9 m Boom	50.0 m Boom
3.2	160.0					
3.5	149.0					
4.0	136.0	110.0				
4.5	123.0	110.0	100.0			
5.0	113.0	106.0	100.0			
6.0	95.5	89.5	84.0	65.0		
7.0	81.0	76.5	72.5	60.0		
8.0	70.0	66.5	63.5	55.0	45.0	
9.0	61.0	58.5	56.0	49.0	41.0	
10.0	54.0	52.0	50.5	44.0	37.0	
11.0	48.5	47.0	45.5	40.0	34.0	30.0
12.0		34.0	41.5	37.0	31.0	28.0
14.0		25.0	34.0	31.5	26.5	24.0
16.0		21.0	28.0	27.5	23.0	21.0
18.0			23.5	24.4	20.4	18.5
20.0			19.1	21.0	18.0	16.5
22.0				17.3	16.3	15.0
24.0				14.4	14.8	13.5
26.0				12.1	13.0	12.5
28.0				10.1	11.0	11.2
30.0					9.3	9.9
32.0					7.8	8.4
34.0					6.6	7.2
36.0					5.6	6.1
38.0					4.7	5.1
40.0						4.2
42.0						3.5
44.0						2.8
46.0						2.2
47.0						2.0

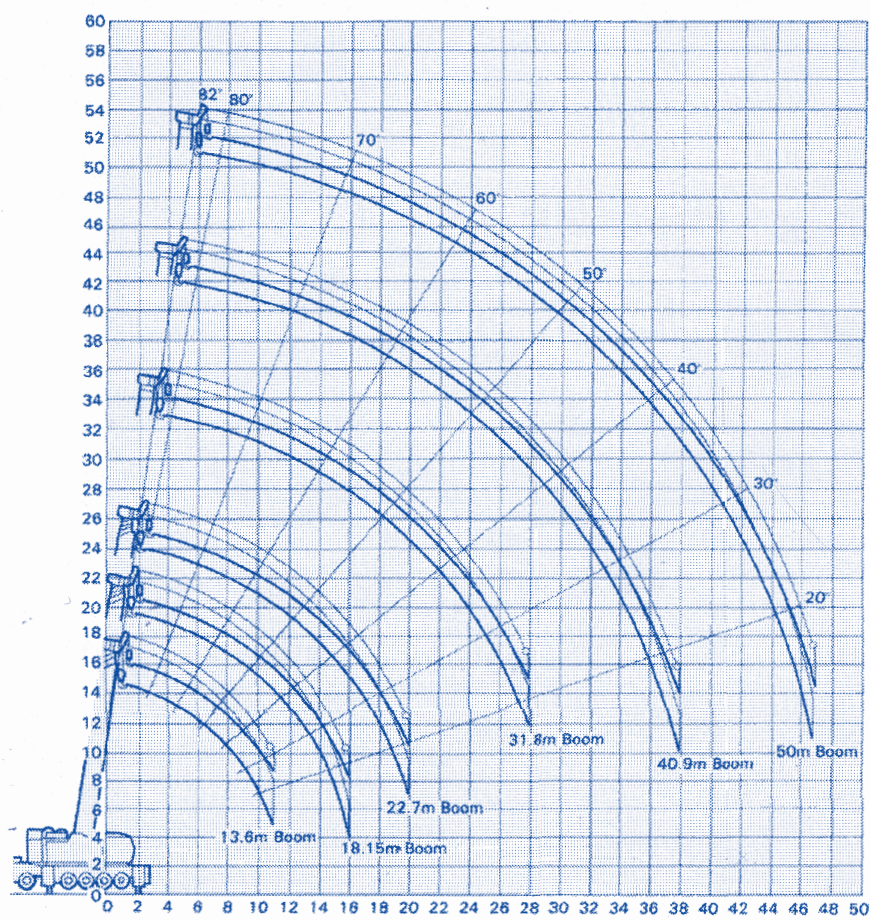
Rated lifting capacity of rooster sheave

The rated lifting capacities of the rooster sheave are equal to those of main boom subtracted the weight of main hook block, but the maximum rated lifting capacity is 8 ton.

[NOTE]

- 1) The rated lifting capacities are the maximum loads guaranteed on a firm level ground when the outriggers, front jack and axle lock are set properly.
- 2) The rated lifting capacities include the weight of hook block and other lifting equipment. The capacities in the white area are based on the structural strength.
- 3) The working radius given in the table for main boom operation are the actual values including the deflection of the boom. Therefore operate the crane based on the working radius.

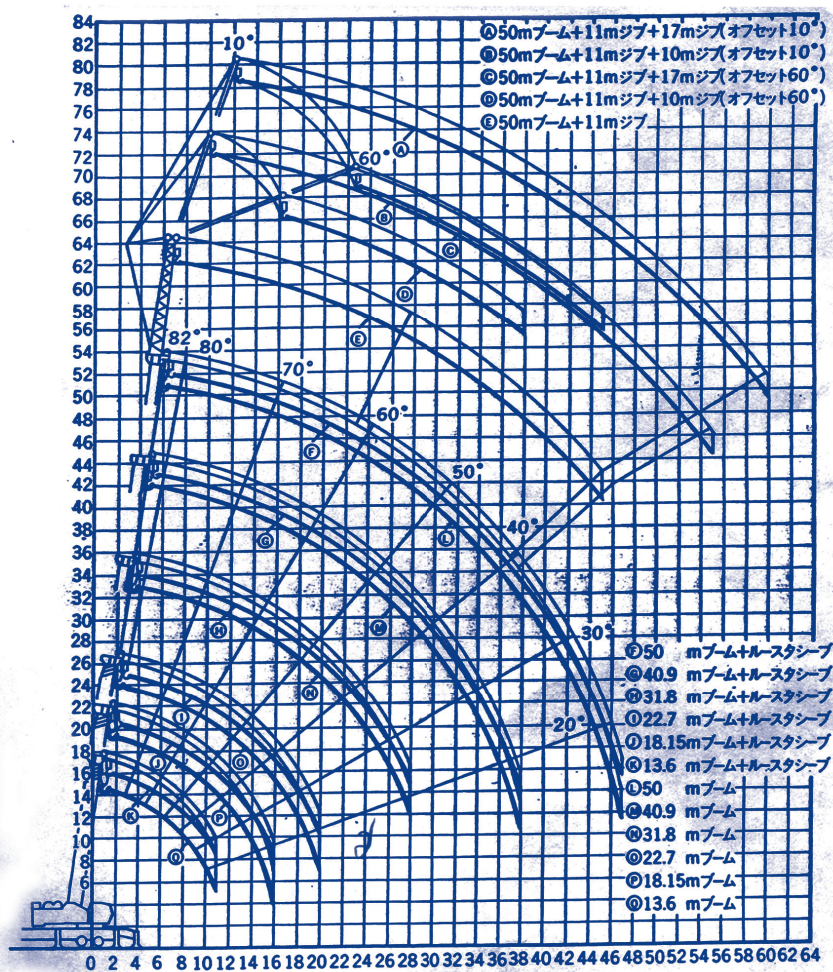
WORKING RADIUS - LIFTING HEIGHT



LIFTING HEIGHT (m)

WORKING RADIUS (m)

WORKING RADIUS - LUFFING JIB



LIFTING HEIGHT (m)

WORKING RADIUS (m)