

KATO

NK-1200

FULLY HYDRAULIC
TRUCK CRANE

Lifting Capacity **120t**

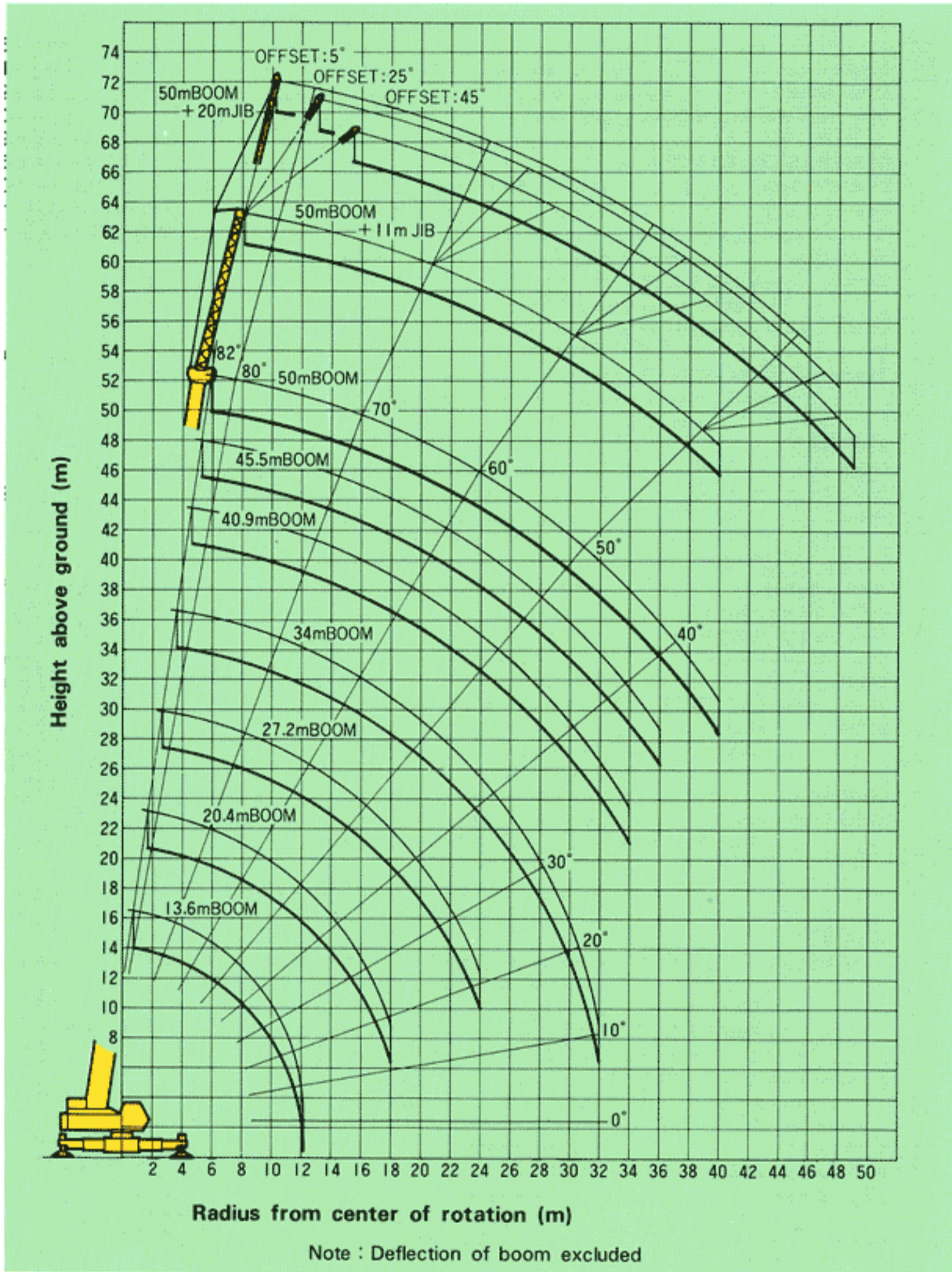
جر ثقيل پرميس



KATO WORKS CO.,LTD.

جرثقیل پارمیس

WORKING RANGES



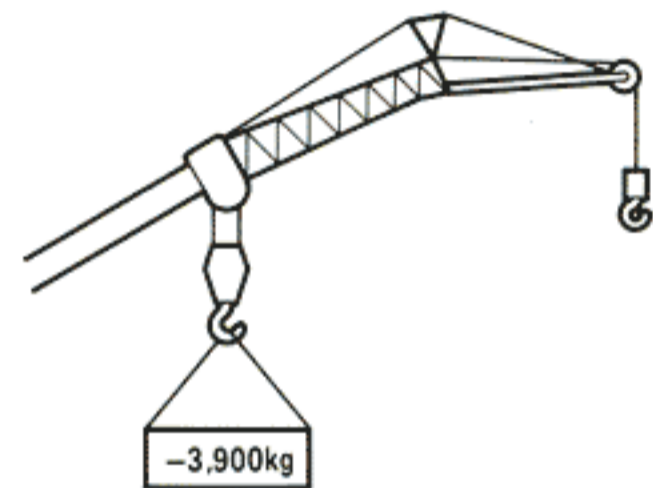
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RATED LIFTING CAPACITY (DIN 15019 Blatt2)

in metric ton

Working radius (m)	13.6m Boom		20.4m Boom		27.2m Boom		34.0m Boom		40.9m Boom		45.5m Boom		50m Boom	
	360°	Over rear	360°	Over rear	360°	Over rear	360°	Over rear	360°	Over rear	360°	Over rear	360°	Over rear
3.35	120.00	←	50.00	←	40.00	←								
4.0	100.00	←	50.00	←	40.00	←								
4.5	87.20	←	50.00	←	40.00	←	32.00	←						
5.5	72.30	←	50.00	←	40.00	←	32.00	←	26.00	←				
6.5	59.00	←	50.00	←	40.00	←	32.00	←	26.00	←	20.00	←		
7.5	49.40	←	44.05	←	40.00	←	32.00	←	26.00	←	20.00	←	15.00	←
8.5	42.50	←	39.15	←	35.60	←	32.00	←	26.00	←	20.00	←	15.00	←
9.5	37.50	←	35.80	←	32.05	←	28.75	←	26.00	←	20.00	←	15.00	←
10.0	35.30	←	34.25	←	30.50	←	27.35	←	24.55	←	20.00	←	15.00	←
10.5	32.85	←	32.85	←	29.05	←	26.05	←	23.25	←	20.00	←	15.00	←
11.0	31.30	←	31.30	←	27.75	←	24.95	←	22.00	←	19.25	←	15.00	←
12.0	26.60	27.10	26.60	27.10	25.40	←	22.95	←	19.90	←	17.60	←	15.00	←
13.0			22.70	23.45	22.70	23.45	21.15	←	18.30	←	16.30	←	13.80	←
14.0			19.50	20.40	19.50	20.40	19.50	←	17.00	←	15.10	←	12.80	←
15.0			17.05	17.95	17.05	17.95	17.05	17.95	15.80	←	14.10	←	11.95	←
16.0			14.90	15.80	14.90	15.80	14.90	15.80	14.75	←	13.27	←	11.15	←
18.0			11.55	12.45	11.55	12.45	11.55	12.45	11.55	12.45	11.75	←	9.90	←
20.0					9.05	9.90	9.05	9.90	9.05	9.90	9.85	10.50	8.80	←
22.0					7.10	7.90	7.10	7.90	7.10	7.90	7.90	8.65	7.90	←
24.0					5.55	6.30	5.55	6.30	5.55	6.30	6.30	7.05	7.05	7.20
26.0							4.25	5.00	4.25	5.00	5.00	5.70	5.70	6.40
28.0							3.20	3.90	3.20	3.90	3.95	4.60	4.60	5.25
30.0							2.30	2.95	2.30	2.95	3.00	3.65	3.70	4.30
32.0							1.50	2.15	1.50	2.15	2.20	2.85	2.90	3.50
34.0									0.85	1.45	1.55	2.15	2.20	2.75
36.0											1.00	1.55	1.60	2.15
38.0													1.05	1.60
40.0													0.60	1.10
Standard hook	for 120 tons		for 50 tons										for 15 tons	
Hook weight	1,050kg		600kg										330kg	
Parts of line	14		6		5		4		3		3		2	
Min. boom angle									15°		30°		35°	

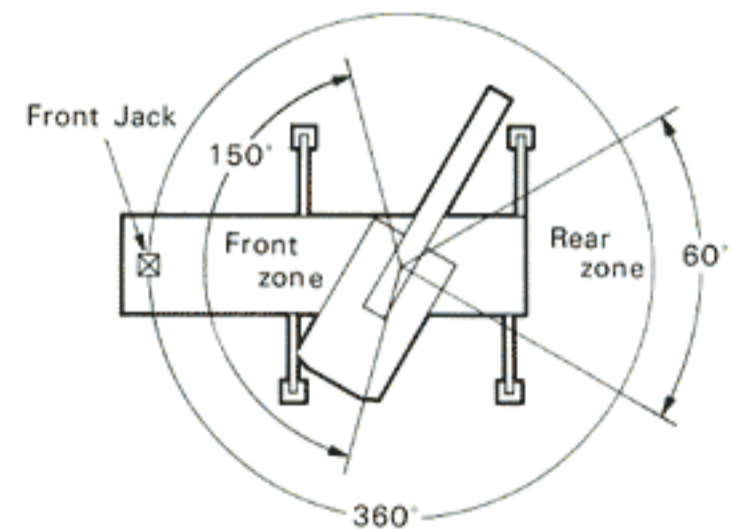
- When the boom length exceeds the specified value, the rated lifting capacities for the boom lengths adjacent to the present boom length should be referred to, and the crane should be operated with the smaller lifting capacity. Especially for 13.6m boom, operate the crane with the rated lifting capacities for 20.4m boom except when the boom is fully retracted.
- For a working radius between the main specified values, refer to the larger working radius, or the smaller load. For a boom angle for jib operation between the main specified values, similarly refer to the lower angle, or the smaller load.
- When using the boom with the jib installed 3.900kg should be subtracted from rated lifting capacities besides the weight of the hoisting equipment, etc.



- "360°" in the table means lifting over the entire circumference, and "over rear" does lifting over rear within a zone of 60°.
- Lifting over front (a zone of 150° in front of the carrier) is not permitted if front jack is not used.

Radius in meter, load in metric ton

Boom angle (°)	50m Boom + 11m Jib (5°)				50m Boom + 20m Jib (5°)				50m Boom + 20m Jib (25°)				50m Boom + 20m Jib (45°)			
	360°		Over rear		360°		Over rear		360°		Over rear		360°		Over rear	
	Working radius	Load	Working radius	Load	Working radius	Load	Working radius	Load	Working radius	Load	Working radius	Load	Working radius	Load	Working radius	Load
79°	15.0	7.50	←	←	18.0	4.70	←	←	20.5	3.40	←	←	22.2	2.30	←	←
77.5°	16.6	7.05	←	←	19.6	4.45	←	←	22.3	3.30	←	←	24.0	2.30	←	←
76°	18.2	6.55	←	←	21.6	4.15	←	←	24.0	3.05	←	←	25.7	2.25	←	←
74°	20.2	5.90	←	←	23.9	3.75	←	←	26.3	2.80	←	←	27.8	2.20	←	←
72°	22.1	5.30	←	←	26.0	3.40	←	←	28.5	2.60	←	←	30.0	2.15	←	←
70°	24.0	4.80	←	←	28.2	3.05	←	←	30.7	2.40	←	←	32.2	2.10	←	←
68°	26.0	4.40	←	←	30.5	2.75	←	←	32.9	2.20	←	←	34.3	2.05	←	←
66°	28.0	4.05	←	←	32.8	2.50	←	←	35.1	2.05	←	←	36.5	1.90	←	←
64°	29.9	3.75	←	←	34.9	2.30	←	←	37.2	1.90	←	←	38.4	1.80	←	←
62°	32.1	3.40	32.1	3.50	37.0	2.10	←	←	39.1	1.80	←	←	40.1	1.70	←	←
60°	33.4	2.75	33.4	3.35	39.0	1.95	←	←	41.1	1.70	←	←	42.0	1.60	←	←
58°	35.0	2.20	35.1	2.75	41.0	1.75	41.0	1.80	43.0	1.60	←	←	43.9	1.50	←	←
56°	36.6	1.75	36.8	2.20	43.0	1.35	43.0	1.65	44.8	1.30	44.8	1.50	45.8	1.35	45.8	1.40
54°	38.0	1.35	38.3	1.80	44.8	1.00	44.9	1.45	46.5	1.00	46.6	1.40	47.5	1.05	47.5	1.35
52°	39.5	0.95	39.8	1.40	46.4	0.70	46.6	1.10	48.1	0.80	48.3	1.20	49.0	0.75	49.0	1.20
50°	41.0	0.65	41.3	1.10												
Use hook	for 7.5 tons (weight : 320kg)															
Min. boom angle	48°				50°				50°				50°			



[NOTE]

- 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.
- The rated lifting capacities include the weight of hook block and other lifting equipment. The capacities in the blue area are based on the structural strength.
- The working radii given in the table for main boom operation are the actual values including the deflection of the booms. Therefore operate the crane based on the working radius.
- The working radii given in the table for jib operation indicate the values when operating 50m boom with jib mounted on it, and the crane should be operated based on the working radii. For other boom lengths, carry out jib operation based on boom angle alone.
- The arrows in the tables indicate that "load" for lifting over rear is the same as that for 360°.
- Do not lower the boom below the min. boom angle for each boom length. Otherwise the machine might tip over even without load. When the boom length exceeds the specified value, do not lower the boom below the min. boom angle for the next longer boom.
- The number of parts of line optimum for the hook is determined according to lifting load, winch capacity, rope length, etc. Standard hook and parts of line for each boom length are shown in the table.
- The rated lifting capacities for the rooster sheave are equal to those of the main boom, but the maximum rated lifting capacity is 7,500kg, which includes the weight of hook blocks for the rooster sheave operation and main boom operation.
- The crane will tip-over or be damaged if operated with a load other than specified in the rated lifting capacity table or not conforming to correct handling.