

Duty Cycle Capacities

Boom No. 83
24 040 kg Counterweight
7 163 mm Crawlers Extended
Crawler Machine on a Barge
0 Degree thru 1 Degree and
1 Degree thru 3 Degree Machine List
360 Degree Rating - Limited Duty

LIFTING CAPACITIES: Capacities are for a crawler machine when operating on a barge. Machine shall be positively secured to prevent shifting. Capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 67.5% of a static tipping load. Capacities are based on tipping, structural competence(*), operating speeds and other factors.

Duty cycle capacities shown are intended for limited duration applications. Continuous operation at these capacities may reduce component life.

Weight of bucket is considered part of load. Where no capacity is shown, operation is not intended or approved.

OPERATING CONDITIONS: Machine to operate in a level position on a firm uniformly supporting surface, machine list not to exceed degrees noted and gantry up. Refer to boom rigging **No. A06546** and Wire Rope Specification chart **No. 8474-C**. Crane operator judgment must be used to allow for adverse operating conditions and physical machine depreciation. Refer to operators manual for operating guidelines.

OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation at barge deck to center of gravity

of the freely suspended load. Boom angle is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius.

MACHINE EQUIPMENT: Machine equipped with 7 163 mm extendible crawlers, 1 000 mm treads, 2 921 mm gantry, 7 620 mm live mast, 12 part boom hoist reeving, two 38 mm pendants and 24 040 kg counterweight.

Upper Boom Point Deduct

Deduct 590 kg from capacities when upper boom point is attached.

Auxiliary Drum Deduct

Deduct 910 kg from boom capacities when boom butt is equipped with auxiliary drum.

Oper. Radius Meters	Boom Angle Deg.	0 Degree Thru 1 Degree Machine List Boom Capacity Kilograms	1 Degree Thru 3 Degree Machine List Boom Capacity Kilograms
15.2m (50 Ft.) Boom			
9.1	64.1	29 700 *	25 900 *
10.0	60.4	28 700 *	25 600 *
12.0	51.0	24 300	22 500
14.0	39.8	19 500	18 300
18.3m (60 Ft.) Boom			
9.1	68.8	29 500 *	25 700 *
10.0	65.8	28 700 *	25 500 *
12.0	58.6	24 200	22 200
14.0	50.6	19 400	18 000
16.0	41.5	16 100	15 000
18.0	30.2	13 500	12 800

Oper. Radius Meters	Boom Angle Deg.	0 Degree Thru 1 Degree Machine List Boom Capacity Kilograms	1 Degree Thru 3 Degree Machine List Boom Capacity Kilograms
21.3m (70 Ft.) Boom			
9.1	72.0	29 400 *	25 500 *
10.0	69.5	28 600	25 200
12.0	63.5	24 100	21 800
14.0	57.2	19 300	17 700
16.0	50.4	16 000	14 800
18.0	42.7	13 500	12 600
20.0	33.6	11 500	10 900

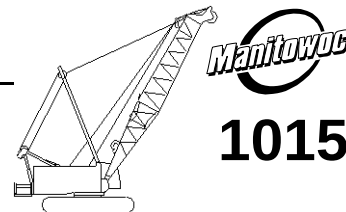


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24.4m (80 Ft.) Boom			
7.6	78.0	29 100 *	25 300 *
8.0	77.1	29 100 *	25 300 *
10.0	72.2	28 200	24 700
12.0	67.1	23 700	21 100
14.0	61.8	18 900	17 100
16.0	56.2	15 700	14 300
18.0	50.2	13 200	12 200
20.0	43.6	11 300	10 500
22.0	35.9	9 700	9 100
24.0	26.3	8 400	8 000
27.4m (90 Ft.) Boom			
7.6	79.4	28 300 *	25 100 *
8.0	78.6	28 200 *	25 100 *
10.0	74.2	27 100 *	24 400
12.0	69.8	23 400	20 600
14.0	65.2	18 800	16 800
16.0	60.5	15 600	14 100
18.0	55.4	13 100	12 000
20.0	50.1	11 200	10 300
22.0	44.2	9 600	8 900
24.0	37.6	8 300	7 800
26.0	29.7	7 300	6 800
30.5m (100 Ft.) Boom			
7.6	80.4	26 000 *	23 500 *
8.0	79.7	25 900 *	23 300 *
10.0	75.9	25 000 *	22 600 *
12.0	71.9	22 900	20 000
14.0	67.9	18 500	16 400
16.0	63.7	15 300	13 700
18.0	59.4	12 900	11 600
20.0	54.8	11 000	10 000
22.0	50.0	9 500	8 600
24.0	44.7	8 200	7 500
26.0	38.9	7 100	6 600
28.0	32.2	6 200	5 800
30.0	23.8	5 400	5 000

Oper. Radius Meters	Boom Angle Deg.	0 Degree Thru 1 Degree Machine List Boom Capacity Kilograms	1 Degree Thru 3 Degree Machine List Boom Capacity Kilograms
33.5m (110 Ft.) Boom			
7.6	81.3	18 900 *	17 100 *
8.0	80.7	18 700 *	16 900 *
10.0	77.2	17 800 *	16 100 *
12.0	73.6	16 900 *	15 400 *
14.0	70.0	16 100 *	14 600 *
16.0	66.3	15 100	13 600
18.0	62.4	13 000	11 600
20.0	58.5	11 100	10 000
22.0	54.3	9 500	8 700
24.0	49.9	8 300	7 500
26.0	45.1	7 200	6 600
28.0	39.9	6 300	5 800
30.0	34.1	5 500	5 100
32.0	27.1	4 800	4 500
36.6m (120 Ft.) Boom			
7.6	82.1	18 400 *	16 600 *
8.0	81.5	18 200 *	16 400 *
10.0	78.3	17 200 *	15 600 *
12.0	75.0	16 300 *	14 800 *
14.0	71.7	15 500 *	14 100 *
16.0	68.4	14 600	13 100
18.0	64.9	12 900	11 300
20.0	61.4	10 900	9 700
22.0	57.7	9 400	8 400
24.0	53.8	8 100	7 300
26.0	49.8	7 000	6 400
28.0	45.5	6 100	5 600
30.0	40.8	5 400	4 900
32.0	35.6	4 700	4 300
34.0	29.5	4 100	3 700
36.0	22.0	3 500	3 300


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39.6m (130 Ft.) Boom			
7.6	82.7	17 900 *	16 100 *
8.0	82.1	17 700 *	16 000 *
10.0	79.2	16 700 *	15 200 *
12.0	76.2	15 800 *	14 300 *
14.0	73.2	14 900 *	13 600 *
16.0	70.1	14 100 *	12 700
18.0	67.0	12 700	11 000
20.0	63.8	10 700	9 400
22.0	60.5	9 200	8 100
24.0	57.0	7 900	7 100
26.0	53.5	6 900	6 200
28.0	49.7	6 000	5 400
30.0	45.8	5 200	4 700
32.0	41.5	4 500	4 100
34.0	36.8	3 900	3 600
36.0	31.5	3 400	3 100
38.0	25.1	2 900	2 600
42.7m (140 Ft.) Boom			
9.1	81.1	16 600 *	15 100 *
10.0	80.0	16 200 *	14 700 *
12.0	77.2	15 200 *	13 800 *
14.0	74.4	14 300 *	13 000 *
16.0	71.6	13 500 *	12 200
18.0	68.7	12 300	10 700
20.0	65.8	10 500	9 100
22.0	62.8	9 000	7 900
24.0	59.7	7 700	6 800
26.0	56.5	6 700	5 900
28.0	53.2	5 800	5 100
30.0	49.7	5 000	4 500
32.0	46.0	4 400	3 900
34.0	42.1	3 800	3 300
36.0	37.8	3 200	2 900
38.0	33.0	2 700	2 400
40.0	27.5	2 300	2 100
42.0	20.7	1 900	

Oper. Radius Meters	Boom Angle Deg.	0 Degree Thru 1 Degree Machine List Boom Capacity Kilograms	1 Degree Thru 3 Degree Machine List Boom Capacity Kilograms
45.7m (150 Ft.) Boom			
9.1	81.7	12 300 *	10 700 *
10.0	80.6	12 100 *	10 500 *
12.0	78.1	11 500 *	10 100 *
14.0	75.5	11 000 *	9 700 *
16.0	72.9	10 600 *	9 200 *
18.0	70.2	10 100 *	8 900 *
20.0	67.5	9 600 *	8 400
22.0	64.8	9 000	7 900
24.0	61.9	7 700	6 700
26.0	59.0	6 700	5 900
28.0	56.0	5 800	5 100
30.0	52.9	5 000	4 400
32.0	49.6	4 400	3 800
34.0	46.2	3 800	3 300
36.0	42.6	3 300	2 900
38.0	38.6	2 800	2 400
40.0	34.3	2 400	2 100
42.0	29.4	2 000	
48.8m (160 Ft.) Boom			
9.1	82.2	11 900 *	10 400 *
10.0	81.2	11 600 *	10 200 *
12.0	78.8	11 100 *	9 700 *
14.0	76.4	10 500 *	9 200 *
16.0	74.0	10 000 *	8 800 *
18.0	71.5	9 500 *	8 400 *
20.0	69.0	9 100 *	7 900 *
22.0	66.4	8 500	7 400
24.0	63.8	7 600	6 500
26.0	61.2	6 500	5 600
28.0	58.4	5 600	4 800
30.0	55.6	4 800	4 200
32.0	52.7	4 200	3 600
34.0	49.6	3 600	3 100
36.0	46.4	3 100	2 600
38.0	43.0	2 600	2 200
40.0	39.4	2 200	