

Duty Cycle Capacities

Boom No. 83
24 040 kg Counterweight
Pedestal Mount
0 Degree thru 1 Degree and
1 Degree thru 3 Degree Machine List
360 Degree Rating - Limited Duty

LIFTING CAPACITIES: Capacities for various boom lengths and operating radii are for freely suspended loads and are based on 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 with turntable bearing properly supported 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 top of turntable bearing to center of vertical hoist line or load block. 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 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

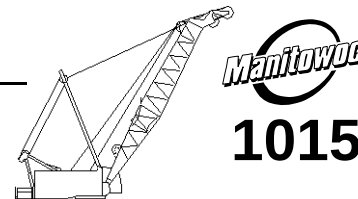
Deduct 590 kg from capacities when upper boom point is attached.

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	25 000	22 600
14.0	39.8	21 200	18 900
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	25 000	22 600
14.0	50.6	21 200	18 900
16.0	41.5	18 400	16 300
18.0	30.2	16 300	14 300

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	25 400
12.0	63.5	25 000	22 600
14.0	57.2	21 200	18 900
16.0	50.4	18 400	16 300
18.0	42.7	16 300	14 300
20.0	33.6	14 600	12 700

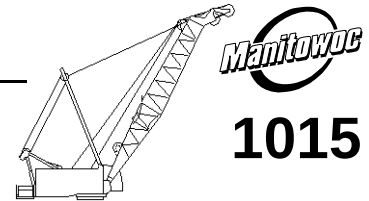


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24.4m (80 Ft.) Boom			
7.6	78.0	29 100	25 300
8.0	77.1	29 100	25 300
10.0	72.2	28 500	25 300
12.0	67.1	25 000	22 300
14.0	61.8	21 100	18 800
16.0	56.2	18 400	16 200
18.0	50.2	16 300	14 200
20.0	43.6	14 500	12 600
22.0	35.9	13 200	11 300
24.0	26.3	12 000	10 200
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	24 700
12.0	69.8	24 800	22 200
14.0	65.2	21 100	18 800
16.0	60.5	18 400	16 200
18.0	55.4	16 300	14 200
20.0	50.1	14 500	12 600
22.0	44.2	13 200	11 300
24.0	37.6	12 000	10 200
26.0	29.7	11 000	9 300
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	24 200	21 800
14.0	67.9	21 100	18 700
16.0	63.7	18 400	16 100
18.0	59.4	16 200	14 100
20.0	54.8	14 500	12 500
22.0	50.0	13 100	11 200
24.0	44.7	12 000	10 100
26.0	38.9	11 000	9 200
28.0	32.2	10 100	8 400
30.0	23.8	8 900	7 700

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	15 400	14 000
18.0	62.4	14 700	13 300
20.0	58.5	13 900	12 600
22.0	54.3	13 200	11 300
24.0	49.9	12 000	10 200
26.0	45.1	11 000	9 300
28.0	39.9	10 200	8 400
30.0	34.1	9 400	7 800
32.0	27.1	8 800	7 100
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	14 700	13 400
18.0	64.9	13 900	12 700
20.0	61.4	13 200	12 000
22.0	57.7	12 500	11 300
24.0	53.8	11 900	10 100
26.0	49.8	11 000	9 200
28.0	45.5	10 200	8 400
30.0	40.8	9 400	7 700
32.0	35.6	8 700	7 100
34.0	29.5	7 600	6 500
36.0	22.0	6 100	5 700



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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	12 800
18.0	67.0	13 400	12 200
20.0	63.8	12 600	11 500
22.0	60.5	11 900	10 900
24.0	57.0	11 300	10 100
26.0	53.5	10 600	9 100
28.0	49.7	10 000	8 300
30.0	45.8	9 400	7 600
32.0	41.5	8 500	7 000
34.0	36.8	7 400	6 500
36.0	31.5	6 400	6 000
38.0	25.1	5 500	5 300
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	12 300
18.0	68.7	12 700	11 600
20.0	65.8	12 000	10 900
22.0	62.8	11 300	10 300
24.0	59.7	10 600	9 700
26.0	56.5	10 000	9 000
28.0	53.2	9 400	8 300
30.0	49.7	8 800	7 600
32.0	46.0	8 200	6 900
34.0	42.1	7 200	6 400
36.0	37.8	6 200	5 900
38.0	33.0	5 400	5 100
40.0	27.5	4 600	4 400
42.0	20.7	3 500	3 400

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	9 200	8 100
24.0	61.9	8 800	7 700
26.0	59.0	8 400	7 300
28.0	56.0	8 000	7 000
30.0	52.9	7 600	6 700
32.0	49.6	7 300	6 300
34.0	46.2	6 900	6 000
36.0	42.6	6 300	5 700
38.0	38.6	5 500	5 200
40.0	34.3	4 700	4 400
42.0	29.4	4 000	3 800
44.0	23.6	3 300	3 200
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	8 600	7 500
24.0	63.8	8 200	7 200
26.0	61.2	7 700	6 800
28.0	58.4	7 400	6 400
30.0	55.6	6 900	6 100
32.0	52.7	6 600	5 700
34.0	49.6	6 200	5 400
36.0	46.4	5 800	5 100
38.0	43.0	5 200	4 800
40.0	39.4	4 400	4 100
42.0	35.4	3 800	3 600
44.0	31.0	3 200	3 000
46.0	25.9	2 600	2 400