

# Duty Cycle Capacities

**Boom No. 83**  
**24 040 kg Counterweight**  
**Pedestal Mount - Land Based**  
**0 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.

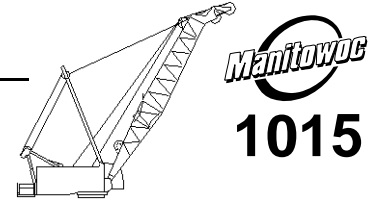
### Auxiliary Drum Deduct

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

Oper. Radius Meters	Boom Angle Deg.	0 Degree Machine List Boom Capacity Kilograms
<b>15.2m (50 Ft.) Boom</b>		
9.1	64.1	29 900
10.0	60.4	29 900
12.0	51.0	26 800
14.0	39.8	22 700
<b>18.3m (60 Ft.) Boom</b>		
9.1	68.8	29 900
10.0	65.8	29 900
12.0	58.6	26 800
14.0	50.6	22 700
16.0	41.5	19 900
18.0	30.2	17 600
<b>21.3m (70 Ft.) Boom</b>		
9.1	72.0	29 900
10.0	69.5	29 900
12.0	63.5	26 800
14.0	57.2	22 700
16.0	50.4	19 900
18.0	42.7	17 600
20.0	33.6	15 900

Oper. Radius Meters	Boom Angle Deg.	0 Degree Machine List Boom Capacity Kilograms
<b>24.4m (80 Ft.) Boom</b>		
7.6	78.0	29 900
8.0	77.1	29 900
10.0	72.2	29 900
12.0	67.1	26 800
14.0	61.8	22 700
16.0	56.2	19 900
18.0	50.2	17 600
20.0	43.6	15 900
22.0	35.9	14 400
24.0	26.3	13 200
<b>27.4m (90 Ft.) Boom</b>		
7.6	79.4	29 800
8.0	78.6	29 600
10.0	74.2	28 600
12.0	69.8	26 400
14.0	65.2	22 700
16.0	60.5	19 900
18.0	55.4	17 600
20.0	50.1	15 900
22.0	44.2	14 400
24.0	37.6	13 200
26.0	29.7	12 200

Oper. Radius Meters	Boom Angle Deg.	0 Degree Machine List Boom Capacity Kilograms
<b>30.5m (100 Ft.) Boom</b>		
7.6	80.4	27 500
8.0	79.7	27 300
10.0	75.9	26 400
12.0	71.9	25 500
14.0	67.9	22 700
16.0	63.7	19 900
18.0	59.4	17 600
20.0	54.8	15 900
22.0	50.0	14 400
24.0	44.7	13 200
26.0	38.9	12 200
28.0	32.2	11 200
30.0	23.8	9 300



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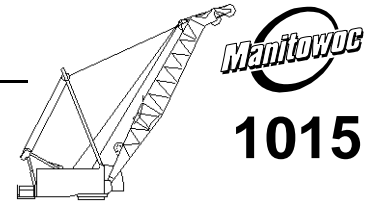
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Oper. Radius Meters	Boom Angle Deg.	0 Degree Machine List Boom Capacity Kilograms
<b>33.5m (110 Ft.) Boom</b>		
7.6	81.3	20 000
8.0	80.7	19 800
10.0	77.2	18 800
12.0	73.6	17 900
14.0	70.0	17 000
16.0	66.3	16 200
18.0	62.4	15 400
20.0	58.5	14 600
22.0	54.3	14 000
24.0	49.9	13 200
26.0	45.1	12 200
28.0	39.9	11 300
30.0	34.1	10 300
32.0	27.1	8 900
<b>36.6m (120 Ft.) Boom</b>		
7.6	82.1	19 400
8.0	81.5	19 200
10.0	78.3	18 200
12.0	75.0	17 200
14.0	71.7	16 300
16.0	68.4	15 400
18.0	64.9	14 600
20.0	61.4	13 900
22.0	57.7	13 100
24.0	53.8	12 500
26.0	49.8	11 800
28.0	45.5	11 200
30.0	40.8	10 300
32.0	35.6	8 900
34.0	29.5	7 700
36.0	22.0	6 200

Oper. Radius Meters	Boom Angle Deg.	0 Degree Machine List Boom Capacity Kilograms
<b>39.6m (130 Ft.) Boom</b>		
7.6	82.7	18 900
8.0	82.1	18 700
10.0	79.2	17 600
12.0	76.2	16 600
14.0	73.2	15 700
16.0	70.1	14 800
18.0	67.0	14 000
20.0	63.8	13 200
22.0	60.5	12 500
24.0	57.0	11 800
26.0	53.5	11 100
28.0	49.7	10 500
30.0	45.8	9 800
32.0	41.5	8 800
34.0	36.8	7 600
36.0	31.5	6 600
38.0	25.1	5 600
<b>42.7m (140 Ft.) Boom</b>		
9.1	81.1	17 500
10.0	80.0	17 100
12.0	77.2	16 100
14.0	74.4	15 100
16.0	71.6	14 200
18.0	68.7	13 400
20.0	65.8	12 600
22.0	62.8	11 800
24.0	59.7	11 100
26.0	56.5	10 400
28.0	53.2	9 800
30.0	49.7	9 200
32.0	46.0	8 500
34.0	42.1	7 400
36.0	37.8	6 400
38.0	33.0	5 500
40.0	27.5	4 700
42.0	20.7	3 600

Oper. Radius Meters	Boom Angle Deg.	0 Degree Machine List Boom Capacity Kilograms
<b>45.7m (150 Ft.) Boom</b>		
9.1	81.7	13 100
10.0	80.6	12 900
12.0	78.1	12 300
14.0	75.5	11 800
16.0	72.9	11 300
18.0	70.2	10 800
20.0	67.5	10 300
22.0	64.8	9 900
24.0	61.9	9 400
26.0	59.0	9 000
28.0	56.0	8 500
30.0	52.9	8 200
32.0	49.6	7 800
34.0	46.2	7 300
36.0	42.6	6 500
38.0	38.6	5 600
40.0	34.3	4 800
42.0	29.4	4 100
44.0	23.6	3 400



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Oper. Radius Meters	Boom Angle Deg.	0 Degree Machine List Boom Capacity Kilograms
<b>48.8m (160 Ft.)</b>		
<b>Boom</b>		
9.1	82.2	12 700
10.0	81.2	12 400
12.0	78.8	11 900
14.0	76.4	11 300
16.0	74.0	10 800
18.0	71.5	10 200
20.0	69.0	9 700
22.0	66.4	9 200
24.0	63.8	8 800
26.0	61.2	8 300
28.0	58.4	7 900
30.0	55.6	7 400
32.0	52.7	7 000
34.0	49.6	6 700
36.0	46.4	6 200
38.0	43.0	5 400
40.0	39.4	4 600
42.0	35.4	3 900
44.0	31.0	3 300
46.0	25.9	2 700

Oper. Radius Meters	Boom Angle Deg.	0 Degree Machine List Boom Capacity Kilograms
<b>51.8m (170 Ft.)</b>		
<b>Boom</b>		
9.1	82.7	12 300
10.0	81.7	12 000
12.0	79.5	11 400
14.0	77.2	10 800
16.0	75.0	10 300
18.0	72.6	9 700
20.0	70.3	9 200
22.0	67.9	8 700
24.0	65.5	8 200
26.0	63.0	7 700
28.0	60.5	7 300
30.0	57.9	6 800
32.0	55.2	6 400
34.0	52.4	6 000
36.0	49.6	5 700
38.0	46.5	5 100
40.0	43.4	4 400
42.0	40.0	3 700
44.0	36.3	3 100
46.0	32.3	2 500
48.0	27.8	2 000