

Duty Cycle Capacities

Boom No. 83A
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, machine list not to exceed degrees noted and gantry up. Refer to boom rigging **No. A14196** and Wire Rope Specification chart **No. 8697-C**. Crane operator judgment must be used to allow for adverse operating conditions and physical machine depreciation. Refer to Operator's 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

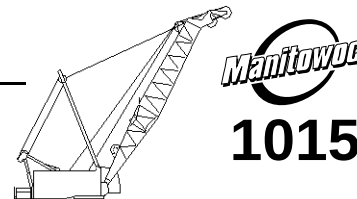
Deduct 910 kg from boom capacities when boom butt is equipped with auxiliary drum.

Wire Rope Guard Deduct

Deduct 455 kg from boom capacities when boom top is equipped with wire rope guard **No. A13283**.

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	25 600
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

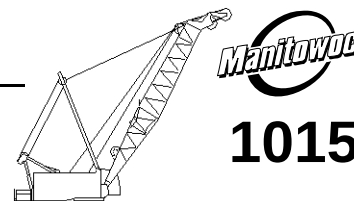


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24,4m (80 Ft.) Boom			
7,6	78,0	29 100	25 300
8,0	77,1	29 100	25 300
10,0	72,2	28 700	25 400
12,0	67,1	25 000	22 500
14,0	61,8	21 100	18 800
16,0	56,2	18 400	16 200
18,0	50,2	16 300	14 200
20,0	43,6	14 500	12 600
22,0	35,9	13 200	11 300
24,0	26,3	12 000	10 200
27,4m (90 Ft.) Boom			
7,6	79,4	27 900	25 100
8,0	78,6	27 700	25 000
10,0	74,2	26 700	24 300
12,0	69,8	24 700	22 200
14,0	65,2	21 100	18 800
16,0	60,5	18 400	16 200
18,0	55,4	16 200	14 200
20,0	50,1	14 500	12 600
22,0	44,2	13 200	11 200
24,0	37,6	12 000	10 200
26,0	29,7	11 000	9 200
30,5m (100 Ft.) Boom			
7,6	80,4	26 000	
8,0	79,7	25 900	
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	18 300	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	10 000	8 400
30,0	23,8	8 300	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	23 000	
8,0	80,7	22 900	
10,0	77,2	22 100	19 900
12,0	73,6	21 400	19 200
14,0	70,0	20 600	18 500
16,0	66,3	18 400	16 100
18,0	62,4	16 200	14 100
20,0	58,5	14 500	12 500
22,0	54,3	13 100	11 200
24,0	49,9	12 000	10 100
26,0	45,1	11 000	9 200
28,0	39,9	10 100	8 400
30,0	34,1	9 100	7 700
32,0	27,1	7 500	7 100
36,6m (120 Ft.) Boom			
9,1	79,6	21 000	18 700
10,0	78,3	20 700	18 500
12,0	75,0	20 000	17 900
14,0	71,7	19 400	17 300
16,0	68,4	18 400	16 200
18,0	64,9	16 200	14 000
20,0	61,4	14 500	12 400
22,0	57,7	13 100	11 100
24,0	53,8	11 900	10 000
26,0	49,8	10 900	9 100
28,0	45,5	10 100	8 300
30,0	40,8	9 300	7 600
32,0	35,6	7 900	7 000
34,0	29,5	6 500	6 300
36,0	22,0	5 100	4 900


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39,6m (130 Ft.) Boom			
9,1	80,4	18 500	
10,0	79,2	18 200	
12,0	76,2	17 700	15 600
14,0	73,2	17 100	15 200
16,0	70,1	16 600	14 700
18,0	67,0	16 000	13 900
20,0	63,8	14 500	12 400
22,0	60,5	13 100	11 100
24,0	57,0	11 900	9 900
26,0	53,5	10 900	9 000
28,0	49,7	10 100	8 200
30,0	45,8	9 200	7 500
32,0	41,5	8 100	6 900
34,0	36,8	6 900	6 300
36,0	31,5	5 600	5 400
38,0	25,1	4 400	4 200
42,7m (140 Ft.) Boom			
9,1	81,1	17 600	
10,0	80,0	17 400	
12,0	77,2	17 000	14 900
14,0	74,4	16 400	14 500
16,0	71,6	15 800	14 000
18,0	68,7	15 300	13 600
20,0	65,8	14 400	12 300
22,0	62,8	13 000	11 000
24,0	59,7	11 900	9 900
26,0	56,5	10 900	8 900
28,0	53,2	10 000	8 200
30,0	49,7	9 000	7 400
32,0	46,0	7 800	6 800
34,0	42,1	6 700	6 300
36,0	37,8	5 800	5 400
38,0	33,0	4 700	4 400
40,0	27,5	3 700	3 400
42,0	20,7	2 600	2 500

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	15 900	
10,0	80,6	15 700	
12,0	78,1	15 300	13 400
14,0	75,5	14 900	13 000
16,0	72,9	14 400	12 600
18,0	70,2	14 000	12 300
20,0	67,5	13 600	11 900
22,0	64,8	13 000	11 000
24,0	61,9	11 900	9 800
26,0	59,0	10 900	8 900
28,0	56,0	9 900	8 100
30,0	52,9	8 700	7 500
32,0	49,6	7 600	6 800
34,0	46,2	6 600	6 100
36,0	42,6	5 700	5 300
38,0	38,6	4 900	4 500
40,0	34,3	4 000	3 600
42,0	29,4	3 100	2 800
44,0	23,6	2 200	2 000
48,8m (160 Ft.) Boom			
10,7	80,4	14 800	
12,0	78,8	14 500	
14,0	76,4	14 100	12 300
16,0	74,0	13 700	11 900
18,0	71,5	13 200	11 600
20,0	69,0	12 800	11 200
22,0	66,4	12 400	10 700
24,0	63,8	11 800	9 800
26,0	61,2	10 800	8 800
28,0	58,4	9 600	8 000
30,0	55,6	8 300	7 400
32,0	52,7	7 200	6 600
34,0	49,6	6 200	5 700
36,0	46,4	5 400	4 900
38,0	43,0	4 600	4 200
40,0	39,4	3 900	3 500
42,0	35,4	3 100	2 800
44,0	31,0	2 300	2 100