
1015

Duty Cycle Capacities

Boom No. 83A
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. 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.

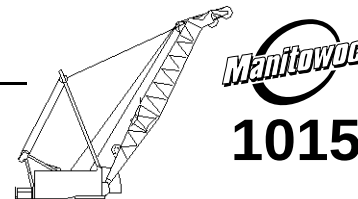
Wire Rope Guard Deduct

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 Machine List Boom Capacity Kilograms
15,2m (50 Ft.) Boom		
9,1	64,1	25 900
10,0	60,4	25 600
12,0	51,0	22 600
14,0	39,8	18 900
18,3m (60 Ft.) Boom		
9,1	68,8	25 600
10,0	65,8	25 500
12,0	58,6	22 600
14,0	50,6	18 900
16,0	41,5	16 300
18,0	30,2	14 300

Oper. Radius Meters	Boom Angle Deg.	0 Degree Machine List Boom Capacity Kilograms
21,3m (70 Ft.) Boom		
9,1	72,0	25 500
10,0	69,5	25 400
12,0	63,5	22 600
14,0	57,2	18 900
16,0	50,4	16 300
18,0	42,7	14 300
20,0	33,6	12 700
24,4m (80 Ft.) Boom		
7,6	78,0	25 300
8,0	77,1	25 300
10,0	72,2	25 400
12,0	67,1	22 500
14,0	61,8	18 800
16,0	56,2	16 200
18,0	50,2	14 200
20,0	43,6	12 600
22,0	35,9	11 300
24,0	26,3	10 200

Oper. Radius Meters	Boom Angle Deg.	0 Degree Machine List Boom Capacity Kilograms
27,4m (90 Ft.) Boom		
7,6	79,4	25 100
8,0	78,6	25 000
10,0	74,2	24 300
12,0	69,8	22 200
14,0	65,2	18 800
16,0	60,5	16 200
18,0	55,4	14 200
20,0	50,1	12 600
22,0	44,2	11 200
24,0	37,6	10 200
26,0	29,7	9 200



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30,5m (100 Ft.) Boom		
7,6	80,4	26 000
8,0	79,7	25 300
10,0	75,9	22 300
12,0	71,9	21 800
14,0	67,9	18 700
16,0	63,7	16 100
18,0	59,4	14 100
20,0	54,8	12 500
22,0	50,0	11 200
24,0	44,7	10 100
26,0	38,9	9 200
28,0	32,2	8 400
30,0	23,8	7 700
33,5m (110 Ft.) Boom		
7,6	81,3	23 000
8,0	80,7	22 300
10,0	77,2	19 600
12,0	73,6	19 200
14,0	70,0	18 500
16,0	66,3	16 100
18,0	62,4	14 100
20,0	58,5	12 500
22,0	54,3	11 200
24,0	49,9	10 100
26,0	45,1	9 200
28,0	39,9	8 400
30,0	34,1	7 700
32,0	27,1	7 100
36,6m (120 Ft.) Boom		
9,1	79,6	18 700
10,0	78,3	18 500
12,0	75,0	17 900
14,0	71,7	17 300
16,0	68,4	16 200
18,0	64,9	14 000
20,0	61,4	12 400
22,0	57,7	11 100
24,0	53,8	10 000
26,0	49,8	9 100
28,0	45,5	8 300
30,0	40,8	7 600
32,0	35,6	7 000
34,0	29,5	6 300
36,0	22,0	4 900

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

Oper. Radius Meters	Boom Angle Deg.	0 Degree Machine List Boom Capacity Kilograms
45,7m (150 Ft.) Boom		
9,1	81,7	15 900
10,0	80,6	14 600
12,0	78,1	13 300
14,0	75,5	13 000
16,0	72,9	12 600
18,0	70,2	12 300
20,0	67,5	11 900
22,0	64,8	11 000
24,0	61,9	9 800
26,0	59,0	8 900
28,0	56,0	8 100
30,0	52,9	7 500
32,0	49,6	6 800
34,0	46,2	6 100
36,0	42,6	5 300
38,0	38,6	4 500
40,0	34,3	3 600
42,0	29,4	2 800
44,0	23,6	2 000
48,8m (160 Ft.) Boom		
10,7	80,4	14 800
12,0	78,8	14 500
14,0	76,4	12 100
16,0	74,0	11 900
18,0	71,5	11 600
20,0	69,0	11 200
22,0	66,4	10 700
24,0	63,8	9 800
26,0	61,2	8 800
28,0	58,4	8 000
30,0	55,6	7 400
32,0	52,7	6 600
34,0	49,6	5 700
36,0	46,4	4 900
38,0	43,0	4 200
40,0	39,4	3 500
42,0	35,4	2 800
44,0	31,0	2 100