

1015

Duty Cycle Capacities

Boom No. 83A
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 on a firm uniformly supporting surface, 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 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.

Wire Rope Guard Deduct

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

Maximum Boom Lengths Lifted Unassisted

Over Front of Blocked Crawlers	Over Rear of Blocked Crawlers	Over Side of Extended Crawlers	Over Side of Retracted Crawlers
48,8m	48,8m	42,7m	39,6m

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	19 400	18 300

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
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	24 200	22 200
14,0	50,6	19 400	18 000
16,0	41,5	16 000	15 000
18,0	30,2	13 500	12 800

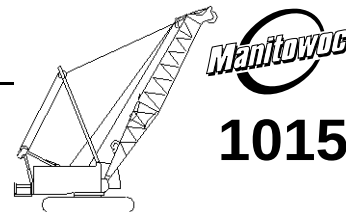


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21,3m (70 Ft.) Boom			
9,1	72,0	29 400 *	25 500 *
10,0	69,5	28 600	25 200
12,0	63,5	24 100	21 800
14,0	57,2	19 300	17 700
16,0	50,4	16 000	14 800
18,0	42,7	13 500	12 600
20,0	33,6	11 500	10 800
24,4m (80 Ft.) Boom			
7,6	78,0	29 100 *	25 300 *
8,0	77,1	29 100 *	25 300 *
10,0	72,2	28 500	25 000
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	7 900
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 *	24 200
12,0	69,8	23 300	20 600
14,0	65,2	18 700	16 700
16,0	60,5	15 500	14 000
18,0	55,4	13 100	11 900
20,0	50,1	11 200	10 200
22,0	44,2	9 600	8 900
24,0	37,6	8 300	7 700
26,0	29,7	7 200	6 800
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	22 800	20 000
14,0	67,9	18 500	16 300
16,0	63,7	15 300	13 700
18,0	59,4	12 900	11 600
20,0	54,8	10 900	9 900
22,0	50,0	9 400	8 600
24,0	44,7	8 100	7 400
26,0	38,9	7 100	6 500
28,0	32,2	6 100	5 700
30,0	23,8	5 300	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	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	18 400	16 000
16,0	66,3	15 200	13 400
18,0	62,4	12 800	11 400
20,0	58,5	10 900	9 800
22,0	54,3	9 400	8 400
24,0	49,9	8 100	7 300
26,0	45,1	7 000	6 400
28,0	39,9	6 100	5 600
30,0	34,1	5 300	4 900
32,0	27,1	4 600	4 300
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	18 300	15 700
16,0	68,4	14 900	13 100
18,0	64,9	12 500	11 100
20,0	61,4	10 700	9 500
22,0	57,7	9 100	8 200
24,0	53,8	7 900	7 100
26,0	49,8	6 800	6 100
28,0	45,5	5 900	5 400
30,0	40,8	5 100	4 700
32,0	35,6	4 400	4 000
34,0	29,5	3 900	3 500
36,0	22,0	3 300	3 000


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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	17 000	15 000
16,0	70,1	14 900	12 800
18,0	67,0	12 300	10 800
20,0	63,8	10 400	9 200
22,0	60,5	9 000	7 900
24,0	57,0	7 700	6 800
26,0	53,5	6 700	5 900
28,0	49,7	5 700	5 100
30,0	45,8	5 000	4 500
32,0	41,5	4 300	3 900
34,0	36,8	3 700	3 300
36,0	31,5	3 200	2 900
38,0	25,1	2 700	2 400
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	16 300	14 400
16,0	71,6	14 700	12 400
18,0	68,7	12 100	10 400
20,0	65,8	10 300	8 900
22,0	62,8	8 700	7 600
24,0	59,7	7 500	6 600
26,0	56,5	6 400	5 700
28,0	53,2	5 600	4 900
30,0	49,7	4 800	4 200
32,0	46,0	4 100	3 600
34,0	42,1	3 500	3 100
36,0	37,8	3 000	2 600
38,0	33,0	2 500	2 200
40,0	27,5	2 100	

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