
1015

Clamshell/Grapple 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

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.

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-B**. 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

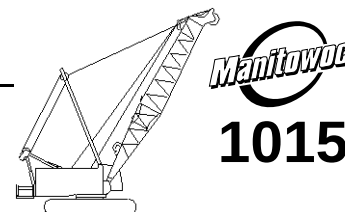
Deduct 910 kg from boom capacities when boom butt is equipped with auxiliary drum.

Wire Rope Guard Deduct

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

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	18 100 *	18 100 *
10,0	60,4	18 100 *	18 100 *
12,0	51,0	18 100 *	18 100 *
14,0	39,8	17 900	17 800
18,3m (60 Ft.) Boom			
9,1	68,8	18 100 *	18 100 *
10,0	65,8	18 100 *	18 100 *
12,0	58,6	18 100 *	18 100 *
14,0	50,6	17 900	17 700
16,0	41,5	16 200	15 100
18,0	30,2	13 500	12 800

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			
10,7	67,5	18 100 *	18 100 *
12,0	63,5	18 100 *	18 100 *
14,0	57,2	17 900	17 700
16,0	50,4	16 200	14 800
18,0	42,7	13 500	12 600
20,0	33,6	11 500	10 800
24,4m (80 Ft.) Boom			
12,2	66,6	18 100 *	18 100 *
14,0	61,8	17 900	17 300
16,0	56,2	15 900	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



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27,4m (90 Ft.) Boom			
13,7	65,9	18 100 *	17 200
14,0	65,2	17 800	16 800
16,0	60,5	15 700	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			
15,2	65,3	16 400	14 600
16,0	63,7	15 400	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			
15,2	67,7	16 300	14 300
16,0	66,3	15 200	13 500
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	
36,6m (120 Ft.) Boom			
16,8	67,1	14 000	12 200
18,0	64,9	12 600	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