

1015

Clamshell/Grapple Capacities

Boom No. 83A
53,000 Lb. Counterweight
23 Ft. 6 in. 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 23 Ft. 6 in. extendible crawlers, 39-3/8 in. treads, 9 Ft. 7 in. gantry, 25 Ft. live mast, 12 part boom hoist reeving, two 1-1/2 in. pendants and 53,000 Lb. counterweight.

Upper Boom Point Deduct

Deduct 1,300 Lbs. from capacities when upper boom point is attached.

Auxiliary Drum Deduct

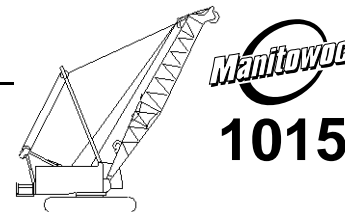
Deduct 2,000 Lbs. from boom capacities when boom butt is equipped with auxiliary drum.

Wire Rope Guard Deduct

Deduct 1,000 Lbs. from boom capacities when boom top is equipped with wire rope guard **No. A13283**.

Oper. Radius Feet	Boom Angle Deg.	0 Degree Thru 1 Degree Machine List Boom Capacity Pounds	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds
50 Ft. Boom			
30	64.1	40,000 *	40,000 *
35	57.4	40,000 *	40,000 *
40	50.0	40,000 *	40,000 *
45	41.6	40,000 *	40,000 *
50	31.2	38,000	36,100
60 Ft. Boom			
30	68.8	40,000 *	40,000 *
35	63.4	40,000 *	40,000 *
40	57.8	40,000 *	40,000 *
45	51.8	40,000 *	40,000 *
50	45.2	38,000	35,500
55	37.6	33,100	31,200
60	28.1	29,100	27,600

Oper. Radius Feet	Boom Angle Deg.	0 Degree Thru 1 Degree Machine List Boom Capacity Pounds	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds
70 Ft. Boom			
35	67.5	40,000 *	40,000 *
40	62.9	40,000 *	40,000 *
45	58.1	40,000 *	40,000 *
50	53.1	37,900	34,900
55	47.6	33,100	30,700
60	41.5	29,100	27,200
65	34.5	25,800	24,300
70	25.9	23,000	21,800
80 Ft. Boom			
40	66.6	40,000 *	40,000 *
45	62.6	40,000 *	38,900
50	58.4	37,200	33,800
55	54.0	32,400	29,800
60	49.3	28,600	26,400
65	44.2	25,300	23,500
70	38.6	22,600	21,100
75	32.1	20,200	19,000
80	24.0	18,100	17,100



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90 Ft. Boom			
45	65.9	40,000 *	38,000
50	62.3	36,800	33,100
55	58.6	32,100	29,100
60	54.7	28,300	25,800
65	50.6	25,100	23,000
70	46.2	22,300	20,600
75	41.5	20,000	18,500
80	36.2	17,900	16,700
85	30.1	16,100	15,100
90	22.5	14,500	13,700
100 Ft. Boom			
50	65.3	36,300	32,300
55	62.1	31,600	28,400
60	58.7	27,800	25,100
65	55.2	24,600	22,300
70	51.6	21,900	20,000
75	47.8	19,600	17,900
80	43.7	17,600	16,100
85	39.2	15,800	14,600
90	34.2	14,200	13,200
95	28.5	12,800	11,900
100	21.3	11,500	10,800

Oper. Radius Feet	Boom Angle Deg.	0 Degree Thru 1 Degree Machine List Boom Capacity Pounds	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds
110 Ft. Boom			
50	67.7	36,000	31,700
55	64.8	31,400	27,900
60	61.9	27,600	24,700
65	58.8	24,400	22,000
70	55.7	21,800	19,600
75	52.4	19,400	17,600
80	49.0	17,400	15,900
85	45.4	15,700	14,300
90	41.5	14,100	12,900
95	37.2	12,700	11,700
100	32.5	11,500	10,600
105	27.1	10,300	
120 Ft. Boom			
55	67.1	30,900	27,100
60	64.4	27,100	24,000
65	61.7	24,000	21,300
70	58.9	21,300	19,000
75	56.1	19,000	17,000
80	53.1	17,000	15,300
85	50.0	15,300	13,700
90	46.7	13,700	12,400
95	43.3	12,300	11,200
100	39.6	11,100	10,000