
1015

Clamshell/Grapple Capacities

Boom No. 83A
53,000 Lb. Counterweight
Pedestal Mount
0 Degree thru 1 Degree and
1 Degree thru 3 Degree Machine List
360 Degree Rating

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.

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-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 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 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

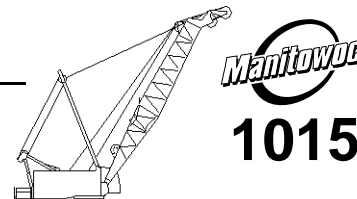
Deduct 2,000 Lbs. from boom capacities when boom butt is equipped with auxiliary drum.

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	38,100	36,600
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	39,900
50	45.2	37,800	36,000
55	37.6	34,200	32,700
60	28.1	31,100	29,900

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	39,300
50	53.1	37,600	35,400
55	47.6	34,000	32,200
60	41.5	30,900	29,500
65	34.5	28,300	27,100
70	25.9	26,000	25,100



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80 Ft. Boom			
40	66.6	40,000	40,000
45	62.6	40,000	38,500
50	58.4	37,200	34,700
55	54.0	33,600	31,500
60	49.3	30,600	28,800
65	44.2	28,000	26,500
70	38.6	25,700	24,500
75	32.1	23,800	22,800
80	24.0	22,000	21,300
90 Ft. Boom			
45	65.9	40,000	37,800
50	62.3	36,900	34,100
55	58.6	33,300	31,000
60	54.7	30,300	28,400
65	50.6	27,700	26,100
70	46.2	25,500	24,100
75	41.5	23,600	22,400
80	36.2	21,900	20,900
85	30.1	20,300	19,500
90	22.5	19,000	18,300
100 Ft. Boom			
50	65.3	36,500	33,500
55	62.1	33,000	30,500
60	58.7	30,000	27,900
65	55.2	27,400	25,600
70	51.6	25,200	23,700
75	47.8	23,300	22,000
80	43.7	21,600	20,400
85	39.2	20,100	19,100
90	34.2	18,700	17,900
95	28.5	17,500	16,800
100	21.3	16,400	15,800

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	36,300	33,100
55	64.8	32,800	30,100
60	61.9	29,800	27,500
65	58.8	27,300	25,300
70	55.7	25,100	23,400
75	52.4	23,200	21,700
80	49.0	21,500	20,200
85	45.4	20,000	18,900
90	41.5	18,600	17,700
95	37.2	17,400	16,600
100	32.5	16,300	15,600
105	27.1	15,300	14,700
110	20.2	13,700	13,300
120 Ft. Boom			
55	67.1	32,400	29,500
60	64.4	29,500	27,000
65	61.7	27,000	24,800
70	58.9	24,800	22,900
75	56.1	22,900	21,300
80	53.1	21,200	19,800
85	50.0	19,700	18,500
90	46.7	18,400	17,300
95	43.3	17,100	16,200
100	39.6	16,100	15,200
105	35.6	15,100	14,300
110	31.1	14,200	13,500
115	25.8	12,800	12,400
120	19.3	10,400	10,000