

1015

Clamshell/Grapple Capacities

Boom No. 83
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. A06546** and Wire Rope Specification chart **No. 8474-B**. Crane operator judgment must be used to allow for adverse operating conditions and physical machine depreciation. Refer to operators 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

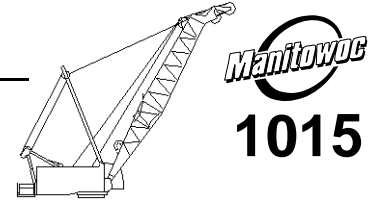
Deduct 1,300 Lbs. from capacities when upper boom point is attached.

Auxiliary Drum Deduct

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

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	38,500	38,100
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	38,100	37,700
55	37.6	34,500	34,200
60	28.1	31,400	31,100

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	37,700	37,000
55	47.6	34,200	33,800
60	41.5	31,200	30,900
65	34.5	28,700	28,400
70	25.9	26,400	26,100



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80 Ft. Boom			
40	66.6	40,000	40,000
45	62.6	40,000	39,800
50	58.4	37,000	36,200
55	54.0	33,700	33,100
60	49.3	30,800	30,300
65	44.2	28,300	27,900
70	38.6	26,000	25,800
75	32.1	24,100	23,900
80	24.0	22,300	22,200
90 Ft. Boom			
45	65.9	40,000	38,800
50	62.3	36,500	35,400
55	58.6	33,200	32,400
60	54.7	30,400	29,800
65	50.6	27,900	27,500
70	46.2	25,800	25,500
75	41.5	23,900	23,700
80	36.2	22,200	22,000
85	30.1	20,600	20,500
90	22.5	19,300	19,200
100 Ft. Boom			
50	65.3	35,800	34,600
55	62.1	32,700	31,700
60	58.7	29,900	29,200
65	55.2	27,500	27,000
70	51.6	25,400	25,000
75	47.8	23,600	23,200
80	43.7	21,900	21,700
85	39.2	20,400	20,200
90	34.2	19,000	18,900
95	28.5	17,800	17,700
100	21.3	16,700	16,600

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
110 Ft. Boom			
50	67.7	34,600	31,500
55	64.8	32,400	30,400
60	61.9	29,800	28,900
65	58.8	27,400	26,800
70	55.7	25,400	24,900
75	52.4	23,500	23,100
80	49.0	21,900	21,600
85	45.4	20,400	20,200
90	41.5	19,100	18,900
95	37.2	17,900	17,800
100	32.5	16,800	16,700
105	27.1	15,800	15,700
120 Ft. Boom			
55	67.1	31,800	29,000
60	64.4	29,300	27,900
65	61.7	27,000	26,200
70	58.9	25,000	24,400
75	56.1	23,200	22,700
80	53.1	21,600	21,200
85	50.0	20,100	19,800
90	46.7	18,800	18,600
95	43.3	17,600	17,500
100	39.6	16,600	16,400
105	35.6	15,600	15,500
110	31.1	14,600	14,600
115	25.8	13,800	13,700