

Clamshell/Grapple Capacities

Boom No. 83A
53,000 Lb. Counterweight
Pedestal Mount - Land Based
0 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.

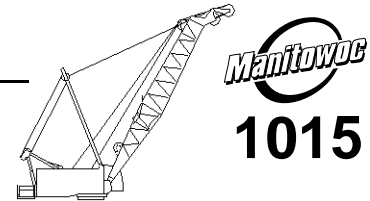
Wire Rope Guard Deduct

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 Machine List Boom Capacity Pounds
50 Ft. Boom		
30	64.1	40,000
35	57.4	40,000
40	50.0	40,000
45	41.6	40,000
50	31.2	38,800
60 Ft. Boom		
30	68.8	40,000
35	63.4	40,000
40	57.8	40,000
45	51.8	40,000
50	45.2	38,800
55	37.6	34,900
60	28.1	31,600
70 Ft. Boom		
35	67.5	40,000
40	62.9	40,000
45	58.1	40,000
50	53.1	38,800
55	47.6	35,000
60	41.5	31,700
65	34.5	28,900
70	25.9	26,500

Oper. Radius Feet	Boom Angle Deg.	0 Degree Machine List Boom Capacity Pounds
80 Ft. Boom		
40	66.6	40,000
45	62.6	40,000
50	58.4	38,500
55	54.0	34,700
60	49.3	31,500
65	44.2	28,700
70	38.6	26,300
75	32.1	24,300
80	24.0	22,400
90 Ft. Boom		
45	65.9	40,000
50	62.3	38,400
55	58.6	34,600
60	54.7	31,400
65	50.6	28,600
70	46.2	26,200
75	41.5	24,200
80	36.2	22,400
85	30.1	20,800
90	22.5	19,300

Oper. Radius Feet	Boom Angle Deg.	0 Degree Machine List Boom Capacity Pounds
100 Ft. Boom		
50	65.3	38,200
55	62.1	34,400
60	58.7	31,200
65	55.2	28,400
70	51.6	26,100
75	47.8	24,000
80	43.7	22,200
85	39.2	20,600
90	34.2	19,200
95	28.5	17,900
100	21.3	16,700



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Oper. Radius Feet	Boom Angle Deg.	0 Degree Machine List Boom Capacity Pounds
110 Ft. Boom		
50	67.7	38,100
55	64.8	34,300
60	61.9	31,100
65	58.8	28,400
70	55.7	26,000
75	52.4	24,000
80	49.0	22,200
85	45.4	20,600
90	41.5	19,100
95	37.2	17,900
100	32.5	16,700
105	27.1	15,600
110	20.2	13,900

Oper. Radius Feet	Boom Angle Deg.	0 Degree Machine List Boom Capacity Pounds
120 Ft. Boom		
55	67.1	34,100
60	64.4	30,900
65	61.7	28,100
70	58.9	25,800
75	56.1	23,700
80	53.1	21,900
85	50.0	20,400
90	46.7	18,900
95	43.3	17,700
100	39.6	16,500
105	35.6	15,500
110	31.1	14,500
115	25.8	13,100
120	19.3	10,500