

Clamshell/Grapple Capacities

777 SERIES 1

Boom No. 78
68,000 Lb. Counterweight
Pedestal Mount
0 Degree thru 1 Degree and
1 Degree thru 3 Degree Machine List

LIFTING CAPACITIES: Lifting 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 in a level position with turntable bearing properly supported and machine list not to exceed degrees noted. Refer to boom rigging **No. 178288** and Wire Rope Specification chart **No. 8156-A**. 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 to center of gravity of 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 two 12 in. boom hoist cylinders, 26 Ft. mast, four 1-1/4 in. boom pendants and 68,000 Lb. counterweight.

Upper Boom Point Deduct

Deduct 1,000 Lbs. from boom capacities when upper boom point is attached.

Auxiliary Drum Deduct

Deduct 1,700 Lbs. from boom capacities when boom butt is equipped with auxiliary drum.

Multi-Part Rope Guard Deduct

Deduct 500 Lbs. from boom capacities when lower boom point is equipped with multi-part rope guard (No. A02744).

Wire Rope Guide Deduct

(For Third Line)

Deduct 500 Lbs. from boom capacities when boom top wire rope guide (No. 192312) for third line is attached.

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
60 Ft. BOOM			
30	66.5	29,500	29,500
35	61.2	29,500	29,500
40	55.4	29,500	29,500
45	49.3	29,500	29,500
50	42.5	29,500	27,100
55	34.5	28,200	24,200
60	24.3	25,700	21,700
70 Ft. BOOM			
35	65.6	29,500	29,500
40	61.0	29,500	29,500
45	56.1	29,500	29,500
50	50.9	29,500	27,200
55	45.3	28,300	24,300
60	39.1	25,800	21,900
65	31.8	23,600	19,800
70	22.4	21,800	18,000

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
80 Ft. BOOM			
35	68.9	29,500	29,500
40	64.9	29,500	29,500
45	60.9	29,500	29,500
50	56.6	29,500	27,100
55	52.2	28,300	24,300
60	47.4	25,800	21,800
65	42.2	23,600	19,800
70	36.4	21,800	18,100
75	29.6	20,200	16,500



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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
90 Ft. BOOM			
40	67.9	29,500	29,500
45	64.4	29,500	29,500
50	60.8	29,500	27,100
55	57.0	28,300	24,200
60	53.1	25,700	21,800
65	48.9	23,600	19,800
70	44.5	21,800	18,100
75	39.6	20,200	16,600
80	34.2	18,800	15,200
85	27.8	17,600	14,000
90	19.6	16,500	13,000
100 Ft. BOOM			
45	67.1	29,500	29,500
50	64.0	29,500	27,000
55	60.7	28,200	24,100
60	57.3	25,700	21,700
65	53.8	23,600	19,700
70	50.1	21,800	18,000
75	46.2	20,200	16,500
80	42.0	18,800	15,100
85	37.5	17,600	14,000
90	32.3	16,500	12,900
95	26.3	15,500	12,000
100	18.5	14,600	11,100

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
110 Ft. BOOM			
50	66.5	29,500	26,900
55	63.6	28,200	24,100
60	60.6	25,700	21,700
65	57.6	23,600	19,700
70	54.4	21,700	17,900
75	51.1	20,200	16,400
80	47.6	18,800	15,100
85	43.9	17,500	13,900
90	40.0	16,500	12,900
95	35.6	15,500	12,000
100	30.8	14,600	11,100
105	25.0	13,800	10,300
120 Ft. BOOM			
55	66.0	28,200	24,000
60	63.3	25,700	21,600
65	60.6	23,500	19,600
70	57.8	21,700	17,900
75	54.9	20,100	16,400
80	51.9	18,800	15,100
85	48.7	17,500	13,900
90	45.4	16,400	12,900
95	41.9	15,500	11,900
100	38.2	14,600	11,100
105	34.0	13,800	10,300
110	29.4	13,100	9,600
115	23.9	12,400	9,000