

Clamshell/Grapple Capacities

777 SERIES 1

Boom No. 78
68,000 Lb. Counterweight
360 Degree Rating

LIFTING CAPACITIES: 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 in a level position on a firm uniformly supporting surface. 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 24 Ft. 9 in. crawlers, 38 in. or 48 in. treads, 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.

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.

Auxiliary Drum Deduct

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

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
60 Ft. BOOM		
30	66.5	29,500 *
35	61.2	29,500 *
40	55.4	29,500 *
45	49.3	29,500 *
50	42.5	29,500 *
55	34.5	29,500 *
60	24.3	28,500
70 Ft. BOOM		
35	65.6	29,500 *
40	61.0	29,500 *
45	56.1	29,500 *
50	50.9	29,500 *
55	45.3	29,500 *
60	39.1	28,600 *
65	31.8	25,400
70	22.4	22,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
80 Ft. BOOM		
35	68.9	29,500 *
40	64.9	29,500 *
45	60.9	29,500 *
50	56.6	29,500 *
55	52.2	29,500 *
60	47.4	28,600 *
65	42.2	25,700
70	36.4	22,700
75	29.6	20,100
90 Ft. BOOM		
40	67.9	29,500 *
45	64.4	29,500 *
50	60.8	29,500 *
55	57.0	29,500 *
60	53.1	28,600 *
65	48.9	25,800
70	44.5	22,800
75	39.6	20,300
80	34.2	18,200
85	27.8	16,200
90	19.6	14,500

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
100 Ft. BOOM		
45	67.1	29,500 *
50	64.0	29,500 *
55	60.7	29,500 *
60	57.3	28,600 *
65	53.8	25,700
70	50.1	22,800
75	46.2	20,300
80	42.0	18,100
85	37.5	16,200
90	32.3	14,500
95	26.3	13,000
100	18.5	11,700
110 Ft. BOOM		
50	66.5	29,500 *
55	63.6	29,500 *
60	60.6	28,600 *
65	57.6	25,700
70	54.4	22,700
75	51.1	20,200
80	47.6	18,100
85	43.9	16,200
90	40.0	14,600
95	35.6	13,100
100	30.8	11,800
105	25.0	10,600

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
120 Ft. BOOM		
55	66.0	29,500 *
60	63.3	28,600 *
65	60.6	25,700
70	57.8	22,700
75	54.9	20,200
80	51.9	18,100
85	48.7	16,200
90	45.4	14,600
95	41.9	13,100
100	38.2	11,800
105	34.0	10,600
110	29.4	9,500
115	23.9	8,500