



Duty Cycle Capacities

Boom No. 83 With 48 in. Sheaves
53,000 Lb. Counterweight
23 Ft. 6 in. Crawlers Extended
360 Degree Rating - Limited Duty

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.

Duty cycle capacities shown are intended for limited duration applications. Continuous operation at these capacities may reduce component life.

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 with gantry up. Refer to boom rigging **No. A15438** and Wire Rope Specification chart **No. 8474-C**. 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 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 23 Ft. 6 in. extendible crawlers, 39-3/8 in. treads, 9 Ft. 7 in. gantry, 25 Ft. live mast, 12 part boom hoist reeving, two 1-1/2 in. pendants, two 48 in. sheaves in boom point and 53,000 Lb. counterweight.

Auxiliary Drum Deduct

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

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
50 Ft. Boom		
30	64.8	66,000 *
35	58.0	65,100
40	50.7	53,700
45	42.4	45,300
50	32.3	38,700
60 Ft. Boom		
30	69.3	66,000 *
35	64.0	65,200
40	58.4	53,900
45	52.4	45,500
50	45.8	39,000
55	38.4	33,800
60	29.2	29,500

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
70 Ft. Boom		
30	72.4	66,000 *
35	68.0	65,300
40	63.4	54,000
45	58.6	45,600
50	53.6	39,100
55	48.1	33,900
60	42.1	29,700
65	35.3	26,200
70	26.8	23,200
80 Ft. Boom		
30	74.7	66,000 *
35	70.9	64,700
40	67.0	53,400
45	63.0	45,100
50	58.8	38,600
55	54.4	33,500
60	49.8	29,400
65	44.7	25,900
70	39.2	23,000
75	32.8	20,400
80	24.9	18,200

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
90 Ft. Boom		
30	76.4	64,000 *
35	73.1	62,200 *
40	69.7	53,300
45	66.2	44,900
50	62.6	38,500
55	58.9	33,400
60	55.1	29,200
65	51.0	25,800
70	46.7	22,800
75	42.0	20,300
80	36.8	18,200
85	30.8	16,200
90	23.4	14,500

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
100 Ft. Boom		
30	77.8	59,100 *
35	74.8	57,500 *
40	71.8	53,000
45	68.7	44,600
50	65.6	38,200
55	62.4	33,100
60	59.0	28,900
65	55.6	25,500
70	52.0	22,600
75	48.1	20,100
80	44.1	17,900
85	39.6	16,000
90	34.7	14,300
95	29.1	12,800
100	22.1	11,400

Upper boom point cannot be attached.



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Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
110 Ft. Boom		
30	78.9	42,400 *
35	76.2	40,800 *
40	73.5	39,200 *
45	70.8	37,700 *
50	68.0	36,300 *
55	65.1	33,000
60	62.2	28,900
65	59.1	25,400
70	56.0	22,500
75	52.7	20,000
80	49.3	17,900
85	45.7	16,000
90	41.9	14,300
95	37.7	12,800
100	33.0	11,500
105	27.6	10,300
110	21.0	9,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
120 Ft. Boom		
25	82.3	42,800 *
30	79.9	41,100 *
35	77.4	39,400 *
40	74.9	37,800 *
45	72.4	36,200 *
50	69.9	34,700 *
55	67.3	32,700
60	64.7	28,500
65	62.0	25,100
70	59.2	22,200
75	56.3	19,700
80	53.4	17,500
85	50.3	15,600
90	47.1	14,000
95	43.6	12,500
100	40.0	11,200
105	36.0	10,000
110	31.5	8,900
115	26.4	7,900
120	20.0	6,900