

Duty Cycle Capacities

Boom No. 76
127,000 lb Crane Counterweight
0 lb Carbody Counterweight
360 Degree Rating - Limited Duty

14000 SERIES 1

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.

All boom lengths require only the middle two sheaves in lower boom point. All other sheaves must be removed from lower boom point.

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. A16106** and Wire Rope Specification chart **No. 8789-C**. 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: Boom angle in degrees, is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.

MACHINE EQUIPMENT: Machine equipped with 27 ft 2 in. crawlers, 48 in. treads, 10 ft 3 in. retractable gantry, 27 ft live mast, 20 part boom hoist reeving, boom support straps, 127,000 lb crane counterweight, and 0 lb carbody counterweight.

Upper Boom Point Deduct

Deduct 1,100 lbs from capacities when upper boom point is attached.

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
65.6 ft		
25	74.4	26,000 *
30	69.7	26,000 *
35	64.9	26,000 *
40	59.9	26,000 *
45	54.6	26,000 *
50	48.9	26,000 *
55	42.6	24,200 *
60	35.3	22,200 *
65	26.3	20,500 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
75.5 ft		
25	76.5	26,000 *
30	72.5	26,000 *
35	68.4	26,000 *
40	64.2	26,000 *
45	59.9	26,000 *
50	55.3	26,000 *
55	50.4	24,200 *
60	45.1	22,200 *
65	39.3	20,500 *
70	32.5	19,000 *

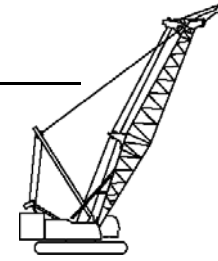
Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
85.3 ft		
20	81.5	26,000 *
25	78.1	26,000 *
30	74.6	26,000 *
35	71.0	26,000 *
40	67.4	26,000 *
45	63.7	26,000 *
50	59.8	26,000 *
55	55.8	24,200 *
60	51.5	22,200 *
65	47.0	20,500 *
70	42.1	19,000 *
75	36.6	17,700 *
80	30.2	16,600 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
95.1 ft		
20	82.4	26,000 *
25	79.3	26,000 *
30	76.2	26,000 *
35	73.1	26,000 *
40	69.9	26,000 *
45	66.6	26,000 *
50	63.3	26,000 *
55	59.8	24,200 *
60	56.2	22,200 *
65	52.4	20,500 *
70	48.4	19,000 *
75	44.2	17,700 *
80	39.5	16,600 *
85	34.3	15,600 *
90	28.3	14,800 *



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105.0 ft		
25	80.3	26,000 *
30	77.5	26,000 *
35	74.7	26,000 *
40	71.9	26,000 *
45	68.9	26,000 *
50	66.0	26,000 *
55	62.9	24,200 *
60	59.7	22,200 *
65	56.5	20,500 *
70	53.1	19,000 *
75	49.5	17,700 *
80	45.8	16,600 *
85	41.7	15,600 *
90	37.3	14,800 *
95	32.4	14,000 *
100	26.7	13,300 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
114.8 ft		
25	81.2	26,000 *
30	78.6	26,000 *
35	76.1	26,000 *
40	73.5	26,000 *
45	70.8	26,000 *
50	68.1	26,000 *
55	65.4	24,200 *
60	62.6	22,200 *
65	59.7	20,500 *
70	56.8	19,000 *
75	53.7	17,700 *
80	50.5	16,600 *
85	47.1	15,600 *
90	43.5	14,800 *
95	39.7	14,000 *
100	35.5	13,300 *
105	30.8	12,600 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
124.7 ft		
25	81.9	26,000 *
30	79.5	26,000 *
35	77.2	26,000 *
40	74.8	26,000 *
45	72.4	26,000 *
50	70.0	26,000 *
55	67.5	24,200 *
60	64.9	22,200 *
65	62.4	20,500 *
70	59.7	19,000 *
75	57.0	17,700 *
80	54.2	16,600 *
85	51.2	15,600 *
90	48.2	14,800 *
95	44.9	14,000 *
100	41.5	13,300 *
105	37.8	12,600 *
110	33.8	12,100 *
115	29.3	11,500 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
134.5 ft		
25	82.5	26,000 *
30	80.3	26,000 *
35	78.1	26,000 *
40	76.0	26,000 *
45	73.7	26,000 *
50	71.5	26,000 *
55	69.2	24,200 *
60	66.9	22,200 *
65	64.6	20,500 *
70	62.1	19,000 *
75	59.7	17,700 *
80	57.2	16,600 *
85	54.6	15,600 *
90	51.9	14,800 *
95	49.1	14,000 *
100	46.1	13,300 *
105	43.1	12,600 *
110	39.8	12,100 *
115	36.2	11,500 *