



1015

Clamshell/Grapple Capacities

Boom No. 83A
53,000 Lb. Counterweight
23 Ft. 6 in. Crawlers Extended
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 with 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 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 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. Rad. Feet	Boom Ang. Deg.	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	39,000
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	39,300
55	37.6	34,200
60	28.1	29,900
70 Ft. Boom		
35	67.5	40,000 *
40	62.9	40,000 *
45	58.1	40,000 *
50	53.1	39,400
55	47.6	34,300
60	41.5	30,100
65	34.5	26,600
70	25.9	23,600

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
80 Ft. Boom		
40	66.6	40,000 *
45	62.6	40,000 *
50	58.4	39,000
55	54.0	33,900
60	49.3	29,700
65	44.2	26,300
70	38.6	23,300
75	32.1	20,800
80	24.0	18,600
90 Ft. Boom		
45	65.9	40,000 *
50	62.3	38,800
55	58.6	33,700
60	54.7	29,600
65	50.6	26,100
70	46.2	23,200
75	41.5	20,700
80	36.2	18,600
85	30.1	16,700
90	22.5	14,900

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
100 Ft. Boom		
50	65.3	38,500
55	62.1	33,400
60	58.7	29,300
65	55.2	25,900
70	51.6	22,900
75	47.8	20,500
80	43.7	18,300
85	39.2	16,400
90	34.2	14,700
95	28.5	13,200
100	21.3	11,800
110 Ft. Boom		
50	67.7	38,500
55	64.8	33,400
60	61.9	29,200
65	58.8	25,800
70	55.7	22,900
75	52.4	20,400
80	49.0	18,300
85	45.4	16,400
90	41.5	14,700
95	37.2	13,300
100	32.5	11,900
105	27.1	10,700

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
120 Ft. Boom		
55	67.1	33,000
60	64.4	28,900
65	61.7	25,500
70	58.9	22,600
75	56.1	20,100
80	53.1	17,900
85	50.0	16,100
90	46.7	14,400
95	43.3	12,900
100	39.6	11,600
105	35.6	10,400