



Clamshell/Grapple Capacities

Boom No. 84
71,500 Lb. Counterweight
360 Degree Rating

555 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.

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. A00952** and Wire Rope Specification chart **No. 8443-B**. 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 23 Ft. 10 in. crawlers, 48 in. treads, 23 Ft. live mast, 16 part

boom hoist reeving, boom support straps, rotating bed No. A01066¹ or No. A03188 (refer to I.D. plate at front of rotating bed) and 71,500 Lb. crane counterweight.

¹**WARNING:** 1,250 Lb. front counterweight is required for cranes with rotating bed No. A01066 that do not have free-fall option. Counterweight can be removed only if crane has free-fall option on both front and rear drums.



71,500 Lb. Crane Counterweight
4 Side Boxes

Wire Rope Guide Deduct
(For Third Line)

Deduct 600 Lbs. from boom capacities when upper wire rope guide (No. A04352) for third line is attached.

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
50 Ft. BOOM		
28	66.2	25,000 *
30	63.7	25,000 *
32	61.0	25,000 *
34	58.3	25,000 *
36	55.5	25,000 *
38	52.6	25,000 *
40	49.6	25,000 *
45	41.2	25,000 *
50	30.9	25,000 *
60 Ft. BOOM		
32	66.3	25,000 *
34	64.1	25,000 *
36	62.0	25,000 *
38	59.7	25,000 *
40	57.4	25,000 *
45	51.4	25,000 *
50	44.9	25,000 *
55	37.3	25,000 *
60	28.0	24,100 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
70 Ft. BOOM		
36	66.3	25,000 *
38	64.5	25,000 *
40	62.6	25,000 *
45	57.8	25,000 *
50	52.8	25,000 *
55	47.3	25,000 *
60	41.3	24,300 *
65	34.3	21,300 *
70	25.8	18,800 *
80 Ft. BOOM		
38	67.9	25,000 *
40	66.3	25,000 *
45	62.3	25,000 *
50	58.1	25,000 *
55	53.7	25,000 *
60	49.0	24,400 *
65	44.0	21,500 *
70	38.4	19,000 *
75	32.0	16,800 *
80	24.0	14,900 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
90 Ft. BOOM		
45	65.6	25,000 *
50	62.0	25,000 *
55	58.3	25,000 *
60	54.4	24,000 *
65	50.4	21,200 *
70	46.0	18,700 *
75	41.3	16,600 *
80	36.1	14,700 *
85	30.0	13,000 *
90	22.5	11,400 *
100 Ft. BOOM		
50	65.1	25,000 *
55	61.8	25,000 *
60	58.5	24,100 *
65	55.0	21,300 *
70	51.4	18,800 *
75	47.6	16,700 *
80	43.5	14,800 *
85	39.0	13,200 *
90	34.1	11,600 *
95	28.4	10,300 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
110 Ft. BOOM		
50	67.5	25,000 *
55	64.6	25,000 *
60	61.7	23,700 *
65	58.6	20,900 *
70	55.5	18,500 *
75	52.2	16,400 *
80	48.8	14,500 *
85	45.2	12,800 *
90	41.3	11,300 *
95	37.1	10,000 *
100	32.4	8,800 *
105	27.0	7,600 *
120 Ft. BOOM		
55	66.9	25,000 *
60	64.2	23,400 *
65	61.5	20,600 *
70	58.7	18,200 *
75	55.9	16,100 *
80	52.9	14,300 *
85	49.8	12,600 *
90	46.6	11,100 *
95	43.1	9,800 *
100	39.4	8,600 *
105	35.4	7,500 *
110	31.0	6,500 *
115	25.8	5,500 *