## Clamshell/Grapple Capacities

Boom No. 84 71,500 Lb. Counterweight Crawler Machine on a Barge 0 Degree thru 1 Degree and 1 Degree thru 3 Degree Machine List 360 Degree Rating



### **555 SERIES 1**

**LIFTING CAPACITIES:** Capacities are for a crawler machine when operating on a barge. Machine shall be positively secured to prevent shifting. 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 and machine list not to exceed degrees noted. 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 at barge deck to center of gravity of the 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. A01066<sup>1</sup> or No. A03188 (refer to I.D. plate at front of rotating bed) and 71,500 Lb. crane counterweight.

<sup>1</sup>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. Radius	Boom Angle	0 Degree Thru 1 Degree Machine List Boom Capacity	1 Degree Thru 3 Degree Machine List Boom Capacity			
Feet	Deg.	Pounds	Pounds			
	50 Ft. BOOM					
28	66.2	25,000 *	25,000 *			
30	63.7	25,000 *	25,000 *			
32	61.0	25,000 *	25,000 *			
34	58.3	25,000 *	25,000 *			
36	55.5	25,000 *	25,000 *			
38	52.6	25,000 *	25,000 *			
40	49.6	25,000 *	25,000 *			
45	41.2	25,000 *	25,000 *			
50	30.9	25,000 *	25,000 *			

Oper. Radius Feet	Boom Angle Deg.	0 Degree Thru 1 Degree Machine List Boom Capacity Pounds	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds		
60 Ft. BOOM					
32	66.3	25,000 *	25,000 *		
34	64.1	25,000 *	25,000 *		
36	62.0	25,000 *	25,000 *		
38	59.7	25,000 *	25,000 *		
40	57.4	25,000 *	25,000 *		
45	51.4	25,000 *	25,000 *		
50	44.9	25,000 *	25,000 *		
55	37.3	25,000 *	22,500 *		
60	28.0	23,300 *	20,200 *		

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Boom No. 84
71,500 Lb. Counterweight
Crawler Machine on a Barge
0 Degree thru 1 Degree and
1 Degree thru 3 Degree Machine List
360 Degree Rating



## **555 SERIES 1**

		1				
		0 Degree Thru	1 Degree Thru			
		1 Degree	3 Degree			
Oper.	Boom	Machine List	Machine List			
Radius	Angle	Boom Capacity	<b>Boom Capacity</b>			
Feet	Deg.	Pounds	Pounds			
rect	Deg.	Tourids	Tourius			
70 Ft. BOOM						
36	66.3	25,000 *	25,000 *			
38	64.5	25,000 *	25,000 *			
40	62.6	25,000 *	25,000 *			
45	57.8	25,000 *	25,000 *			
50	52.8	25,000 *	25,000 *			
55	47.3	25,000 *	22,600 *			
60	41.3	23,200 *	20,300 *			
65	34.3	20,500 *	18,300 *			
70	25.8	18,100 *	16,600 *			
80 Ft. BOOM						
38	67.9	25,000 *	25,000 *			
40	66.3	25,000 *	25,000 *			
45	62.3	25,000 *	25,000 *			
50	58.1	25,000 *	25,000 *			
55	53.7	25,000 *	22,600 *			
60	49.0	23,200 *	20,300 *			
65	44.0	20,500 *	18,400 *			
70	38.4	18,200 *	16,600 * 14,800 *			
75	32.0	16,100 *	17,000			
80	24.0	14,500	15,100			
45	9(	Ft. BOO 1	VI 25,000 *			
50	65.6 62.0	25,000 *	23,000			
55	58.3	25,000 *	25,000 * 22,500 *			
60	54.4	22,700 *	20,200 *			
65	50.4	20,100 *	18,000 *			
70	46.0	17,800 *	16,000 *			
75	41.3	15,800 *	14,200 *			
80	36.1	14,000 *	12,600 *			
85	30.0	12,400 *	11,200 *			
90	22.5	10,900 *	9,900 *			
	10	0 Ft. BOO				
50	65.1	25,000 *	25,000 *			
55	61.8	25,000 *	22,500 *			
60	58.5	22,700 *	20,100 *			
65	55.0	20,100 *	17,800 *			
70	51.4	17,800 *	15,800 *			
75	47.6	15,800 *	14,100 *			
80	43.5	14,000 *	12,500 *			
85	39.0	12,500 *	11,100 *			
90	34.1	11,000 *	9,900 *			
95	28.4	9,700 *	8,700 *			

	Oper. Radius Feet	Boom Angle Deg.	0 Degree Thru 1 Degree Machine List Boom Capacity Pounds	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds		
	110 Ft. BOOM					
	50	67.5	25,000 *	25,000 *		
	55	64.6	25,000 *	22,000 *		
	60	61.7	22,200 *	19,400 *		
	65	58.6	19,600 *	17,200 *		
	70	55.5	17,300 *	15,200 *		
4	75	52.2	15,400 *	13,500 *		
	80	48.8	13,600 *	12,000 *		
	85	45.2	12,100 *	10,600 *		
	90	41.3	10,700 *	9,400 *		
	95	37.1	9,400 *	8,200 *		
	100	32.4	8,200 *	7,200 *		
	105	27.0	7,200 *	6,300 *		
		12	0 Ft. BOO	M		
	55	66.9	24,800 *	21,400 *		
-	60	64.2	21,800 *	18,900 *		
	65	61.5	19,200 *	16,700 *		
	. 70	58.7	17,000 *	14,700 *		
	75	55.9	15,000 *	13,000 *		
4	80	52.9	13,300 *	11,500 *		
	85	49.8	11,800 *	10,200 *		
	90	46.6	10,400 *	9,000 *		
	95	43.1	9,100 *	7,900 *		
	100	39.4	8,000 *	6,900 *		
	105	35.4	7,000 *	5,900 *		
	110	31.0	6,000 *	5,100 *		
	115	25.8	5,100 *	4,300 *		