

Clamshell/Grapple Capacities

Boom No. 222 With Open Throat Top
28,500 Lb. Counterweight
22 Ft. 4 in. Crawlers Extended
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 360 Degree Rating

LIFTING CAPACITIES: Capacities are for a crawler machine with crawlers extended 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 with crawlers fully extended, gantry up and machine list not to exceed degrees noted. Refer to boom rigging **No. 193744** or

No. 912644 and Wire Rope Specification chart **No. 9073-A**. 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 22 Ft. 4 in. extendible crawlers, 36 in. treads, 15 Ft. 6 in. retractable gantry, 10 part boom hoist reeving, two 1-1/4 in. boom pendants and 28,500 Lb. counterweight.

Maximum Boom Length Lifted Unassisted	
List	Boom Length
0 Degree	100 Ft.
1 Degree	100 Ft.
2 Degree	90 Ft.
3 Degree	80 Ft.
Load block, hook and weight ball on barge deck at start.	

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Oper. Radius Feet	Boom Angle Deg.	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
40 Ft. BOOM						
20	66.8	17,600 *	16,200 *	15,100 *	14,100 *	20
22	63.7	17,600 *	16,200 *	15,100 *	14,000 *	22
24	60.4	17,600 *	16,200 *	15,000 *	14,000 *	24
26	57.0	17,600 *	16,200 *	15,000 *	14,000 *	26
28	53.5	17,600 *	16,100 *	15,000 *	14,000 *	28
30	49.8	17,600 *	16,100 *	15,000 *	14,000 *	30
32	45.9	17,600 *	16,100 *	15,000 *	14,000 *	32
34	41.8	17,600 *	16,100 *	15,000 *	14,000 *	34
36	37.2	17,600 *	16,100 *	15,000 *	14,000 *	36
38	32.1	17,600 *	16,100 *	15,000 *	14,000 *	38
40	26.1	17,600 *	16,100 *	15,000 *	14,000 *	40
50 Ft. BOOM						
24	66.7	17,600 *	16,100 *	14,900 *	13,900 *	24
26	64.2	17,600 *	16,000 *	14,900 *	13,900 *	26
28	61.6	17,600 *	16,000 *	14,900 *	13,900 *	28
30	59.0	17,600 *	16,000 *	14,900 *	13,900 *	30
32	56.3	17,600 *	16,000 *	14,900 *	13,900 *	32
34	53.4	17,600 *	16,000 *	14,800 *	13,800 *	34
36	50.5	17,600 *	15,900 *	14,800 *	13,800 *	36
38	47.5	17,600 *	15,900 *	14,800 *	13,800 *	38
40	44.2	17,600 *	15,900 *	14,800 *	13,800 *	40
45	35.2	17,600 *	15,900 *	14,800 *	13,800 *	45
50	23.3	15,300 *	14,300 *	13,300 *	12,500 *	50
60 Ft. BOOM						
28	66.7	17,600 *	15,800 *	14,700 *	13,700 *	28
30	64.6	17,600 *	15,800 *	14,700 *	13,700 *	30
32	62.4	17,600 *	15,800 *	14,700 *	13,700 *	32
34	60.3	17,600 *	15,800 *	14,600 *	13,700 *	34
36	58.0	17,600 *	15,700 *	14,600 *	13,600 *	36
38	55.7	17,600 *	15,700 *	14,600 *	13,600 *	38
40	53.4	17,600 *	15,700 *	14,600 *	13,600 *	40
45	47.1	17,600 *	15,700 *	14,600 *	13,600 *	45
50	40.2	16,200	14,300 *	13,200 *	12,400 *	50
55	32.0	14,200	12,900 *	11,900 *	11,200 *	55
60	21.2	11,600 *	11,400 *	10,900 *	10,100 *	60
70 Ft. BOOM						
34	64.9	17,600 *	15,500 *	14,400 *	13,500 *	34
36	63.0	17,600 *	15,500 *	14,400 *	13,500 *	36
38	61.2	17,600 *	15,500 *	14,400 *	13,400 *	38
40	59.3	17,600 *	15,500 *	14,400 *	13,400 *	40
45	54.4	17,600 *	15,400 *	14,300 *	13,400 *	45
50	49.1	16,100	14,200 *	13,200 *	12,400 *	50
55	43.4	14,100	12,900 *	11,900 *	11,100 *	55
60	37.1	12,500	11,800 *	10,800 *	10,100 *	60
65	29.5	11,200	10,800 *	9,900 *	9,200 *	65

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Oper. Radius Feet	Boom Angle Deg.	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
80 Ft. BOOM						
38	65.0	17,600 *	15,200 *	14,100 *	13,200 *	38
40	63.5	17,600 *	15,100 *	14,100 *	13,100 *	40
45	59.4	17,600 *	15,100 *	14,000 *	13,100 *	45
50	55.1	15,900	14,200 *	13,100 *	12,300 *	50
55	50.6	13,900	12,800 *	11,800 *	11,000 *	55
60	45.8	12,300	11,700 *	10,800 *	10,000 *	60
65	40.5	11,000	10,800 *	9,900 *	9,100 *	65
70	34.6	9,900	9,900	9,100 *	8,300 *	70
75	27.6	9,000 *	8,900	8,400 *	7,700 *	75
90 Ft. BOOM						
40	66.6	17,600 *	14,800 *	13,800 *		40
45	63.1	17,600 *	14,700 *	13,700 *		45
50	59.4	15,800	14,200 *	13,100 *		50
55	55.7	13,800	12,800 *	11,800 *		55
60	51.7	12,200	11,700 *	10,700 *		60
65	47.5	10,900	10,700 *	9,800 *		65
70	43.0	9,800	9,700	9,000 *		70
75	38.1	8,800	8,700	8,400 *		75
80	32.5	8,000	7,900	7,700		80
85	26.0	7,300 *	6,900 *	6,800 *		85
100 Ft. BOOM						
45	66.0	17,600 *	14,300 *			45
50	62.8	15,700	14,100 *			50
55	59.5	13,700	12,800 *			55
60	56.1	12,100	11,700 *			60
65	52.6	10,800	10,600			65
70	48.8	10,000	9,500			70
75	44.9	8,700	8,500			75
80	40.7	7,900	7,700			80
85	36.0	7,200	7,000 *			85
90	30.8	6,500	6,100 *			90
95	24.6	5,700 *	5,200 *			95