

Clamshell/Grapple Capacities

999 SERIES 1

Boom No. 82 or 22EL
114,600 Lb. Counterweight
Crawler Machine on a Barge
0 Degree thru 1 Degree and
1 Degree thru 3 Degree Machine List
360 Degree Rating

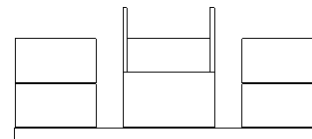
LIFTING CAPACITIES: Capacities are for a crawler machine when operating on a barge. Machine shall be positively secured to prevent shifting. Capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 67.5% of a static tipping load. Capacities are based on 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 on a firm uniformly supporting surface with gantry up and machine list not to exceed degrees noted. Refer to boom rigging **No. 195459** (No. 82) or **No. 195890** (No. 22EL) and Wire Rope Specification chart **No. 8223-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 freely suspended load. Boom angle is angle above true horizontal and a line drawn through boom hinge pin and boom point shaft centerline.

MACHINE EQUIPMENT: Machine equipped with 28 Ft. 2 in. crawlers, 48 in. treads, 10 Ft. 3 in. retractable gantry, 30 Ft. live mast, 20 part boom hoist reeving, boom support straps or four 1-3/8 in. boom pendants and 114,600 Lb. counterweight.



114,600 Lb. Crane Counterweight
4 Side Boxes - 1 Center Box

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
		70 Ft. BOOM	
35	67.5	30,000 *	30,000 *
40	63.0	30,000 *	30,000 *
45	58.2	30,000 *	30,000 *
50	53.1	30,000 *	30,000 *
55	47.6	30,000 *	30,000 *
60	41.6	30,000 *	30,000 *
65	34.7	30,000 *	30,000 *
70	26.1	30,000 *	30,000 *
80 Ft. BOOM			
40	66.6	30,000 *	30,000 *
45	62.6	30,000 *	30,000 *
50	58.4	30,000 *	30,000 *
55	54.0	30,000 *	30,000 *
60	49.3	30,000 *	30,000 *
65	44.3	30,000 *	30,000 *
70	38.7	30,000 *	30,000 *
75	32.3	30,000 *	30,000 *

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
		90 Ft. BOOM	
45	65.9	30,000 *	30,000 *
50	62.3	30,000 *	30,000 *
55	58.6	30,000 *	30,000 *
60	54.7	30,000 *	30,000 *
65	50.6	30,000 *	30,000 *
70	46.3	30,000 *	30,000 *
75	41.6	30,000 *	30,000 *
80	36.3	30,000 *	28,200 *
85	30.3	28,500	26,200 *



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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
100 Ft. BOOM			
45	68.4	30,000 *	30,000 *
50	65.3	30,000 *	30,000 *
55	62.1	30,000 *	30,000 *
60	58.7	30,000 *	30,000 *
65	55.3	30,000 *	30,000 *
70	51.6	30,000 *	30,000 *
75	47.8	30,000 *	30,000 *
80	43.7	30,000 *	28,200 *
85	39.3	28,500	26,200 *
90	34.3	25,800	24,100
95	28.7	23,500	22,000
110 Ft. BOOM			
50	67.7	30,000 *	30,000 *
55	64.8	30,000 *	30,000 *
60	61.9	30,000 *	30,000 *
65	58.8	30,000 *	30,000 *
70	55.7	30,000 *	30,000 *
75	52.4	30,000 *	30,000 *
80	49.0	30,000 *	28,100 *
85	45.4	28,100	25,800
90	41.5	25,500	23,500
95	37.3	23,200	21,500
100	32.6	21,100	19,600
105	27.2	19,300	18,000

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
120 Ft. BOOM			
55	67.1	30,000 *	30,000 *
60	64.4	30,000 *	30,000 *
65	61.7	30,000 *	30,000 *
70	58.9	30,000 *	30,000 *
75	56.1	30,000 *	30,000 *
80	53.1	30,000 *	27,900
85	50.0	27,900	25,400
90	46.8	25,300	23,100
95	43.3	23,000	21,100
100	39.6	21,000	19,300
105	35.6	19,100	17,600
110	31.2	17,400	16,100
115	26.0	15,900	14,800