

Clamshell/Grapple Capacities

999 SERIES 1

Boom No. 22E With Open Throat Top
114,600 Lb. Counterweight
360 Degree Rating

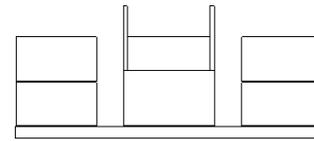
LIFTING CAPACITIES: Capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 67.5% of a static tipping load. Capacities are based on tipping, structural competence (*), operating speeds and other factors.

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, four 1-3/8 in. boom pendants and 114,600 Lb. counterweight.

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. 196151** 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 to the 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.



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

Auxiliary Drum Deduct

Deduct 4,000 Lbs. From Boom Capacities
When Boom Butt Is Equipped
With Auxiliary Drum.

Oper. Radius Feet	Boom Angle Deg.	Boom Capacity Pounds
70 Ft. BOOM		
35	67.1	30,000 *
40	62.9	30,000 *
45	58.4	30,000 *
50	53.7	30,000 *
55	48.7	30,000 *
60	43.3	30,000 *
65	37.3	30,000 *
70	30.3	30,000 *
80 Ft. BOOM		
40	66.3	30,000 *
45	62.5	30,000 *
50	58.6	30,000 *
55	54.5	30,000 *
60	50.2	30,000 *
65	45.5	30,000 *
70	40.5	30,000 *
75	34.9	30,000 *
80	28.4	30,000 *

Oper. Radius Feet	Boom Angle Deg.	Boom Capacity Pounds
90 Ft. BOOM		
45	65.7	30,000 *
50	62.3	30,000 *
55	58.7	30,000 *
60	55.1	30,000 *
65	51.3	30,000 *
70	47.2	30,000 *
75	42.9	30,000 *
80	38.2	30,000 *
85	33.0	30,000 *
90	26.8	28,700
100 Ft. BOOM		
45	68.1	30,000 *
50	65.1	30,000 *
55	62.0	30,000 *
60	58.9	30,000 *
65	55.6	30,000 *
70	52.2	30,000 *
75	48.6	30,000 *
80	44.8	30,000 *
85	40.7	30,000 *
90	36.3	28,500
95	31.3	26,100
100	25.5	24,000

Oper. Radius Feet	Boom Angle Deg.	Boom Capacity Pounds
110 Ft. BOOM		
50	67.4	30,000 *
55	64.7	30,000 *
60	61.9	30,000 *
65	59.0	30,000 *
70	56.0	30,000 *
75	52.9	30,000 *
80	49.6	30,000 *
85	46.2	30,000 *
90	42.7	28,100
95	38.8	25,700
100	34.6	23,600
105	29.8	21,700

Oper. Radius Feet	Boom Angle Deg.	Boom Capacity Pounds
120 Ft. BOOM		
55	66.9	30,000 *
60	64.3	30,000 *
65	61.7	30,000 *
70	59.0	30,000 *
75	56.3	30,000 *
80	53.5	30,000 *
85	50.5	30,000 *
90	47.5	27,900
95	44.2	25,500
100	40.8	23,300
105	37.1	21,400
110	33.1	19,700
115	28.6	18,100