

Clamshell/Grapple Capacities

999 SERIES 1

Boom No. 22E With Open Throat Top
51 980 kg 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.

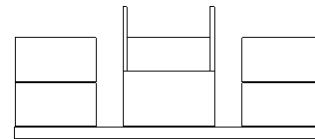
Weight of bucket is considered part of load. Where no capacity is shown, operation is not intended or approved.

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. 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 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 8 585 mm crawlers, 1 219 mm treads, 3 124 mm retractable gantry, 9 144 mm live mast, 20 part boom hoist reeving, four 35 mm boom pendants and 51 980 kg counterweight.



51 980 kg Crane Counterweight
4 Side Boxes - 1 Center Box

Auxiliary Drum Deduct

Deduct 1 810 kg From Boom Capacities
When Boom Butt Is Equipped
With Auxiliary Drum.

Oper. Radius Meters	Boom Angle Deg.	0 Degree Thru 1 Degree Machine List Boom Capacity Kilograms	1 Degree Thru 3 Degree Machine List Boom Capacity Kilograms
21.3m (70 Ft.) BOOM			
10.7	67.1	13 600 *	13 600 *
11.0	66.2	13 600 *	13 600 *
12.0	63.4	13 600 *	13 600 *
13.0	60.5	13 600 *	13 600 *
14.0	57.5	13 600 *	13 600 *
16.0	51.3	13 600 *	13 600 *
18.0	44.4	13 600 *	13 600 *
20.0	36.5	13 600 *	13 600 *
24.4m (80 Ft.) BOOM			
12.2	66.3	13 600 *	13 600 *
13.0	64.3	13 600 *	13 600 *
14.0	61.8	13 600 *	13 600 *
16.0	56.6	13 600 *	13 600 *
18.0	51.0	13 600 *	13 600 *
20.0	44.9	13 600 *	13 600 *
22.0	38.2	13 600 *	13 600 *
24.0	30.2	13 600 *	13 400 *

Oper. Radius Meters	Boom Angle Deg.	0 Degree Thru 1 Degree Machine List Boom Capacity Kilograms	1 Degree Thru 3 Degree Machine List Boom Capacity Kilograms
27.4m (90 Ft.) BOOM			
12.2	69.0	13 600 *	13 600 *
13.0	67.2	13 600 *	13 600 *
14.0	65.0	13 600 *	13 600 *
16.0	60.5	13 600 *	13 600 *
18.0	55.8	13 600 *	13 600 *
20.0	50.8	13 600 *	13 600 *
22.0	45.4	13 600 *	13 600 *
24.0	39.4	13 600 *	13 400 *
26.0	32.6	13 500	12 300 *



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30.5m (100 Ft.) BOOM			
13.7	68.1	13 600 *	13 600 *
14.0	67.6	13 600 *	13 600 *
16.0	63.6	13 600 *	13 600 *
18.0	59.5	13 600 *	13 600 *
20.0	55.2	13 600 *	13 600 *
22.0	50.6	13 600 *	13 600 *
24.0	45.7	13 600 *	13 300 *
26.0	40.4	13 500	12 200 *
28.0	34.5	12 100	11 200 *
30.0	27.4	10 800	10 200
33.5m (110 Ft.) BOOM			
15.2	67.4	13 600 *	13 600 *
16.0	66.1	13 600 *	13 600 *
18.0	62.4	13 600 *	13 600 *
20.0	58.6	13 600 *	13 600 *
22.0	54.6	13 600 *	13 600 *
24.0	50.5	13 600 *	13 200 *
26.0	46.0	13 300	12 100
28.0	41.2	11 800	11 000
30.0	35.9	10 600	9 800
32.0	29.9	9 500	8 800
36.6m (120 Ft.) BOOM			
16.8	66.9	13 600 *	13 600 *
18.0	64.8	13 600 *	13 600 *
20.0	61.4	13 600 *	13 600 *
22.0	57.9	13 600 *	13 600 *
24.0	54.2	13 600 *	13 200 *
26.0	50.4	13 100	12 000
28.0	46.3	11 700	10 700
30.0	41.9	10 400	9 600
32.0	37.1	9 300	8 600
34.0	31.8	8 400	7 800