



1015

Dynamic Compaction Capacities

Boom No. 83 With 48 in. Sheaves
Two 2-Part Line Operation
53,000 Lb. Counterweight
23 Ft. 6 in. Crawlers Extended
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.

A dynamic compaction mode must be selected to operate. Minimum boom angle for dynamic compaction operation is 60 degrees.

Weight of compaction equipment 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. A15438** and Wire Rope Specification chart **No. 8735-A**. Crane operator judgment must be used to allow for adverse operating conditions and physical machine depreciation. Refer to Operator's Manual for operating guidelines.

OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation to center of gravity of 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. 6 in. extendible crawlers, 39-3/8 in. treads, 9 Ft. 7 in. gantry, 25 Ft. live mast, 12 part boom hoist reeving, two 1-1/2 in. pendants, two 48 in. sheaves in boom point and 53,000 Lb. counterweight.

Auxiliary Drum Deduct

Deduct 2,000 Lbs. from boom capacities when boom butt is equipped with auxiliary drum.

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
50 Ft. Boom		
30	62.3	60,000 *
35	55.4	60,000 *
60 Ft. Boom		
30	67.3	60,000 *
35	61.9	60,000 *
40	56.2	50,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
70 Ft. Boom		
30	70.7	60,000 *
35	66.3	60,000 *
40	61.6	50,500
45	56.8	42,800
80 Ft. Boom		
25	77.0	60,000 *
30	73.2	60,000 *
35	69.4	59,600
40	65.5	49,600
45	61.4	42,100
50	57.2	36,200

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
90 Ft. Boom		
25	78.5	60,000 *
30	75.2	60,000 *
35	71.8	59,000
40	68.4	49,100
45	64.9	41,600
50	61.3	35,800
55	57.5	31,200
100 Ft. Boom		
25	79.6	60,000 *
30	76.7	60,000 *
35	73.7	58,300
40	70.7	48,500
45	67.6	41,100
50	64.4	35,300
55	61.1	30,700
60	57.8	26,900

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
110 Ft. Boom		
30	77.9	60,000 *
35	75.2	57,800
40	72.5	48,100
45	69.7	40,800
50	66.9	35,000
55	64.0	30,500
60	61.0	26,700
65	58.0	23,600
120 Ft. Boom		
30	78.9	60,000 *
35	76.5	57,100
40	74.0	47,500
45	71.5	40,200
50	68.9	34,500
55	66.3	30,000
60	63.7	26,200
65	60.9	23,100
70	58.1	20,500

Upper boom point cannot be attached.