



**1015**

# Dynamic Compaction Capacities

**Boom No. 83A**  
**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. A14196** and Wire Rope Specification chart **No. 8714-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, wire rope guide (**No. A10525**) on boom top, two 1-1/2 in. pendants 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
<b>50 Ft. Boom</b>		
30	64.1	66,000 *
35	57.4	62,300
<b>60 Ft. Boom</b>		
30	68.8	66,000 *
35	63.4	62,000
40	57.8	51,600

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
<b>70 Ft. Boom</b>		
30	72.0	66,000 *
35	67.5	61,500
40	62.9	51,300
45	58.1	43,600
<b>80 Ft. Boom</b>		
25	78.0	66,000 *
30	74.3	66,000 *
35	70.5	60,500
40	66.6	50,400
45	62.6	42,900
50	58.4	37,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
<b>90 Ft. Boom</b>		
25	79.4	66,000 *
30	76.1	66,000 *
35	72.8	59,900
40	69.4	49,900
45	65.9	42,400
50	62.3	36,600
55	58.6	31,900
<b>100 Ft. Boom</b>		
25	80.4	66,000 *
30	77.5	66,000 *
35	74.5	59,300
40	71.5	49,400
45	68.4	41,900
50	65.3	36,100
55	62.1	31,500
60	58.7	27,700

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
<b>110 Ft. Boom</b>		
30	78.7	66,000 *
35	76.0	58,700
40	73.3	48,900
45	70.5	41,600
50	67.7	35,800
55	64.8	31,200
60	61.9	27,500
65	58.8	24,300
<b>120 Ft. Boom</b>		
30	79.6	66,000 *
35	77.2	58,100
40	74.7	48,400
45	72.2	41,000
50	69.7	35,300
55	67.1	30,700
60	64.4	27,000
65	61.7	23,800
70	58.9	21,200

Upper boom point must be removed before use of this chart.