



1015

Dynamic Compaction Capacities

Boom No. 83A
24 040 kg Counterweight
7 163 mm 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 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. 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 7 163 mm extendible crawlers, 1 000 mm treads, 2 921 mm gantry, 7 620 mm live mast, 12 part boom hoist reeving, wire rope guide (**No. A10525**) on boom top, two 38 mm pendants and 24 040 kg counterweight.

Auxiliary Drum Deduct

Deduct 910 kg from boom capacities when boom butt is equipped with auxiliary drum.

Oper. Rad. Meters	Boom Ang. Deg.	Boom Capacity Kilograms
15,2m (50 Ft.) Boom		
9,1	64,1	29 900 *
10,0	60,4	28 900
18,3m (60 Ft.) Boom		
9,1	68,8	29 900 *
10,0	65,8	28 900
11,0	62,2	27 300
12,0	58,6	24 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Capacity Kilograms
21,3m (70 Ft.) Boom		
9,1	72,0	29 900 *
10,0	69,5	28 700
11,0	66,5	27 100
12,0	63,5	23 900
13,0	60,4	21 200
24,4m (80 Ft.) Boom		
7,6	78,0	29 900 *
8,0	77,1	29 900 *
9,0	74,6	29 900 *
10,0	72,2	28 500
11,0	69,7	26 600
12,0	67,1	23 500
13,0	64,5	20 900
14,0	61,8	18 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Capacity Kilograms
27,4m (90 Ft.) Boom		
7,6	79,4	29 900 *
8,0	78,6	29 900 *
9,0	76,4	29 900 *
10,0	74,2	28 300
11,0	72,0	26 300
12,0	69,8	23 300
13,0	67,5	20 600
14,0	65,2	18 600
16,0	60,5	15 400
30,5m (100 Ft.) Boom		
7,6	80,4	29 900 *
8,0	79,7	29 900 *
9,0	77,8	29 900 *
10,0	75,9	28 200
11,0	73,9	26 000
12,0	71,9	23 000
13,0	69,9	20 400
14,0	67,9	18 400
16,0	63,7	15 200
18,0	59,4	12 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Capacity Kilograms
33,5m (110 Ft.) Boom		
9,1	78,7	29 900 *
10,0	77,2	28 000
11,0	75,4	25 700
12,0	73,6	22 800
13,0	71,8	20 200
14,0	70,0	18 300
16,0	66,3	15 100
18,0	62,4	12 700
36,6m (120 Ft.) Boom		
9,1	79,6	29 900 *
10,0	78,3	27 900
11,0	76,6	25 400
12,0	75,0	22 500
13,0	73,4	20 000
14,0	71,7	18 000
16,0	68,4	14 900
18,0	64,9	12 500
20,0	61,4	10 600

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