



Clamshell/Grapple 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.

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. 8697-B**. 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, two 38 mm pendants and 24 040 kg counterweight.

Upper Boom Point Deduct

Deduct 590 kg from capacities when upper boom point is attached.

Auxiliary Drum Deduct

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

Wire Rope Guard Deduct

Deduct 455 kg from boom capacities when boom top is equipped with wire rope guard **No. A13283**.

Oper. Rad. Meters	Boom Ang. Deg.	Boom Capacity Kilograms
15,2m (50 Ft.) Boom		
9,1	64,1	18 100 *
10,0	60,4	18 100 *
12,0	51,0	18 100 *
14,0	39,8	18 000
18,3m (60 Ft.) Boom		
9,1	68,8	18 100 *
10,0	65,8	18 100 *
12,0	58,6	18 100 *
14,0	50,6	18 000
16,0	41,5	16 900
18,0	30,2	13 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Capacity Kilograms
21,3m (70 Ft.) Boom		
10,7	67,5	18 100 *
12,0	63,5	18 100 *
14,0	57,2	18 000
16,0	50,4	16 900
18,0	42,7	13 900
20,0	33,6	11 800
24,4m (80 Ft.) Boom		
12,2	66,6	18 100 *
14,0	61,8	18 000
16,0	56,2	16 700
18,0	50,2	13 800
20,0	43,6	11 700
22,0	35,9	10 000
24,0	26,3	8 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Capacity Kilograms
27,4m (90 Ft.) Boom		
13,7	65,9	18 100 *
14,0	65,2	18 000
16,0	60,5	16 600
18,0	55,4	13 700
20,0	50,1	11 600
22,0	44,2	10 000
24,0	37,6	8 600
26,0	29,7	7 500
30,5m (100 Ft.) Boom		
15,2	65,3	17 400
16,0	63,7	16 300
18,0	59,4	13 600
20,0	54,8	11 500
22,0	50,0	9 800
24,0	44,7	8 500
26,0	38,9	7 300
28,0	32,2	6 400
30,0	23,8	5 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Capacity Kilograms
33,5m (110 Ft.) Boom		
15,2	67,7	17 400
16,0	66,3	16 300
18,0	62,4	13 500
20,0	58,5	11 500
22,0	54,3	9 800
24,0	49,9	8 500
26,0	45,1	7 300
28,0	39,9	6 400
30,0	34,1	5 500
32,0	27,1	4 800
36,6m (120 Ft.) Boom		
16,8	67,1	14 900
18,0	64,9	13 400
20,0	61,4	11 300
22,0	57,7	9 700
24,0	53,8	8 300
26,0	49,8	7 200
28,0	45,5	6 200
30,0	40,8	5 400
32,0	35,6	4 700