



**1015**

# Clamshell/Grapple Capacities

**Boom No. 83**  
**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. A06546** and Wire Rope Specification chart **No. 8474-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 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.

Oper. Rad. Meters	Boom Ang. Deg.	Boom Capacity Kilograms
<b>15.2m (50 Ft.) Boom</b>		
9.1	64.1	18 100 *
10.0	60.4	18 100 *
12.0	51.0	18 100 *
14.0	39.8	18 000
<b>18.3m (60 Ft.) Boom</b>		
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	13 800
<b>21.3m (70 Ft.) Boom</b>		
10.7	67.5	18 100 *
12.0	63.5	18 100 *
14.0	57.2	18 100
16.0	50.4	17 000
18.0	42.7	14 000
20.0	33.6	11 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Capacity Kilograms
<b>24.4m (80 Ft.) Boom</b>		
12.2	66.6	18 100 *
14.0	61.8	18 000
16.0	56.2	16 800
18.0	50.2	13 800
20.0	43.6	11 700
22.0	35.9	10 000
24.0	26.3	8 700
<b>27.4m (90 Ft.) Boom</b>		
13.7	65.9	18 100 *
14.0	65.2	18 000
16.0	60.5	16 700
18.0	55.4	13 700
20.0	50.1	11 700
22.0	44.2	10 000
24.0	37.6	8 700
26.0	29.7	7 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Capacity Kilograms
<b>30.5m (100 Ft.) Boom</b>		
15.2	65.3	17 500
16.0	63.7	16 300
18.0	59.4	13 600
20.0	54.8	11 600
22.0	50.0	9 900
24.0	44.7	8 500
26.0	38.9	7 400
28.0	32.2	6 400
30.0	23.8	5 500
<b>33.5m (110 Ft.) Boom</b>		
15.2	67.7	16 500 *
16.0	66.3	15 900
18.0	62.4	13 800
20.0	58.5	11 700
22.0	54.3	10 000
24.0	49.9	8 700
26.0	45.1	7 500
28.0	39.9	6 600
30.0	34.1	5 800
32.0	27.1	5 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Capacity Kilograms
<b>36.6m (120 Ft.) Boom</b>		
16.8	67.1	15 100 *
18.0	64.9	13 600
20.0	61.4	11 500
22.0	57.7	9 900
24.0	53.8	8 500
26.0	49.8	7 400
28.0	45.5	6 400
30.0	40.8	5 600
32.0	35.6	4 900