



Duty Cycle Capacities

Boom No. 83
24 040 kg Counterweight
7 163 mm Crawlers Extended
360 Degree Rating - Limited Duty

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.

Duty cycle capacities shown are intended for limited duration applications. Continuous operation at these capacities may reduce component life.

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-C**. 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
15.2m (50 Ft.) Boom		
9.1	64.1	29 900 *
10.0	60.4	29 700
12.0	51.0	25 400
14.0	39.8	20 100
18.3m (60 Ft.) Boom		
9.1	68.8	29 900 *
10.0	65.8	29 800
12.0	58.6	25 500
14.0	50.6	20 200
16.0	41.5	16 600
18.0	30.2	13 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Capacity Kilograms
21.3m (70 Ft.) Boom		
9.1	72.0	29 900 *
10.0	69.5	29 800
12.0	63.5	25 500
14.0	57.2	20 200
16.0	50.4	16 600
18.0	42.7	14 000
20.0	33.6	11 900
24.4m (80 Ft.) Boom		
7.6	78.0	29 900 *
8.0	77.1	29 900 *
10.0	72.2	29 700
12.0	67.1	25 300
14.0	61.8	20 000
16.0	56.2	16 500
18.0	50.2	13 800
20.0	43.6	11 700
22.0	35.9	10 000
24.0	26.3	8 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Capacity Kilograms
27.4m (90 Ft.) Boom		
7.6	79.4	29 800 *
8.0	78.6	29 600 *
10.0	74.2	28 600 *
12.0	69.8	24 900
14.0	65.2	19 900
16.0	60.5	16 400
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
30.5m (100 Ft.) Boom		
7.6	80.4	27 500 *
8.0	79.7	27 300 *
10.0	75.9	26 400 *
12.0	71.9	24 500
14.0	67.9	19 800
16.0	63.7	16 200
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



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33.5m (110 Ft.)		
Boom		
7.6	81.3	20 000 *
8.0	80.7	19 800 *
10.0	77.2	18 800 *
12.0	73.6	17 900 *
14.0	70.0	17 000 *
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
36.6m (120 Ft.)		
Boom		
7.6	82.1	19 400 *
8.0	81.5	19 200 *
10.0	78.3	18 200 *
12.0	75.0	17 200 *
14.0	71.7	16 300 *
16.0	68.4	15 400 *
18.0	64.9	13 700
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
34.0	29.5	4 200
36.0	22.0	3 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Capacity Kilograms
39.6m (130 Ft.)		
Boom		
7.6	82.7	18 900 *
8.0	82.1	18 700 *
10.0	79.2	17 600 *
12.0	76.2	16 600 *
14.0	73.2	15 700 *
16.0	70.1	14 800 *
18.0	67.0	13 500
20.0	63.8	11 400
22.0	60.5	9 700
24.0	57.0	8 400
26.0	53.5	7 300
28.0	49.7	6 300
30.0	45.8	5 500
32.0	41.5	4 800
34.0	36.8	4 200
36.0	31.5	3 600
38.0	25.1	3 100
42.7m (140 Ft.)		
Boom		
9.1	81.1	17 500 *
10.0	80.0	17 100 *
12.0	77.2	16 100 *
14.0	74.4	15 100 *
16.0	71.6	14 200 *
18.0	68.7	13 200
20.0	65.8	11 300
22.0	62.8	9 600
24.0	59.7	8 200
26.0	56.5	7 100
28.0	53.2	6 100
30.0	49.7	5 300
32.0	46.0	4 600
34.0	42.1	4 000
36.0	37.8	3 400
38.0	33.0	2 900
40.0	27.5	2 500
42.0	20.7	2 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Capacity Kilograms
45.7m (150 Ft.)		
Boom		
9.1	81.7	13 100 *
10.0	80.6	12 900 *
12.0	78.1	12 300 *
14.0	75.5	11 800 *
16.0	72.9	11 300 *
18.0	70.2	10 800 *
20.0	67.5	10 300 *
22.0	64.8	9 700
24.0	61.9	8 300
26.0	59.0	7 200
28.0	56.0	6 200
30.0	52.9	5 300
32.0	49.6	4 700
34.0	46.2	4 000
36.0	42.6	3 500
38.0	38.6	3 000
40.0	34.3	2 500
42.0	29.4	2 100
48.8m (160 Ft.)		
Boom		
9.1	82.2	12 700 *
10.0	81.2	12 400 *
12.0	78.8	11 900 *
14.0	76.4	11 300 *
16.0	74.0	10 800 *
18.0	71.5	10 200 *
20.0	69.0	9 700 *
22.0	66.4	9 200
24.0	63.8	8 200
26.0	61.2	7 000
28.0	58.4	6 000
30.0	55.6	5 200
32.0	52.7	4 500
34.0	49.6	3 900
36.0	46.4	3 300
38.0	43.0	2 800
40.0	39.4	2 400
42.0	35.4	2 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Capacity Kilograms
51.8m (170 Ft.)		
Boom		
9.1	82.7	12 300 *
10.0	81.7	12 000 *
12.0	79.5	11 400 *
14.0	77.2	10 800 *
16.0	75.0	10 300 *
18.0	72.6	9 700 *
20.0	70.3	9 200 *
22.0	67.9	8 700 *
24.0	65.5	7 900
26.0	63.0	6 800
28.0	60.5	5 900
30.0	57.9	5 100
32.0	55.2	4 400
34.0	52.4	3 700
36.0	49.6	3 200
38.0	46.5	2 700
40.0	43.4	2 200