

Clamshell/Grapple Capacities

777 SERIES 1

Boom No. 78
30 840 kg Counterweight
Pedestal Mount
0 Degree thru 1 Degree and
1 Degree thru 3 Degree Machine List

LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and are based on 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 with turntable bearing properly supported and machine list not to exceed degrees noted. Refer to boom rigging **No. 178288** and Wire Rope Specification chart **No. 8156-A**. 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 two 305 mm boom hoist cylinders, 7 925 mm mast, four 32 mm boom pendants and 30 840 kg counterweight.

Upper Boom Point Deduct

Deduct 450 kg from boom capacities when upper boom point is attached.

Multi-Part Rope Guard Deduct

Deduct 230 kg from boom capacities when lower boom point is equipped with multi-part rope guard (No. A02744).

Wire Rope Guide Deduct (For Third Line)

Deduct 230 kg from boom capacities when boom top wire rope guide (No. 192312) for third line is attached.

Auxiliary Drum Deduct

Deduct 770 kg from boom capacities when boom butt is equipped with auxiliary drum.

Oper. Radius Meters	Boom Angle Deg.	0 Degree Thru 1 Degree Machine List Boom Capacity Kilograms	1 Degree Thru 3 Degree Machine List Boom Capacity Kilograms
18.3m (60 Ft.) BOOM			
9.1	66.5	13 300	13 300
10.0	63.6	13 300	13 300
12.0	56.2	13 300	13 300
14.0	48.1	13 300	13 100
16.0	38.7	13 000	11 600
18.0	26.5	11 900	10 000
21.3m (70 Ft.) BOOM			
10.7	65.6	13 300	13 300
12.0	61.6	13 300	13 300
14.0	55.2	13 300	13 100
16.0	48.2	13 100	11 700
18.0	40.3	11 900	10 100
20.0	30.8	10 500	8 800

Oper. Radius Meters	Boom Angle Deg.	0 Degree Thru 1 Degree Machine List Boom Capacity Kilograms	1 Degree Thru 3 Degree Machine List Boom Capacity Kilograms
24.4m (80 Ft.) BOOM			
10.7	68.9	13 300	13 300
12.0	65.4	13 300	13 300
14.0	60.1	13 300	13 100
16.0	54.4	13 100	11 600
18.0	48.3	11 900	10 000
20.0	41.5	10 500	8 800
22.0	33.6	9 500	7 800

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27.4m (90 Ft.) BOOM			
12.2	67.9	13 300	13 300
14.0	63.7	13 300	13 100
16.0	58.9	13 100	11 600
18.0	53.8	11 900	10 000
20.0	48.4	10 500	8 800
22.0	42.4	9 500	7 900
24.0	35.6	8 600	7 000
26.0	27.4	7 900	6 300
30.5m (100 Ft.) BOOM			
13.7	67.1	13 300	13 300
14.0	66.5	13 300	13 100
16.0	62.3	13 000	11 600
18.0	58.0	11 900	10 000
20.0	53.4	10 500	8 800
22.0	48.5	9 500	7 800
24.0	43.1	8 600	7 000
26.0	37.2	7 900	6 300
28.0	30.2	7 300	5 600
30.0	21.3	6 700	5 100
33.5m (110 Ft.) BOOM			
15.2	66.5	13 300	12 200
16.0	65.1	13 000	11 500
18.0	61.2	11 900	10 000
20.0	57.2	10 500	8 800
22.0	53.0	9 500	7 800
24.0	48.5	8 600	6 900
26.0	43.7	7 900	6 200
28.0	38.4	7 300	5 600
30.0	32.4	6 700	5 100
32.0	25.1	6 200	4 600
36.6m (120 Ft.) BOOM			
16.8	66.0	12 700	10 800
18.0	63.8	11 800	10 000
20.0	60.2	10 500	8 700
22.0	56.5	9 500	7 800
24.0	52.6	8 600	6 900
26.0	48.5	7 900	6 200
28.0	44.2	7 200	5 600
30.0	39.4	6 700	5 100
32.0	34.0	6 200	4 600
34.0	27.8	5 800	4 200