Clamshell/Grapple Capacities

777 SERIES 1

Boom No. 78 30 840 kg Counterweight 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. 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. <u>Refer to operators manual for operating</u> 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 7 544 mm crawlers, 965 mm or 1 219 mm treads, 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.

Auxiliary Drum Deduct

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

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.

Oper.	Boom	Boom
Rad. Meters	Ang. Deg.	Capacity Kilograms
	_	
18.3m (60 Ft.)		
BOOM		
9.1	66.5	13 300 *
10.0	63.6	13 300 *
12.0	56.2	13 300 *
14.0	48.1	13 300 *
16.0	38.7	13 300 *
18.0	26.5	13 000
21.3m (70 Ft.)		
BOOM		
10.7	65.6	13 300 *
12.0	61.6	13 300 *
14.0	55.2	13 300 *
16.0	48.2	13 300 *
18.0	40.3	13 000 *
20.0	30.8	11 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Capacity Kilograms		
24.	4m (8	30 Ft.)		
BOOM				
10.7	68.9	13 300 *		
12.0	65.4	13 300 *		
14.0	60.1	13 300 *		
16.0	54.4	13 300 *		
18.0	48.3	13 000 *		
20.0	41.5	11 400		
22.0	33.6	9 700		
27.	4m (9	00 Ft.)		
	BOO	M		
12.2	67.9	13 300 *		
14.0	63.7	13 300 *		
16.0	58.9	13 300 *		
18.0	53.8	13 000 *		
20.0	48.4	11 500		
22.0	42.4	9 800		
24.0	35.6	8 400		
26.0	27.4	7 200		

R	per. ad. eters	Boom Ang. Deg.	Boom Capacity Kilograms		
	30.5	5m (1	00 Ft.)		
	BOOM				
1	3.7	67.1	13 300 *		
1	4.0	66.5	13 300 *		
	6.0	62.3	13 300 *		
1	8.0	58.0	13 000 *		
2	0.0	53.4	11 400		
2	2.0	48.5	9 800		
2	4.0	43.1	8 400		
2	6.0	37.2	7 200		
2	8.0	30.2	6 300		
3	0.0	21.3	5 400		
	33.5	5m (1	10 Ft.)		
	BOOM				
1	5.2	66.5	13 300 *		
1	6.0	65.1	13 300 *		
1	8.0	61.2	13 000 *		
	0.0	57.2	11 400		
2	2.0	53.0	9 700		
	4.0	48.5	8 400		
	6.0	43.7	7 300		
	8.0	38.4	6 300		
	0.0	32.4	5 500		
3	2.0	25.1	4 800		

Oper. Rad. Meters	Boom Ang. Deg.	Boom Capacity Kilograms			
36.6m (120 Ft.)					
BOOM					
16.8	66.0	13 300 *			
18.0	63.8	13 000 *			
20.0	60.2	11 400			
22.0	56.5	9 700			
24.0	52.6	8 400			
26.0	48.5	7 300			
28.0	44.2	6 300			
30.0	39.4	5 500			
32.0	34.0	4 800			
34.0	27.8	4 100			