Clamshell/Grapple Capacities



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. 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 7 544 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.		Multi-Part Rope Guard Deduct Wire Rope Guide Dedu							
		Deduct 230 kg from boom capacities when lower boom point is equipped with(For Third Line)Deduct 230 kg from boom capacities when boom top							
Auxiliary Drum Dedu		boom poin multi-part rope				om capacit e rope guid third lin		(2312) for	
Deduct 770 kg from boom c when boom butt is equipped with auxiliary									
Oper. Boom Boom Rad. Ang. Capacity Meters Deg. Kilograms	Rad. A	oom Boom Ang. Capacity Kilograms	Øper. Rad. Meters	Boom Ang. Deg.	Boom Capacity Kilograms	Oper. Rad. Meters	Boom Ang. 5 Deg.	Boom Capacity Kilograms	
18.3m (60 Ft.)	24.4n	n (80 Ft.)	30.5	30.5m (100 Ft.)			36.6m (120 Ft.)		
BOOM	BOOM			BOOM			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	10.7 6 12.0 6 14.0 6 16.0 5 18.0 2	68.9 13 300 * 65.4 13 300 * 60.1 13 300 * 54.4 13 300 * 48.3 13 000 * 41.5 11 400	$ \begin{array}{r} 13.7 \\ 14.0 \\ 16.0 \\ 18.0 \\ 20.0 \\ 22.0 \\ \end{array} $	67.1 66.5 62.3 58.0 53.4 48.5	13 300 * 13 300 * 13 300 * 13 000 * 13 000 * 11 400 9 800	16.8 18.0 20.0 22.0 24.0 26.0	66.0 63.8 60.2 56.5 52.6 48.5	13 300 * 13 000 * 11 400 9 700 8 400 7 300	
21.3m (70 Ft.) BOOM	27.4n	a3.6 9 700 n (90 Ft.)	24.0 26.0 28.0 30.0	43.1 37.2 30.2 21.3	8 400 7 200 6 300 5 400	28.0 30.0 32.0 34.0	44.2 39.4 34.0 27.8	6 300 5 500 4 800 4 100	
10.7 65.6 13 300 * 12.0 61.6 13 300 * 14.0 55.2 13 300 * 16.0 48.2 13 300 *	12.2 14.0	OOM 67.9 13 300 * 63.7 13 300 * 58.9 13 300 *			10 Ft.)				
18.0 40.3 13 000 * 20.0 30.8 11 300	18.0 5 20.0 2 22.0 2 24.0 3	13 000 * 48.4 11 500 * 42.4 9 800 * 35.6 8 400 * 27.4 7 200 *	15.2 16.0 18.0 20.0 22.0 24.0	66.5 65.1 61.2 57.2 53.0 48.5	13 300 * 13 300 * 13 000 * 11 400 9 700 8 400				
			26.0 28.0	43.7 38.4	7 300 6 300				

30.0

32.0

32.4

25.1

5 500

4 800