

Dragline Capacities

777 SERIES 1

Boom No. 78
68,000 Lb. Counterweight
360 Degree Rating

LIFTING CAPACITIES: Capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 75% 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. 8227-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 24 Ft. 9 in. crawlers, 38 in. or 48 in. treads, two 12 in. boom hoist cylinders, 26 Ft. mast, four 1-1/4 in. boom pendants and 68,000 Lb. counterweight.

Upper Boom Point Deduct
Deduct 1,000 Lbs. from boom capacities when upper boom point is attached.

Auxiliary Drum Deduct
Deduct 1,700 Lbs. from boom capacities when boom butt is equipped with auxiliary drum.

Multi-Part Rope Guard Deduct
Deduct 500 Lbs. from boom capacities when lower boom point is equipped with multi-part rope guard (No. A02744).

Wire Rope Guide Deduct (For Third Line)
Deduct 500 Lbs. from boom capacities when boom top wire rope guide (No. 192312) for third line is attached.

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
60 Ft. BOOM		
45	49.3	20,000 *
50	42.5	20,000 *
55	34.5	20,000 *
60	24.3	20,000 *
70 Ft. BOOM		
55	45.3	20,000 *
60	39.1	20,000 *
65	31.8	20,000 *
70	22.4	20,000 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
80 Ft. BOOM		
60	47.4	20,000 *
65	42.2	20,000 *
70	36.4	20,000 *
75	29.6	20,000 *
80	20.8	19,900
90 Ft. BOOM		
65	48.9	20,000 *
70	44.5	20,000 *
75	39.6	20,000 *
80	34.2	20,000 *
85	27.8	18,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
100 Ft. BOOM		
75	46.2	20,000 *
80	42.0	20,000 *
85	37.5	18,000
90	32.3	16,200
95	26.3	14,500