

Clamshell/Grapple Capacities

Boom No. 27 with Open Throat Top without Vicon Independent Boom Hoist
88,500 lb Counterweight
Crawler Machine on a Barge
0 Degree thru 1 Degree and
1 Degree thru 3 Degree Static Machine List
360 Degree Rating

CAPACITIES: Capacities are for a crawler machine when operating on a barge. Machine must be positively secured to prevent shifting. 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 on a firm uniformly supporting surface with machine list not to exceed degrees noted. Refer to boom rigging **No. 65030**, Wire Rope Specification chart **No. 6430** and power plant and counterweight arrangement chart **No. 6655-A.** Crane operator judgment must be used to allow for adverse operating conditions and physical machine depreciation. Refer to Service Manual for operating guidelines.

OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation at barge deck, to center of gravity of freely suspended load. Boom angle is angle above true horizontal of a line drawn through boom hinge pin and upper boom point shaft centerline.

MACHINE EQUIPMENT: Machine equipped with 26 ft 1 in. crawlers, 60 in. treads, 30 ft heavy duty mast, 99 tooth front drum gear, controlled converters, 12 part mast hoist reeving, four 1-3/8 in. boom pendants, and 88,500 lb counterweight.

4600 SERIES 3

1					
			0 Degree	1 Degree	
			Thru	Thru	
			1 Degree	3 Degree	
	Oper.	Boom	Machine List	Machine List	
	Radius	Angle	Boom Capacity	Boom Capacity	
	Feet	Deg.	Pounds	Pounds	
	80.0 ft				
	40	67.7	50,000 *	50,000 *	
	45	63.9	50,000 *	50,000 *	
U	50	60.1	50,000 *	50,000 *	
	55	56.1	50,000 *	50,000 *	
	60	51.9	50,000 *	50,000 *	
	65	47.4	50,000 *	50,000 *	
	70	42.6	50,000 *	47,900 *	
	75	37.3	48,000 *	44,400 *	
	90.0 ft				
	45	66.9	50,000 *	50,000 *	
	50	63.5	50,000 *	50,000 *	
	55	60.1	50,000 *	50,000 *	
	60	56.5	50,000 *	50,000 *	
	65	52.8	50,000 *	50,000 *	
	70	48.9	50,000 *	47,800 *	
	75	44.7	47,700	44,200 *	
	80	40.2	43,600	41,100	
	85	35.2	39,900	37,800	
		100.0 ft			
	55	63.2	50,000 *	50,000 *	
	60	60.1	50,000 *	50,000 *	
	65	56.9	50,000 *	50,000 *	
	70	53.5	50,000 *	47,700 *	
	75	50.0	47,400	44,000	
	80	46.3	43,200	40,400	
	85	42.4	39,700	37,200	
	90	38.1	36,500	34,400	
	95	33.4	33,600	31,900	



4600 SERIES 3

•

Clamshell/Grapple Capacities

Boom No. 27 with Open Throat Top

without Vicon Independent Boom Hoist

88,500 lb Counterweight

Crawler Machine on a Barge

0 Degree thru 1 Degree and

1 Degree thru 3 Degree Static Machine List

360 Degree Rating

Thru 1 Degree 3 Oper. Boom Machine List Machine List	I Degree Thru 3 Degree			
Oper. Boom Machine List Ma	B Degree			
Oper. Boom Machine List Ma	•			
	a a la lun a la la t			
Radius Angle Boom Capacity Boo	achine List			
	om Capacity			
Feet Deg. Pounds	Pounds			
120.0 ft				
65 62.7 50,000 * 4	49,600 *			
70 60.1 50,000 *	45,600 *			
75 57.4 45,900 *	12,000 *			
80 54.6 42,100 * 3	38,700			
85 51.7 38,600 3	35,600			
90 48.7 35,500 3	32,900			
	30,400			
100 42.2 30,200 2	28,200			
105 38.7 27,900 2	26,200			
110 34.8 25,900	24,300			
140.0 ft				
85 57.7 37,400 * 3	33,800 *			
90 55.4 34,400 * 3	31,300 *			
95 52.9 31,700 * 2	29,000 *			
100 50.4 29,300 * 2	26,900 *			
	25,000 *			
	23,200 *			
	21,500 *			
	20,000 *			
	18,600 *			
	17,300 *			
135 28.3 16,800 *	16,000 *			

9326-A, 2014-02-07 2/2