

## **Clamshell/Grapple Capacities**

Boom No. 22 with Open Throat Top 75,900 lb Counterweight 24 ft Crawlers Extended 0 Degree thru 1 Degree and

1 Degree thru 3 Degree Static Machine List

**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 gantry up, and machine list not to exceed degrees noted. Refer to boom rigging **No. 48168** and Wire Rope Specification chart **No. 5342.** Crane operator judgment must be used to allow for adverse operating conditions and physical machine depreciation.

**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 24 ft extendible crawlers, 48 in. treads, 15 ft gantry, 12 part boom hoist reeving, and four 1-3/8 in. boom pendants. First counterweight = 40,100 lb Second counterweight = 35,800 lb.

## **4000W VICON**

Г			0 Degree	1 Degree		
			Thru	Thru		
			1 Degree	3 Degree		
0	Oper.	Boom	Machine List	Machine List		
R	adius	Angle	<b>Boom Capacity</b>	Boom Capacity		
	Feet	Deg.	Pounds	Pounds		
	70.0 ft					
	34	66.9	28,000 *	28,000 *		
	36	65.2	28,000 *	28,000 *		
	38	63.4	28,000 *	28,000 *		
	40	61.7	28,000 *	28,000 *		
	45	57.2	28,000 *	28,000 *		
	50	52.4	28,000 *	28,000 *		
	55	47.3	28,000 *	28,000 *		
	60	41.8	28,000 *	28,000 *		
	65	35.6	28,000 *	28,000 *		
	70	28.2	28,000 *	27,400		
	10	28.2	20,000	27,400		
	10	20.2	0 Degree	1 Degree		
	70	20.2	0 Degree Thru	1 Degree Thru		
Γ			0 Degree Thru 1 Degree	1 Degree Thru 3 Degree		
	Oper.	Boom	0 Degree Thru 1 Degree Machine List	1 Degree Thru 3 Degree Machine List		
( R	Oper. adius	Boom Angle	0 Degree Thru 1 Degree Machine List Boom Capacity	1 Degree Thru 3 Degree Machine List Boom Capacity		
( R	Oper.	Boom	0 Degree Thru 1 Degree Machine List	1 Degree Thru 3 Degree Machine List		
( R	Oper. adius	Boom Angle	0 Degree Thru 1 Degree Machine List Boom Capacity	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds		
( R	Oper. adius Feet 38	Boom Angle Deg. 66.8	0 Degree Thru 1 Degree Machine List Boom Capacity Pounds 80.0 ft 28,000 *	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds 28,000 *		
R	Oper. ladius Feet 38 40	Boom Angle Deg. 66.8 65.3	0 Degree Thru 1 Degree Machine List Boom Capacity Pounds 80.0 ft 28,000 * 28,000 *	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds 28,000 * 28,000 *		
( R	Oper. tadius Feet 38 40 45	Boom Angle Deg. 66.8 65.3 61.5	0 Degree Thru 1 Degree Machine List Boom Capacity Pounds 80.0 ft 28,000 * 28,000 * 28,000 *	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds 28,000 * 28,000 * 28,000 *		
( R	Oper. tadius Feet 38 40 45 50	Boom Angle Deg. 66.8 65.3 61.5 57.5	0 Degree Thru 1 Degree Machine List Boom Capacity Pounds 80.0 ft 28,000 * 28,000 * 28,000 * 28,000 *	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds 28,000 * 28,000 * 28,000 * 28,000 *		
( R	<b>Oper.</b> adius Feet 38 40 45 50 55	Boom Angle Deg. 66.8 65.3 61.5 57.5 53.4	0 Degree Thru 1 Degree Machine List Boom Capacity Pounds 80.0 ft 28,000 * 28,000 * 28,000 * 28,000 * 28,000 *	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds 28,000 * 28,000 * 28,000 * 28,000 * 28,000 *		
( R	Oper. adius Feet 38 40 45 50 55 60	Boom Angle Deg. 66.8 65.3 61.5 57.5 53.4 49.0	0 Degree Thru 1 Degree Machine List Boom Capacity Pounds 80.0 ft 28,000 * 28,000 * 28,000 * 28,000 * 28,000 * 28,000 * 28,000 *	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds 28,000 * 28,000 * 28,000 * 28,000 * 28,000 * 28,000 *		
( R	<b>Oper.</b> adius Feet 38 40 45 50 55 60 65	Boom Angle Deg. 66.8 65.3 61.5 57.5 53.4 49.0 44.2	0 Degree Thru 1 Degree Machine List Boom Capacity Pounds 80.0 ft 28,000 * 28,000 * 28,000 * 28,000 * 28,000 * 28,000 * 28,000 * 28,000 * 28,000 * 28,000 *	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds 28,000 * 28,000 * 28,000 * 28,000 * 28,000 * 28,000 * 28,000 *		
( R	Oper. tadius Feet 38 40 45 50 55 60 65 70	Boom Angle Deg. 66.8 65.3 61.5 57.5 53.4 49.0 44.2 39.1	0 Degree Thru 1 Degree Machine List Boom Capacity Pounds 80.0 ft 28,000 * 28,000 * 28,000 * 28,000 * 28,000 * 28,000 * 28,000 * 28,000 *	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds 28,000 * 28,000 * 28,000 * 28,000 * 28,000 * 28,000 * 28,000 * 28,000 * 28,000 *		
( R	<b>Oper.</b> adius Feet 38 40 45 50 55 60 65	Boom Angle Deg. 66.8 65.3 61.5 57.5 53.4 49.0 44.2	0 Degree Thru 1 Degree Machine List Boom Capacity Pounds 80.0 ft 28,000 * 28,000 * 28,000 * 28,000 * 28,000 * 28,000 * 28,000 * 28,000 * 28,000 * 28,000 *	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds 28,000 * 28,000 * 28,000 * 28,000 * 28,000 * 28,000 * 28,000 *		



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## **Clamshell/Grapple Capacities**

Boom No. 22 with Open Throat Top

75,900 lb Counterweight 24 ft Crawlers Extended

0 Degree thru 1 Degree and

1 Degree thru 3 Degree Static Machine List

		0 Degree Thru 1 Degree	1 Degree Thru 3 Degree	
Oper.	Boom	Machine List	Machine List	
Radius	Angle	Boom Capacity	Boom Capacity	
Feet	Deg.	Pounds	Pounds	
		90.0 ft		
40	68.1	28,000 *	28,000 *	
45	64.8	28,000 *	28,000 *	
50	61.3	28,000 *	28,000 *	
55	57.8	28,000 *	28,000 *	
60	54.1	28,000 *	28,000 *	
65	50.2	28,000 *	28,000 *	
70	46.1	27,400	25,400	
70 75 80 85 90	40.1 41.7 36.9 31.4 25.0	24,800 22,500 20,500 18,700	23,100 21,100 19,300 17,800	
Oper. Radius Feet	Boom Angle Deg.	0 Degree Thru 1 Degree Machine List Boom Capacity Pounds	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds	, ACX
		100.0 ft		
45	67.3	28,000 *	28,000 *	
50	64.3	28,000 *	28,000 *	
55	61.2	28,000 *	28,000 *	
60	58.0	28,000 *	28,000 *	
65	54.7	28,000 *	26,600 *	
70	51.2	26,700	24,200 *	
75	47.6	24,000	22,100	
80	43.7	21,700	20,100	
85	39.6	19,700	18,300	
90	35.0	18,000	16,800	
95	29.8	16,400	15,400	
100	23.7	15,100	14,200	

			0 Degree	1 Degree				
			Thru	Thru				
			1 Degree	3 Degree				
	Oper.	Boom	Machine List	Machine List				
	Radius	Angle	<b>Boom Capacity</b>	Boom Capacity				
	Feet	Deg.	Pounds	Pounds				
	110.0 ft							
	50	66.7	28,000 *	28,000 *				
	55	63.9	28,000 *	28,000 *				
	60	61.1	28,000 *	27,800 *				
	65	58.2	28,000 *	25,200 *				
	70	55.2	26,100	23,000 *				
	75	52.0	23,500	20,900 *				
	80	48.8	21,200	19,100 *				
	85	45.3	19,200	17,500 *				
	90	41.7	17,500	16,100 *				
	95	37.7	15,900	14,700				
	100	33.4	14,500	13,500				
	105	28.5	13,300	12,400				
K			_					
			0 Degree	1 Degree				
			Thru	1 Degree Thru				
			Thru 1 Degree	1 Degree Thru 3 Degree				
	Oper.	Boom	Thru 1 Degree Machine List	1 Degree Thru 3 Degree Machine List				
	Oper. Radius	Boom Angle	Thru 1 Degree Machine List Boom Capacity	1 Degree Thru 3 Degree Machine List Boom Capacity				
	Oper.	Boom	Thru 1 Degree Machine List	1 Degree Thru 3 Degree Machine List				
	Oper. Radius Feet	Boom Angle Deg.	Thru 1 Degree Machine List Boom Capacity Pounds 120.0 ft	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds				
	Oper. Radius Feet	Boom Angle Deg. 66.2	Thru 1 Degree Machine List Boom Capacity Pounds 120.0 ft 28,000 *	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds 28,000 *				
	Oper. Radius Feet	Boom Angle Deg. 66.2 63.6	Thru 1 Degree Machine List Boom Capacity Pounds 120.0 ft 28,000 * 28,000 *	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds 28,000 * 26,200 *				
	Oper. Radius Feet 55 60 65	Boom Angle Deg. 66.2 63.6 61.0	Thru 1 Degree Machine List Boom Capacity Pounds 120.0 ft 28,000 * 28,000 * 28,000 *	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds 28,000 * 26,200 * 23,700 *				
	Oper. Radius Feet 55 60 65 70	Boom Angle Deg. 66.2 63.6 61.0 58.3	Thru 1 Degree Machine List Boom Capacity Pounds 120.0 ft 28,000 * 28,000 * 28,000 * 28,000 * 28,000 *	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds 28,000 * 26,200 * 23,700 * 21,400 *				
	Oper. Radius Feet 55 60 65 70 75	Boom Angle Deg. 66.2 63.6 61.0 58.3 55.6	Thru 1 Degree Machine List Boom Capacity Pounds 120.0 ft 28,000 * 28,000 * 28,000 * 28,000 * 22,700 *	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds 28,000 * 26,200 * 23,700 * 21,400 * 19,400 *				
	Oper. Radius Feet 55 60 65 70 75 80	Boom Angle Deg. 66.2 63.6 61.0 58.3 55.6 52.7	Thru 1 Degree Machine List Boom Capacity Pounds 120.0 ft 28,000 * 28,000 * 28,000 * 28,000 * 22,700 * 20,500 *	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds 28,000 * 26,200 * 23,700 * 21,400 * 19,400 * 17,700 *				
	Oper. Radius Feet 55 60 65 70 75 80 85	Boom Angle Deg. 66.2 63.6 61.0 58.3 55.6 52.7 49.7	Thru 1 Degree Machine List Boom Capacity Pounds 120.0 ft 28,000 * 28,000 * 28,000 * 28,000 * 20,500 * 20,500 * 18,500	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds 28,000 * 26,200 * 23,700 * 21,400 * 19,400 * 17,700 * 16,100 *				
	Oper. Radius Feet 55 60 65 70 75 80 85 90	Boom Angle Deg. 66.2 63.6 61.0 58.3 55.6 52.7 49.7 46.6	Thru 1 Degree Machine List Boom Capacity Pounds 120.0 ft 28,000 * 28,000 * 28,000 * 28,000 * 20,500 * 20,500 * 18,500 16,800	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds 28,000 * 26,200 * 23,700 * 21,400 * 19,400 * 17,700 * 16,100 * 14,600 *				
	Oper. Radius Feet 55 60 65 70 75 80 85 90 95	Boom Angle Deg. 66.2 63.6 61.0 58.3 55.6 52.7 49.7 46.6 43.3	Thru 1 Degree Machine List Boom Capacity Pounds 120.0 ft 28,000 * 28,000 * 28,000 * 28,000 * 22,700 * 20,500 * 18,500 16,800 15,200	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds 28,000 * 26,200 * 23,700 * 21,400 * 19,400 * 17,700 * 16,100 * 14,600 * 13,300 *				
	Oper. Radius Feet 55 60 65 70 75 80 85 90 95 100	Boom Angle Deg. 66.2 63.6 61.0 58.3 55.6 52.7 49.7 46.6 43.3 39.9	Thru 1 Degree Machine List Boom Capacity Pounds 120.0 ft 28,000 * 28,000 * 28,000 * 28,000 * 22,700 * 20,500 * 18,500 16,800 15,200 13,800 *	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds 28,000 * 26,200 * 23,700 * 21,400 * 19,400 * 19,400 * 17,700 * 16,100 * 14,600 * 13,300 * 12,200 *				
	Oper. Radius Feet 55 60 65 70 75 80 85 90 95	Boom Angle Deg. 66.2 63.6 61.0 58.3 55.6 52.7 49.7 46.6 43.3	Thru 1 Degree Machine List Boom Capacity Pounds 120.0 ft 28,000 * 28,000 * 28,000 * 28,000 * 22,700 * 20,500 * 18,500 16,800 15,200 13,800 *	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds 28,000 * 26,200 * 23,700 * 21,400 * 19,400 * 17,700 * 16,100 * 14,600 * 13,300 * 12,200 *				

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