



**LIFT CRANE BOOM CAPACITIES  
BULK MATERIAL HANDLING**

**BOOM NO. 44 WITH HEAVY LIFT TOP  
167,000 LB. COUNTERWEIGHT  
PEDESTAL MOUNT  
0 DEGREE, 0 DEGREE THRU 1 DEGREE AND  
1 DEGREE THRU 3 DEGREE STATIC MACHINE LIST**

CAPACITIES FOR VARIOUS BOOM LENGTHS AND OPERATING RADIUS ARE FOR FREELY SUSPENDED LOADS AND ARE BASED ON 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.

MACHINE TO OPERATE WITH TURNTABLE BEARING PROPERLY SUPPORTED, GANTRY UP AND MACHINE LIST NOT TO EXCEED DEGREES NOTED WITH EXCEPTION OF 0 DEGREE MACHINE LIST WHICH MUST NOT EXCEED 0.5 DEGREES. REFER TO BOOM RIGGING NO. 170424 OR NO. 172610 AND WIRE ROPE SPECIFICATION CHART NO. 7979-A. CRANE OPERATOR JUDGMENT MUST BE USED TO ALLOW FOR ADVERSE OPERATING CONDITIONS AND PHYSICAL MACHINE DEPRECIATION.

OPERATING RADIUS IS HORIZONTAL DISTANCE FROM AXIS OF ROTATION AT TOP OF TURNTABLE BEARING 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 EQUIPPED WITH 28' RETRACTABLE GANTRY, 12 PART BOOM HOIST REEVING, FOUR 1-1/2" BOOM PENDANTS AND 167,000 LB. COUNTERWEIGHT.

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	0 DEGREE	0 DEGREE THRU	1 DEGREE THRU
			MACHINE LIST BOOM CAPACITY POUNDS	1 DEGREE MACHINE LIST BOOM CAPACITY POUNDS	3 DEGREE MACHINE LIST BOOM CAPACITY POUNDS
<b>70</b>	30	73.8	40,000	40,000	40,000
	35	69.4	40,000	40,000	40,000
	40	64.9	40,000	40,000	40,000
	45	60.2	40,000	40,000	40,000
	50	55.2	40,000	40,000	40,000
	55	49.9	40,000	40,000	40,000
	60	44.1	40,000	40,000	40,000
<b>80</b>	65	37.5	40,000	40,000	40,000
	30	75.9	40,000	40,000	40,000
	35	72.1	40,000	40,000	40,000
	40	68.3	40,000	40,000	40,000
	45	64.3	40,000	40,000	40,000
	50	60.2	40,000	40,000	40,000
	55	55.8	40,000	40,000	40,000
<b>90</b>	60	51.3	40,000	40,000	40,000
	65	46.4	40,000	40,000	40,000
	70	41.0	40,000	40,000	40,000
	75	34.8	40,000	40,000	40,000
	35	74.2	40,000	40,000	40,000
	40	70.8	40,000	40,000	40,000
	45	67.4	40,000	40,000	40,000
<b>100</b>	50	63.8	40,000	40,000	40,000
	55	60.1	40,000	40,000	40,000
	60	56.3	40,000	40,000	40,000
	65	52.3	40,000	40,000	40,000
	70	48.1	40,000	40,000	40,000
	75	43.5	40,000	40,000	40,000
	80	38.4	40,000	40,000	40,000
	85	32.7	40,000	40,000	40,000

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	0 DEGREE	0 DEGREE THRU	1 DEGREE THRU
			MACHINE LIST BOOM CAPACITY POUNDS	1 DEGREE MACHINE LIST BOOM CAPACITY POUNDS	3 DEGREE MACHINE LIST BOOM CAPACITY POUNDS
<b>100</b>	35	75.8	40,000	40,000	40,000
	40	72.8	40,000	40,000	40,000
	45	69.8	40,000	40,000	40,000
	50	66.6	40,000	40,000	40,000
	55	63.4	40,000	40,000	40,000
	60	60.1	40,000	40,000	40,000
	65	56.7	40,000	40,000	40,000
	70	53.1	40,000	40,000	40,000
	75	49.4	40,000	40,000	40,000
	80	45.4	40,000	40,000	40,000
<b>110</b>	85	41.1	40,000	40,000	40,000
	90	36.3	40,000	40,000	37,700
	95	30.9	40,000	39,700	35,300
	40	74.4	40,000	40,000	40,000
	45	71.7	40,000	40,000	40,000
	50	68.9	40,000	40,000	40,000
	55	66.0	40,000	40,000	40,000
	60	63.1	40,000	40,000	40,000
	65	60.1	40,000	40,000	40,000
	70	57.0	40,000	40,000	40,000
<b>120</b>	75	53.8	40,000	40,000	40,000
	80	50.4	40,000	40,000	40,000
	85	46.9	40,000	40,000	40,000
	90	43.1	40,000	40,000	37,500
	95	39.0	40,000	39,700	35,200
100	34.5	39,000	37,500	33,000	



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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	0 DEGREE	0 DEGREE THRU 1 DEGREE	1 DEGREE THRU 3 DEGREE
			MACHINE LIST BOOM CAPACITY POUNDS	MACHINE LIST BOOM CAPACITY POUNDS	MACHINE LIST BOOM CAPACITY POUNDS
<b>1 2 0</b>	40	75.8	40,000	40,000	40,000
	45	73.3	40,000	40,000	40,000
	50	70.7	40,000	40,000	40,000
	55	68.2	40,000	40,000	40,000
	60	65.5	40,000	40,000	40,000
	65	62.9	40,000	40,000	40,000
	70	60.1	40,000	40,000	40,000
	75	57.3	40,000	40,000	40,000
	80	54.3	40,000	40,000	40,000
	85	51.3	40,000	40,000	39,900
	90	48.1	40,000	40,000	37,300
	95	44.7	40,000	39,600	34,900
	100	41.1	39,700	37,400	32,800
	105	37.2	35,500	34,600	30,900
110	32.9	31,600	31,000	29,100	
<b>1 3 0</b>	45	74.6	40,000	40,000	40,000
	50	72.3	40,000	40,000	40,000
	55	69.9	40,000	40,000	40,000
	60	67.6	40,000	40,000	40,000
	65	65.1	40,000	40,000	40,000
	70	62.6	40,000	40,000	40,000
	75	60.1	40,000	40,000	40,000
	80	57.5	40,000	40,000	40,000
	85	54.8	40,000	40,000	39,900
	90	52.0	40,000	40,000	37,200
	95	49.1	40,000	39,600	34,900
	100	46.0	40,000	37,400	32,800
	105	42.8	36,700	35,500	30,900
	110	39.4	32,900	32,100	29,100
115	35.7	29,500	28,800	27,500	
120	31.5	26,300	25,800	24,700	
<b>1 4 0</b>	45	75.7	40,000	40,000	40,000
	50	73.6	40,000	40,000	40,000
	55	71.4	40,000	40,000	40,000
	60	69.3	40,000	40,000	40,000
	65	67.0	40,000	40,000	40,000
	70	64.8	40,000	40,000	40,000
	75	62.5	40,000	40,000	40,000
	80	60.1	40,000	40,000	40,000
	85	57.7	40,000	40,000	39,600
	90	55.2	40,000	40,000	37,000
	95	52.6	40,000	39,500	34,600
	100	49.9	40,000	37,300	32,500
	105	47.2	36,800	35,400	30,600
	110	44.2	33,000	32,000	28,800
115	41.2	29,600	28,800	27,200	
120	37.9	26,500	25,800	24,400	
125	34.3	23,700	23,100	21,900	
130	30.3	21,000	20,500	19,600	