

TOWER CRANE CAPACITIES

**4000W
CRAWLER**

**173' TO 213' NO. 22 TOWER WITH NO. 23 BOOM
24' CRAWLERS — EXTENDED
104,400 LB. COUNTERWEIGHT**

LIFTING CAPACITIES: Capacities for various tower lengths, boom lengths and operating radii are for freely suspended loads and do not exceed 75% of a static tipping load. **CAPACITIES SHOWN BY SHADED AREAS ARE BASED ON STRUCTURAL COMPETENCE.**

Capacities are shown in pounds. Weight of jib, (see chart A) all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and jib point sheaves, is considered part of the main boom load. Boom is not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation is not intended or approved. **CAPACITY INDICATED BY "B" REPRESENTS A BOOM POSITION WHICH REQUIRES LOAD HANDLING DEVICES OF AT LEAST 2,000 POUNDS TO PREVENT BOOM FROM COMING BACK AGAINST BOOM STOP AS LOAD IS RELEASED.**

OPERATING CONDITIONS: Machine to operate on a firm surface with crawlers fully extended and roller path level within a tolerance of 1/4" in 10' and properly supported, and be rigged in accordance with and under conditions referred to in rigging drawing No. 50602 and load line specification chart No. 5334, chart No. 6662-A for recommended procedure for operating under various wind conditions.

CAUTION: OUTSIDE ASSIST REQUIRED. SEE CHART NO. 6485 FOR TOWER AND BOOM RAISING PROCEDURE.

Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, wind conditions, as well as adverse operating conditions and physical machine depreciation.

OPERATING RADIUS: Operating radius is the horizontal distance from the axis of rotation to the center of vertical hoist line or load block with the load freely suspended. Add 12" to boom point radius for radius of sheave when using single part of hoist line.

Boom angle is the angle between horizontal and centerline of boom butt and inserts and is an indication of operating radius.

CAUTION OUTSIDE ASSIST REQUIRED

In all cases, operating radius shall govern capacity.

BOOM POINT ELEVATION: Boom point elevation, in feet, is the vertical distance from ground level to centerline of boom point shaft. Distances are given for 213' tower. Deduct 10' for each 10' reduction of tower height.

MACHINE EQUIPMENT: Machine equipped with 24'-0" extendible crawlers, 48" treads, 15' retractable gantry, 10 part boom hoist reeving, four 1-1/4" tower pendants, two 1-3/8" boom pendants, two 7/8" intermediate suspension pendants as specified on rigging drawing. 1st cwt. 40,100 lbs., 2nd cwt. 35,800 lbs., 3rd cwt. 28,500 lbs. Total counterweight 104,400 pounds.

LOAD LINE SPECIFICATIONS

LOAD LINE: 1-1/8" — 6 x 31 Warrington-Seale, Improved Plow Steel, Regular Lay, IWRC. Minimum Breaking Strength 56.5 Ton. Maximum Load — 28,300 lbs. per line. (Approx. Weight Per Ft. in Lbs. 2.34).

(A) DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED

Jib Length	Jib No. 124
30'	2,000 lb.
40'	2,400 lb.
50'	2,800 lb.
60'	3,200 lb.

Load block, hook & weight ball on ground until tower is in vertical position and boom is in operating range. Jib to be attached with tower in vertical position and with boom in a position which will allow jib to be attached.

For jib capacities, consult jib chart.

Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:
110	40	70.7	323.4	47,500B
	45	67.9	321.5	45,800B
	50	65.1	319.3	44,000
	55	62.2	316.8	42,200
	60	59.2	314.0	40,600
	65	56.1	310.9	39,100
	70	52.9	307.3	37,600
	75	49.6	303.3	36,300
	80	46.1	298.8	35,000
	85	42.3	293.6	33,300
90	38.3	287.7	31,100	
95	33.9	280.9	29,100	
100	28.9	272.7	27,400	
105	22.9	262.4	25,800	
110	14.8	247.7	23,400	
120	40	72.4	333.9	44,500B
	45	69.9	332.2	42,800
	50	67.3	330.2	41,200
	55	64.7	328.0	39,100
	60	62.0	325.5	37,600
	65	59.3	322.7	36,100
	70	56.4	319.6	34,700
	75	53.5	316.1	33,400
	80	50.5	312.1	32,100
	85	47.3	307.8	30,600
90	44.0	302.9	28,900	
95	40.4	297.4	27,400	
100	36.6	291.1	26,000	
105	32.4	283.8	24,700	
110	27.6	275.2	23,000	
115	21.9	264.3	22,100	
120	14.2	249.0	21,400	

Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:
130	45	71.5	342.8	39,000
	50	69.1	341.0	37,500
	55	66.7	339.0	36,000
	60	64.3	336.7	34,600
	65	61.8	334.2	33,100
	70	59.3	331.4	31,800
	75	56.7	328.2	30,500
	80	54.0	324.8	29,200
	85	51.3	321.0	28,000
	90	48.4	316.8	26,800
95	45.4	312.1	25,700	
100	42.2	306.8	24,600	
105	38.8	301.0	23,600	
110	35.1	294.3	22,700	
115	31.1	286.7	21,800	
120	26.5	277.6	21,000	
125	21.0	266.2	19,900	
130	13.6	250.2	18,100	
50	70.7	351.7	33,800	
55	68.5	349.8	32,300	
60	66.3	347.7	31,200	
65	64.0	345.4	30,000	
70	61.7	342.8	28,900	
75	59.4	340.0	27,900	
80	57.0	336.9	26,900	
85	54.5	333.5	25,800	
90	51.9	329.8	24,700	
95	49.3	325.7	23,700	
100	46.5	321.1	22,800	
105	43.6	316.2	21,400	
110	40.6	310.6	20,800	
115	37.3	304.5	19,900	
120	33.8	297.4	19,100	
125	29.9	289.4	18,300	
130	25.5	279.9	17,500	
135	20.3	268.0	16,800	
140	13.1	251.4	16,100	

Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:
150	50	72.0	362.2	30,000
	55	70.0	360.5	28,600
	60	67.9	358.6	27,800
	65	65.9	356.4	26,900
	70	63.8	354.1	26,000
	75	61.6	351.5	25,300
	80	59.4	348.7	24,600
	85	57.2	345.6	23,600
	90	54.9	342.2	22,700
	95	52.5	338.5	21,900
100	50.0	334.5	21,100	
105	47.5	330.2	20,300	
110	44.9	325.4	19,500	
115	42.1	320.1	18,800	
120	39.1	314.2	18,200	
125	36.0	307.7	17,500	
130	32.6	300.4	16,900	
135	28.9	292.0	16,300	
140	24.6	282.1	15,800	
145	19.6	269.8	15,000	
150	12.7	252.5	14,300	

Combined From Charts:
No. 5277-B 4-4-84
No. 5334 4-6-82

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