



TOWER CRANE CAPACITIES

4100W

4100W SERIES 1

193' TO 213' NO. 22A TOWER WITH NO. 23 BOOM
26' 6" CRAWLERS — EXTENDED
122,400 LB. COUNTERWEIGHT

CAUTION
OUTSIDE ASSIST REQUIRED **CRAWLER**

LIFTING CAPACITIES: Capacities for various tower heights, 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.

Boom angle is the angle between horizontal and centerline of boom butt and inserts and is an indication of operating radius. In all cases, operating radius shall govern capacity.

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 2,200 POUNDS TO PREVENT BOOM FROM COMING BACK AGAINST BOOM STOP AS LOAD IS RELEASED.

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.

OPERATING CONDITIONS: Machine to operate in a level position on a firm surface, crawlers fully extended, roller path level within a tolerance of 1/4" in 10 feet, and properly supported, and be rigged in accordance with and under conditions referred to in rigging drawing No. 50805 and load line specification chart No. 5347, and chart No. 5527 for recommended procedure for operating under various wind conditions. **CAUTION: OUTSIDE ASSIST REQUIRED. SEE CHART NO. 5393 FOR TOWER AND BOOM RAISING PROCEDURE.**

MACHINE EQUIPMENT: Machine equipped with 26' — 6" extendible crawlers, 48" treads, 17' retractable gantry, 12 part boom hoist reeving, four 1-3/8" tower pendants, two 1-1/2" boom pendants, two 7/8" intermediate suspension pendants on boom lengths of 130' and over. 1st cwt. 41,900 lbs., 2nd cwt. 41,500 lbs., 3rd cwt. 39,000 lbs. total counterweight 122,400 pounds.

LOAD LINE SPECIFICATIONS SEE NOTE *	
FULL WIDTH FRONT OR FULL WIDTH REAR DRUM	
LOAD LINE: 1-1/8" — 6x31 Warrington-Seale, Extra Improved Plow Steel, Regular Lay, IWRC. Minimum Breaking Strength 65 Ton. Maximum Load — 32,500 lbs. per Line. (Approx. Weight Per Ft. in lbs. 2.34)	
SPLIT REAR DRUM, RIGHT HAND	
LOAD LINE: 1-1/8" — 6x31 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 Ang.: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity:
110	35	73.6	325.0	61,300B	130	40	73.9	344.4	50,600B	150	50	72.1	362.2	41,100
	40	70.9	323.4	58,900B		45	71.6	342.8	48,700B		55	70.1	360.5	39,500
	45	68.1	321.5	56,500B		50	69.3	341.0	46,700B		60	68.1	358.6	37,900
	50	65.3	319.4	54,300B		55	66.9	339.0	44,800		65	66.0	356.5	36,300
	55	62.4	316.9	52,200B		60	64.5	336.8	43,000		70	63.9	354.1	34,700
	60	59.4	314.1	50,200B		65	62.0	334.2	41,200		75	61.7	351.6	33,100
	65	56.3	311.0	48,300		70	59.5	331.4	39,400		80	59.6	348.8	31,600
	70	53.1	307.5	46,400		75	56.9	328.3	37,800		85	57.3	345.7	30,200
	75	49.8	303.5	44,700		80	54.2	324.9	36,100		90	55.0	342.3	28,900
	80	46.3	299.0	43,000		85	51.5	321.1	34,600		95	52.7	338.7	27,600
	85	42.6	293.9	41,500		90	48.6	316.9	33,200		100	50.2	334.7	26,300
90	38.6	288.0	39,900	95	45.6	312.3	31,800	105	47.7	330.4	25,100			
95	34.2	281.2	37,100	100	42.4	307.1	30,600	110	45.0	325.6	24,000			
100	29.2	273.2	34,900	105	39.0	301.3	29,300	115	42.3	320.3	22,900			
105	23.3	263.0	32,900	110	35.4	294.7	28,100	120	39.3	314.5	21,800			
110	15.5	248.8	30,800	115	31.4	287.1	27,100	125	36.2	308.1	20,900			
40	72.5	333.9	54,700B	120	26.8	278.1	26,100	130	32.9	300.8	20,000			
45	70.0	332.2	52,600B	125	21.4	267.0	25,200	135	29.2	292.5	19,100			
50	67.5	330.3	50,600B	130	14.3	251.5	24,400	140	25.0	282.7	18,300			
55	64.8	328.1	48,700B	45	73.0	353.3	45,000B	145	19.9	270.6	17,600			
60	62.2	325.6	46,700	50	70.8	351.7	43,200B	150	13.3	253.9	17,000			
65	59.4	322.8	44,800	55	68.6	349.8	41,400	50	73.3	372.7	36,700			
70	56.6	319.7	43,000	60	66.4	347.8	39,600	55	71.4	371.1	35,200			
75	53.7	316.2	41,300	65	64.2	345.5	37,900	60	69.5	369.3	33,600			
80	50.7	312.3	39,900	70	61.9	342.9	36,300	65	67.6	367.4	32,100			
85	47.5	308.0	38,200	75	59.5	340.1	34,700	70	65.6	365.2	30,600			
90	44.2	303.1	36,700	80	57.1	337.0	33,100	75	63.7	362.8	29,200			
95	40.7	297.7	35,300	85	54.6	333.6	31,600	80	61.6	360.2	27,800			
100	36.9	291.5	34,000	90	52.1	329.9	30,200	85	59.6	357.4	26,400			
105	32.7	284.2	32,600	95	49.5	325.8	28,800	90	57.5	354.4	25,100			
110	28.0	275.7	30,800	100	46.7	321.4	27,600	95	55.3	351.1	23,900			
115	22.3	265.0	29,200	105	43.8	316.4	26,300	100	53.1	347.5	22,700			
120	14.8	250.2	27,400	110	40.8	310.9	25,200	105	50.9	343.5	21,500			
				115	37.5	304.8	24,100	110	48.5	339.3	20,500			
				120	34.0	297.8	23,100	115	46.1	334.7	19,400			
				125	30.2	289.9	22,200	120	43.5	329.6	18,500			
				130	25.8	280.5	21,300							
				135	20.7	268.8	20,500							
				140	13.7	252.7	19,900							

Combined From Charts:
No. 6193-B 3-11-80
No. 5347 8-11-80

* NOTE: Hoist line on full width rear drum or right rear drum is used only when two load lines are required over the boom point.

Form No. 6193-B, 8-11-80/GB