TOWER CRANE CAPACITIES

123' TO 183' NO. 22A TOWER WITH NO. 23 BOOM 26' 6" CRAWLERS — EXTENDED 122,400 LB. COUNTERWEIGHT

4100W SERIES

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.

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. See tower and boom raising capability chart.

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 in a level position on a firm surface, crawlers fully extended, roller path level within a tolerance of 1/2" 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. BOOM LENGTHS MUST BE 13' SHORTER THAN TOWER HEIGHT, TO FOLD BOOM UNDER TOWER.

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. 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 183' tower. Deduct 10' for each 10' reduction at tower height.

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 ctwt. 41,900 lbs., 2 ctwt. 41,500 lbs., 3rd ctwt. 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" — 0x31 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)

M	AXIMUM TOWER A		THS		
OVER FR BLOCKED		OVER SIDE OF EXTENDED CRAWLERS OR FRONT OF UNBLOCKED CRAWLERS			
Tower	Boom	Tower	Boom		
183′	170′	153'	140′		

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.

(A) DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED									
Jib Length	Jib No. 124								
30′	2,000 lb.								
40′	2,400 Lb.								
50′	2,800 г.б.								
_60′	3,200 Lb.								

For jib capacities, consult jib chart.

Boom Leth.; Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity:	Boom Leth.: Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity:	Boom Leth.: Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity:	Boom Leth.: Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity:
1	35 40 45 50 55	73.6 70.9 68.1 65.3 62.4	295.0 293.4 291.5 289.4 286.9	61,300B 58,900B 56,500B 54,300B 52,200B	4	40 45 50 55 60	73.9 71.6 69.3 66.9 64.5	314.4 312.8 311.0 309.0 306.8	50,6008 48,7008 46,700 44,800 43,000	1 4 0	120 125 130 135 140	34.0 30.2 25.8 20.7 13.7	267.8 259.9 250.5 238.8 222.7	23,100 22,200 21,300 20,500 19,900		50 55 60 65 70	73.3 71.4 69.5 67.6 65.6	342.7 341.1 339.3 337.4 335.2	36,700 35,200 33,600 32,100 30,600
1	60 65 70 75 80	59.4 56.3 53.1 49.8 46.3	284.1 281.0 277.5 273.5 269.0	50,200 48,300 46,400 44,700 43,000	3	65 70 75 80 85	62.0 59.5 56.9 54.2 51.5	304.2 301.4 298.3 294.9 291.1	41,200 39,400 37,800 36,100 34,600		50 55 60 65 70	72.1 70.1 68.1 66.0 63.9	332.2 330.5 328.6 326.5 324.1	41,100 39,500 37,900 36,300 34,700	1	75 80 85 90 95	63.7 61.6 59.6 57.5 55.3	332.8 330.2 327.4 324.4 321.1	29,200 27,800 26,400 25,100 23,900
0	85 90 95 100 105	42.6 38.6 34.2 29.2 23.3 15.5	263.9 258.0 251.2 243.2 233.0	41,500 39,500 37,100 34,900 32,900	Ö	90 95 100 105 110	48.6 45.6 42.4 39.0 35.4	286.9 282.3 277.1 271.3 264.7	33,200 31,800 30,600 29,300 28,100	1	75 80 85 90 95	61.7 59.6 57.3 55.0 52.7	321.6 318.8 315.7 312.3 308.7	33,100 31,600 30,200 28,900 27,600	6	100 105 110 115 120	53.1 50.9 48.5 46.1 43.5	317.5 313.5 309.3 304.7 299.6	22,700 21,500 20,500 19,400 18,500
4	40 45 50 55 60	72.5 70.0 67.5 64.8	218.8 303.9 302.2 300.3 298.1	30,800 54,7008 52,6008 50,6008 48,700		115 120 125 130	31.4 26.8 21.4 14.3	257.1 248.1 237.0 221.5 323.3	27,100 26,100 25,200 24,400 45,000	บ ก	100 105 110 115 120	50.2 47.7 45.0 42.3 39.3	304.7 300.4 295.6 290.3 284.5	26,300 25,100 24,000 22,900 21,800	U	125 130 135 140 145	40.9 38.0 35.0 31.8 28.2	294.1 288.1 281.3 273.7 265.1	17,500 16,700 15,700 14,900 14,100
2	65 70 75 80 85	59.4 56.6 53.7 50.7 47.5	295.6 292.8 289.7 286.2 282.3 278.0	44,800 43,000 41,300 39,800 38,200	1	50 55 60 65	70.8 68.6 66.4 64.2	321.7 319.8 317.8 315.5 312.9	43,200 41,400 39,600 37,900 36,300	J	125 130 135 140 145	36.2 32.9 29.2 25.0 19.9	278.1 270.8 262.5 252.7 240.6	20,900 20,000 19:100 18:300 17,600		150 155 160	24.1 19.3 12.8	254.9 242.4 225.0	13,300 12,600 12,100
Ō	90 95 100	44.2 40.7 36.9	273.1 267.7 261.5	36,700 35,300 34,000	4	75 80 85 90	59.5 57.1 54.6 52.1	310.1 307.0 303.6 299.9	34,700 33,100 31,600 30,200		150	13.3		17,000					

* 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. Capacities continued

Form No. 6193-A, 8-11-80/GA

on reverse side.

SEE CONDITIONS ON REVERSE SIDE

Boom Leth.: Feet	Oper. Rad.: Feet	Boom Ang.:	Boom Point:	Capacity:	
Feet	55 60 65 70 75	72.5 70.8 69.0 67.2 65.3	351.6 350.0 348.1 346.1 343.9	32,200 30,800 29,400 27,4900 26,600	
1	80 85 90 95 100	63.4 61.5 59.6 57.6 55.6	341.5 338.9 336.1 333.0 329.7	25,200 23,900 22,700 21,500 20,400	
7	105 110 115 120 125	53.6 51.4 49.2 47.0 44.6	326.2 322.4 318.2 313.7 308.9	19 300 18 300 17 300 16 300	
0	130 135 140 145 150	42.2 39.6 36.9 34.0 30.8	303.6 297.8 291.5 284.4 276.5	14,300,1 13,400 12,600 11,800 11,000	
	155 160 165 170	27.3 23.4 18.7 12.5	267.5 257.0 244.0 226.1	10,300 9,700 9,100 8,600	
				P	

Combined From Charts: No. 6193-A 3-11-80 No. 5347 8-11-80 4100 tower/4000 tower ot

Crane mats

Fael

3rd Party

3x 5,000165

At - C5tt across 85 bull

25tt oth

Greated Pads