## TOWER CRANE JIB LIFTING CAPACITIES

4100W SERIES

183' TO 253' NO. 22A TOWER WITH 170' NO. 23 BOOM AND NO. 124 JIB EXTENSION — 18' JIB STRUT 26'6" CRAWLERS — EXTENDED 122,400 LB. COUNTERWEIGHT

CAUTION OUTSIDE ASSIST REQUIRED

O DEGREE JIB OFFSET ANGLE

Chart supplements Tower Capacity Chart No. 6193-A, No. 6193-B or No. 6193-C. Capacities for various tower lengths, jib lengths and operating radii are for freely suspended loads and do not exceed **75%** of a static tipping load. CAPACITIES BASED ON STRUCTURAL COMPETENCE ARE DENOTED BY SHADED AREAS. Capacities are shown in pounds.

Machine to operate on a firm surface with crawlers fully extended and roller path level within a tolerance of 1/4" in 10 ft. and properly supported. 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. Refer to Tower Rigging No. 50805, Jib Assembly No. 43348, Chart No. 5527 for recommended procedure for operating under various wind conditions and Chart No. 5393 for tower and boom raising procedure.

Operating radius is the horizontal distance from the axis of rotation to the center of vertical hoist line or load block. Boom angle is the angle between horizontal and centerline of the

boom butt and inserts and is an indication of operating radius. In all cases, operating radius shall govern capacity.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and jib point sheaves, is considered part of the jib load. Boom and jib are 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.

All machines with towers over 183 ft. require outside assist in raising tower and boom. Jib to be attached with tower in vertical position and with boom in a position which will allow lib to be attached.

## JIB LOAD LINE SPECIFICATIONS

1" 6x25 Filler Wire, Improved Plow Steel, Regular Lay, IWRC. Minimum Breaking Strength 44.9 Ton. (Approx. Weight Per Ft. in Lbs. 1.85)

30	30 FOOT JIB		
Jib Point Radius Feet	Boom Angle: Deg.	Capacity:	
65	72.9	20,000	
70	71.4	20,000	
75	69.9	20,000	
80	68.4	20,000	
85	66.8	20,000	
90	65.3	20,000	
95	63.7	20,000	
100	62.1	19,900	
105	60.4	19,500	
110	58.8	19,100	
115	57.1	18,700	
120	55.4	18,200	
125	53.6	17,800	
130	51.8	17,400	
135	50.0	16,900	
140	48.1	16,400	
145	46.1	16,000	
150	44.1	15,600	
155	42.0	15,200	
160	39.8	14,800	
165	37.5	14,500	
170	35.1	14,200	
175	32.5	13,900	
180	29.7	13,600	
185	26.6	13,100	
190	23.2	12,500	
195	19.2	12,000	

40 FOOT JIB				
Jib Point Radius Feet	Boom Angle: Deg.	Capacity:		
65	73.9	14,000		
70	72.5	14,000		
75	71.0	14,000		
80	69.6	14,000		
85	68.1	14,000		
90	66.7	14,000		
95	65.2	14,000		
100	63.7	14,000		
105	62.1	14,000		
110	60.6	14,000		
115	59.0	14,000		
120	57.4	14,000		
125	55.7	14,000		
130	54.1	14,000		
135	52.4	14,000		
140	50.6	14,000		
145	48.8	14,000		
150	47.0	14,000		
155	45.1	13,600		
160	43.1	13,300		
165	41.1	12,900		
170	38.9	12,600		
175	36.7	12,300		
180	34.3	12,100		
185	31.8	11,800		
190	29.1	11,500		
195	26.1	11,300		
200	22.7	11,100		
205	18.8	10,900		

50 FOOT JIB		
Jib Point Radius Feet	Boom Angle: Deg.	Capacity:
70	73.2	10,000
75	71.8	10,000
80	70.5	10,000
85	69.1	10,000
90	67.7	10,000
95	66.3	10,000
100	64.8	10,000
105	63.4	10,000
110	61.9	10,000
115	60.4	10,000
120	58.9	10,000
125	57.4	10,000
130	55.8	10,000
135	54.3	10,000
140	52.6	10,000
145	51.0	10,000
150	49.3	10,000
155	47.5	10,000
160	45.7	10,000
165	43.9	10,000
170	42.0	10,000
175	40.0	10,000
180	37.9	10,000
185	35.7	10,000
190	33.4	10,000
195	30.9	9,900
200	28.3	9,800
205	25.4	9,700
210	22.1	9,600
215	18.3	9,400

60	60 FOOT JIB		
Jib Point Radius Feet	Boom Angle: Deg.	Capacity:	
70	73.6	5,000	
75	72.3	5,000	
80	71.0	5,000	
85	69.7	5,000	
90	68.3	5,000	
95	67.0	5,000	
100	65.7	5,000	
105	64.3	5,000	
110	62.9	5,000	
115	61.5	5,000	
120	60.1	5,000	
125	58.6	5,000	
130	57.2	5,000	
135	55.7	5,000	
140	54.2	5,000	
145	52.6	5,000	
150	51.0	5,000	
155	49.4	5,000	
160	47.8	5,000	
165	46.1	5,000	
170	44.3	5,000	
175	42.5	5,000	
180	40.7	5,000	
185	38.7	5,000	
190	36.7	5,000	
195	34.6	5,000	
200	32.3	5,000	
205	29.9	5,000	
210	27.3	5,000	
215	24.5	5,000	
220	21.3	5,000	
225	17.6	5,000	