

TOWER CRANE JIB LIFTING CAPACITIES 4100W

4100W SERIES-1

163' TO 253' NO. 22A TOWER WITH 150' NO. 23 BOOM AND
NO. 124 JIB EXTENSION — 18' JIB STRUT
26'6" CRAWLERS — EXTENDED
122,400 LB. COUNTERWEIGHT

**CAUTION OUTSIDE
ASSIST REQUIRED**

0 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 jib 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 FOOT JIB		
Jib Point Radius Feet	Boom Angle: Deg.	Capacity:
60	72.6	20,000
65	71.0	20,000
70	69.3	20,000
75	67.6	20,000
80	65.8	20,000
85	64.1	20,000
90	62.3	20,000
95	60.5	20,000
100	58.6	20,000
105	56.8	20,000
110	54.8	20,000
115	52.9	19,800
120	50.8	19,100
125	48.8	18,500
130	46.6	17,900
135	44.4	17,400
140	42.0	16,900
145	39.6	16,400
150	37.0	16,000
155	34.3	15,600
160	31.3	15,200
165	28.1	14,800
170	24.5	14,500
175	20.2	14,200

40 FOOT JIB		
Jib Point Radius Feet	Boom Angle: Deg.	Capacity:
60	73.7	14,000
65	72.2	14,000
70	70.6	14,000
75	69.0	14,000
80	67.3	14,000
85	65.7	14,000
90	64.0	14,000
95	62.3	14,000
100	60.6	14,000
105	58.9	14,000
110	57.1	14,000
115	55.3	14,000
120	53.4	14,000
125	51.5	14,000
130	49.6	14,000
135	47.5	14,000
140	45.5	14,000
145	43.3	14,000
150	41.0	14,000
155	38.7	13,800
160	36.2	13,400
165	33.5	13,100
170	30.6	12,800
175	27.5	12,500
180	24.0	12,300
185	19.8	12,100

50 FOOT JIB		
Jib Point Radius Feet	Boom Angle: Deg.	Capacity:
65	73.0	10,000
70	71.5	10,000
75	69.9	10,000
80	68.4	10,000
85	66.9	10,000
90	65.3	10,000
95	63.7	10,000
100	62.1	10,000
105	60.5	10,000
110	58.8	10,000
115	57.1	10,000
120	55.4	10,000
125	53.7	10,000
130	51.9	10,000
135	50.0	10,000
140	48.1	10,000
145	46.2	10,000
150	44.1	10,000
155	42.0	10,000
160	39.8	10,000
165	37.5	10,000
170	35.1	10,000
175	32.5	10,000
180	29.7	10,000
185	26.7	10,000
190	23.2	10,000
195	19.2	10,000

60 FOOT JIB		
Jib Point Radius Feet	Boom Angle: Deg.	Capacity:
65	73.4	5,000
70	72.0	5,000
75	70.6	5,000
80	69.1	5,000
85	67.7	5,000
90	66.2	5,000
95	64.7	5,000
100	63.2	5,000
105	61.6	5,000
110	60.1	5,000
115	58.5	5,000
120	56.9	5,000
125	55.3	5,000
130	53.6	5,000
135	51.9	5,000
140	50.1	5,000
145	48.3	5,000
150	46.5	5,000
155	44.6	5,000
160	42.6	5,000
165	40.6	5,000
170	38.5	5,000
175	36.2	5,000
180	33.9	5,000
185	31.3	5,000
190	28.6	5,000
195	25.6	5,000
200	22.3	5,000
205	18.4	5,000