MANITOWOC ENGINEERING CO.
Division of The Manitowoc Company, Inc. Manitowoc, Wisconsin 54220

TOWER CRANE JIB LIFTING CAPACITIES 4100W

4100W SERIES-1

143' TO 253' NO. 22A TOWER WITH 130' 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 ¼" 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. Maximum capacity on 1" — 6 x 25 IPS, IWRC is 20,000 lbs. 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.

30 FOOT JIB

Jib Point Radius Feet	Boom Angle: Deg.	Capacity:
55	72.3	20,000
60	70.4	20,000
65	68.5	20,000
70	66.5	20,000
75	64.6	20,000
80	62.6	20,000
85	60.6	20,000
90	58.5	20,000
95	56.4	20,000
100	54.2	20,000
105	51.9	20,000
110	49.6	20,000
115	47.2	20,000
120	44.7	19,300
125	42.1	18,700
130	39.4	18,100
135	36.4	17,500
140	33.3	17,100
145	29.9	16,600
150	26.0	16,200
155	21.5	15,800

40 FOOT JIB

Jib Point Radius Feet	Boom Angle: Deg.	Capacity:
55	73.5	14,000
60	71.8	14,000
65	70.0	14,000
70	68.2	14,000
75	66.4	14,000
80	64.5	14,000
85	62.6	14,000
90	60.7	14,000
95	58.8	14,000
100	56.8	14,000
105	54.7	14,000
110	52.6	14,000
115	50.5	14,000
120	48.2	14,000
125	45.9	14,000
130	43.5	14,000
135	41.0	14,000
140	38.3	14,000
145	35.5	14,000
150	32.5	14,000
155	29.1	14,000
160	25.4	13,600
165	21.0	13,300

50 FOOT JIB

Jib Point Radius Feet	Boom Angle: Deg.	Capacity:
60	72.7	10,000
65	71.0	10,000
70	69.3	10,000
75	67.6	10,000
80	65.9	10,000
85	64.1	10,000
90	62.3	10,000
95	60.5	10,000
100	58.7	10,000
105	56.8	10,000
110	54.9	10,000
115	52.9	10,000
120	50.9	10,000
125	48.8	10,000
130	46.7	10,000
135	44.4	10,000
140	42.1	10,000
145	39.7	10,000
150	37.1	10,000
155	34.3	10,000
160	31.4	10,000
165	28.1	10,000
170	24.5	10,000
175	20.3	10,000

60 FOOT JIB

Jib Point Radius Feet	Boom Angle: Deg.	Capacity:
60	73.2	5,000
65	71.6	5,000
70	70.0	5,000
75	68.4	5,000
80	66.8	5,000
85	65.2	5,000
90	63.5	5,000
95	61.8	5,000
100	60.1	5,000
105	58.3	5,000
110	56.6	5,000
115	54.8	5,000
120	52.9	5,000
125	51.0	5,000
130	49.0	5,000
135	47.0	5,000
140	44.9	5,000
145	42.8	5,000
150	40.5	5,000
155	38.1	5,000
160	35.6	5,000
165	33.0	5,000
170	30.1	5,000
175	27.0	5,000
180	23.4	5,000
185	19.3	5,000