THE PROPERTY OF

TOWER CRANE INTERMEDIATE FALL CAPACITIES _____

4100W 4100W 4100W SERIES 1 CRAWLER

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

LIFTING CAPACITIES: Capacities for various tower lengths, 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 all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom, jib and intermediate fall point sheaves, is considered part of the intermediate fall load. When jib is attached, a deduction for jib weight is not required for this chart only. 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 aproved.

A maximum of two hoist lines may be used with one over the intermediate fall and one over the boom point or jib point. Simultaneous handling of loads with hoist lines over the intermediate fall and boom point or jib point is not permitted.

OPERATING CONDITIONS: Machine to operate on a firm surface with crawlers fully extended and roller path level within a tolerance of ½" in 10' and properly supported. Refer to rigging No. 50805, load line specification chart No. 5347 and chart No. 5527 for recommended procedure for operating under various wind conditions. BOOM MUST BE AT LEAST 13' SHORTER THAN TOWER IN ORDER 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.

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.

INTERMEDIATE FALL POINT ELEVATION: Intermediate fall point elevation, in feet, is the vertical distance from ground level to centerline of intermediate fall point shaft. Distances are given for 183' tower. Deduct 10' for each 10' reduction in tower height.

MACHINE EQUIPMENT: Machine equipped with 26' — 6" extendible crawlers, 48" treads, 17' retractable gantry, 12 part boom hoist reeving, four 1%" tower pendants, two 1½" boom pendants, two ½" intermediate suspension pendants. 1st ctwt. 41,900 lbs., 2nd ctwt. 41,500 lbs., 3rd ctwt. 39,000 lbs. Total counterweight 122,400 pounds.

LOAD LINE SPECIFICATIONS

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

MAXIMUM TOWER AND BOOM LENGTHS LIFTED UNASSISTED							
OVER FRONT OF BLOCKED CRAWLERS		OVER SIDE OF EXTENDED CRAWLERS					
Tower	Boom	Tower	Boom				
183'	170'	153′	140′				

Load block, hook and weight ball in 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.

Boom	Oper.	Boom	Int. Fall	Capacity:
Lgth.:	Rad.:	Angle:	Point:	
Feet	Feet	Deg.	Elev.	
110 AND 120	35 40 45 50 55	63.1 57.9 52.3 46,3 39,6	245.9 242.9 239.3 234.8 229.2	15,000 12,700 11,200 10,000 8,900
120	60	31.6	221.9	8,100
	65	21.1	211.2	7,500
130 AND 140	30 35 40 45 50	68.0 63.1 57.9 52.3 46.3	248.3 245.9 242.9 239.3 234.8	15,000 15,000 12,700 11,200 10,000
150	55	39.6	229.2	8,900
	60	31.6	221.9	8,100
	65	21.1	211.2	7,500

	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Int. Fall Point Elev.	Capacity:
•	160	30 35 40 45 50	71.2 67.0 62.7 58.2 53.4	259.0 257.0 254.6 251.6 248.1	15,000 15,000 14,200 12,600 11,200
		55 60 65 70 75	48.3 42.8 36.6 29.3 19.5	243.8 238.7 232.5 224.5 212.9	10,100 9,200 8,400 7,800 7,200
-	4=0	35 40 45 50 55	69.9 66.2 62.3 58.4 54.2	267.8 265.7 263.2 260.3 256.8	15,000 15,000 14,000 12,400 11,100
	170	60 65 70 75 80 85	49.9 45.2 40.0 34.2 27.4 18.2	252.8 248.0 242.4 235.6 226.9 214.4	10,200 9,300 8,600 7,900 7,300 7,000

Combined From Charts: No. 6193-A1 11-15-84

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