



TOWER CRANE CAPACITIES

3900W SERIES-2 CRAWLER

204' OF NO. 9A TOWER WITH NO. 18 BOOM
24' CRAWLERS — EXTENDED
84,600 LB. COUNTERWEIGHT

CAUTION
OUTSIDE ASSIST REQUIRED

LIFTING CAPACITIES: Capacities for various 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 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. **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 on a firm surface with crawlers fully extended and roller path level within a tolerance of 1/4" in 10 ft. and properly supported, and rigged in accordance with and under conditions referred to in rigging drawing No. 65079 and load line specification chart No. 5326 and chart No. 6633-A for recommended procedure for operating under various wind conditions. **CAUTION: OUTSIDE ASSIST REQUIRED. SEE CHART NO. 6473 FOR TOWER AND BOOM RAISING PROCEDURE.**

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. Add 12" to boom point radius for radius of sheave when using single part 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.

MACHINE EQUIPMENT: Machine equipped with 24' extendible crawlers, 48" treads, 16' retractable gantry, 10 part boom hoist reeving, four 1 1/4" tower pendants, two 1 1/4" boom pendants, two 3/4" intermediate suspension pendants as specified on rigging drawing. 1st cwt. = 43,000 lbs., 2nd cwt. = 30,000 lbs., 3rd cwt. = 11,600 lbs.

LOAD LINE SPECIFICATIONS	
LOAD LINE: 1" — 6x25 Filler Wire, Improved Plow Steel, Regular Lay, IWRC. Minimum Breaking Strength 44.9 Ton. Maximum Load per Line — 22,500 lbs. (Approx. Weight Per Ft. in lbs. 1.85)	
WHIP LINE: 1" — 6x25 Filler Wire, Improved Plow Steel, Regular Lay, IWRC. Minimum Breaking Strength 44.9 Ton. Maximum Load per Line — 22,500 lbs. (Approx. Weight Per Ft. in lbs. 1.85)	

Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity:
100	35	71.9	305.9	34,000B
	40	68.9	304.1	33,700B
	45	65.8	302.0	32,600
	50	62.6	299.6	31,200
	55	59.3	296.8	29,500
110	60	55.9	293.7	28,000
	65	52.4	290.0	26,700
	70	48.7	285.9	25,400
	75	44.8	281.2	24,100
	80	40.5	275.8	22,900
120	85	35.9	269.4	22,400
	90	30.7	261.8	21,100
	95	24.5	252.3	19,800
	100	16.3	238.8	18,600
130	35	73.6	316.3	32,000B
	40	70.9	314.7	31,300
	45	68.1	312.9	30,200
	50	65.3	310.7	29,200
	55	62.4	308.3	28,100
140	60	59.4	305.5	27,000
	65	56.3	302.3	26,000
	70	53.1	298.8	24,900
	75	49.8	294.8	23,700
	80	46.3	290.3	22,600
150	85	42.6	285.2	22,100
	90	38.6	279.4	20,900
	95	34.2	272.6	19,500
	100	29.2	264.5	18,300
	105	23.3	254.4	17,200
160	110	15.5	240.2	16,300

Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity:
120	40	72.5	325.3	29,100
	45	70.0	323.6	28,100
	50	67.5	321.6	27,100
	55	64.8	319.4	26,100
	60	62.2	316.9	25,100
130	65	59.4	314.1	24,100
	70	56.6	311.0	23,100
	75	53.7	307.5	22,500
	80	50.7	303.7	21,800
	85	47.5	299.3	21,200
140	90	44.2	294.5	20,600
	95	40.7	289.0	19,300
	100	36.9	282.8	18,100
	105	32.7	275.6	17,000
	110	28.0	267.1	16,000
150	115	22.3	256.4	15,100
	120	14.8	241.5	14,300
160	40	73.9	335.7	25,000
	45	71.6	334.2	24,400
	50	69.3	332.4	23,800
	55	66.9	330.4	23,200
	60	64.5	328.1	22,500
170	65	62.0	325.6	21,800
	70	59.5	322.8	21,200
	75	56.9	319.7	20,400
	80	54.2	316.3	19,600
	85	51.5	312.5	18,700
180	90	48.6	308.3	18,000
	95	45.6	303.6	17,300
	100	42.4	298.5	16,400
	105	39.0	292.7	16,100
	110	35.4	286.1	15,800
190	115	31.4	278.5	14,900
	120	26.8	269.5	14,100
	125	21.4	258.3	13,300
	130	14.3	242.8	12,600

Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity:
140	45	73.0	344.7	22,000
	50	70.8	343.0	21,500
	55	68.6	341.2	21,000
	60	66.4	339.1	20,500
	65	64.2	336.8	20,000
150	70	61.9	334.3	19,500
	75	59.5	331.5	18,900
	80	57.1	328.4	18,300
	85	54.6	325.0	17,500
	90	52.1	321.3	16,700
160	95	49.5	317.2	16,000
	100	46.7	312.7	15,200
	105	43.8	307.8	14,400
	110	40.8	302.3	13,700
	115	37.5	296.1	13,000
170	120	34.0	289.2	12,400
	125	30.2	281.2	11,700
	130	25.8	271.8	11,200
	135	20.7	260.2	10,600
	140	13.7	244.0	10,100
180	50	72.1	353.6	19,600
	55	70.1	351.9	19,300
	60	68.1	350.0	19,000
	65	66.0	347.8	18,700
	70	63.9	345.5	18,400
190	75	61.7	342.9	17,600
	80	59.6	340.1	16,800
	85	57.3	337.1	16,000
	90	55.0	333.7	15,200
	95	52.7	330.0	14,500
200	100	50.2	326.1	13,800
	105	47.7	321.7	13,100
	110	45.0	316.9	12,500
	115	42.3	311.7	11,900
	120	39.3	305.9	11,300
210	125	36.2	299.5	10,700
	130	32.9	292.2	10,100
	135	29.2	283.9	9,600
	140	25.0	274.1	9,100
	145	19.9	262.0	8,700
220	150	13.3	245.2	8,500

Combined From Charts:
No. 6753-C 11-28-84
No. 5326 9-4-80