



TOWER CRANE CAPACITIES

3900T

**174' TO 194' OF NO. 9A TOWER WITH NO. 18 BOOM
61,200 LB. CRANE COUNTERWEIGHT**

**CAUTION OUTSIDE
ASSIST REQUIRED**

SERIES-2

RATING OVER SIDE OR REAR ON EXTENDED OUTRIGGERS

TRUCK CRANE

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 BASED ON STRUCTURAL COMPETENCE ARE SHOWN BY SHADED AREAS.**

BOOM POINT ELEVATION: Boom point elevation, in feet, is the vertical distance from ground level to centerline of boom point shaft. Distances are given for 194' tower. Deduct 10' for each 10' reduction in tower height.

Capacities are shown in pounds. Weight of jib, (see chart A) all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and jib 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.**

MACHINE EQUIPMENT: Machine equipped with Manitowoc-Hendrickson 12 x 6 carrier, 226" wheelbase, 10,500 lb. front bumper ctwt., 112" outriggers or Manitowoc-Pierce 10 x 6 carrier, 258.5" wheelbase, 5,300 lb. front bumper ctwt., 112" outriggers or Consolidated Dynamics 12 x 6 carrier, model 12615, 235" wheelbase, 5,500 lb. front bumper ctwt., 115" outriggers. Machine also equipped with 15' retractable gantry, 10 part boom hoist reeving, four 1-1/4" tower pendants, two 1-1/4" boom pendants, two 7/8" intermediate suspension pendants as specified on rigging drawing, 61,200 lb. 2 piece crane ctwt.

OPERATING CONDITIONS: Machine to operate on a firm surface with outriggers fully extended and roller path level within a tolerance of 1/4" in 10 ft. and properly supported. Refer to rigging No. 65136 and No. 66015, load line specification chart No. 5327, operating range diagram chart No. 6423-A and chart No. 6631-A for recommended procedure for operating under various wind conditions. **CAUTION: OUTSIDE ASSIST REQUIRED. SEE CHART NO. 6484 FOR TOWER AND BOOM RAISING PROCEDURE.**

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

Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, wind conditions, as well as adverse operating conditions and physical machine depreciation.

(A) DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED	
Jib Length	Jib No. 124
30'	2,000 Lb.
40'	2,400 Lb.
50'	2,800 Lb.
60'	3,200 Lb.

Load block, hook & weight ball on 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.

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.

For jib capacities, consult jib chart.

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 Lgth.: Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity:	
40	68.7	294.9	36,000B	30,700	40	72.4	316.1	30,700	45	72.8	335.5	25,300	45	74.0	345.9	22,600	45	74.0	345.9	22,600
45	65.6	292.8	34,800	29,800	45	69.8	314.4	29,800	50	70.7	333.9	24,600	50	72.0	344.4	21,800	50	72.0	344.4	21,800
50	62.4	290.4	33,300	28,900	50	67.3	312.4	28,900	55	68.5	332.0	23,800	55	70.0	342.7	20,900	55	70.0	342.7	20,900
55	59.1	287.6	31,700	28,000	55	64.7	310.2	28,000	60	66.3	329.9	23,100	60	67.9	340.8	20,100	60	67.9	340.8	20,100
60	55.7	284.4	29,000	27,200	60	62.0	307.7	27,200	65	64.0	327.6	22,300	65	65.8	338.6	19,200	65	65.8	338.6	19,200
65	52.1	280.7	26,900	26,300	65	59.2	304.9	26,300	70	61.7	325.0	21,500	70	63.7	336.3	18,400	70	63.7	336.3	18,400
70	48.4	276.6	25,100	24,400	70	56.4	301.7	24,400	75	59.3	322.2	20,700	75	61.6	333.7	17,600	75	61.6	333.7	17,600
75	44.5	271.8	23,800	22,800	75	53.5	298.2	22,800	80	56.9	319.1	20,000	80	59.4	330.9	16,800	80	59.4	330.9	16,800
80	40.2	266.3	22,700	21,300	80	50.5	294.3	21,300	85	54.5	315.7	19,200	85	57.1	327.8	16,000	85	57.1	327.8	16,000
85	35.5	259.9	22,000	20,200	85	47.3	290.0	20,200	90	51.9	311.9	18,100	90	54.8	324.4	15,200	90	54.8	324.4	15,200
90	30.3	252.2	21,200	19,300	90	44.0	285.1	19,300	95	49.3	307.8	17,100	95	52.5	320.7	14,500	95	52.5	320.7	14,500
95	24.0	242.4	19,800	18,500	95	40.4	279.5	18,500	100	46.5	303.3	16,200	100	50.0	316.7	13,800	100	50.0	316.7	13,800
100	15.5	228.4	18,600	18,000	100	36.6	273.3	18,000	105	43.6	298.3	15,400	105	47.5	312.3	13,100	105	47.5	312.3	13,100
40	70.7	305.6	33,000B	17,000	105	32.4	266.0	17,000	110	40.6	292.8	14,900	110	44.8	307.5	12,500	110	44.8	307.5	12,500
45	67.9	303.7	32,100	16,000	110	27.6	257.3	16,000	115	37.3	286.6	14,400	115	42.1	302.2	11,900	115	42.1	302.2	11,900
50	65.1	301.5	31,100	15,300	115	21.9	246.4	15,300	120	33.8	279.6	13,700	120	39.1	296.4	11,300	120	39.1	296.4	11,300
55	62.2	299.0	30,100	14,300	120	14.1	231.0	14,300	125	29.9	271.5	13,100	125	36.0	289.9	10,700	125	36.0	289.9	10,700
60	59.2	296.2	29,200	28,200	125	13.6	232.2	28,200	130	25.5	262.0	12,400	130	32.6	282.6	10,100	130	32.6	282.6	10,100
65	56.1	293.0	26,800	27,400	130	13.6	232.2	27,400	135	20.2	250.1	11,700	135	28.9	274.2	9,600	135	28.9	274.2	9,600
70	52.9	289.5	24,900	26,600	135	13.1	233.4	26,600	140	13.1	233.4	11,100	140	24.6	264.2	9,100	140	24.6	264.2	9,100
75	49.5	285.5	23,200	25,700	140	13.1	233.4	25,700	145	19.5	251.9	10,700	145	19.5	251.9	8,700	145	19.5	251.9	8,700
80	46.0	280.9	21,900	25,000	145	12.6	234.5	25,000	150	12.6	234.5	10,300	150	12.6	234.5	8,500	150	12.6	234.5	8,500
85	42.3	275.8	20,800	24,100	150	12.6	234.5	24,100												
90	38.3	269.9	20,000	23,300				23,300												
95	33.8	263.0	19,500	22,300				22,300												
100	28.8	254.8	18,300	20,800				20,800												
105	22.8	244.5	17,200	19,500				19,500												
110	14.8	229.8	16,300	18,400				18,400												
				17,500				17,500												
				16,800				16,800												
				16,100				16,100												
				15,800				15,800												
				14,900				14,900												
				14,100				14,100												
				13,300				13,300												
				12,600				12,600												

Combined From Charts:
No. 6769-B 8-16-84
No. 5327 3-21-80

Operating Range Diagram continued on reverse side.

OPERATING RANGE DIAGRAM

3900T

RATING OVER SIDE OR REAR AND FRONT ON EXTENDED OUTRIGGERS

TRUCK CRANE

Approved working area is shown in the following diagram for boom chart capacities and jib chart capacities over side or rear and boom over front.

shown on the capacity charts.

Operating outside the working area is not intended or approved.

Lifting is approved only in this area for which ratings are

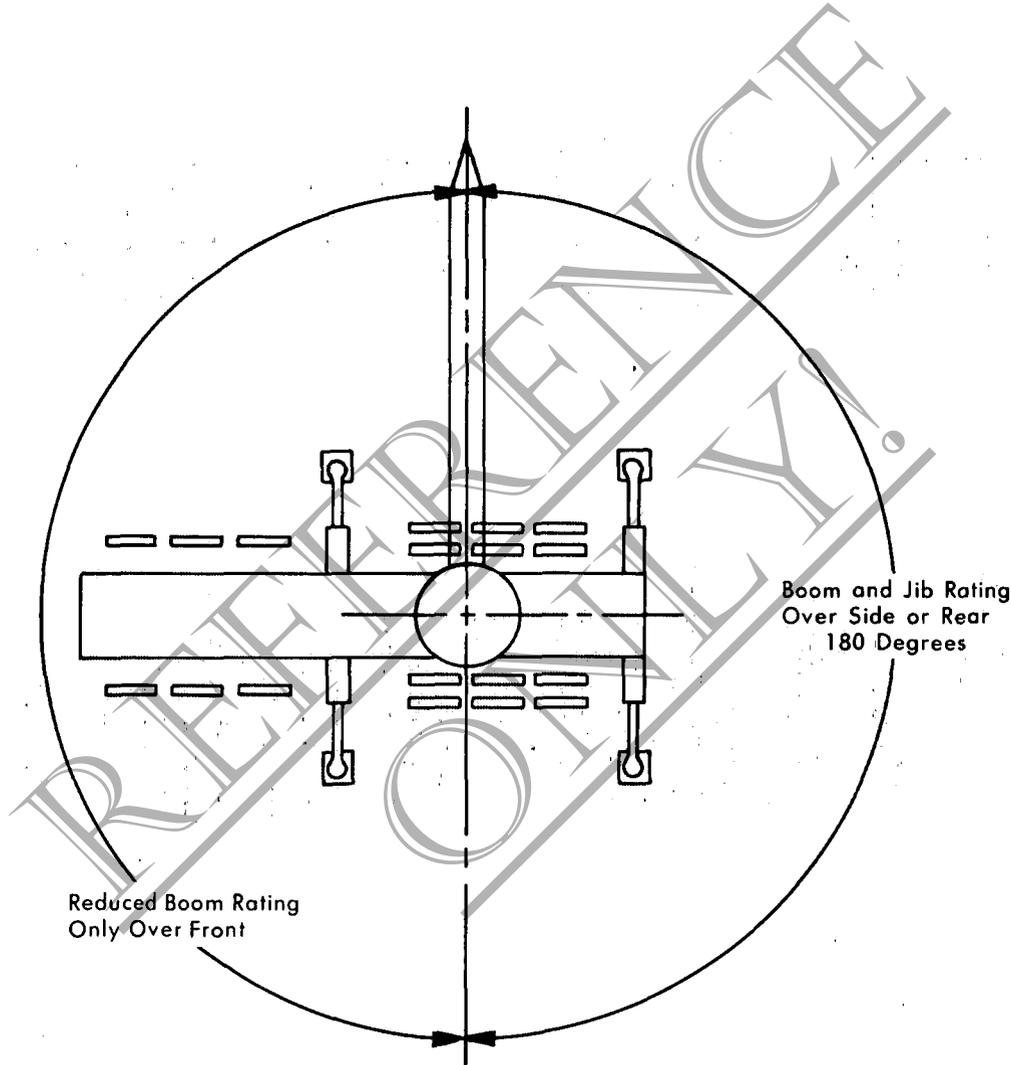


DIAGRAM OF BOOM AND JIB
OPERATING RANGE OVER SIDE AND REAR
AND BOOM OVER FRONT

(Ref. Drwg. No. 6423-A)