

LIFT CRANE CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

3900T
SERIES-2

BOOM No. 9A WITH OPEN THROAT TOP OFFSET 4½ DEGREES
74,000 LB. CRANE COUNTERWEIGHT
RATING OVER SIDE OR REAR ON EXTENDED OUTRIGGERS

TRUCK CRANE

LIFTING CAPACITIES: Capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 85% of a static tipping load. Capacities based on structural competence are shown by shaded areas.

Upper boom point capacity (whip line) for single part line is 22,500 lbs. In all cases, upper boom point capacities cannot exceed those listed for the main boom capacity.

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 to be 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.

OPERATING CONDITIONS: Machine to operate in a level position on a firm surface with outriggers fully extended, gantry in working position and under conditions referred to in rigging drawing No. 49447, load line specifications chart No. 6435 and operating range diagram chart No. 6423-A.

Crane operator judgment must be used to allow for dynamic load effects of swinging and hoisting or lowering, 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 with the load freely suspended. Add 11" 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 Manitowoc-Hendrickson 12 x 6 carrier, 226" wheelbase, 105" front axle track, 100" rear axle track, 14:00 x 20 tires, 112" outriggers, 15' retractable gantry, 10 or 12 part boom hoist reeving, four 1¼" boom pendants, 74,000 lb. 3 piece crane cwt. and 10,500 lb. front bumper cwt.

HOIST REEVEING FOR MAIN LOAD BLOCK						
No. Parts of Line	1	2	3	4	5	6
Max. Load - Lbs.	25,800	51,600	77,400	103,200	129,000	154,800
No. Parts of Line	7	8				
Max. Load - Lbs.	180,600	197,400				

LOAD AND WHIP LINE SPECIFICATIONS	
LOAD LINE: 1" — 6x25 Filler Wire, Extra Improved Plow Steel, Regular Lay, IWRC. Minimum Breaking Strength 51.7 Ton. 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.	

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED					
OVER REAR ON EXTENDED OUTRIGGERS			OVER SIDE ON EXTENDED OUTRIGGERS		
Boom Lgth.	Jib No. 123	Jib No. 124	Boom Lgth.	Jib No. 123	Jib No. 124
220'	—	—	220'	—	—
220'	50'	60'	210'	—	—
210'	60'	60'	200'	40'	60'
			190'	60'	60'

(A) DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED		
Jib Lgth.	Jib No. 123	Jib No. 124
30'	2,500 Lb.	1,800 Lb.
40'	3,100 Lb.	2,050 Lb.
50'	3,700 Lb.	2,300 Lb.
60'	4,400 Lb.	2,500 Lb.

For Jib Capacities,
Consult Jib Chart.

Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity: Outriggers Extended	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity: Outriggers Extended	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity: Outriggers Extended
60	14	82.4	67.1	197,400	70	40	60.7	67.8	86,300	90	17	83.0	97.0	156,200
	15	81.4	66.9	192,900		45	55.8	64.5	73,300		18	82.4	96.8	152,600
	16	80.4	66.7	188,700		50	50.6	60.5	63,500		19	81.7	96.7	149,200
	17	79.4	66.5	184,700		55	44.9	55.6	55,800		20	81.1	96.5	146,100
	18	78.5	66.2	180,900		60	38.5	49.6	49,700		22	79.8	96.1	140,200
	19	77.5	66.0	177,300		65	31.0	41.8	44,600		24	78.5	95.6	134,900
	20	76.5	65.7	173,900		70	20.9	30.6	39,900		26	77.2	95.2	130,000
	22	74.5	65.1	167,500		16	82.8	87.0	167,000		28	75.8	94.6	125,600
	24	72.5	64.4	161,700		17	82.1	86.9	163,100		30	74.5	94.0	121,500
	26	70.5	63.7	156,300		18	81.4	86.7	159,500		32	73.2	93.4	117,700
70	28	68.4	62.8	146,500	80	18	81.4	86.7	159,500	100	34	73.7	103.3	107,600
	30	66.3	61.9	131,700		19	80.7	86.5	156,100		36	72.5	102.6	99,400
	32	64.2	60.9	119,600		20	79.9	86.3	152,900		38	71.3	101.9	91,900
	34	62.0	59.8	109,400		22	78.5	85.8	146,900		40	70.1	101.1	85,400
	36	59.7	58.5	100,800		24	77.0	85.3	141,500		45	67.0	99.0	72,300
	38	57.5	57.2	93,300		26	75.5	84.8	136,600		50	63.8	96.6	62,500
	40	55.1	55.7	86,800		28	74.0	84.2	132,000		55	60.5	93.8	54,800
	45	48.9	51.5	73,800		30	72.5	83.5	127,800		60	57.1	90.6	48,600
	50	41.9	46.2	64,000		32	71.0	82.8	118,700		65	53.6	87.0	43,500
	55	33.7	39.1	56,400		34	69.5	82.0	108,500		70	49.9	82.8	39,300
80	60	22.8	28.9	48,300		36	67.9	81.1	99,800		75	45.9	78.1	35,700
	15	82.6	77.1	181,000		38	66.3	80.2	92,300		80	41.7	72.6	32,600
	16	81.8	76.9	176,800		40	64.7	79.2	85,900		85	37.0	66.2	29,900
	17	81.0	76.7	172,900		45	60.6	76.5	72,800		90	31.8	58.5	27,600
	18	80.1	76.5	169,200		50	56.4	73.2	63,000		95	25.5	48.8	25,500
	19	79.3	76.3	165,700		55	51.9	69.3	55,300		100	17.2	35.1	23,700
	20	78.5	76.0	162,400		60	47.0	64.8	49,100					
	22	76.8	75.5	156,200		65	41.8	59.4	44,100					
	24	75.1	75.0	150,600		70	35.8	52.8	39,800					
	26	73.4	74.3	145,400		75	28.8	44.3	36,300					
	28	71.6	73.6	140,700		80	19.4	32.2	33,200					
90	30	69.9	72.8	131,300										
	32	68.1	72.0	119,100										
	34	66.3	71.1	109,000										
	36	64.5	70.1	100,300										
	38	62.6	69.0	92,800										

Combined From Charts:
No. 6279-B 2-17-81
No. 6435 2-17-81
No. 6400 2-17-81

Capacities continued
on reverse side.

SEE CONDITIONS ON REVERSE SIDE

Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity: Outriggers Extended	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity: Outriggers Extended	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity: Outriggers Extended	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity: Outriggers Extended
20	82.7	116.7	133,300		75	60.4	128.4	34,100		110	52.1	140.6	17,500		70	71.3	196.6	35,200	
22	81.6	116.4	127,700		80	58.0	125.3	31,000		115	49.9	136.4	16,100		75	69.8	194.8	31,600	
24	80.6	116.1	122,700		85	55.5	121.9	28,300		120	47.7	131.9	14,900		80	68.3	192.8	28,500	
26	79.5	115.7	118,200		90	52.9	118.2	26,000		125	45.3	127.0	13,800		85	66.7	190.7	25,800	
28	78.5	115.2	114,000		95	50.3	114.1	23,900		130	42.8	121.7	12,800		90	65.1	188.4	23,500	
30	77.4	114.8	110,100		100	47.5	109.6	22,000		135	40.3	115.9	11,800		95	63.5	185.9	21,400	
32	76.3	114.2	106,600		105	44.7	104.6	20,400		140	37.5	109.6	10,900		100	61.9	183.2	19,500	
34	75.2	113.7	103,300		110	41.6	99.1	18,900		145	34.6	102.5	10,100		105	60.3	180.4	17,900	
36	74.2	113.1	98,900		115	38.4	92.9	17,600		150	31.5	94.5	9,400		110	58.6	177.3	16,400	
38	73.1	112.5	91,500		120	34.8	85.9	16,300		155	28.0	85.5	8,700		115	56.9	174.1	15,000	
40	72.0	111.8	84,900		125	31.0	77.9	15,200		160	24.0	74.9	8,000		120	55.1	170.6	13,800	
45	69.2	109.9	71,900		130	26.6	68.4	14,200		165	19.3	61.7	7,400		125	53.4	166.9	12,600	
50	66.4	107.7	62,000		135	21.4	56.6	13,200		30	82.3	186.0	81,700		130	51.5	163.0	11,600	
55	63.5	105.3	54,300		26	82.3	156.3	100,100		32	81.7	185.7	79,600		135	49.7	158.8	10,700	
60	60.5	102.4	48,100		28	81.6	156.0	96,700		34	81.1	185.4	77,400		140	47.7	154.3	9,800	
65	57.4	99.3	43,000		30	80.8	155.6	93,500		36	80.4	185.0	75,400		145	45.7	149.5	9,000	
70	54.2	95.7	38,800		32	80.0	155.3	90,600		38	79.8	184.6	73,500		150	43.7	144.3	8,200	
75	50.9	91.7	35,200		34	79.2	154.9	87,800		40	79.1	184.2	71,600		155	41.5	138.7	7,500	
80	47.4	87.2	32,100		36	78.5	154.4	85,200		45	77.5	183.1	67,300		160	39.3	132.7	6,800	
85	43.6	82.1	29,400		38	77.7	154.0	82,800		50	75.8	181.9	59,400		165	37.0	126.2	6,200	
90	39.6	76.2	27,100		40	76.9	153.5	80,600		55	74.2	180.5	51,700		170	34.5	119.1	5,700	
95	35.2	69.3	25,000		45	74.9	152.1	70,500		60	72.5	178.9	45,500		175	31.8	111.2	5,100	
100	30.2	61.2	23,200		50	72.9	150.6	60,600		65	70.8	177.2	40,400		180	28.9	102.4	4,600	
105	24.3	50.9	21,500		55	70.9	148.9	52,800		70	69.1	175.3	36,100		185	25.7	92.4	4,100	
110	16.3	36.4	20,000		60	68.9	147.0	46,600		75	67.4	173.2	32,500		34	82.3	215.7	65,800	
22	82.3	126.6	122,500		65	66.8	144.8	41,500		80	65.7	171.0	29,400		36	81.8	215.4	64,300	
24	81.4	126.2	117,700		70	64.7	142.5	37,300		85	63.9	168.5	26,700		38	81.2	215.1	62,900	
26	80.4	125.9	113,200		75	62.5	139.9	33,700		90	62.1	165.9	24,400		40	80.7	214.8	61,500	
28	79.4	125.5	109,200		80	60.3	137.1	30,600		95	60.3	163.1	22,300		45	79.3	213.8	58,300	
30	78.5	125.0	105,500		85	58.1	134.0	27,900		100	58.4	160.0	20,400		50	77.9	212.8	55,300	
32	77.5	124.6	102,100		90	55.8	130.6	25,500		105	56.5	156.7	18,800		55	76.5	211.6	50,400	
34	76.5	124.1	98,900		95	53.4	127.0	23,400		110	54.6	153.2	17,300		60	75.1	210.3	44,200	
36	75.5	123.5	96,000		100	51.0	122.9	21,600		115	52.6	149.4	15,900		65	73.7	208.8	39,100	
38	74.5	122.9	91,100		105	48.4	118.6	19,900		120	50.5	145.3	14,700		70	72.2	207.2	34,800	
40	73.5	122.3	84,600		110	45.8	113.8	18,500		125	48.4	140.9	13,600		75	70.8	205.5	31,200	
45	71.0	120.6	71,500		115	43.0	108.5	17,100		130	46.2	136.2	12,500		80	69.3	203.6	28,000	
50	68.4	118.7	61,600		120	40.1	102.7	15,900		135	43.9	131.1	11,600		85	67.9	201.6	25,300	
55	65.8	116.4	53,900		125	37.0	96.2	14,700		140	41.6	125.5	10,700		90	66.4	199.4	23,000	
60	63.2	113.9	47,700		130	33.6	88.9	13,700		145	39.1	119.5	9,900		95	64.9	197.0	20,900	
65	60.4	111.1	42,600		135	29.9	80.5	12,800		150	36.4	112.8	9,100		100	63.4	194.6	19,000	
70	57.6	108.0	38,400		140	25.6	70.6	11,900		155	33.6	105.5	8,400		105	61.8	191.9	17,400	
75	54.7	104.5	34,800		145	20.6	58.4	11,100		160	30.5	97.2	7,800		110	60.2	189.0	15,900	
80	51.7	100.6	31,700		26	82.8	166.4	96,400		165	27.2	87.9	7,200		115	58.6	186.0	14,500	
85	48.5	96.2	29,000		28	82.1	166.1	93,300		170	23.3	76.9	6,600		120	57.0	182.8	13,300	
90	45.2	91.3	26,600		30	81.4	165.8	90,300		175	18.7	63.3	6,100		125	55.4	179.4	12,100	
95	41.6	85.8	24,600		32	80.7	165.4	87,600		30	82.8	196.1	76,400		130	53.7	175.7	11,100	
100	37.8	79.6	22,700		34	79.9	165.1	84,900		32	82.1	195.8	74,500		135	52.0	171.8	10,100	
105	33.6	72.3	21,100		36	79.2	164.7	82,400		34	81.5	195.5	72,700		140	50.2	167.7	9,300	
110	28.9	63.7	19,600		38	78.5	164.2	80,000		36	80.9	195.2	70,900		145	48.4	163.3	8,500	
115	23.2	52.9	18,200		40	77.7	163.8	77,800		38	80.3	194.8	69,200		150	46.5	158.6	7,700	
120	15.5	37.7	17,000		45	75.9	162.5	70,100		40	79.7	194.4	67,500		155	44.6	153.6	7,000	
22	82.9	136.7	118,500		50	74.0	161.1	60,100		45	78.2	193.4	63,700		160	42.6	149.2	6,300	
24	82.1	136.4	114,000		55	72.1	159.5	52,400		50	76.6	192.2	59,000		165	40.8	144.2	5,700	
26	81.2	136.0	109,700		60	70.2	157.7	46,200		55	75.0	190.9	51,300		170	38.3	136.2	5,100	
28	80.3	135.7	105,700		65	68.3	155.7	41,100		60	73.5	189.4	45,000		175	36.0	129.4	4,600	
30	79.4	135.3	102,000		70	66.4	153.6	36,800		65	71.9	187.8	39,900		180	33.6	122.1	4,100	
32	78.5	134.8	98,700		75	64.4	151.2	33,200		70	70.3	186.0	35,700		185	31.0	113.9	3,600	
34	77.6	134.4	95,600		80	62.4	148.6	30,100		75	68.7	184.1	32,000		34	82.7	225.8	59,900	
36	76.7	133.9	92,700		85	60.3	145.7	27,400		80	67.0	181.9	28,900		36	82.2	225.6	59,500	
38	75.7	133.3	90,000		90	58.2	142.7	25,100		85	65.4	179.7	26,200		38	81.6	225.3	58,300	
40	74.8	132.8	84,100		95	56.1	139.3	23,000		90	63.7	177.2	23,900		40	81.1	224.9	57,100	
45	72.5	131.2	71,000		100	53.9	135.7	21,200		95	62.0	174.6	21,800		45	79.8	224.0	54,300	
50	70.2	129.4	61,100		105	51.6	131.8	19,500		100	60.3	171.7	19,900		50	78.5	223.0	51,700	
55	67.8	127.4	53,400		110	49.2	127.5	18,000		105	58.5	168.7	18,300		55	77.1	221.9	49,300	
60	65.4	125.1	47,200		115	46.8	122.9	16,700		110	56.7	165.4	16,800		60	75.8	220.6	43,900	
65	62.9	122.6	42,100		120	44.3	117.8	15,400		115	54.9	161.9	15,400		65	74.4	219.2	38,800	
70	60.4	119.8	37,800		125	41.6	112.3	14,300		120	53.0	158.2	14,200		70	73.1	217.7	34,500	
75	57.8	116.6	34,200		130	38.8	106.2	13,300		125	51.1	154.2	13,100		75	71.7	216.1	30,900	
80	55.1	113.2	31,100		135	35.7	99.4	12,300		130	49.1	149.9	12,000		80	70.3	214.3	27,800	
85	52.4	109.4	28,500		140	32.5	91.8	11,500		135	47.0	145.3	11,100		85	68.9	212.4	25,100	
90	49.5	105.2	26,100		145	28.9	83.0	10,600											