



This information is provided courtesy of Essex Crane Rental Corp. Sales Toll-Free: 888-911-4100 Corporate Phone: 847-215-6500 Email: sales@essexcrane.com Website: www.essexcrane.com

No. Par

Maximum Load — Lbs.

Maximum Load - Lbs.

No. Parts of Line

MEETS

ANSI B30.5

MANITOWOC ENGINEERING CO.

A Division of The Manitowoc Company, Inc. Manitowoc, Wisconsin 54220



112,500

LIFTCRANE CAPACITIES

BOOM NO. 8 WITH OPEN THROAT TOP 74,000 LB. COUNTERWEIGHT

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 based on structural competence are shown by shaded areas.

Upper boom point capacity (whip line) for single part line is 22,500 lbs. (20,000 lbs. when rear auxiliary drum is used). 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. See boom raising capability chart.

OPERATING CONDITIONS: Machine to operate in a level position on a firm surface with gantry in working position and be rigged in accordance with and under conditions referred to in rigging drawing No. 48029 or No. 48237 and load line specification chart No. 4899.

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 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 20'4" crawlers, 38" or 48" treads, 15' retractable gantry, 10 or 12 part boom hoist reeving, two 1-1/2" boom pendants, 1st ctwt. = 32,000 lbs., 2nd ctwt. = 26,500 lbs., 3rd ctwt. = 15,500 lbs.

Boom Oper, Boom Boom

Boom Oper, Boom Boom

HOIST REEVI					RAWLER				
Н	OIST	REEVING	FOR MAIN	LOAD BL	OCK				
rts of Line		1	2	3	4	5			

67,500

8

180,000

90,000

9

200,000

45,000

7

157,500

22,500

6

135,000

	LOAD AND WHIP LINE SPECIFICATIONS
LOAD	LINE: 1" — 6x25 Filler Wire, Improved Plow Steel, Regular Lay, IWRC. Minimum Breaking Strength 44.9 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)

	WAXIMUM RC	OW AND JIR	TENGIHS I	FTED UNASSIS	IED				
В	OVER FRONT		OVER SIDE OF CRAWLERS						
Bm. Lgth.	Jib No. 123	Jib No. 124	Bm. Lgth.	Jib. No. 123	Jib No, 124				
210'			190'						
200'			180'		90°				
190'	30,	90.	170'	30.					
180"	50'	90.	160′	60'	60,				
170'	60'	60'							

	OUCT FROM CA	
Jib Lgth.	Jib No. 123	Jib No. 124
30' 40' 50' 60'	2,500 lb. 3,100 lb. 3,700 lb. 4,400 lb.	1,800 lb. 2,050 lb. 2,300 lb. 2,500 lb.

Boom Oper, Boom Boom

For jib capacities, consult jib chart.

Boom Oper. Boom Boom

Lgth.: Feet	Rad.: Feet	Ang.: Deg.	Point: Elev.	Capacity:	Lgth.:	Rad.: Feet	Ang.: Deg.	Point: Elev.	Capacity:	Lgth.: Feet	Rad.: Feet	Ang.: Deg.	Point: Elev.	Capacity:	Lgth.: Feet	Rad.: Feet	Ang.: Deg.	Point:	Capacity:
	15 16 17 18 19	79.1 78.1 77.1 76.1 75.2	65.6 65.4 65.1 64.9 64.7	200,000 200,000 180,200 163,400 149,400	7	40 45 50 55 60	58.7 53.8 48.5 42.8 36.4	66.5 63.1 59.1 54.2 48.2	51,100 43,800 38,100 33,700 30,000		18 19 20 22 24	80.8 80.2 79.5 78.2 76.9	95.5 95.3 95.2 94.8 94.3	162,600 148,500 136,600 117,600 103,100		19 20 22 24 26	81.2 80.6 79.4 78.2 77.1	105.5 105.3 105.0 104.6 104.1	148,400 136,500 117,500 103,000 91,500
6	20 22 24 26 28	74.2 72.2 70.1 68.1	64.4 63.8 63.1 62.3	137,500 118,600 104,100 92,700	_	65 70 16 17	28.7 18.5 81.1 80.4	40.3 28.9 85.7 85.5	27,100 24,500 200,000	_	26 28 30 32 34	75.6 74.3 73.0 71.6	93.8 93.3 92.7 92.1	91,700 82,400 74,700 68,300	1	28 30 32 34 36	75.9 74.7 73.5 72.3 71.1	103.6 103.1 102.5 101.9 101.3	82,300 74,600 68,200 62,700
Ŏ	30 32 34 36 38	66.0 63.9 61.8 59.6 57.3 55.0	61.5 60.5 59.5 58.4 57.2 55.8	75,800 69,400 63,900 59,200		18 19 20 22 24	79.6 78.9 78.2 76.7 75.2	85.4 85.2 85.0 84.5 84.0	162,900 148,800 137,000 118,000 103,500	9 N	36 38 40 45	70.3 68.9 67.5 66.2 62.6	91.4 90.6 89.8 89.0 86.6	58,100 54,000 50,400 43,000	Ö	38 40 45 50 55	69.9 68.7 65.6 62.4 59.1	100.6 99.8 97.7 95.3 92.5	58,000 53,900 50,200 42,900 37,200 32,800
	40 45 50 55 60	52.7 46.4 39.4 31.1 20.0	54.4 50.1 44.7 37.6 27.2	55,100 51,500 44,200 38,500 34,100 30,500	8	26 28 30	73.8 72.3 70.8 69.2 67.7	83.5 82.9 82.2 81.5 80.7	92,000 82,800 75,100 68,700 63,200	Ŭ	55 60 65 70 75	59.0 55.2 51.2 47.0 42.5 37.5	83.8 80.6 76.8 72.5 67.4 61.5	37,400 32,900 29,300 26,300 23,800 21,600	0	60 65 70 75 80	55.7 52.1 48.4 44.5 40.2	89.3 85.6 81.5 76.7 71.2	29.100 26.100 23.600 21.500 19.600
7	15 16 17 18 19	80.6 79.8 79.0 78.1 77.3 76.5 74.8	75.7 75.6 75.4 75.2 74.9 74.7 74.7	200.000 200.000 179.900 163.100 149.100 137.200 118.200	0	34 36 38 40 45 50 55 60 65	66.1 64.6 63.0 58.9 54.6 50.0 45.2 39.9	79.8 78.9 77.9 75.1 71.8 68.0 63.4 58.0	58,500 54,400 50,800 43,500 37,800 33,300 29,700 26,700	_	80 85 90	31.9 25.3 16.3	54.3 45.1 31.9	19.800 18.200 16,700	_	85 90 95 100	35.5 30.3 24.0 15.5	64.8 57.0 47.3 33.3	18,000 16,600 15,300 14,200

Capacities continued on reverse side.

Form No. 6292-A, 3-30-81/GA



LIFTCRANE CAPACITIES - 3900 - NO. 8 BOOM - O.T.







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SEE CONDITIONS ON REVERSE SIDE

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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 Leth.: Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity:	Boom Leth.: Feet	Oper. Rad.: Feet	Boom Ang : Deg.	Boom Point: Elev.	Capacity:
	22 24 26 28 30	80.4 79.3 78.3 77.2 76.1	115.1 114.8 114.4 113.9 113.4	117,200 102,700 91,200 82,000 74,300		28 30 32 34 36	80.6 79.9 79.1 78.3 77.5	154.7 154.3 153.9 153.5 153.1	80,800 73,100 66,600 61,100 56,400		32 34 36 38 40	80.9 80.3 79.6 79.0 78.3	184.4 184.1 183.7 183.3 182.9	65,700 60,200 55,500 51,300 47,700		36 38 40 45 50	81.1 80.6 80.0 78.6 77.2	214.1 213.8 213.5 212.5 211.5	54.600 50.400 46.800 39.400 33,700
1	32 34 36 38 40	75.1 74.0 72.9 71.8 70.7	112.4 111.8 111.1 110.5	67,900 62,400 57,700 53,500 49,900	1	38 40 45 50 55	76.8 76.0 74.0 72.0 70.0	152.7 152.2 150.8 149.3 147.6	52,300 48,600 41,300 35,600 31,100		45 50 55 60 65	76.7 75.1 73.4 71.7 70.1	181.8 180.6 179.2 177.6 175.9	40,300 34,600 30,100 26,500 23,500	2	55 60 65 70 75	75.8 74.4 73.0 71.6 70.1	210.3 208.9 207.5 205.9 204.2	29,200 25,500 22,500 19,900 17,800
l N	45 50 55 60 65	67.9 65.1 62.2 59.2 56.1	108.6 106.4 103.9 101.1 97.9	42,600 36,900 32,400 28,800 25,800	5	60 65 70 75 80	67.9 65.8 63.7 61.6 59.4	145.7 143.5 141.2 138.6 135.8	27,500 24,400 21,900 19,800 17,900	8	70 75 80 85 90	68.4 66.6 64.9 63.1 61.3	174.0 171.9 169.6 167.2 164.6	20,900 18,800 16,900 15,300 13,800	1	80 85 90 95 100	68.7 67.2 65.7 64.2 62.7	202.3 200.2 198.1 195.7 193.2	15,900 14,300 12,800 11,600 10,400
U	70 75 80 85 90	52.9 49.5 46.0 42.3 38.3	94.4 90.4 85.8 80.7 74.8	23,300 21,100 19,300 17,600 16,200	Ŏ	85 90 95 100 105	57.1 54.8 52.5 50.0 47.5	132.7 129.3 125.6 121.6 117.2	16,300 14,800 13,600 12,400 11,400	Ö	95 100 105 110 115	59.5 57.6 55.7 53.8 51.8	161.7 158.7 155.4 151.9 148.1	12,600 11,400 10,400 9,500 8,700	0	105 110 115 120 125	61.1 59.6 58.0 56.3 54.7	190.6 187.7 184.7 181.5 178.0	9,400 8,500 7,700 6,900 6,200
	95 100 105	33.8 28.8 22.8 81.2	67.9 59.7 49.4	15,000 13,800 12,800		110 115 120 125	44.8 42.1 39.1 36.0	112.4 107.1 101.3 94.8 87.5	10,500 9,700 8,900 8,200		120 125 130 135 140	49.7 47.6 45.4 43.1 40.7	144.0 139.6 134.8 129.7 124.1	7,900 7,200 6,600 6,000 5,400		130 135 140 145	53.0 51.3 49.5 47.7	174.4 170.5 166.3 161.9	5,60 5,00 4,40 3,90
	24 26 28 30	80.2 79.3 78.3 77.3	125.2 124.9 124.6 124.2 123.7	102,400 90,900 81,600 73,900		135 140 145	32.6 28.9 24.6 19.5	79.0 69.1 56.8	7,600 7,000 6,500 6,000		145 150 155 160	38.2 35.6 32.8 29.7	118.1 111.4 104.1 95.8	4,900 4,500 4,000 3,600		150 155	45.8 43.9	157.2 152.2	3,500 3,000
1	32 34 36 38 40	76.3 75.3 74.3 73.4 72.4	123.3 122.7 122.2 121.6 121.0	67,500 62,000 57,300 53,200 49,500		30 32 34 36 38	80.5 79.8 79.1 78.3 77.6	164.5 164.1 163.7 163.3 162.9	72,800 66,400 60,900 56,200 52,000		34 36 38 40	80.8 80.2 79.6 79.0	194.2 193.9 193.5 193.1	3,200 60,000 55,200 51,100 47,500	•				
2	45 50 55 60 65	69.8 67.3 64.7 62.0 59.2	119.3 117.3 115.1 112.6 109.8	42,200 36,500 32,000 28,400 25,400	4	40 45 50 55 60	76.9 75.0 73.2 71.3 69.4	162.5 161.2 159.8 158.2 156.4	48,400 41,000 35,300 30,900 27,200		50 55 60	77.4 75.9 74.3 72.7 71.2	192.1 190.9 189.6 188.1 186.5	34,400 29,900 26,200 23,200					
O.	70 75 80 85 90	56.4 53.5 50.5 47.3 44.0	106.6 103.1 99.2 94.8 90.0	22,900 20,700 18,900 17,200 15,800	6	65 70 75 80 85	67.4 65.5 63.5 61.5 59.4	154.4 152.2 149.9 147.3 144.4	24,200 21,700 19,500 17,600 16,000	1	75 80 85 90	69.6 67.9 66.3 64.6 63.0	184.7 182.7 180.6 178.3 175.9	18,500 16,600 15,000 13,600					
	95 100 105 110 115	40.4 36.6 32.4 27.6 21.9	78.2 70.9 62.2 51.3	14,500 13,400 12,400 11,500 10,700	Ŏ	90 95 100 105 110	57.3 55.2 53.0 50.7 48.3	141.3 138.0 134.4 130.4 126.2	14,600 13,300 12,200 11,200 10,300	9 N	90 95 100 105 110 115	59.5 57.8 56.0 54.1	173.2 170.4 167.4 164.1 160.6	12,300 11,200 10,200 9,200 8,400					
	24 26 28 30 32	81.0 80.1 79.2 78.3 77.4	135.0 134.7 134.4 134.0 133.5	102,200 90,700 81,400 73,700 67,300		115 120 125 130 135	45.9 43.3 40.7 37.8 34.8	121.5 116.5 110.9 104.8 98.0	9,400 8,700 8,000 7,300 6,700	U	125 130 135 140	52.2 50.3 48.3 46.3 44.1	156.8 152.8 148.5 143.9 139.0	7,600 6,900 6,300 5,700					
1	34 36 38 40 45	76.5 75.6 74.7 73.8 71.4	133.1 132.6 132.0 131.5 129.9	61,800 57,100 53,000 49,300 42,000		140 145 150 155	31.5 27.9 23.8 18.9	90.3 81.6 71.3 58.5	6,200 5,700 5,200 4,800		145 150 155 160 165	39.6 37.2 34.6 31.9	133.6 127.8 121.5 114.6 106.9	5,200 4,700 4,200 3,800 3,400 3,000					
3	50 55 60 65 70	69.1 66.7 64.3 61.8 59.3	128.1 126.1 123.8 121.3 118.4	36,300 31,800 28,200 25,200 22,700		30 32 34 36 38	80.4 79.7 79.0 78.3	174.3 173.9 173.5 173.1 172.7	66,100 60,600 55,800 51,700 48,100		36 38 40 45 50	80.7 80.1 79.5 78.1	204.0 203.7 203.3 202.3	54,900 50,800 47,100 39,700	•				
0	75 80 85 90 95	56.7 54.0 51.2 48.4 45.3	115.3 111.9 108.0 103.8 99.1	20,500 18,600 17,000 15,600 14,300	4	45 50 55 60	75.9 74.2 72.4 70.6 68.8	171.5 170.2 168.7 167.0	40,700 35,000 30,500 26,900	_	55 60 65 70 75	76.6 75.1 73.6 72.1 70.6	199.9 198.5 197.0 195.3	34,000 29,500 25,900 22,900 20,300					
	100 105 110 115 120 125	42.2 38.8 35.1 31.0 26.5 21.0	93.9 88.0 81.4 73.7 64.6 53.2	13,200 12,200 11,300 10,400 9,700 9,000	7	65 70 75 80 85	67.0 65.2 63.3 61.4	165.2 163.2 160.9 158.5 155.9	23,900 21,300 19,200 17,300 15,700	2 N	80 85 90 95 100	69.1 67.6 66.0 64.4 62.8 61.2	193.5 191.5 189.4 187.0 184.6	18,200 16,300 14,700 13,200 12,000					
	26 28 30 32	80.8 80.0 79.1 78.3	144.9 144.5 144.1 143.8	90,400 81,100 73,400 67,000	Ó	90 95 100 105 110	57.5 55.5 53.4 51.3	150.0 146.7 143.1 139.3	13,000 11,800 10,800 9,900	Ŏ	105 110 115 120 125	59.5 57.9 56.2 54.4 52.6	181.9 179.1 176.0 172.8 169.3	9,800 8,900 8,000 7,300 6,600					
1	36 38 40 45 50	77.5 76.6 75.8 74.9 72.8 70.7	143.3 142.9 142.4 141.8 140.4 138.8	56,800 52,600 49,000 41,600 36,000		115 120 125 130 135	46.8 44.4 42.0 39.4	130.6 125.7 120.4 114.5	9,100 8,300 7,600 7,000 6,400 5,800		130 135 140 145 150	50.8 48.9 47.0 45.0 43.0	165.6 161.7 157.5 152.9 148.1 142.9	6,000 5,400 4,800 4,300 3,800					
1 · 4	55 60 65 70 75	68.5 66.3 64.0 61.7 59.3	136.9 134.8 132.5 129.9 127.1	31.500 27.800 24,800 22,300 20,200		145 150 155 160 165	33.7 30.6 27.1 23.1 18.3	101.1 93.1 84.0 73.3 60.1	5,800 5,300 4,900 4,400 4,000 3,600	_	155 160	40.8 38.6	137.4 131.3	3,400 3,000	,				
0	80 85 90 95 100	56.9 54.5 51.9 49.3 46.5	124.0 120.6 116.8 112.7 108.2	18,300 16,700 15,200 14,000 12,800															
	105 110	43.6 40.6	103.2 97.7	11,800 10,900												Con	hined	From	Chart

Combined From Charts: No. 6292-A 3-30-81 No. 4779 2-18-80 No. 4899 2-18-80

Form No. 6292-A, 3-30-81/GA

SEE CONDITIONS ON REVERSE SIDE



