THE PROPERTY OF

LIFTCRANE CAPACITIES.

BOOM NO. 27 WITH OPEN THROAT TOP OFFSET 4-1/2 DEGREES 36 FT. RINGER ATTACHMENT ON SCREW JACKS AND WITH OR WITHOUT TRAVEL ATTACHMENT 122,400 LB. CRANE AND 135,000 LB. AUXILIARY COUNTERWEIGHT MEETS
ANSI B30.5
REQUIREMENTS

4100W, 4100W SERIES-1
RINGER® - SERIES-3

block with load freely suspended. Add 15" 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 36' RINGER attachment on screw jacks, 26'6" extendible crawlers, 48" treads, 17' retractable gantry, 130' mast, 8 part boom hoist reeving, four 1-3/8" boom pendants, 14" diameter x 16" width boom hoist drums, 122,400 lb. crane counterweight, 135,000 lb. auxiliary counterweight, and with or without RINGER travel attachment assembly No. 184541 or No. 184589.

LOAD LINE SPECIFICATIONS: For machine with full width tandem drums or full width front drum and split rear drum, refer to Load Line Specification Chart No. 6144 or 6144-B.

MAX LENGT	IMUM BOOM A	ND JIB ASSISTED	(A) DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED							
Bm, Lgth.	Jib No. 122A	Jib No. 123	Jib Lgth. Jib No. 122A Jib No.							
340′			30′		3,000 lb.					
340′	50*	60′	40′	6,300 lb.	3,600 lb. 4,200 lb.					
			50'	7,200 lb.						
			60'		4,900 lb.					
Load blo	ck, hook and w t start.	eight ball on	Jib No. 123 deducts include iib adaptor.							

DEDUCT FROM CAP WHEN UPPER BOOM PO HANGER BLOCK ARE	INT AND/OR
One Sheave Point Two Sheave Point Boom Point Block	1,200 lb. 1,500 lb. 1,200 lb.

For jib capacities, consult jib chart.

NOTE: This capacity chart applies when RINGER attachment is supported on screw jacks. Some capacities on boom lengths thru 160' at radii up to 45' are reduced and may be based on structural limitation of jacks and supporting beams.

Use the proper blocking under ring will permit increased capacities in these areas per chart No. 6281-B2.

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 for single part whip line or combination of two single part lines is 28,300 lbs. In all cases, upper boom capacities cannot exceed those listed for the main boom capacity.

Capacities are shown in pounds. Weight of upper boom point, 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.

OPERATING CONDITIONS: Machine to operate on a firm surface with screw jacks fully set, roller path level within a tolerance of 3/4" in 36' on boom lengths thru 300'; 3/8" in 36' on booms over 300' and properly supported. If auxiliary crawlers are removed the two front screw jacks must be attached per screw jack assembly. Refer to rigging Drawing No. 50999 and load line specification chart. Use of proper blocking under ring will permit increased capacities per chart No. 6281-B2.

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.

OPERATING RADIUS: Operating radius is the horizontal distance from the axis of rotation to the center of vertical hoist line or load

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Boom Lgth.; Feet	Oper. Rad.; Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.; Feet	Oper. Rad.; Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:
	36 38 40 45 50	83.5 82.7 81.9 79.8 77.7	146.7 146.4 146.1 145.2 144.0	485,300 484,900 484,500 449,000 401,700		40 45 50 55 60	82.9 81.1 79.3 77.4 75.6	166.3 165.5 164.5 163.4 162.1	450,100 447,000 400,500 345,700 303,600
1	55 60 65 70 75	75.6 73.4 71.3 69.1 66.9	142.7 141.2 139.5 137.6 135.5	346,900 304,800 271,500 244,400 222,000	1	65 70 75 80 85	73.7 71.8 69.9 68.0 66.0	160.6 159.0 157.1 155.1 152.9	270,200 243,200 220,800 201,900 185,800
4	80 85 90 95 100	64.6 62.3 59.9 57.5 55.0	133.1 130.4 127.5 124.4 120.9	203,100 187,100 173,200 161,100 150,400	6	90 95 100 105 110	64.0 62.0 59.9 57.8 55.7	150.4 147.8 144.9 141.7 138.3	172,000 159,800 149,200 139,800 131,300
U	105 110 115 120 125	52.4 49.8 47.0 44.1 41.0	117.0 112.8 108.2 103.0 97.3	141,000 132,600 125,000 118,200 112,000	0	115 120 125 130 135	53.4 51.1 48.8 46.3 43.7	134.6 130.6 126.2 121.5 116.3	123,800 116,900 110,700 105,100 99,900
	130 135 140	37.6 34.0 30.0	90.9 83.7 75.3	106,300 101,100 96,400		140 145 150 155 160	41.0 38.1 35.1 31.7 28.0	110.6 104.3 97.3 89.4 80.3	95,200 90,800 86,700 83,000 79,500

WARNING!	CHECK	AMO	TNUC	OF	AUX.	CTWT.	ON
MACHINE B	BEFORE	USE	OF TH	HIS	CHAR	Т.	

Boom Lgth.; Feet	Oper. Rad.; Feet	Boom Angle: Deg.	Boom Point; Elev.	Capacity:	Boom Lgth.; Feet	Oper. Rad.; Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:
	45 50 55 60 65	82.1 185.8 414.800 80.5 184.9 398.900 78.8 183.9 344.100 77.2 182.8 302.000 75.6 181.5 268.700				45 50 55 60 65	82.9 81.4 80.0 78.5 77.0	206.0 205.2 204.3 203.3 202.1	382,100 381,400 342,900 300,800 267,500
	70 75 80 85 90	73.9 72.2 70.6 68.8 67.1	180.0 178.4 176.6 174.7 172.6	241,600 219,200 200,300 184,300 170,400		70 75 80 85 90	75.6 74.1 72.6 71.1 69.5	200.8 199.4 197.8 196.1 194.2	240,400 218,000 199,100 183,100 169,200
1 8	95 100 105 110 115	65.4 63.6 61.8 60.0 58.1	170.3 167.8 165.1 162.2 159.1	158,300 147,600 138,200 129,800 122,200	2	95 100 105 110 115	68.0 66.4 64.8 63.2 61.6	192.2 190.0 187.6 185.1 182.4	157,100 146,400 137,000 128,600 121,000
Ŏ	120 125 130 135 140	56.2 54.2 52.2 50.1 48.0	155.7 152.1 148.2 144.1 139.6	115,400 109,200 103,500 98,300 93,600	0	120 125 130 135 140	60.0 58.3 56.6 54.8 53.0	179.5 176.4 173.1 169.6 165.8	114,200 108,000 102,300 97,100 92,400
	145 150 155 160 165	45.8 43.5 41.1 38.5 35.8	134.7 129.5 123.8 117.6 110.8	89,200 85,100 81,400 77,900 74,600	J	145 150 155 160 165	51.2 49.3 47.3 45.3 43.3	161.8 157.5 152.9 148.0 142.7	88,000 84,000 80,200 76,700 73,400
	170 175 180	32.9 29.8 26.3	103.2 94.7 84.9	71,600 68,700 66,000		170 175 180 185 190	41.1 38.8 36.4 33.9 31.2	137.0 130.9 124.2 116.9 108.7	70,400 67,500 64,900 62,300 60,000
	Ca	pacitie	s cont	inued		195 200	28.2 24.9	99.7 89.2	57,700 55,600

Capacities continued on reverse side.

Form No. 6733-B2, 9-10-82/GA

SEE CONDITIONS ON REVERSE SIDE

Boom Lgth.; Feet		Boom Angle: Deg.	Boom Point; Elev.	Capacity:	Boom Lgth.; Feet		Boom Angle: Deg.	Boom Point; Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.; Feet	Boom Angle: Deg.	Boom Point; Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.; Feet	Boom Angie; Deg.	Boom Point; Elev.	Capacity:
	50 55 60 65 70	82.2 80.9 79.6 78.2 76.9	225.5 224.7 223.7 222.7 221.5	352,600 341,400 299,300 266,000 238,900		60 65 70 75 80	81.2 80.1 79.0 77.8 76.7	264.4 263.5 262.5 261.4 260.2	296,500 263,200 236,100 213,700 194,900		65 70 75 80 85	81.4 80.4 79.5 78.5 77.5	304.1 303.2 302.3 301.3 300.2	229,000 225,000 210,900 192,000 175,900		75 80 85 90 95	80.7 79.9 79.0 78.1 77.3	343.0 342.1 341.1 340.0 338.9	164,000 162,500 159,500 150,600 142,700
	75 80 85 90 95	75.6 74.2 72.8 71.5 70.1	220.2 218.8 217.2 215.5 213.7	216,500 197,700 181,600 167,700 155,600	,	85 90 95 100 105	75.6 74.4 73.3 72.1 70.9	258.9 257.5 256.0 254.4 252.7	5 164,900 152,800 4 142,100 7 132,700 8 124,300 8 116,700 109,900 5 103,700		90 95 100 105 110	76.5 75.6 74.6 73.6 72.6	299.0 297.7 296.3 294.8 293.2	162,000 149,900 139,300 129,900 121,400	3	100 105 110 115 120	76.4 75.5 74.7 73.8 72.9	337.7 336.4 335.0 333.6 332.0	135,800 127,000 118,600 111,000 104,200
2	100 105 110 115 120	68.7 67.3 65.9 64.4 62.9	211.8 209.7 207.4 205.0 202.4	145,000 135,500 127,100 119,500 112,700		110 115 120 125 130	69.8 68.6 67.4 66.2 65.0	250.8 248.8 246.7 244.5 242.2			115 120 125 130 135	71.6 70.5 69.5 68.5 67.5	291.5 289.8 287.9 285.9 283.8	113,900 107,000 100,800 95,200 90,000	4	125 130 135 140 145	72.0 71.1 70.2 69.3 68.4	330.4 328.7 326.9 325.0 323.0	98,000 92,300 87,200 82,400 78,000
2	125 130 135 140 145	61.5 60.0 58.4 56.9 55.3	199.7 196.8 193.7 190.5 187.0	106,500 100,900 95,700 90,900 86,500	2	135 140 145 150 155	63.7 62.5 61.2 60.0 58.7	239.7 237.1 234.4 231.5 228.4	92,900 88,100 83,700 79,700 75,900	3	140 145 150 155 160	66.4 65.4 64.3 63.2 62.2	281.6 279.3 276.9 274.4 271.8	85,300 80,900 76,800 73,100 69,600	U	150 155 160 165 170	67.5 66.6 65.7 64.8 63.8	320.9 318.8 316.5 314.1 311.7	74,000 70,200 66,700 63,500 60,400
U	150 155 160 165 170	53.7 52.0 50.3 48.6 46.8	183,3 179,5 175,3 170,9 166,2	82,500 78,700 75,200 72,000 68,900	0	160 165 170 175 180	57.4 56.0 54.7 53.3 51.9	225.2 221.8 218.3 214.6 210.7	72,400 69,200 66,100 63,300 60,600	0	165 170 175 180 185	61.1 60.0 58.9 57.7 56.6	269.0 266.1 263.1 259.9 256.6	66,300 63,300 60,400 57,700 55,200	<u></u>	175 180 185 190	62.9 61.9 60.9 60.0	309.1 306.4 303.6 300.7	57,600 54,900 52,400 50,000
	175 180 185 190 195	45.0 43.1 41.1 39.1 36.9	161.3 156.0 150.3 144.2 137.6	66,100 63,400 60,900 58,500 56,300		185 190 195 200 205	50.5 49.0 47.5 46.0 44.4	206.6 202.2 197.7 192.9 187.8	58,100 55,700 53,400 51,300 49,300		190 195 200 205 210	55.4 54.2 53.1 51.8 50.6	253.2 249.6 245.8 241.9 237.8	52,800 50,600 48,500 46,500 44,600				-	•
	200 205 210 215 220	34.6 32.2 29.6 26.8 23.7	130.4 122.6 114.0 104.4 93.4	54,100 52,100 50,200 48,400 46,700		210 215 220 225 230	42.8 41.2 39.4 37.6 35.8	182.4 176.7 170.7 164.3 157.4	47,400 45,600 43,900 42,300 40,700		215 220 225 230 235	49.3 48.1 46.8 45,4 44.0	233.5 229.0 224.3 219.4 214.3	42,800 41,100 39,400 37,900 36,400					
	50 55 60 65 70	82.9 81.7 80.4 79.2 78.0	245.7 244.9 244.1 243.1 242.1	322,300 320,000 297,900 264,600 237,500		235 240 245 250 255 260	33.8 31.7 29.5 27.2 24.6 21.7	150.0 142.0 133.4 123.8 113.2 101.1	39,200 37,800 36,400 35,100 33,900 32,700		240 245 250 255 260	42.6 41.2 39.7 38.2 36.6	208.9 203.2 197.2 190.9 184.2	35,000 33,600 32,300 31,100 29,900	0				
	75 80 85 90 95	76.8 75.6 74.3 73.1 71.8	240.9 239.6 238.2 236.6 235.0	215,100 196,300 180,200 166,300 154,200		60 65 70 75 80	81.8 80.8 79.8 78.7 77.7	284.6	265,500 260,000 234,700 212,300 193,400 163,500 151,400 140,700 131,300	70 75 80 85 90	81.0 80.1 79.2 78.3 77.4	323.5 322.7 321.7 320.7 319.5	192 000 190 000 188 500 174,500 160,600						
	100 105 110 115 120	70.5 69.3 68.0 66.7 65.4	233.2 231.3 229.3 227.1 224.8	143,600 134,100 125,700 118,100 111,300		85 90 95 100 105	76.6 75.6 74.5 73.4 72.3	279.6 278.3 276.9 275.4 273.8		95 100 105 110 115	76.5 75.5 74.6 73.7 72.7	318.3 317.0 315.6 314.2 312.6	148,500 137,900 128,400 120,000 112,400						
2	125 130 135 140 145	64.0 62.7 61.3 60.0 58.6	222.4 219.8 217.0 214.1 211.1	105,100 99,400 94,300 89,500 85,100		110 115 120 125 130	71.3 70.2 69.1 68.0 66.9	272.1 270.3 268.4 266.3 264.2	122,900 115,300 108,500 102,300 96,600	3	120 125 130 135 140	71.8 70.9 69.9 68.9 68.0	311.0 309.2 307.4 305.5 303.4	105,600 99,400 93,800 88,600 83,800					
0	150 155 160 165 170	57.1 55.7 54.2 52.7 51.2	207.9 204.4 200.8 197.0 193.0	81,100 77,300 73,800 70,600 67,500	2	135 140 145 150 155	65.7 64.6 63.5 62.3 61.1	261.9 259.6 257.1 254.4 251.7	91,400 86,700 82,300 78,300 74,500	2	145 150 155 160 165	67.0 66.0 65.0 64.0 63.0	301.3 299.1 296.7 294.3 291.8	79,500 75,400 71,600 68,100 64,900	·				
	175 180 185 190 195	49.6 48.0 46.4 44.7 43.0	188.8 184.3 179.6 174.5 169.2	64,700 62,000 59,500 57,100 54,900	8	160 165 170 175 180	60.0 58.8 57.6 56.3 55.1	248.8 245.8 242.6 239.2 235.8	71,000 67,700 64,700 61,800 59,200	U	170 175 180 185 190	62.0 61.0 60.0 58.9 57.9	289.1 286.3 283.4 280.4 277.3	61,800 59,000 56,300 53,800 51,400					
	200 205 210 215 220	41.1 39.3 37.3 35.3 33.1	163.5 157.4 150.9 143.9 136.4	52,700 50,700 48,800 47,000 45,300		185 190 195 200 205	53.8 52.5 51.2 49.9 48.5	232.1 228.3 224.3 220.0 215.6	56,600 54,300 52,000 49,900 47,900		195 200 205 210 215	56.8 55.7 54.6 53.5 52.4	274.0 270.6 267.0 263.3 259.5	49,200 47,100 45,000 43,100 41,300					
	225 230 235 240	30.8 28.3 25.6 22.6	128.1 119.0 108.9 97.3	43,700 42,100 40,600 39,200		210 215 220 225 230	47.1 45.7 44.2 42.7 41.2	211.0 206.1 201.0 195.6 190.0	46,000 44,200 42,500 40,800 39,300		220 225 230 235 240	51.2 50.1 48.9 47.7 46.4	255.5 251.3 246.9 242.4 237.7	39,600 38,000 36,400 34,900 33,500					
						235 240 245 250 255 260	39.6 37.9 36.2 34.4 32.5 30.5	183.9 177.6 170.8 163.6 155.8 147.5	37,800 36,400 35,000 33,700 32,500 31,300								5733-B	From C 2	harts: 9-10-82 1-28-76