

Liftcrane Boom Capacities

888 RINGER

Boom No. 67B, 120 Ft. Mast No. 49A
45 Ft. RINGER Attachment on Screw Jack Pedestals
632 810 kg Auxiliary Counterweight
Barge Mount - 1/2 Degree Thru 2 Degree Machine List
360 Degree Rating

LIFTING CAPACITIES: Lifting capacities are for a machine when operating on barge. Machine shall be positively secured to prevent shifting. Lifting 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 denoted by an asterisk (*).

Upper boom point capacity for liftcrane service with single part whip line is 14 650 kg or 29 300 kg with two part whip line. When boom butt mounted auxiliary drum is used, capacity with single part line is 9 070 kg or 18 140 kg with two part whip line. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

Weight of all load blocks, hooks, slings, hoist lines, etc., beneath boom sheaves is considered part of 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 with roller path properly supported and machine list not to

exceed degrees noted. Refer to boom rigging **No. 177811** and Wire Rope Specification chart **No. 7925-A**. 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. Refer to operators manual for operating guidelines.

OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation at barge deck to center of vertical hoist line or load block. Boom angle is 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 is vertical distance from barge deck to centerline of boom point shaft.

MACHINE EQUIPMENT: Machine equipped with 13,7m RINGER attachment, 8 585 mm extendible crawlers, 1 219 mm treads, 3 124 mm retractable gantry, 9 144 mm live mast, 36,6m No. 49A mast, 16 part boom hoist reeving, boom support straps, and 632 810 kg auxiliary counterweight.

Maximum Boom Length Lifted Unassisted	
List	Boom Length
1/2 Degree	106,7m
1 Degree	91,4m
2 Degrees	76,2m
Load block, hook and weight ball on barge deck at start. Jib is not to be used on machine while operating on a barge.	

Deduct
Deduct 4 540 kg from capacities when jib backstay straps are stowed on boom.

Warning: Check amount of auxiliary counterweight on machine before using this chart.

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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity 1/2 Degree List Kilograms	Boom Capacity 1 Degree List Kilograms	Boom Capacity 2 Degree List Kilograms
38,1m (125 Ft.) Boom					
13,7	80,2	40,0	508 100 *	470 700 *	409 700 *
14,0	79,8	39,9	501 700 *	465 200 *	405 500 *
16,0	76,7	39,5	458 100 *	427 600 *	376 700 *
18,0	73,6	38,9	421 700 *	395 800 *	352 000 *
20,0	70,4	38,2	390 500 *	368 300 *	330 300 *
22,0	67,2	37,4	363 400 *	344 300 *	311 200 *
24,0	63,8	36,4	339 700 *	323 300 *	294 300 *
26,0	60,4	35,3	318 800 *	304 600 *	272 300 *
28,0	56,8	34,0	298 800 *	287 900 *	251 700 *
30,0	53,1	32,5	270 900 *	267 500 *	233 900 *
32,0	49,1	30,9	242 400 *	239 900 *	218 300 *
34,0	44,9	28,9	217 900 *	215 900 *	204 500 *
36,0	40,4	26,6	196 000 *	194 400 *	190 700 *
38,0	35,4	24,0	175 800 *	174 700 *	172 500 *
40,0	29,6	20,6	156 700 *	155 800 *	154 200 *
42,0	22,4	16,3	137 300 *	136 700 *	135 700 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity 1/2 Degree List Kilograms	Boom Capacity 1 Degree List Kilograms	Boom Capacity 2 Degree List Kilograms
45,7m (150 Ft.) Boom					
13,7	81,9	47,7	496 000 *	453 300 *	
14,0	81,5	47,7	489 700 *	448 000 *	
16,0	79,0	47,3	447 600 *	412 400 *	355 800 *
18,0	76,4	46,8	412 200 *	382 100 *	332 800 *
20,0	73,8	46,2	381 800 *	355 900 *	312 800 *
22,0	71,2	45,6	355 400 *	333 000 *	295 100 *
24,0	68,5	44,8	332 300 *	312 700 *	279 200 *
26,0	65,7	43,9	312 000 *	294 700 *	265 000 *
28,0	62,9	42,9	293 500 *	278 600 *	251 000 *
30,0	60,0	41,8	272 400 *	264 200 *	232 600 *
32,0	57,1	40,5	249 600 *	245 200 *	217 000 *
34,0	54,0	39,1	230 500 *	226 800 *	203 200 *
36,0	50,8	37,5	214 100 *	210 900 *	191 000 *
38,0	47,4	35,7	199 700 *	196 900 *	180 100 *
40,0	43,8	33,6	186 400 *	184 100 *	170 200 *
42,0	40,0	31,3	170 400 *	169 200 *	161 300 *
44,0	35,8	28,7	155 600 *	154 500 *	152 100 *
46,0	31,2	25,5	141 400 *	140 500 *	138 900 *
48,0	25,7	21,7	127 300 *	126 700 *	125 500 *
50,0	18,8	16,5	112 300 *	111 900 *	111 200 *

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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity 1/2 Degree List Kilograms	Boom Capacity 1 Degree List Kilograms	Boom Capacity 2 Degree List Kilograms
53,3m (175 Ft.) Boom					
15,2	81,4	55,2	443 400 *	398 200 *	
16,0	80,6	55,0	433 500 *	392 400 *	
18,0	78,4	54,6	403 600 *	370 100 *	315 300 *
20,0	76,2	54,2	373 400 *	344 100 *	296 600 *
22,0	73,9	53,6	347 600 *	322 100 *	280 100 *
24,0	71,7	52,9	325 100 *	302 700 *	265 200 *
26,0	69,4	52,2	305 100 *	285 300 *	251 900 *
28,0	67,1	51,4	287 400 *	269 800 *	239 800 *
30,0	64,7	50,4	269 200	255 800 *	228 900 *
32,0	62,3	49,4	247 600	242 400	215 600 *
34,0	59,8	48,2	228 600	224 200	201 900 *
36,0	57,3	47,0	212 200	208 400	189 600 *
38,0	54,6	45,6	197 800	194 500	178 700 *
40,0	51,9	44,0	185 000	182 200	168 900 *
42,0	49,1	42,3	173 700	171 200	160 000 *
44,0	46,1	40,5	163 600	161 300	151 800 *
46,0	43,0	38,4	154 400	152 500	144 500 *
48,0	39,7	36,0	146 100	144 400	137 700 *
50,0	36,2	33,4	136 500 *	135 400	131 400 *
52,0	32,3	30,4	125 600 *	124 800 *	123 300 *
54,0	27,9	26,8	115 100 *	114 500 *	113 200 *
56,0	22,7	22,4	104 300 *	103 800 *	102 900 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity 1/2 Degree List Kilograms	Boom Capacity 1 Degree List Kilograms	Boom Capacity 2 Degree List Kilograms
61,0m (200 Ft.) Boom					
15,2	82,5	62,9	388 000 *		
16,0	81,8	62,8	386 800 *		
18,0	79,9	62,4	381 800 *	338 100 *	
20,0	77,9	62,0	365 300 *	332 300 *	272 700 *
22,0	76,0	61,5	339 800 *	311 700 *	266 700 *
24,0	74,0	61,0	317 800 *	292 900 *	252 300 *
26,0	72,1	60,3	298 300 *	276 200 *	239 700 *
28,0	70,1	59,6	281 000 *	261 200 *	228 300 *
30,0	68,1	58,8	265 300	247 700 *	217 900 *
32,0	66,0	57,9	245 300	235 400 *	208 400 *
34,0	63,9	57,0	226 500	222 000	199 400 *
36,0	61,8	55,9	210 200	205 800	188 500 *
38,0	59,6	54,7	195 800	192 100	177 300 *
40,0	57,4	53,5	183 200	179 800	167 500 *
42,0	55,1	52,1	171 900	168 900	158 600 *
44,0	52,8	50,6	161 800	159 200	150 500 *
46,0	50,3	49,0	152 700	150 400	143 100 *
48,0	47,8	47,2	144 400	142 300	136 300 *
50,0	45,2	45,2	136 900	135 000	130 100 *
52,0	42,4	43,1	130 100	128 400	124 300 *
54,0	39,5	40,7	123 800	122 200	118 900
56,0	36,4	38,1	118 000	116 600	113 700
58,0	33,1	35,1	110 900 *	110 100 *	108 700 *
60,0	29,3	31,7	102 800 *	102 200 *	101 000 *
62,0	25,1	27,7	94 600 *	94 200 *	93 200 *
64,0	20,1	22,7	86 000 *	85 700 *	85 000 *

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68,6m (225 Ft.) Boom					
16,8	82,0	70,4	333 200 *		
18,0	81,0	70,2	330 200 *		
20,0	79,3	69,8	325 200 *	287 000 *	232 800 *
22,0	77,6	69,4	320 300 *	283 000 *	230 000 *
24,0	75,9	68,9	310 600 *	279 100 *	227 100 *
26,0	74,1	68,3	292 000 *	267 700 *	224 300 *
28,0	72,4	67,7	274 900 *	253 200 *	218 200 *
30,0	70,6	67,0	259 700 *	240 100 *	207 900 *
32,0	68,8	66,2	243 400	228 300 *	198 900 *
34,0	67,0	65,4	224 700	217 100	190 600 *
36,0	65,2	64,5	208 400	203 900	182 900 *
38,0	63,3	63,5	194 100	189 800	175 800 *
40,0	61,4	62,4	181 500	177 700	166 200 *
42,0	59,5	61,2	170 200	166 800	157 300 *
44,0	57,5	60,0	160 100	157 100	149 300 *
46,0	55,5	58,6	151 100	148 400	141 900 *
48,0	53,4	57,1	142 800	140 400	135 100 *
50,0	51,3	55,5	135 300	133 100	128 600
52,0	49,1	53,8	128 500	126 500	122 400
54,0	46,8	52,0	122 200	120 400	116 600
56,0	44,4	50,0	116 400	114 800	111 300
58,0	42,0	47,8	111 000	109 600	106 500
60,0	39,4	45,4	106 100	104 800	101 900
62,0	36,6	42,8	101 500	100 300	97 700
64,0	33,7	39,9	97 200	96 100	93 700
66,0	30,4	36,6	91 100 *	90 600 *	89 500 *
68,0	26,9	32,8	84 800 *	84 300 *	83 300 *
70,0	22,8	28,4	78 300 *	77 900 *	77 100 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity 1/2 Degree List Kilograms	Boom Capacity 1 Degree List Kilograms	Boom Capacity 2 Degree List Kilograms
76,2m (250 Ft.) Boom					
18,3	81,7	77,8	286 700 *	251 600 *	
20,0	80,4	77,6	283 400 *	248 900 *	200 500 *
22,0	78,8	77,2	279 500 *	245 700 *	198 200 *
24,0	77,3	76,7	275 600 *	242 600 *	195 800 *
26,0	75,8	76,2	271 700 *	239 400 *	193 600 *
28,0	74,2	75,7	266 700 *	236 300 *	191 300 *
30,0	72,6	75,0	254 300 *	231 600 *	189 000 *
32,0	71,0	74,4	239 100 *	221 100 *	186 700 *
34,0	69,4	73,6	222 900	210 600 *	182 000 *
36,0	67,8	72,8	206 400	200 200	174 400 *
38,0	66,2	71,9	192 200	187 500	167 600 *
40,0	64,5	71,0	179 600	175 400	161 300 *
42,0	62,8	70,0	168 400	164 600	155 200 *
44,0	61,1	68,9	158 400	155 000	147 900 *
46,0	59,4	67,7	149 300	146 300	140 200
48,0	57,6	66,4	141 100	138 300	132 800
50,0	55,8	65,1	133 600	131 100	126 100
52,0	53,9	63,7	126 800	124 500	119 900
54,0	52,0	62,1	120 500	118 500	114 200
56,0	50,1	60,5	114 700	112 800	109 000
58,0	48,1	58,7	109 400	107 700	104 100
60,0	46,0	56,8	104 400	102 900	99 600
62,0	43,8	54,7	99 800	98 400	95 400
64,0	41,6	52,5	95 500	94 200	91 500
66,0	39,2	50,1	91 500	90 300	87 700
68,0	36,8	47,5	87 800	86 700	84 300
70,0	34,1	44,6	84 200	83 200	81 100
72,0	31,3	41,4	80 100 *	79 600 *	77 900
74,0	28,2	37,8	75 000 *	74 600 *	73 700 *
76,0	24,8	33,7	69 900 *	69 500 *	68 700 *
78,0	20,8	28,8	64 500 *	64 200 *	63 600 *

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83,8m (275 Ft.) Boom				
18,3	82,4	85,5	252 800 *	
20,0	81,3	85,3	250 200 *	218 900 *
22,0	79,9	84,9	247 100 *	216 300 *
24,0	78,5	84,5	243 900 *	213 700 *
26,0	77,1	84,1	240 800 *	211 100 *
28,0	75,7	83,6	237 500 *	208 400 *
30,0	74,2	83,0	234 400 *	205 900 *
32,0	72,8	82,4	223 700 *	203 300 *
34,0	71,4	81,7	209 800 *	200 400 *
36,0	69,9	81,0	197 500 *	193 000 *
38,0	68,5	80,2	186 500 *	181 900 *
40,0	67,0	79,4	176 500 *	172 400 *
42,0	65,5	78,5	166 900 *	162 900 *
44,0	64,0	77,5	156 800 *	153 100 *
46,0	62,4	76,5	147 800 *	144 500 *
48,0	60,8	75,4	139 600 *	136 600 *
50,0	59,3	74,2	132 200 *	129 400 *
52,0	57,6	72,9	125 400 *	122 800 *
54,0	56,0	71,6	119 100 *	116 800 *
56,0	54,3	70,2	113 300 *	111 200 *
58,0	52,6	68,7	108 000 *	106 100 *
60,0	50,9	67,1	103 100 *	101 300 *
62,0	49,1	65,3	98 500 *	96 800 *
64,0	47,2	63,5	94 200 *	92 700 *
66,0	45,3	61,6	90 200 *	88 800 *
68,0	43,3	59,5	86 400 *	85 200 *
70,0	41,3	57,2	82 900 *	81 700 *
72,0	39,1	54,8	79 600 *	78 500 *
74,0	36,9	52,2	76 500 *	75 500 *
76,0	34,5	49,4	73 500 *	72 600 *
78,0	32,0	46,2	70 300 *	69 700 *
80,0	29,2	42,8	66 200 *	65 700 *
82,0	26,2	38,9	62 100 *	61 700 *
84,0	22,9	34,4	57 800 *	57 500 *
86,0	19,0	29,0	53 300 *	53 000 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity 1/2 Degree List Kilograms	Boom Capacity 1 Degree List Kilograms
91,4m (300 Ft.) Boom				
19,8	82,1	93,0	217 400 *	
20,0	82,0	93,0	217 400 *	
22,0	80,7	92,7	216 600 *	
24,0	79,5	92,3	214 100 *	
26,0	78,2	91,9	211 600 *	
28,0	76,9	91,4	209 000 *	
30,0	75,6	90,9	206 400 *	180 500 *
32,0	74,3	90,4	203 800 *	178 400 *
34,0	73,0	89,8	196 700 *	176 300 *
36,0	71,7	89,1	184 800 *	174 100 *
38,0	70,3	88,4	174 700 *	169 800 *
40,0	69,0	87,6	165 600 *	161 300 *
42,0	67,6	86,8	157 300 *	153 400 *
44,0	66,3	85,9	149 700 *	146 200 *
46,0	64,9	85,0	142 700 *	139 500 *
48,0	63,5	84,0	136 200 *	133 300 *
50,0	62,1	83,0	130 100 *	127 300 *
52,0	60,6	81,9	123 600 *	120 800 *
54,0	59,2	80,7	117 400 *	114 900 *
56,0	57,7	79,4	111 600 *	109 300 *
58,0	56,2	78,1	106 300 *	104 200 *
60,0	54,7	76,7	101 400 *	99 400 *
62,0	53,1	75,2	96 800 *	95 000 *
64,0	51,5	73,6	92 500 *	90 800 *
66,0	49,9	72,0	88 500 *	87 000 *
68,0	48,2	70,2	84 800 *	83 300 *
70,0	46,5	68,3	81 300 *	79 900 *
72,0	44,7	66,3	78 000 *	76 700 *
74,0	42,9	64,2	74 900 *	73 700 *
76,0	41,0	61,9	71 900 *	70 800 *
78,0	39,0	59,5	69 100 *	68 100 *
80,0	37,0	56,9	66 500 *	65 600 *
82,0	34,8	54,1	64 000 *	63 200 *
84,0	32,5	51,0	60 800 *	60 300 *
86,0	30,1	47,7	57 600 *	57 100 *
88,0	27,4	44,0	54 200 *	53 800 *
90,0	24,5	39,7	50 700 *	50 400 *
92,0	21,2	34,9	47 100 *	46 800 *
94,0	17,3	29,0	43 100 *	42 900 *

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99,1m (325 Ft.) Boom			
21,3	81,8	100,5	179 800 *
22,0	81,4	100,4	179 800 *
24,0	80,3	100,1	179 800 *
26,0	79,1	99,7	179 800 *
28,0	77,9	99,2	179 800 *
30,0	76,7	98,8	179 800 *
32,0	75,5	98,3	179 800 *
34,0	74,3	97,7	179 300 *
36,0	73,1	97,1	173 800 *
38,0	71,9	96,5	163 700 *
40,0	70,7	95,8	155 300 *
42,0	69,4	95,0	147 600 *
44,0	68,2	94,2	140 600 *
46,0	66,9	93,4	134 200 *
48,0	65,7	92,5	128 200 *
50,0	64,4	91,5	122 600 *
52,0	63,1	90,5	117 500 *
54,0	61,8	89,5	112 600 *
56,0	60,5	88,3	108 000 *
58,0	59,1	87,2	103 700 *
60,0	57,8	85,9	99 600 *
62,0	56,4	84,6	95 400 *
64,0	55,0	83,2	91 000 *
66,0	53,5	81,7	87 100 *
68,0	52,1	80,2	83 400 *
70,0	50,6	78,6	79 900 *
72,0	49,0	76,8	76 600 *
74,0	47,5	75,0	73 400 *
76,0	45,9	73,1	70 500 *
78,0	44,2	71,1	67 700 *
80,0	42,5	68,9	65 100 *
82,0	40,8	66,7	62 600 *
84,0	39,0	64,2	60 300 *
86,0	37,1	61,6	57 900 *
88,0	35,1	58,8	55 300 *
90,0	33,0	55,8	52 500 *
92,0	30,8	52,5	49 800 *
94,0	28,4	48,9	47 000 *
96,0	25,8	44,9	44 200 *
98,0	22,9	40,4	41 300 *
100,0	19,7	35,2	38 100 *
102,0	15,8	28,7	34 600 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity 1/2 Degree List Kilograms
106,7m (350 Ft.) Boom			
21,3	82,4	108,2	148 200 *
22,0	82,1	108,1	148 200 *
24,0	81,0	107,8	148 200 *
26,0	79,9	107,4	148 200 *
28,0	78,8	107,1	148 200 *
30,0	77,7	106,6	148 200 *
32,0	76,6	106,1	148 200 *
34,0	75,5	105,6	148 200 *
36,0	74,4	105,1	148 200 *
38,0	73,2	104,5	148 200 *
40,0	72,1	103,8	145 700 *
42,0	71,0	103,2	138 100 *
44,0	69,8	102,4	131 600 *
46,0	68,7	101,7	125 600 *
48,0	67,5	100,8	120 000 *
50,0	66,4	99,9	114 800 *
52,0	65,2	99,0	110 100 *
54,0	64,0	98,1	105 600 *
56,0	62,8	97,0	101 400 *
58,0	61,5	96,0	97 400 *
60,0	60,3	94,8	93 600 *
62,0	59,1	93,7	90 000 *
64,0	57,8	92,4	86 600 *
66,0	56,5	91,1	83 300 *
68,0	55,2	89,7	80 200 *
70,0	53,9	88,3	77 200 *
72,0	52,5	86,7	74 300 *
74,0	51,2	85,1	71 500 *
76,0	49,8	83,5	68 800 *
78,0	48,3	81,7	66 100 *
80,0	46,9	79,8	63 500 *
82,0	45,4	77,9	61 000 *
84,0	43,8	75,8	58 600 *
86,0	42,2	73,7	56 200 *
88,0	40,6	71,4	53 800 *
90,0	38,9	68,9	51 500 *
92,0	37,1	66,3	49 200 *
94,0	35,3	63,5	46 900 *
96,0	33,4	60,6	44 600 *
98,0	31,3	57,3	42 300 *
100,0	29,2	53,9	40 000 *
102,0	26,9	50,0	37 600 *
104,0	24,3	45,8	35 200 *
106,0	21,5	40,9	32 600 *
108,0	18,3	35,3	29 800 *