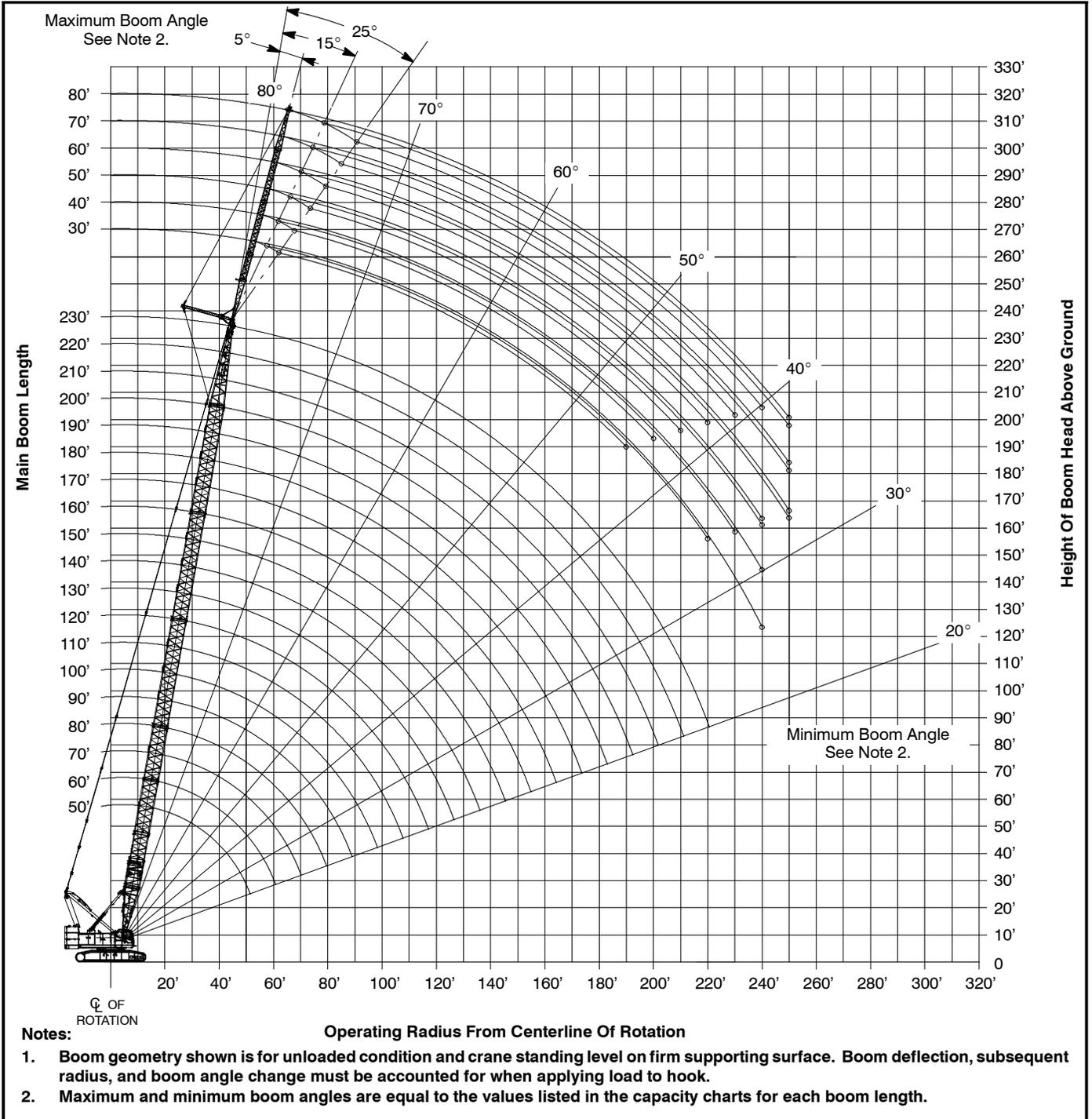


# Main Boom Working Range Diagram



# Main Boom Load Charts

Main Boom Lift Capacity Chart - 360° Rotation ABCD = 107,600 lb (48 807kg) Counterweight [All capacities are listed in kips (mt)]												
Load Radius ft (m)	Boom Length - ft (m)											Load Radius ft (m)
	50 (15.2)	60 (18.3)	70 (21.3)	80 (24.4)	90 (27.4)	100 (30.5)	110 (33.5)	120 (36.6)	130 (39.6)	140 (42.7)	150 (45.7)	
14 (4.3)	300.0 (136.1)											14 (4.3)
15 (4.6)	287.7 (130.5)	273.4 (124.0)										15 (4.6)
16 (4.9)	271.0 (122.9)	269.1 (122.1)										16 (4.9)
17 (5.2)	256.2 (116.2)	254.1 (115.3)	240.4 (109.0)									17 (5.2)
18 (5.5)	242.8 (110.1)	240.8 (109.2)	236.6 (107.3)									18 (5.5)
19 (5.8)	230.7 (104.6)	228.8 (103.8)	228.1 (103.5)	213.9 (97.0)								19 (5.8)
20 (6.1)	219.8 (99.7)	218.1 (98.9)	217.4 (98.6)	210.6 (95.5)								20 (6.1)
25 (7.6)	177.4 (80.5)	175.9 (79.8)	175.5 (79.6)	175.0 (79.4)	174.4 (79.1)	167.7 (76.1)	155.2 (70.4)					25 (7.6)
30 (9.1)	138.9 (63.0)	138.5 (62.8)	138.6 (62.9)	138.6 (62.9)	138.5 (62.8)	138.3 (62.7)	138.2 (62.7)	136.6 (62.0)	126.2 (57.2)	117.6 (53.3)		30 (9.1)
35 (10.7)	111.2 (50.4)	110.7 (50.2)	110.8 (50.3)	110.8 (50.3)	110.7 (50.2)	110.5 (50.1)	110.4 (50.1)	110.2 (50.0)	110.0 (49.9)	109.8 (49.8)	104.7 (47.5)	35 (10.7)
40 (12.2)	92.5 (42.0)	92.0 (41.7)	92.0 (41.7)	92.0 (41.7)	91.9 (41.7)	91.8 (41.6)	91.6 (41.5)	91.4 (41.5)	91.2 (41.4)	91.0 (41.3)	90.8 (41.2)	40 (12.2)
50 (15.2)	68.6 (31.1)	68.0 (30.8)	68.1 (30.9)	68.1 (30.9)	67.9 (30.8)	67.8 (30.8)	67.6 (30.7)	67.4 (30.6)	67.1 (30.4)	66.9 (30.3)	66.7 (30.3)	50 (15.2)
60 (18.3)		53.5 (24.3)	53.7 (24.4)	53.6 (24.3)	53.5 (24.3)	53.4 (24.2)	53.2 (24.1)	53.0 (24.0)	52.8 (23.9)	52.6 (23.9)	52.3 (23.7)	60 (18.3)
70 (21.3)			43.8 (19.9)	43.8 (19.9)	43.7 (19.8)	43.6 (19.8)	43.4 (19.7)	43.2 (19.6)	43.0 (19.5)	42.7 (19.4)	42.5 (19.3)	70 (21.3)
80 (24.4)					36.7 (16.6)	36.6 (16.6)	36.4 (16.5)	36.1 (16.4)	35.9 (16.3)	35.7 (16.2)	35.4 (16.1)	80 (24.4)
90 (27.4)						31.4 (14.2)	31.2 (14.2)	31.0 (14.1)	30.8 (14.0)	30.6 (13.9)	30.4 (13.8)	90 (27.4)
100 (30.5)							27.1 (12.3)	26.9 (12.2)	26.7 (12.1)	26.5 (12.0)	26.2 (11.9)	100 (30.5)
110 (33.5)								23.5 (10.7)	23.3 (10.6)	23.1 (10.5)	22.9 (10.4)	110 (33.5)
120 (36.6)									20.6 (9.3)	20.4 (9.3)	20.1 (9.1)	120 (36.6)
130 (39.6)										18.1 (8.2)	17.9 (8.1)	130 (39.6)
140 (42.7)											15.9 (7.2)	140 (42.7)

This material is supplied for reference use only. Operator must refer to in-cab Crane Rating Manual and Operator's Manual to determine allowable crane lifting capacities and assembly and operating procedures.

**Main Boom Lift Capacity Chart - 360° Rotation**  
**ABCD = 107,600 lb (48 807kg) Counterweight**  
 [All capacities are listed in kips (mt)]

Load Radius ft (m)	Boom Length ft (m)											Load Radius ft (m)
	160 (48.8)	170 (51.8)	180 (54.9)	190 (57.9)	200 (61.0)	210 (64.0)	220 (57.9)	230 (61.0)	240 (64.0)	250 (61.0)	260 (64.0)	
35 (10.7)	97.8 (44.4)	90.2 (40.9)										35 (10.7)
40 (12.2)	90.6 (41.1)	86.2 (39.1)	79.6 (36.1)	70.7 (32.1)	62.5 (28.3)							40 (12.2)
50 (15.2)	66.4 (30.1)	66.1 (30.0)	65.9 (29.9)	65.6 (29.8)	60.1 (27.3)	53.4 (24.2)	47.5 (21.5)	42.7 (19.4)	38.4 (17.4)	34.3 (15.6)	30.3 (13.7)	50 (15.2)
60 (18.3)	52.1 (23.6)	51.8 (23.5)	51.5 (23.4)	51.3 (23.3)	51.0 (23.1)	48.3 (21.9)	43.3 (19.6)	38.6 (17.5)	34.5 (15.6)	30.4 (13.8)	27.4 (12.4)	60 (18.3)
70 (21.3)	42.2 (19.1)	41.9 (19.0)	41.7 (18.9)	41.4 (18.8)	41.1 (18.6)	40.8 (18.5)	38.9 (17.6)	34.7 (15.7)	30.5 (13.8)	27.3 (12.4)	24.6 (11.2)	70 (21.3)
80 (24.4)	35.1 (15.9)	34.9 (15.8)	34.6 (15.7)	34.3 (15.6)	34.0 (15.4)	33.7 (15.3)	33.4 (15.1)	30.7 (13.9)	27.4 (12.4)	24.7 (11.2)	22.1 (10.0)	80 (24.4)
90 (27.4)	30.1 (13.7)	29.9 (13.6)	29.6 (13.4)	29.3 (13.3)	29.1 (13.2)	28.8 (13.1)	28.5 (12.9)	27.8 (12.6)	24.6 (11.2)	22.2 (10.1)	19.8 (9.0)	90 (27.4)
100 (30.5)	26.0 (11.8)	25.7 (11.7)	25.4 (11.5)	25.2 (11.4)	24.9 (11.3)	24.6 (11.2)	24.3 (11.0)	23.9 (10.8)	22.5 (10.2)	19.9 (9.0)	17.8 (8.1)	100 (30.5)
110 (33.5)	22.6 (10.3)	22.4 (10.2)	22.1 (10.0)	21.8 (9.9)	21.6 (9.8)	21.3 (9.7)	21.0 (9.5)	20.6 (9.3)	20.2 (9.2)	17.9 (8.1)	16.0 (7.3)	110 (33.5)
120 (36.6)	19.9 (9.0)	19.6 (8.9)	19.4 (8.8)	19.1 (8.7)	18.8 (8.5)	18.5 (8.4)	18.2 (8.3)	17.8 (8.1)	17.5 (7.9)	16.3 (7.4)	14.5 (6.6)	120 (36.6)
130 (39.6)	17.6 (8.0)	17.4 (7.9)	17.1 (7.8)	16.8 (7.6)	16.5 (7.5)	16.2 (7.3)	16.0 (7.3)	15.5 (7.0)	15.2 (6.9)	14.8 (6.7)	13.0 (5.9)	130 (39.6)
140 (42.7)	15.7 (7.1)	15.4 (7.0)	15.1 (6.8)	14.9 (6.8)	14.6 (6.6)	14.3 (6.5)	14.0 (6.4)	13.5 (6.1)	13.3 (6.0)	13.0 (5.9)	11.9 (5.4)	140 (42.7)
150 (45.7)	14.0 (6.4)	13.8 (6.3)	13.5 (6.1)	13.2 (6.0)	12.9 (5.9)	12.6 (5.7)	12.4 (5.6)	11.9 (5.4)	11.6 (5.3)	11.3 (5.1)	10.8 (4.9)	150 (45.7)
160 (48.8)		12.3 (5.6)	12.1 (5.5)	11.8 (5.4)	11.5 (5.2)	11.2 (5.1)	10.9 (4.9)	10.4 (4.7)	10.1 (4.6)	9.9 (4.5)	9.6 (4.4)	160 (48.8)
170 (51.8)			10.8 (4.9)	10.5 (4.8)	10.2 (4.6)	9.9 (4.5)	9.7 (4.4)	9.2 (4.2)	8.9 (4.0)	8.6 (3.9)	8.3 (3.8)	170 (51.8)
180 (54.9)				9.4 (4.3)	9.1 (4.1)	8.8 (4.0)	8.5 (3.9)	8.0 (3.6)	7.8 (3.5)	7.5 (3.4)	7.2 (3.3)	180 (54.9)
190 (57.9)					8.1 (3.7)	7.8 (3.5)	7.4 (3.4)	7.1 (3.2)	6.8 (3.1)	6.5 (2.9)	6.2 (2.8)	190 (57.9)
200 (61.0)						6.7 (3.0)	6.3 (2.9)	6.2 (2.8)	5.9 (2.7)	5.6 (2.5)	5.3 (2.4)	200 (61.0)
210 (64.0)							5.3 (2.4)	5.4 (2.4)	5.1 (2.3)	4.8 (2.2)	4.5 (2.0)	210 (64.0)
220 (67.1)								4.7 (2.1)	4.4 (2.0)	4.1 (1.9)	3.8 (1.7)	220 (67.1)
230 (70.1)										3.4 (1.5)	3.1 (1.4)	230 (70.1)

This material is supplied for reference use only. Operator must refer to in-cab Crane Rating Manual and Operator's Manual to determine allowable crane lifting capacities and assembly and operating procedures.

**Tubular Main Boom + 30 ft (9.14m) Offset Tube Jib -- 360° Rotation**  
**ABCD = 107,600 lb (48 807kg) Counterweight**  
**[All capacities are listed in kips (mt)]**

Load Radius ft (m)	5° Offset					Load Radius ft (m)	15° Offset					Load Radius ft (m)	25° Offset				
	Boom Length - ft (m)						Boom Length - ft (m)						Boom Length - ft (m)				
	50 (15.2)	90 (27.4)	140 (42.7)	190 (57.9)	230 (70.1)		50 (15.2)	90 (27.4)	140 (42.7)	190 (57.9)	230 (70.1)		50 (15.2)	90 (27.4)	140 (42.7)	190 (57.9)	230 (70.1)
25 (7.6)	58.4 (26.5)					25 (7.6)						25 (7.6)					
30 (9.1)	58.4 (26.5)	58.4 (26.5)				30 (9.1)	57.0 (25.9)					30 (9.1)					
35 (10.7)	58.3 (26.4)	58.4 (26.5)				35 (10.7)	55.6 (25.2)	56.3 (25.5)				35 (10.7)	42.7 (19.4)				
40 (12.2)	56.7 (25.7)	58.4 (26.5)	56.5 (25.6)			40 (12.2)	50.0 (22.7)	55.4 (25.1)				40 (12.2)	39.2 (17.8)	44.8 (20.3)			
50 (15.2)	48.1 (21.8)	56.5 (25.6)	55.0 (24.9)	38.9 (17.6)		50 (15.2)	41.3 (18.7)	52.8 (23.9)	52.2 (23.7)			50 (15.2)	33.8 (15.3)	39.8 (18.1)	44.4 (20.1)		
60 (18.3)	39.6 (18.0)	54.1 (24.5)	52.8 (23.9)	37.9 (17.2)	24.0 (10.9)	60 (18.3)	35.4 (16.1)	45.9 (20.8)	51.2 (23.2)	36.6 (16.6)		60 (18.3)	32.0 (14.5)	35.9 (16.3)	40.8 (18.5)	33.9 (15.4)	
70 (21.3)	33.8 (15.3)	44.3 (20.1)	42.9 (19.5)	36.9 (16.7)	23.3 (10.6)	70 (21.3)	32.1 (14.6)	40.7 (18.5)	43.3 (19.6)	35.5 (16.1)	23.3 (10.6)	70 (21.3)		32.9 (14.9)	37.8 (17.1)	32.9 (14.9)	19.3 (8.8)
80 (24.4)	32.1 (14.6)	37.3 (16.9)	35.8 (16.2)	34.4 (15.6)	22.6 (10.3)	80 (24.4)		36.7 (16.6)	36.1 (16.4)	34.5 (15.6)	22.6 (10.3)	80 (24.4)		32.0 (14.5)	35.3 (16.0)	30.0 (13.6)	18.6 (8.4)
90 (27.4)		31.9 (14.5)	30.8 (14.0)	29.4 (13.3)	21.9 (9.9)	90 (27.4)		31.9 (14.5)	31.0 (14.1)	29.7 (13.5)	21.8 (9.9)	90 (27.4)		31.1 (14.1)	31.3 (14.2)	29.3 (13.3)	18.0 (8.2)
100 (30.5)		28.0 (12.7)	26.6 (12.1)	25.2 (11.4)	21.2 (9.6)	100 (30.5)		27.9 (12.7)	26.7 (12.1)	25.5 (11.6)	21.1 (9.6)	100 (30.5)			27.0 (12.2)	25.8 (11.7)	17.5 (7.9)
110 (33.5)		24.6 (11.2)	23.3 (10.6)	21.8 (9.9)	20.6 (9.3)	110 (33.5)			23.3 (10.6)	22.1 (10.0)	20.5 (9.3)	110 (33.5)			23.5 (10.7)	22.3 (10.1)	17.0 (7.7)
120 (36.6)			20.5 (9.3)	19.1 (8.7)	17.8 (8.1)	120 (36.6)			20.6 (9.3)	19.3 (8.8)	19.9 (9.0)	120 (36.6)			20.7 (9.4)	19.5 (8.8)	16.5 (7.5)
130 (39.6)			18.2 (8.3)	16.8 (7.6)	15.5 (7.0)	130 (39.6)			18.2 (8.3)	16.9 (7.7)	18.2 (8.3)	130 (39.6)			18.4 (8.3)	17.1 (7.8)	16.1 (7.3)
140 (42.7)			16.3 (7.4)	14.8 (6.7)	13.5 (6.1)	140 (42.7)			16.3 (7.4)	14.9 (6.8)	15.8 (7.2)	140 (42.7)				15.1 (6.8)	14.5 (6.6)
150 (45.7)			14.6 (6.6)	13.2 (6.0)	11.9 (5.4)	150 (45.7)				13.2 (6.0)	13.8 (6.3)	150 (45.7)				13.4 (6.1)	12.7 (5.8)
160 (48.8)			13.2 (6.0)	11.5 (5.2)	10.2 (4.6)	160 (48.8)				11.5 (5.2)	12.1 (5.5)	160 (48.8)				11.7 (5.3)	11.2 (5.1)
170 (51.8)				10.0 (4.5)	8.8 (4.0)	170 (51.8)				10.0 (4.5)	10.5 (4.8)	170 (51.8)					9.6 (4.4)
180 (54.9)				8.7 (3.9)	7.5 (3.4)	180 (54.9)				8.7 (3.9)	9.0 (4.1)	180 (54.9)					8.3 (3.8)
190 (57.9)				7.6 (3.4)	6.3 (2.9)	190 (57.9)				7.5 (3.4)	7.7 (3.5)	190 (57.9)					7.1 (3.2)
200 (61.0)				6.5 (2.9)	5.3 (2.4)	200 (61.0)					6.5 (2.9)	200 (61.0)					6.0 (2.7)
210 (64.0)					4.4 (2.0)	210 (64.0)					5.5 (2.5)	210 (64.0)					
220 (67.1)					3.5 (1.6)	220 (67.1)					4.5 (2.0)	220 (67.1)					
230 (70.1)					2.7 (1.2)	230 (70.1)					3.6 (1.6)	230 (70.1)					
240 (73.2)					2.0 (0.9)	240 (73.2)						240 (73.2)					

This material is supplied for reference use only. Operator must refer to in-cab Crane Rating Manual and Operator's Manual to determine allowable crane lifting capacities and assembly and operating procedures.

<b>Tubular Main Boom + 60 ft (18.28m) Offset Tube Jib -- 360° Rotation</b> <b>ABCD = 107,600 lb (48 807kg) Counterweight</b> <b>[All capacities are listed in kips (mt)]</b>																	
Load Radius ft (m)	5° Offset					Load Radius ft (m)	15° Offset					Load Radius ft (m)	25° Offset				
	Boom Length - ft (m)						Boom Length - ft (m)						Boom Length - ft (m)				
	50 (15.2)	90 (27.4)	140 (42.7)	190 (57.9)	230 (70.1)		50 (15.2)	90 (27.4)	140 (42.7)	190 (57.9)	230 (70.1)		50 (15.2)	90 (27.4)	140 (42.7)	190 (57.9)	230 (70.1)
30 (9.1)	31.3 (14.2)					30 (9.1)						30 (9.1)					
35 (10.7)	30.4 (13.8)					35 (10.7)						35 (10.7)					
40 (12.2)	29.5 (13.4)	30.0 (13.6)				40 (12.2)	28.0 (12.7)					40 (12.2)					
50 (15.2)	27.9 (12.7)	28.8 (13.1)	28.2 (12.8)	25.4 (11.5)		50 (15.2)	26.6 (12.1)	27.1 (12.3)				50 (15.2)	23.3 (10.6)				
60 (18.3)	26.5 (12.0)	27.7 (12.6)	27.5 (12.5)	24.8 (11.2)		60 (18.3)	24.6 (11.2)	26.2 (11.9)	25.8 (11.7)			60 (18.3)	20.3 (9.2)	22.7 (10.3)			
70 (21.3)	23.9 (10.8)	26.7 (12.1)	26.7 (12.1)	24.3 (11.0)	18.4 (8.3)	70 (21.3)	21.4 (9.7)	25.3 (11.5)	25.2 (11.4)	22.9 (10.4)		70 (21.3)	18.0 (8.2)	20.5 (9.3)	22.6 (10.3)		
80 (24.4)	20.7 (9.4)	25.8 (11.7)	26.1 (11.8)	23.8 (10.8)	17.9 (8.1)	80 (24.4)	18.9 (8.6)	23.2 (10.5)	24.6 (11.2)	22.5 (10.2)	16.7 (7.6)	80 (24.4)	16.3 (7.4)	18.8 (8.5)	21.0 (9.5)	19.0 (8.6)	14.7 (6.7)
90 (27.4)	18.2 (8.3)	24.4 (11.1)	25.5 (11.6)	23.4 (10.6)	17.5 (7.9)	90 (27.4)	17.0 (7.7)	21.0 (9.5)	24.1 (10.9)	22.2 (10.1)	16.3 (7.4)	90 (27.4)	14.9 (6.8)	17.4 (7.9)	19.6 (8.9)	18.7 (8.5)	14.3 (6.5)
100 (30.5)	16.3 (7.4)	21.8 (9.9)	24.9 (11.3)	22.4 (10.2)	17.0 (7.7)	100 (30.5)	15.5 (7.0)	19.3 (8.8)	23.2 (10.5)	21.8 (9.9)	15.8 (7.2)	100 (30.5)		16.2 (7.3)	18.4 (8.3)	18.5 (8.4)	13.9 (6.3)
110 (33.5)		19.7 (8.9)	23.9 (10.8)	19.7 (8.9)	16.5 (7.5)	110 (33.5)		17.8 (8.1)	21.5 (9.8)	21.5 (9.8)	15.4 (7.0)	110 (33.5)		15.2 (6.9)	17.4 (7.9)	18.2 (8.3)	13.6 (6.2)
120 (36.6)		18.1 (8.2)	21.1 (9.6)	17.4 (7.9)	16.1 (7.3)	120 (36.6)		16.6 (7.5)	20.1 (9.1)	20.2 (9.2)	15.0 (6.8)	120 (36.6)		14.4 (6.5)	16.5 (7.5)	18.0 (8.2)	13.2 (6.0)
130 (39.6)		16.7 (7.6)	18.8 (8.5)	15.4 (7.0)	15.6 (7.1)	130 (39.6)		15.5 (7.0)	18.9 (8.6)	17.8 (8.1)	14.6 (6.6)	130 (39.6)			15.7 (7.1)	17.4 (7.9)	12.9 (5.9)
140 (42.7)		15.5 (7.0)	16.9 (7.7)	13.7 (6.2)	14.2 (6.4)	140 (42.7)			17.1 (7.8)	15.8 (7.2)	14.2 (6.4)	140 (42.7)			15.1 (6.8)	16.2 (7.3)	12.6 (5.7)
150 (45.7)			15.2 (6.9)	12.3 (5.6)	12.5 (5.7)	150 (45.7)			15.3 (6.9)	14.0 (6.4)	13.0 (5.9)	150 (45.7)			14.5 (6.6)	14.4 (6.5)	12.4 (5.6)
160 (48.8)			13.8 (6.3)	10.8 (4.9)	10.9 (4.9)	160 (48.8)			13.8 (6.3)	12.5 (5.7)	11.4 (5.2)	160 (48.8)			14.0 (6.4)	12.8 (5.8)	11.8 (5.4)
170 (51.8)			12.5 (5.7)	9.5 (4.3)	9.4 (4.3)	170 (51.8)			12.5 (5.7)	11.1 (5.0)	9.9 (4.5)	170 (51.8)				11.5 (5.2)	10.4 (4.7)
180 (54.9)			11.4 (5.2)	8.4 (3.8)	8.1 (3.7)	180 (54.9)				9.7 (4.4)	8.6 (3.9)	180 (54.9)				10.1 (4.6)	9 (4.1)
190 (57.9)				7.3 (3.3)	7.0 (3.2)	190 (57.9)				8.5 (3.9)	7.4 (3.4)	190 (57.9)				8.8 (4.0)	7.8 (3.5)
200 (61.0)				6.4 (2.9)	6.0 (2.7)	200 (61.0)				7.5 (3.4)	6.3 (2.9)	200 (61.0)					6.7 (3.0)
210 (64.0)				5.5 (2.5)	5.0 (2.3)	210 (64.0)				6.5 (2.9)	5.4 (2.4)	210 (64.0)					5.7 (2.6)
220 (67.1)				4.7 (2.1)	4.2 (1.9)	220 (67.1)					4.5 (2.0)	220 (67.1)					4.7 (2.1)
230 (70.1)					3.4 (1.5)	230 (70.1)					3.7 (1.7)	230 (70.1)					
240 (73.2)					2.7 (1.2)	240 (73.2)					3.0 (1.4)	240 (73.2)					
250 (76.2)					2.1 (1.0)	250 (76.2)					2.3 (1.0)	250 (76.2)					

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**Tubular Main Boom + 80 ft (24.38m) Offset Tube Jib -- 360° Rotation**  
**ABCD = 107,600 lb (48 807kg) Counterweight**  
**[All capacities are listed in kips (mt)]**

Load Radius ft (m)	5° Offset					Load Radius ft (m)	15° Offset					Load Radius ft (m)	25° Offset				
	Boom Length - ft (m)						Boom Length - ft (m)						Boom Length - ft (m)				
	50 (15.2)	90 (27.4)	140 (42.7)	190 (57.9)	230 (70.1)		50 (15.2)	90 (27.4)	140 (42.7)	190 (57.9)	230 (70.1)		50 (15.2)	90 (27.4)	140 (42.7)	190 (57.9)	230 (70.1)
35 (10.7)	22.3 (10.1)					35 (10.7)						35 (10.7)					
40 (12.2)	21.6 (9.8)					40 (12.2)						40 (12.2)					
50 (15.2)	20.5 (9.3)	20.9 (9.5)	20.6 (9.3)			50 (15.2)	19.5 (8.8)					50 (15.2)	23.3 (10.6)				
60 (18.3)	19.5 (8.8)	20.1 (9.1)	20.0 (9.1)	18.6 (8.4)		60 (18.3)	18.6 (8.4)	19.0 (8.6)				60 (18.3)	20.3 (9.2)				
70 (21.3)	18.5 (8.4)	19.4 (8.8)	19.4 (8.8)	18.4 (8.3)	15.0 (6.8)	70 (21.3)	17.8 (8.1)	18.3 (8.3)	18.2 (8.3)			70 (21.3)	18.0 (8.2)	16.4 (7.4)			
80 (24.4)	17.5 (7.9)	18.7 (8.5)	18.9 (8.6)	18.0 (8.2)	14.6 (6.6)	80 (24.4)	15.8 (14.1)	17.7 (8.0)	17.8 (8.1)	16.3 (7.4)	13.2 (6.0)	80 (24.4)	16.3 (7.4)	14.9 (6.8)	15.8 (7.2)		
90 (27.4)	15.4 (7.0)	18.1 (8.2)	18.4 (8.3)	17.7 (8.0)	14.3 (6.5)	90 (27.4)	17.0 (12.8)	16.9 (7.7)	17.3 (7.8)	16.2 (7.3)	12.9 (5.9)	90 (27.4)	14.9 (6.8)	13.8 (6.3)	15.1 (6.8)	13.1 (5.9)	
100 (30.5)	13.7 (6.2)	17.5 (7.9)	18.0 (8.2)	17.3 (7.8)	14.0 (6.4)	100 (30.5)	15.5 (11.7)	15.4 (7.0)	16.9 (7.7)	16.0 (7.3)	12.6 (5.7)	100 (30.5)		12.8 (5.8)	14.2 (6.4)	13.0 (5.9)	10.6 (4.8)
110 (33.5)	12.4 (5.6)	16.0 (7.3)	17.5 (7.9)	17.0 (7.7)	13.6 (6.2)	110 (33.5)	10.9 (11.7)	14.2 (6.4)	16.6 (7.5)	15.8 (7.2)	12.3 (5.6)	110 (33.5)		11.9 (5.4)	13.4 (6.1)	12.9 (5.9)	10.4 (4.7)
120 (36.6)	11.3 (5.1)	14.6 (6.6)	17.1 (7.8)	16.6 (7.5)	13.3 (6.0)	120 (36.6)		13.1 (5.9)	15.6 (7.1)	15.6 (7.1)	12.1 (5.5)	120 (36.6)		11.2 (5.1)	12.6 (5.7)	12.8 (5.8)	10.2 (4.6)
130 (39.6)		13.4 (6.1)	16.7 (7.6)	16.3 (7.4)	13.0 (5.9)	130 (39.6)		12.3 (5.6)	14.6 (6.6)	15.5 (7.0)	11.8 (5.4)	130 (39.6)		10.6 (4.8)	12.0 (5.4)	12.7 (5.8)	10.0 (4.5)
140 (42.7)		12.4 (5.6)	15.8 (7.2)	15.7 (7.1)	12.7 (5.8)	140 (42.7)		11.5 (5.2)	13.7 (6.2)	15.3 (6.9)	11.6 (5.3)	140 (42.7)		10.1 (4.6)	11.4 (5.2)	12.5 (5.7)	9.8 (4.4)
150 (45.7)		11.6 (5.3)	14.7 (6.7)	14.0 (6.4)	12.4 (5.6)	150 (45.7)		10.9 (4.9)	13.0 (5.9)	14.4 (6.5)	11.3 (5.1)	150 (45.7)			11.0 (5.0)	12.0 (5.4)	9.7 (4.4)
160 (48.8)		10.9 (4.9)	13.7 (6.2)	12.5 (5.7)	11.2 (5.1)	160 (48.8)			12.3 (5.6)	12.9 (5.9)	11.1 (5.0)	160 (48.8)			10.5 (4.8)	11.5 (5.2)	9.5 (4.3)
170 (51.8)			12.7 (5.8)	11.2 (5.1)	9.8 (4.4)	170 (51.8)			11.7 (5.3)	11.6 (5.3)	10.5 (4.8)	170 (51.8)			10.2 (4.6)	11.1 (5.0)	9.3 (4.2)
180 (54.9)			11.6 (5.3)	9.9 (4.5)	8.5 (3.9)	180 (54.9)			11.2 (5.1)	10.3 (4.7)	9.1 (4.1)	180 (54.9)			9.8 (4.4)	10.7 (4.9)	9.2 (4.2)
190 (57.9)			10.6 (4.8)	8.7 (3.9)	7.3 (3.3)	190 (57.9)			10.7 (4.9)	9.1 (4.1)	7.9 (3.6)	190 (57.9)				9.5 (4.3)	8.4 (3.8)
200 (61.0)			9.7 (4.4)	7.7 (3.5)	6.3 (2.9)	200 (61.0)				8.0 (3.6)	6.8 (3.1)	200 (61.0)				8.3 (3.8)	7.3 (3.3)
210 (64.0)				6.7 (3.0)	5.3 (2.4)	210 (64.0)				7.0 (3.2)	5.8 (2.6)	210 (64.0)				7.3 (3.3)	6.3 (2.9)
220 (67.1)				5.9 (2.7)	4.5 (2.0)	220 (67.1)				6.1 (2.8)	4.9 (2.2)	220 (67.1)					5.3 (2.4)
230 (70.1)				5.1 (2.3)	3.7 (1.7)	230 (70.1)				5.3 (2.4)	4.1 (1.9)	230 (70.1)					4.5 (2.0)
240 (73.2)				4.4 (2.0)	3.0 (1.4)	240 (73.2)					3.4 (1.5)	240 (73.2)					3.7 (1.7)
250 (76.2)				3.7 (1.7)	2.4 (1.1)	250 (76.2)					2.7 (1.2)	250 (76.2)					

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