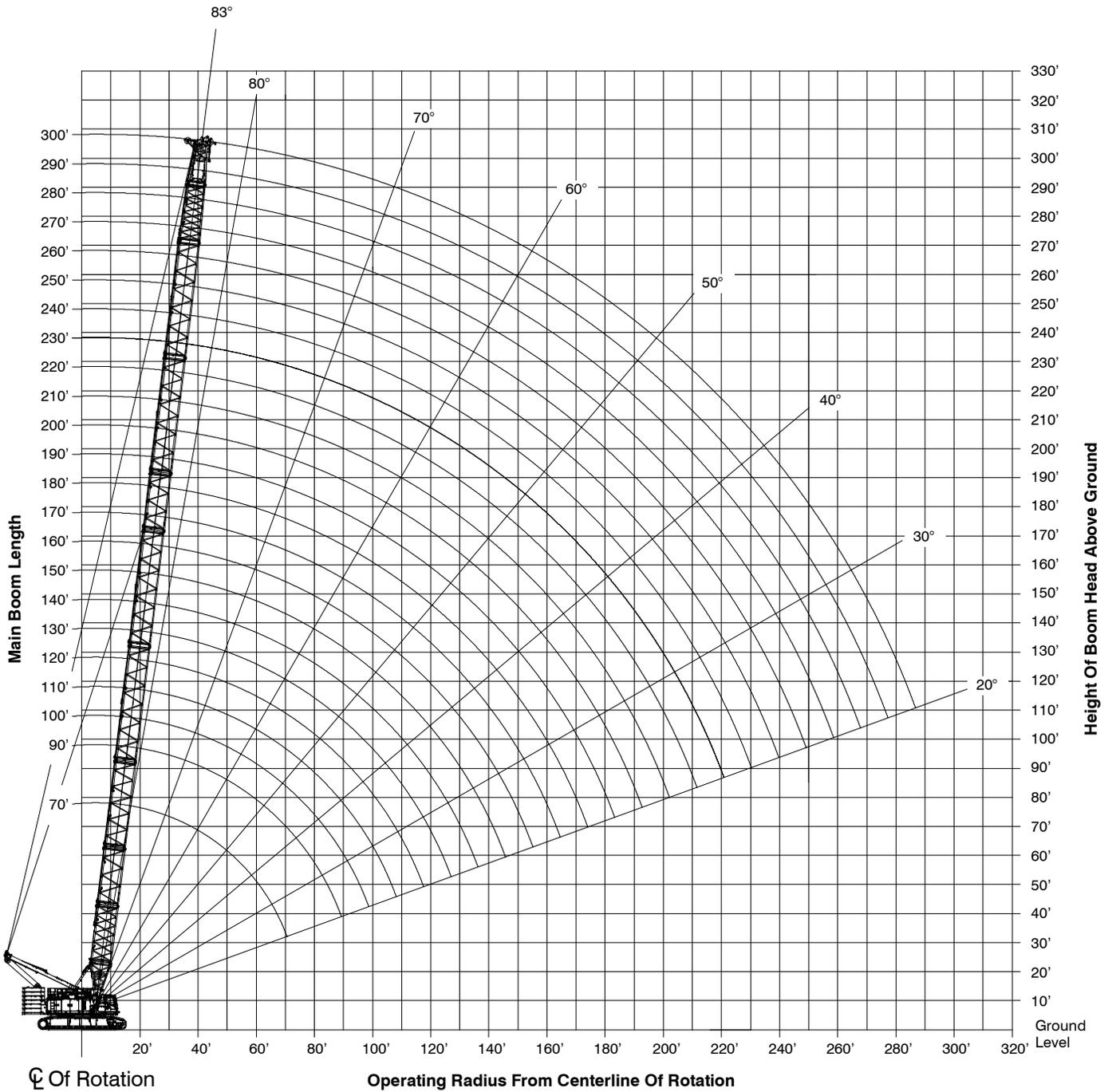


# Working Range Diagram - Heavy Duty Boom - Extended Gauge



**Notes:**

1. Boom geometry shown is for unloaded condition and crane standing level on firm supporting surface. Boom deflection, subsequent radius, and boom angle change must be accounted for when applying load to hook.

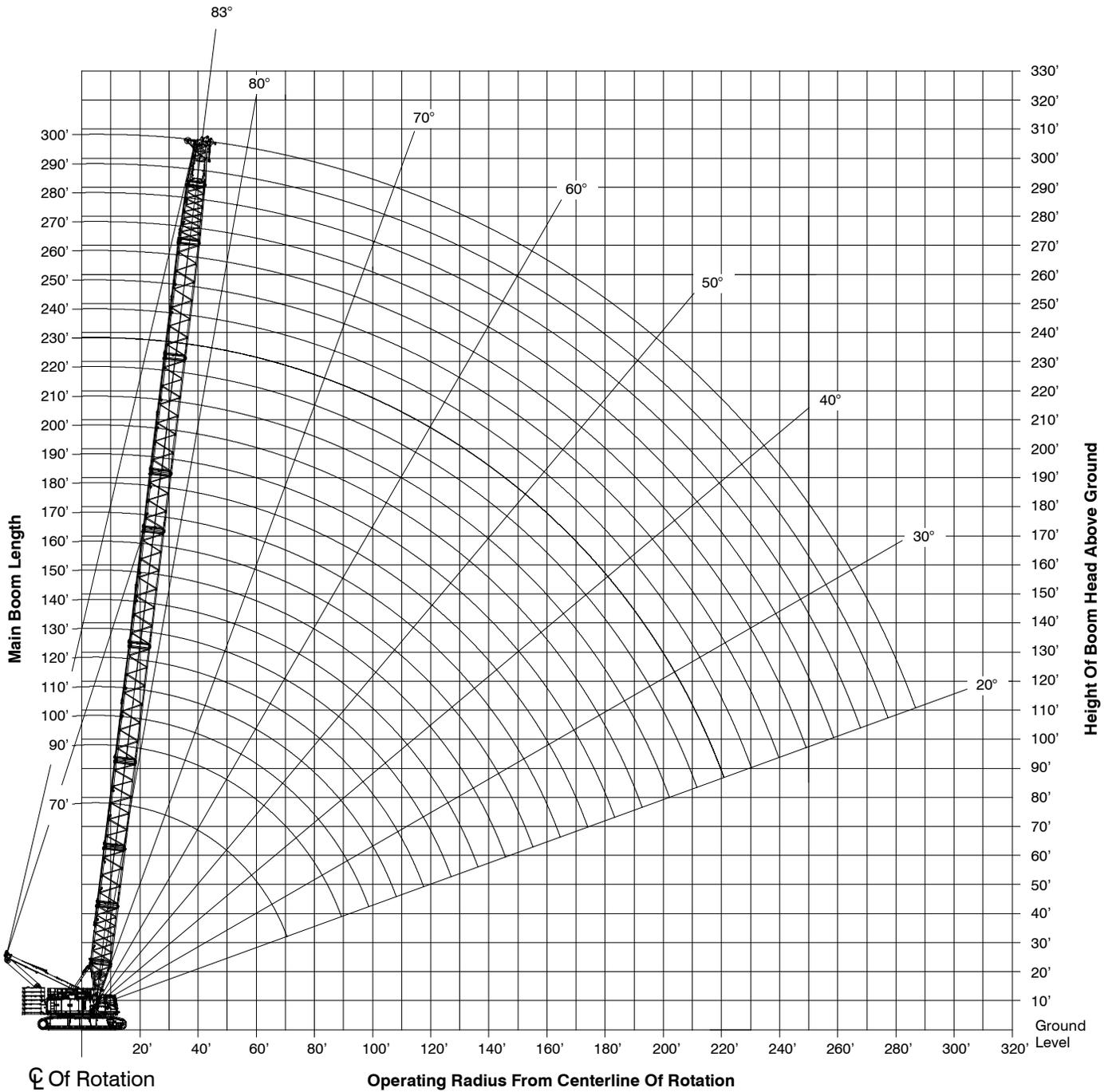
# Heavy Duty Boom Load Chart - Extended Gauge

**Heavy Duty Boom With Combo Top - Extended Gauge (22') - 360° Rotation**  
**ABC + A [227,560 + 75,400 lb (103 219 + 34 207kg)] Counterweight**  
 [All capacities are listed in kips (m)]

Load Radius ft (m)	Boom Length ft (m)													Load Radius ft (m)
	70 (21.3)	90 (27.4)	110 (33.5)	130 (39.6)	150 (45.7)	170 (51.8)	190 (57.9)	210 (64.0)	230 (70.1)	250 (76.2)	270 (82.3)	290 (88.4)	300 (91.4)	
16.0 (4.88)	600.0 (272.16)													16.0 (4.88)
17.0 (5.18)	569.1 (258.14)													17.0 (5.18)
18.0 (5.49)	539.8 (244.85)	522.9 (237.18)												18.0 (5.49)
19.0 (5.79)	513.4 (232.87)	509.0 (230.88)												19.0 (5.79)
20.0 (6.10)	489.5 (222.03)	485.4 (220.17)	461.7 (209.42)											20.0 (6.10)
30.0 (9.14)	331.1 (150.18)	328.9 (149.19)	326.3 (148.01)	323.3 (146.65)	320.2 (145.24)	315.3 (143.02)	279.2 (126.64)							30.0 (9.14)
40.0 (12.19)	240.0 (108.86)	239.7 (108.73)	239.1 (108.45)	238.3 (108.09)	237.4 (107.68)	236.5 (107.27)	234.3 (106.28)	231.0 (104.78)	189.3 (85.87)	154.6 (70.13)	128.5 (58.29)			40.0 (12.19)
50.0 (15.24)	174.5 (79.15)	174.2 (79.02)	173.5 (78.70)	172.7 (78.34)	171.7 (77.88)	170.7 (77.43)	169.7 (76.97)	168.6 (76.48)	167.5 (75.98)	152.6 (69.22)	126.9 (57.56)	106.5 (48.31)	96.7 (43.86)	50.0 (15.24)
60.0 (18.29)	135.7 (61.55)	135.5 (61.46)	134.8 (61.14)	133.9 (60.74)	133.3 (60.46)	132.3 (60.01)	131.2 (59.51)	130.2 (59.06)	129.1 (58.56)	128.1 (58.11)	120.4 (54.61)	101.0 (45.81)	91.8 (41.64)	60.0 (18.29)
70.0 (21.34)	109.9 (49.85)	110.0 (49.90)	109.3 (49.58)	108.4 (49.17)	107.4 (48.72)	106.3 (48.22)	105.2 (47.72)	104.1 (47.22)	102.9 (46.67)	101.8 (46.18)	100.6 (45.63)	91.4 (41.46)	84.1 (38.15)	70.0 (21.34)
80.0 (24.38)		91.8 (41.64)	91.3 (41.41)	90.4 (41.00)	89.4 (40.55)	88.4 (40.10)	87.3 (39.60)	86.1 (39.05)	85.0 (38.56)	83.8 (38.01)	82.6 (37.47)	81.5 (36.97)	76.6 (34.75)	80.0 (24.38)
90.0 (27.43)		78.0 (35.38)	77.6 (35.20)	76.8 (34.84)	75.7 (34.34)	74.6 (33.84)	73.5 (33.34)	72.3 (32.79)	71.1 (32.25)	69.8 (31.66)	68.7 (31.16)	67.5 (30.62)	66.9 (30.35)	90.0 (27.43)
100.0 (30.48)			67.1 (30.44)	66.4 (30.12)	65.5 (29.71)	64.4 (29.21)	63.3 (28.71)	62.2 (28.21)	61.0 (27.67)	59.7 (27.08)	58.5 (26.54)	57.4 (26.04)	56.8 (25.76)	100.0 (30.48)
110.0 (33.53)			59.2 (26.85)	57.9 (26.26)	57.0 (25.85)	55.9 (25.36)	54.8 (24.86)	53.6 (24.31)	52.4 (23.77)	51.1 (23.18)	49.9 (22.63)	48.7 (22.09)	48.1 (21.82)	110.0 (33.53)
120.0 (36.58)				50.9 (23.09)	50.0 (22.68)	49.0 (22.23)	47.8 (21.68)	46.7 (21.18)	45.5 (20.64)	44.1 (20.00)	42.9 (19.46)	41.7 (18.91)	41.0 (18.60)	120.0 (36.58)
130.0 (39.62)				46.2 (20.96)	44.2 (20.05)	43.2 (19.60)	42.1 (19.10)	40.9 (18.55)	39.7 (18.01)	38.2 (17.33)	37.0 (16.78)	35.8 (16.24)	35.2 (15.97)	130.0 (39.62)
140.0 (42.67)					39.3 (17.83)	38.3 (17.37)	37.2 (16.87)	36.0 (16.33)	34.8 (15.79)	33.3 (15.10)	32.7 (14.83)	31.5 (14.29)	30.9 (14.02)	140.0 (42.67)
150.0 (45.72)						34.1 (15.47)	33.3 (15.10)	32.2 (14.61)	31.1 (14.11)	29.6 (13.43)	28.5 (12.93)	27.3 (12.38)	26.7 (12.11)	150.0 (45.72)
160.0 (48.77)							30.7 (13.93)	29.7 (13.47)	28.6 (12.97)	27.4 (12.43)	26.0 (11.79)	24.8 (11.25)	23.6 (10.70)	160.0 (48.77)
170.0 (51.82)								26.5 (12.02)	25.4 (11.52)	24.2 (10.98)	22.8 (10.34)	21.6 (9.80)	20.4 (9.25)	170.0 (51.82)
180.0 (54.86)								23.6 (10.70)	22.5 (10.21)	21.4 (9.71)	19.9 (9.03)	18.7 (8.48)	17.5 (7.94)	180.0 (54.86)
190.0 (57.91)									20.0 (9.07)	18.9 (8.57)	17.4 (7.89)	16.2 (7.35)	15.0 (6.80)	190.0 (57.91)
200.0 (60.96)									17.7 (8.03)	16.6 (7.53)	15.1 (6.85)	14.0 (6.35)	12.7 (5.76)	200.0 (60.96)
210.0 (64.01)										14.6 (6.62)	13.1 (5.94)	11.9 (5.40)	10.7 (4.85)	210.0 (64.01)
220.0 (67.06)											12.7 (5.76)	11.3 (5.13)	10.1 (4.58)	220.0 (67.06)
230.0 (70.10)												9.6 (4.35)	8.4 (3.81)	230.0 (70.10)
240.0 (73.15)													8.0 (3.63)	240.0 (73.15)
250.0 (76.20)														250.0 (76.20)
260.0 (79.25)														260.0 (79.25)

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.

# Working Range Diagram - Heavy Duty Boom - Retracted Gauge



**Notes:**

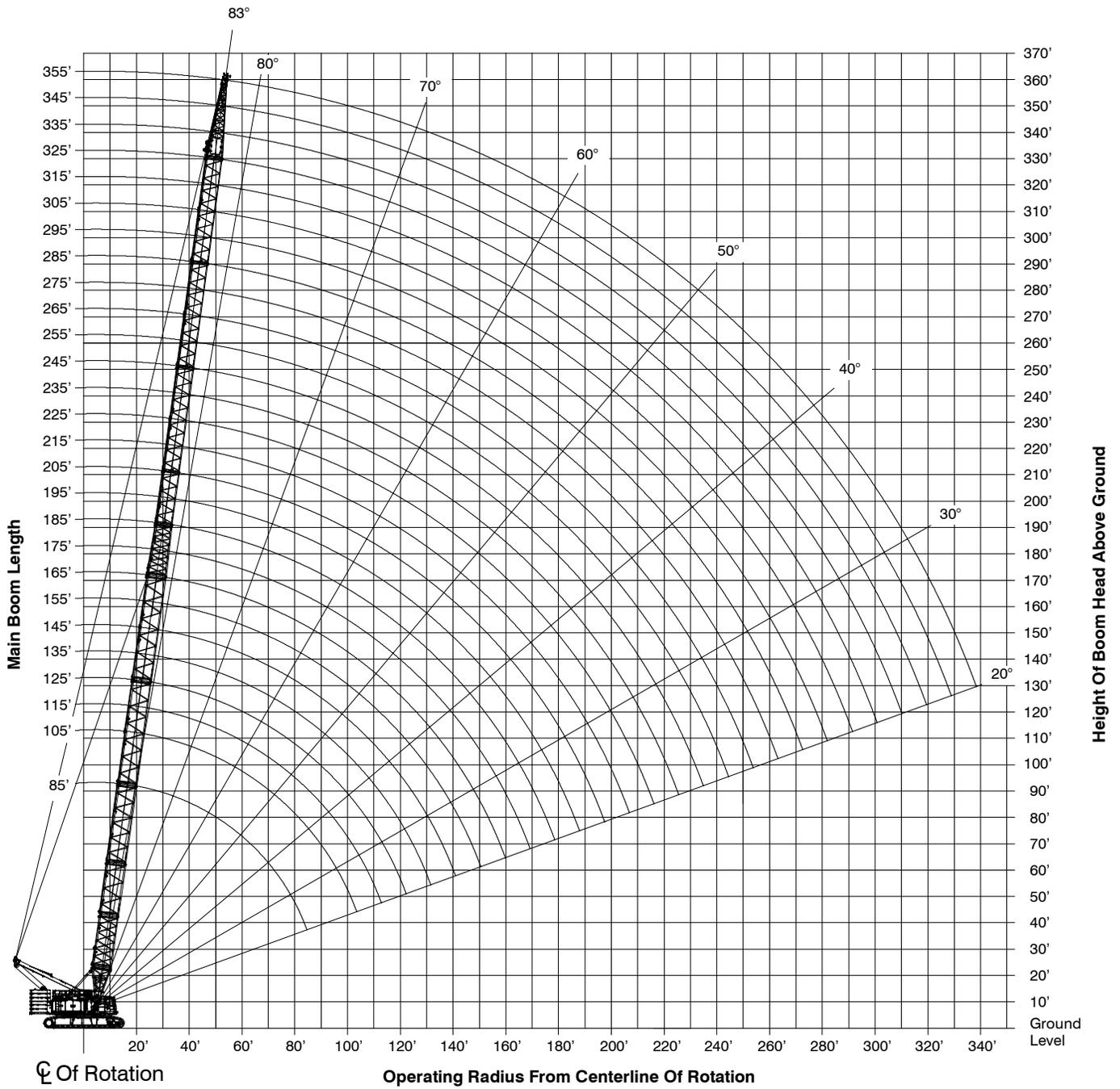
1. Boom geometry shown is for unloaded condition and crane standing level on firm supporting surface. Boom deflection, subsequent radius, and boom angle change must be accounted for when applying load to hook.

# Heavy Duty Boom Load Chart - Retracted Gauge

Heavy Duty Boom With Combo Top - Retracted Gauge (19' 2") - 360° Rotation												
AB+A [163,740 + 75,400 lb (72 271 + 34 201kg)] Counterweight												
[All capacities are listed in kips (mt)]												
Load Radius ft (m)	Boom Length ft (m)											Load Radius ft (m)
	70 (21.3)	90 (27.4)	110 (33.5)	130 (39.6)	150 (45.7)	170 (51.8)	190 (57.9)	210 (64.0)	230 (70.1)	250 (76.2)	260 (79.2)	
16.0 (4.88)	547.8 (248.48)											16.0 (4.88)
17.0 (5.18)	518.8 (235.32)											17.0 (5.18)
18.0 (5.49)	492.1 (223.21)	476.6 (216.18)										18.0 (5.49)
19.0 (5.79)	467.9 (212.24)	464.1 (210.51)										19.0 (5.79)
20.0 (6.10)	445.8 (202.21)	442.3 (200.62)	420.7 (190.83)									20.0 (6.10)
30.0 (9.14)	258.9 (117.44)	258.8 (117.39)	258.4 (117.21)	257.8 (116.94)	257.2 (116.66)	256.5 (116.35)	247.1 (112.08)					30.0 (9.14)
40.0 (12.19)	168.5 (76.43)	168.2 (76.29)	167.9 (76.16)	167.2 (75.84)	166.4 (75.48)	165.5 (75.07)	164.6 (74.66)	163.7 (74.25)	162.8 (73.84)	154.6 (70.13)	141.6 (64.23)	40.0 (12.19)
50.0 (15.24)	123.2 (55.88)	123.0 (55.79)	122.3 (55.47)	121.5 (55.11)	120.6 (54.70)	119.6 (54.25)	118.6 (53.80)	117.6 (53.34)	116.6 (52.89)	115.7 (52.48)	115.2 (52.25)	50.0 (15.24)
60.0 (18.29)	95.7 (43.41)	95.6 (43.36)	95.0 (43.09)	94.2 (42.73)	93.2 (42.27)	92.2 (41.82)	91.2 (41.37)	90.1 (40.87)	89.0 (40.37)	88.0 (39.92)	87.5 (39.69)	60.0 (18.29)
70.0 (21.34)	77.0 (34.93)	77.2 (35.02)	76.6 (34.75)	75.7 (34.34)	74.7 (33.88)	73.6 (33.38)	72.5 (32.89)	71.4 (32.39)	70.2 (31.84)	69.1 (31.34)	68.5 (31.07)	70.0 (21.34)
80.0 (24.38)		64.1 (29.08)	63.6 (28.85)	62.7 (28.44)	61.8 (28.03)	60.7 (27.53)	59.7 (27.08)	58.5 (26.54)	57.4 (26.04)	56.2 (25.49)	55.6 (25.22)	80.0 (24.38)
90.0 (27.43)		53.9 (24.45)	53.6 (24.31)	52.8 (23.95)	51.8 (23.50)	50.7 (23.00)	49.6 (22.50)	48.5 (22.00)	47.3 (21.45)	46.0 (20.87)	45.5 (20.64)	90.0 (27.43)
100.0 (30.48)			45.8 (20.77)	45.0 (20.41)	44.0 (19.96)	43.0 (19.50)	41.8 (18.96)	40.7 (18.46)	39.5 (17.92)	38.1 (17.28)	37.5 (17.01)	100.0 (30.48)
110.0 (33.53)			39.9 (18.10)	38.8 (17.60)	37.8 (17.15)	36.7 (16.65)	35.6 (16.15)	34.4 (15.60)	33.2 (15.06)	32.4 (14.70)	31.8 (14.42)	110.0 (33.53)
120.0 (36.58)				33.6 (15.24)	33.0 (14.97)	32.0 (14.51)	30.9 (14.02)	29.8 (13.52)	28.6 (12.97)	27.2 (12.34)	26.6 (12.07)	120.0 (36.58)
130.0 (39.62)				30.2 (13.70)	28.6 (12.97)	27.7 (12.56)	26.6 (12.07)	25.5 (11.57)	24.3 (11.02)	22.9 (10.39)	22.3 (10.12)	130.0 (39.62)
140.0 (42.67)					24.9 (11.29)	24.0 (10.89)	23.0 (10.43)	21.8 (9.89)	20.6 (9.34)	19.2 (8.71)	18.6 (8.44)	140.0 (42.67)
150.0 (45.72)						20.9 (9.48)	19.8 (8.98)	18.7 (8.48)	17.5 (7.94)	16.1 (7.30)	15.5 (7.03)	150.0 (45.72)
160.0 (48.77)						18.1 (8.21)	17.1 (7.76)	16.0 (7.26)	14.8 (6.71)	13.3 (6.03)	12.7 (5.76)	160.0 (48.77)
170.0 (51.82)							14.7 (6.67)	13.6 (6.17)	12.4 (5.62)	10.9 (4.94)	10.3 (4.67)	170.0 (51.82)
180.0 (54.86)							12.5 (5.67)	11.5 (5.20)	10.3 (4.67)	8.8 (3.99)	8.2 (3.72)	180.0 (54.86)
190.0 (57.91)								9.6 (4.35)	8.4 (3.81)	6.9 (3.13)	6.3 (2.86)	190.0 (57.91)
200.0 (60.96)								7.9 (3.58)	6.7 (3.04)	5.2 (2.36)	4.7 (2.13)	200.0 (60.96)
210.0 (64.01)									5.2 (2.36)	3.7 (1.68)	3.1 (1.41)	210.0 (64.01)
220.0 (67.06)									3.8 (1.72)	2.3 (1.04)		220.0 (67.06)

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.

# Working Range Diagram - Long Range Boom - Extended Gauge



**Notes:**

1. Boom geometry shown is for unloaded condition and crane standing level on firm supporting surface. Boom deflection, subsequent radius, and boom angle change must be accounted for when applying load to hook.

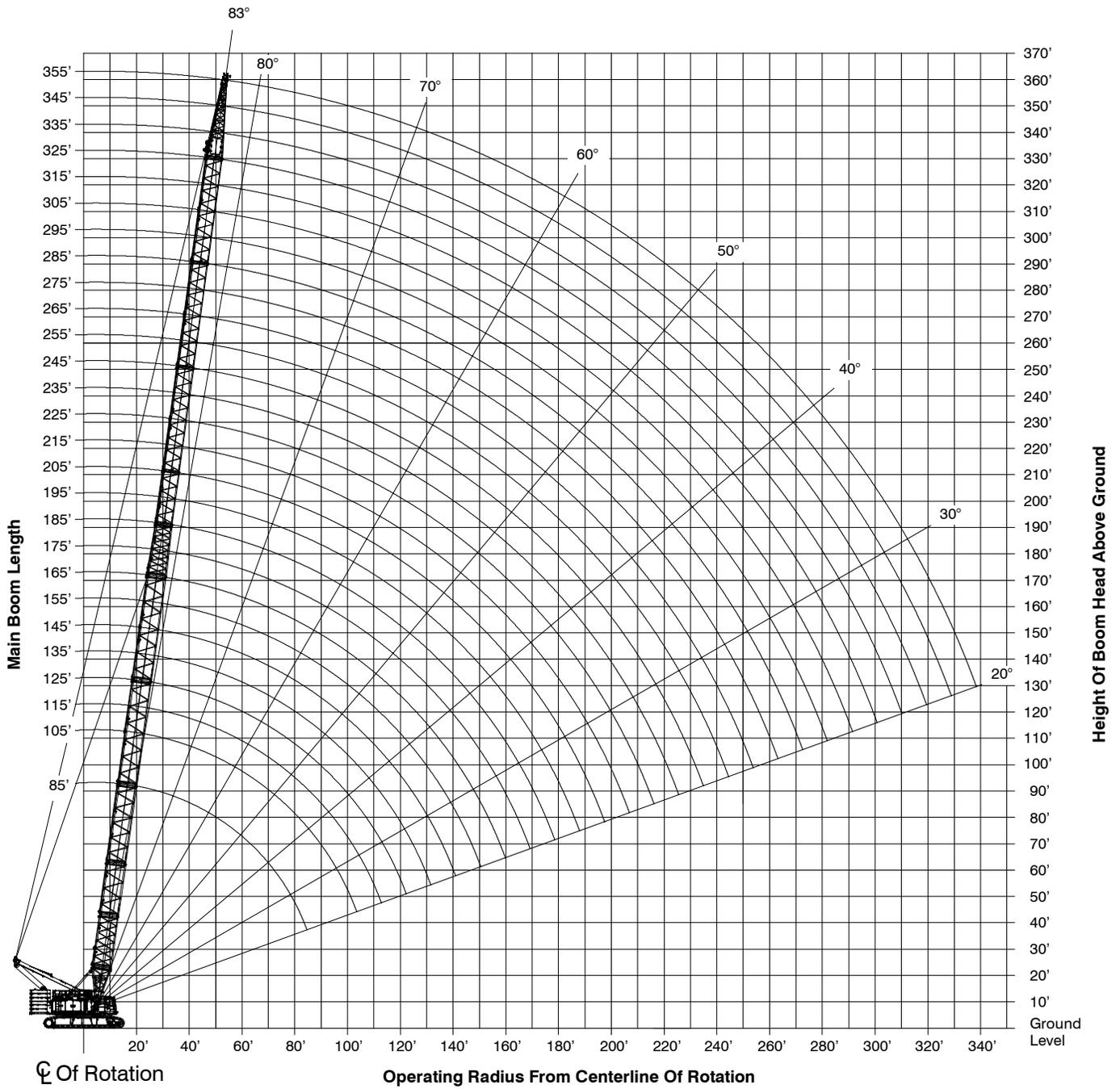
# Long Range Boom Load Chart - Extended Gauge

Long Range Top - Extended Gauge (22') - 360° Rotation  
 ABC + A [227,560 + 75,400 lb (103 219+ 34 201kg)] Counterweight  
 [All capacities are listed in kips (mt)]

Load Radius ft (m)	Boom Length ft (m)															Load Radius ft (m)	
	85 (25.9)	105 (32.0)	125 (38.1)	145 (44.2)	165 (50.3)	185 (56.4)	205 (62.5)	215 (65.5)	245 (74.7)	265 (80.8)	285 (86.9)	305 (93.0)	325 (99.1)	345 (105.2)	355 (108.2)		
17.0 (5.18)	305.9 (138.75)															17.0 (5.18)	
18.0 (5.49)	297.5 (134.94)															18.0 (5.49)	
19.0 (5.79)	291.9 (132.40)															19.0 (5.79)	
20.0 (6.10)	285.5 (129.50)	282.8 (128.28)														20.0 (6.10)	
30.0 (9.14)	237.6 (107.77)	232.4 (105.41)	223.1 (101.20)	214.4 (97.25)	206.8 (93.80)											30.0 (9.14)	
40.0 (12.19)	203.3 (92.22)	196.8 (89.27)	187.7 (85.14)	179.7 (81.51)	172.7 (78.34)	165.0 (74.84)	158.4 (71.85)	155.1 (70.35)	147.4 (66.86)							40.0 (12.19)	
50.0 (15.24)	177.4 (80.47)	171.5 (77.79)	160.8 (72.94)	153.4 (69.58)	147.4 (66.86)	140.9 (63.91)	135.3 (61.37)	131.0 (59.42)	127.4 (57.79)	123.5 (56.02)	114.4 (51.89)	92.6 (42.00)				50.0 (15.24)	
60.0 (18.29)	139.6 (63.32)	138.9 (63.00)	137.9 (62.55)	134.5 (61.01)	126.9 (57.56)	121.3 (55.02)	116.0 (52.62)	113.5 (51.48)	112.0 (50.80)	110.3 (50.03)	105.4 (47.81)	89.7 (40.69)	70.6 (32.02)	56.6 (25.67)	50.9 (23.09)	60.0 (18.29)	
70.0 (21.34)	114.2 (51.80)	113.6 (51.53)	112.6 (51.07)	111.5 (50.58)	110.3 (50.03)	105.9 (48.04)	100.9 (45.77)	97.4 (44.18)	96.9 (43.95)	96.1 (43.59)	93.3 (42.32)	82.2 (37.29)	67.2 (30.48)	54.1 (24.54)	48.2 (21.86)	70.0 (21.34)	
80.0 (24.38)	96.1 (43.59)	95.6 (43.36)	94.7 (42.96)	93.7 (42.50)	92.5 (41.96)	91.3 (41.41)	87.0 (39.46)	84.8 (38.46)	85.2 (38.65)	84.8 (38.46)	82.5 (37.42)	73.1 (33.16)	61.7 (27.99)	50.6 (22.95)	45.6 (20.68)	80.0 (24.38)	
90.0 (27.43)		82.0 (37.19)	81.2 (36.83)	80.1 (36.33)	78.9 (35.79)	77.6 (35.20)	76.3 (34.61)	74.5 (33.79)	74.1 (33.61)	73.8 (33.48)	73.0 (33.11)	63.5 (28.80)	58.2 (26.40)	46.7 (21.18)	42.0 (19.05)	90.0 (27.43)	
100.0 (30.48)		71.5 (32.43)	70.6 (32.02)	69.5 (31.52)	68.3 (30.98)	67.1 (30.44)	66.2 (30.03)	64.4 (29.21)	64.0 (29.03)	63.8 (28.94)	63.4 (28.76)	56.6 (25.67)	53.5 (24.27)	43.1 (19.55)	38.6 (17.51)	100.0 (30.48)	
110.0 (33.53)			62.4 (28.30)	61.4 (27.85)	60.3 (27.35)	59.1 (26.81)	57.8 (26.22)	57.0 (25.85)	55.5 (25.17)	55.2 (25.04)	54.9 (24.90)	50.4 (22.86)	47.9 (21.73)	39.7 (18.01)	35.6 (16.15)	110.0 (33.53)	
120.0 (36.58)			55.5 (25.17)	54.5 (24.72)	53.4 (24.22)	52.2 (23.68)	50.9 (23.09)	50.2 (22.77)	48.6 (22.04)	48.3 (21.91)	47.9 (21.73)	44.8 (20.32)	43.0 (19.50)	35.7 (16.19)	31.6 (14.33)	120.0 (36.58)	
130.0 (39.62)				48.8 (22.14)	47.7 (21.64)	46.4 (21.05)	45.1 (20.46)	44.5 (20.18)	42.8 (19.41)	42.5 (19.28)	42.1 (19.10)	39.7 (18.01)	38.3 (17.37)	30.3 (13.74)	29.0 (13.15)	130.0 (39.62)	
140.0 (42.67)				43.9 (19.91)	42.8 (19.41)	41.6 (18.87)	40.3 (18.28)	39.6 (17.96)	37.9 (17.19)	37.6 (17.06)	37.2 (16.87)	35.1 (15.92)	34.1 (15.47)	26.8 (12.16)	25.6 (11.61)	140.0 (42.67)	
150.0 (45.72)					38.7 (17.55)	37.5 (17.01)	36.2 (16.42)	35.5 (16.10)	33.7 (15.29)	33.4 (15.15)	33.0 (14.97)	29.9 (13.56)	29.2 (13.24)	23.5 (10.66)	22.6 (10.25)	150.0 (45.72)	
160.0 (48.77)						33.9 (15.38)	32.4 (14.70)	30.7 (13.93)	30.6 (13.88)	30.4 (13.79)	30.0 (13.61)	26.5 (12.02)	25.9 (11.75)	20.6 (9.34)	19.9 (9.03)	160.0 (48.77)	
170.0 (51.82)							31.0 (14.06)	29.0 (13.15)	27.5 (12.47)	27.5 (12.47)	27.2 (12.34)	26.8 (12.16)	23.4 (10.61)	23.1 (10.48)	17.9 (8.12)	17.4 (7.89)	170.0 (51.82)
180.0 (54.86)								26.1 (11.84)	24.6 (11.16)	24.7 (11.20)	24.3 (11.02)	23.8 (10.80)	20.6 (9.34)	20.4 (9.25)	15.5 (7.03)	15.0 (6.80)	180.0 (54.86)
190.0 (57.91)								23.2 (10.52)	21.8 (9.89)	22.2 (10.07)	21.6 (9.80)	20.9 (9.48)	17.9 (8.12)	18.0 (8.16)	13.2 (5.99)	12.9 (5.85)	190.0 (57.91)
200.0 (60.96)									19.4 (8.80)	19.5 (8.85)	19.0 (8.62)	18.4 (8.35)	15.6 (7.08)	15.8 (7.17)	11.2 (5.08)	10.8 (4.90)	200.0 (60.96)
210.0 (64.01)										17.1 (7.76)	16.4 (7.44)	16.0 (7.26)	13.4 (6.08)	13.7 (6.21)	9.2 (4.17)	9.1 (4.13)	210.0 (64.01)
220.0 (67.06)										14.7 (6.67)	14.1 (6.40)	13.8 (6.26)	11.4 (5.17)	11.8 (5.35)	7.6 (3.45)	7.4 (3.36)	220.0 (67.06)
230.0 (70.10)										12.5 (5.67)	12.1 (5.49)	11.6 (5.26)	9.5 (4.31)	10.0 (4.54)	6.0 (2.72)	5.9 (2.68)	230.0 (70.10)
240.0 (73.15)											10.0 (4.54)	9.8 (4.45)	7.9 (3.58)	8.4 (3.81)	4.5 (2.04)	4.5 (2.04)	240.0 (73.15)
250.0 (76.20)											8.0 (3.63)	7.9 (3.58)	6.2 (2.81)	6.8 (3.08)	3.1 (1.41)	3.2 (1.45)	250.0 (76.20)
260.0 (79.25)											8.0 (3.63)	6.2 (2.81)	4.6 (2.09)	5.5 (2.49)		2.0 (0.91)	260.0 (79.25)
270.0 (82.30)											8.0 (3.63)	6.2 (2.81)	4.6 (2.09)	5.5 (2.49)			270.0 (82.30)
280.0 (85.34)														2.8 (1.27)			280.0 (85.34)

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.

# Working Range Diagram - Long Range Boom - Retracted Gauge



**Notes:**

1. Boom geometry shown is for unloaded condition and crane standing level on firm supporting surface. Boom deflection, subsequent radius, and boom angle change must be accounted for when applying load to hook.

# Long Range Boom Load Chart - Retracted Gauge

Long Range Top - Retracted Gauge (19' 2") - 360° Rotation AB + A [163,740 + 75,400 lb (74 721 + 34 201kg)] Counterweight [All capacities are listed in kips (mt)]														
Load Radius ft (m)	Boom Length ft (m)												Load Radius ft (m)	
	85 (25.9)	105 (32.0)	125 (38.1)	145 (44.2)	165 (50.3)	185 (56.4)	205 (62.5)	215 (65.5)	245 (74.7)	265 (80.8)	285 (86.9)	305 (93.0)		
17.0 (5.18)	305.9 (138.75)													17.0 (5.18)
18.0 (5.49)	295.7 (134.13)													18.0 (5.49)
19.0 (5.79)	291.9 (132.40)													19.0 (5.79)
20.0 (6.10)	285.5 (129.50)	282.8 (128.28)												20.0 (6.10)
30.0 (9.14)	237.6 (107.77)	232.4 (105.41)	223.1 (101.20)	214.4 (97.25)	206.8 (93.80)									30.0 (9.14)
40.0 (12.19)	171.8 (77.93)	171.2 (77.66)	170.3 (77.25)	169.3 (76.79)	168.2 (76.29)	165.0 (74.84)	158.4 (71.85)	147.5 (66.90)	147.4 (66.86)					40.0 (12.19)
50.0 (15.24)	126.9 (57.56)	126.2 (57.24)	125.3 (56.84)	124.3 (56.38)	123.2 (55.88)	122.0 (55.34)	120.9 (54.84)	120.3 (54.57)	119.1 (54.02)	118.9 (53.93)	114.4 (51.89)	92.6 (42.00)		50.0 (15.24)
60.0 (18.29)	99.7 (45.22)	99.1 (44.95)	98.2 (44.54)	97.2 (44.09)	96.0 (43.54)	94.9 (43.05)	93.7 (42.50)	93.0 (42.18)	91.8 (41.64)	91.5 (41.50)	91.2 (41.37)	89.7 (40.69)		60.0 (18.29)
70.0 (21.34)	81.4 (36.92)	80.8 (36.65)	79.9 (36.24)	78.8 (35.74)	77.6 (35.20)	76.4 (34.65)	75.1 (34.06)	74.5 (33.79)	73.1 (33.16)	72.8 (33.02)	72.4 (32.84)	72.0 (32.66)		70.0 (21.34)
80.0 (24.38)	68.2 (30.93)	67.7 (30.71)	67.1 (30.44)	66.0 (29.94)	64.9 (29.44)	63.7 (28.89)	62.4 (28.30)	61.8 (28.03)	60.3 (27.35)	60.1 (27.26)	59.8 (27.12)	59.4 (26.94)		80.0 (24.38)
90.0 (27.43)		58.0 (26.31)	57.2 (25.95)	56.1 (25.45)	55.0 (24.95)	53.8 (24.40)	52.5 (23.81)	51.8 (23.50)	50.3 (22.82)	50.0 (22.68)	49.7 (22.54)	49.3 (22.36)		90.0 (27.43)
100.0 (30.48)		50.3 (22.82)	49.5 (22.45)	48.4 (21.95)	47.3 (21.45)	46.0 (20.87)	44.8 (20.32)	44.1 (20.00)	42.5 (19.28)	42.2 (19.14)	41.8 (18.96)	41.4 (18.78)		100.0 (30.48)
110.0 (33.53)			43.3 (19.64)	42.3 (19.19)	41.1 (18.64)	39.9 (18.10)	38.6 (17.51)	37.9 (17.19)	36.2 (16.42)	35.9 (16.28)	35.5 (16.10)	35.1 (15.92)		110.0 (33.53)
120.0 (36.58)			38.2 (17.33)	37.2 (16.87)	36.1 (16.37)	34.8 (15.79)	33.5 (15.20)	33.3 (15.10)	31.7 (14.38)	31.5 (14.29)	31.1 (14.11)	30.7 (13.93)		120.0 (36.58)
130.0 (39.62)				33.2 (15.06)	32.1 (14.56)	31.0 (14.06)	29.7 (13.47)	29.1 (13.20)	27.4 (12.43)	27.2 (12.34)	26.8 (12.16)	26.4 (11.97)		130.0 (39.62)
140.0 (42.67)				29.5 (13.38)	28.5 (12.93)	27.4 (12.43)	26.1 (11.84)	25.5 (11.57)	23.8 (10.80)	23.5 (10.66)	23.2 (10.52)	22.8 (10.34)		140.0 (42.67)
150.0 (45.72)					25.4 (11.52)	24.3 (11.02)	23.0 (10.43)	22.4 (10.16)	20.7 (9.39)	20.4 (9.25)	20.1 (9.12)	19.7 (8.94)		150.0 (45.72)
160.0 (48.77)						21.6 (9.80)	20.4 (9.25)	19.7 (8.94)	18.0 (8.16)	17.7 (8.03)	17.4 (7.89)	16.9 (7.67)		160.0 (48.77)
170.0 (51.82)						19.2 (8.71)	18.0 (8.16)	17.4 (7.89)	15.7 (7.12)	15.4 (6.99)	15.0 (6.80)	14.6 (6.62)		170.0 (51.82)
180.0 (54.86)							15.9 (7.21)	15.3 (6.94)	13.6 (6.17)	13.3 (6.03)	12.9 (5.85)	12.5 (5.67)		180.0 (54.86)
190.0 (57.91)							14.1 (6.40)	13.4 (6.08)	11.7 (5.31)	11.4 (5.17)	11.1 (5.03)	10.6 (4.81)		190.0 (57.91)
200.0 (60.96)								11.8 (5.35)	10.0 (4.54)	9.8 (4.45)	9.4 (4.26)	9.0 (4.08)		200.0 (60.96)
210.0 (64.01)										8.5 (3.86)	8.3 (3.76)	7.9 (3.40)		210.0 (64.01)
220.0 (67.06)										7.2 (3.27)	6.9 (3.13)	6.5 (2.95)		220.0 (67.06)
230.0 (70.10)										5.9 (2.68)	5.7 (2.59)	5.3 (2.40)		230.0 (70.10)
240.0 (73.15)											4.5 (2.04)	4.2 (1.91)		240.0 (73.15)
250.0 (76.20)											3.5 (1.59)	3.2 (1.45)		250.0 (76.20)
260.0 (79.25)												2.2 (1.00)		260.0 (79.25)

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.

# Jib Attachment Load Chart - Extended Gauge + 40 ft (12.9m)

**Heavy Duty Boom With Combo Top + 40 ft (12.9m) Offset Tube Jib - Extended Gauge (22") - 360° Rotation**  
**ABC + A [227,560 + 75,400 lb (103 219 + 34 201kg)] Counterweight**  
 [All capacities are listed in kips (m)]

Load Radius ft (m)	5° Offset					Load Radius ft (m)	15° Offset					Load Radius ft (m)	30° Offset					Load Radius ft (m)
	Boom Length ft (m)						Boom Length ft (m)						Boom Length ft (m)					
	70 (21.3)	120 (36.6)	170 (51.8)	220 (67.1)	270 (82.3)		70 (21.3)	120 (36.6)	170 (51.8)	220 (67.1)	270 (82.3)		70 (21.3)	120 (36.6)	170 (51.8)	220 (67.1)	270 (82.3)	
30.0 (9.14)	128.0 (58.06)	128.0 (58.06)				30.0 (9.14)	128.0 (58.06)				30.0 (9.14)					30.0 (9.14)		
40.0 (12.19)	128.0 (58.06)	128.0 (58.06)	128.0 (58.06)			40.0 (12.19)	113.0 (51.26)	124.3 (56.38)			40.0 (12.19)	71.9 (32.61)				40.0 (12.19)		
50.0 (15.24)	123.9 (56.20)	128.0 (58.06)	127.5 (57.83)	120.9 (54.84)	89.1 (40.42)	50.0 (15.24)	97.7 (44.32)	114.6 (51.98)	119.3 (54.11)	114.1 (51.75)	50.0 (15.24)	65.9 (29.89)	69.8 (31.66)	73.3 (33.25)		50.0 (15.24)		
60.0 (18.29)	107.2 (48.63)	124.5 (56.47)	124.3 (56.38)	118.5 (53.75)	87.3 (39.60)	60.0 (18.29)	94.5 (42.86)	101.5 (46.04)	115.2 (52.25)	112.0 (50.80)	60.0 (18.29)	59.3 (26.90)	66.8 (30.30)	68.6 (31.12)	71.4 (32.39)	60.0 (18.29)		
70.0 (21.34)	94.0 (42.64)	109.7 (49.76)	106.7 (48.40)	103.8 (47.08)	85.5 (38.78)	70.0 (21.34)	74.6 (33.84)	93.4 (42.37)	104.8 (47.54)	106.1 (48.13)	81.9 (37.15)	70.0 (21.34)	54.2 (24.58)	62.0 (28.12)	66.7 (30.25)	67.7 (30.71)	70.0 (21.34)	
80.0 (24.38)	82.1 (37.24)	91.7 (41.59)	88.7 (40.23)	85.7 (38.87)	82.8 (37.56)	80.0 (24.38)	67.3 (30.53)	84.8 (38.46)	90.1 (40.87)	87.6 (39.73)	79.8 (36.20)	80.0 (24.38)	50.2 (22.77)	58.0 (26.31)	63.3 (28.71)	66.5 (30.16)	67.0 (30.39)	80.0 (24.38)
90.0 (27.43)	73.1 (33.16)	78.0 (35.38)	74.9 (33.97)	71.8 (32.57)	68.7 (31.16)	90.0 (27.43)	63.0 (28.58)	77.7 (35.24)	76.1 (34.52)	73.4 (33.29)	70.7 (32.07)	90.0 (27.43)	47.2 (21.41)	54.7 (24.81)	60.1 (27.26)	64.1 (29.08)	65.7 (29.80)	90.0 (27.43)
100.0 (30.48)	67.4 (30.57)	67.4 (30.57)	64.6 (29.30)	61.6 (27.94)	58.5 (26.54)	100.0 (30.48)	58.2 (26.40)	67.8 (30.75)	65.5 (29.71)	62.9 (28.53)	60.2 (27.31)	100.0 (30.48)	45.3 (20.55)	51.8 (23.50)	57.3 (25.99)	61.4 (27.85)	62.4 (28.30)	100.0 (30.48)
110.0 (33.53)	61.9 (28.08)	59.2 (26.85)	56.1 (25.45)	53.0 (24.04)	49.8 (22.59)	110.0 (33.53)	54.8 (24.86)	59.5 (26.99)	56.9 (25.81)	54.1 (24.54)	51.3 (23.27)	110.0 (33.53)		49.5 (22.45)	54.8 (24.86)	55.7 (25.27)	53.3 (24.18)	110.0 (33.53)
120.0 (36.58)		52.3 (23.72)	49.2 (22.32)	46.0 (20.87)	42.8 (19.41)	120.0 (36.58)		52.4 (23.77)	49.7 (22.54)	46.9 (21.27)	44.1 (20.00)	120.0 (36.58)		47.6 (21.59)	50.8 (23.04)	48.4 (21.95)	45.8 (20.77)	120.0 (36.58)
130.0 (39.62)		46.5 (21.09)	43.4 (19.69)	40.2 (18.23)	36.9 (16.74)	130.0 (39.62)		46.5 (21.09)	43.8 (19.87)	41.0 (18.60)	38.1 (17.28)	130.0 (39.62)		46.1 (20.91)	44.7 (20.28)	42.2 (19.14)	39.6 (17.96)	130.0 (39.62)
140.0 (42.67)		41.6 (18.87)	38.5 (17.46)	35.3 (16.01)	32.5 (14.74)	140.0 (42.67)		41.5 (18.82)	38.8 (17.60)	35.9 (16.28)	33.0 (14.97)	140.0 (42.67)		41.8 (18.96)	39.6 (17.96)	37.0 (16.78)	34.4 (15.60)	140.0 (42.67)
150.0 (45.72)		37.4 (16.96)	34.3 (15.56)	31.5 (14.29)	28.2 (12.79)	150.0 (45.72)		37.1 (16.83)	34.5 (15.65)	32.1 (14.56)	29.2 (13.24)	150.0 (45.72)			35.2 (15.97)	33.0 (14.97)	30.4 (13.79)	150.0 (45.72)
160.0 (48.77)			31.0 (14.06)	27.9 (12.66)	24.5 (11.11)	160.0 (48.77)			31.1 (14.11)	28.3 (12.84)	25.4 (11.52)	160.0 (48.77)			31.6 (14.33)	29.1 (13.20)	26.5 (12.02)	160.0 (48.77)
170.0 (51.82)			27.8 (12.61)	24.7 (11.20)	21.3 (9.66)	170.0 (51.82)			27.8 (12.61)	25.0 (11.34)	22.1 (10.02)	170.0 (51.82)			28.2 (12.79)	25.8 (11.70)	23.1 (10.48)	170.0 (51.82)
180.0 (54.86)			25.0 (11.34)	21.8 (9.89)	18.5 (8.39)	180.0 (54.86)			24.9 (11.29)	22.1 (10.02)	19.2 (8.71)	180.0 (54.86)			25.2 (11.43)	22.7 (10.30)	20.1 (9.12)	180.0 (54.86)
190.0 (57.91)			22.5 (10.21)	19.3 (8.75)	15.9 (7.21)	190.0 (57.91)			22.3 (10.12)	19.6 (8.89)	16.6 (7.53)	190.0 (57.91)				20.1 (9.12)	17.4 (7.89)	190.0 (57.91)
200.0 (60.96)			20.2 (9.16)	17.1 (15.10)	13.7 (6.21)	200.0 (60.96)			19.9 (9.03)	17.2 (7.80)	14.3 (6.49)	200.0 (60.96)				17.7 (8.03)	15.0 (6.80)	200.0 (60.96)
210.0 (64.01)				13.2 (5.99)	11.6 (5.26)	210.0 (64.01)				15.1 (6.85)	12.2 (5.53)	210.0 (64.01)				15.5 (7.03)	12.8 (5.81)	210.0 (64.01)
220.0 (67.06)				11.6 (5.26)	9.8 (4.45)	220.0 (67.06)				13.2 (5.99)	10.3 (4.67)	220.0 (67.06)				13.5 (6.12)	10.8 (4.90)	220.0 (67.06)
230.0 (70.10)				10.0 (4.54)	8.1 (3.67)	230.0 (70.10)				11.5 (5.22)	8.6 (3.90)	230.0 (70.10)					9.0 (4.08)	230.0 (70.10)
240.0 (73.15)					6.6 (2.99)	240.0 (73.15)				9.9 (4.49)	7.0 (3.18)	240.0 (73.15)					7.4 (3.36)	240.0 (73.15)
250.0 (76.20)					5.2 (2.36)	250.0 (76.20)				8.4 (3.81)	5.5 (2.49)	250.0 (76.20)					5.8 (2.63)	250.0 (76.20)
260.0 (79.25)					3.9 (1.77)	260.0 (79.25)					4.2 (1.91)	260.0 (79.25)					4.4 (2.00)	260.0 (79.25)
270.0 (82.30)					2.3 (1.04)	270.0 (82.30)					2.6 (1.18)	270.0 (82.30)						270.0 (82.30)

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.

# Jib Attachment Load Chart - Extended Gauge + 100 ft (30.48m)

**Heavy Duty Boom With Combo Top + 100 ft (30.48m) Offset Tube Jib - Extended Gauge (22") - 360° Rotation**  
**ABC + A [227,560 + 75,400 lb (103 219 + 34 201kg)] Counterweight**  
 [All capacities are listed in kips (mt)]

Load Radius ft (m)	5° Offset					Load Radius ft (m)	15° Offset					Load Radius ft (m)	30° Offset					Load Radius ft (m)
	Boom Length ft (m)						Boom Length ft (m)						Boom Length ft (m)					
	70 (21.3)	120 (36.6)	170 (51.8)	220 (67.1)	250 (76.2)		70 (21.3)	120 (36.6)	170 (51.8)	220 (67.1)	250 (76.2)		70 (21.3)	120 (36.6)	170 (51.8)	220 (67.1)	250 (76.2)	
40.0 (12.19)	59.3 (26.90)					40.0 (12.19)						40.0 (12.19)						40.0 (12.19)
50.0 (15.24)	55.6 (25.22)	57.3 (25.99)	56.5 (25.63)			50.0 (15.24)						50.0 (15.24)						50.0 (15.24)
60.0 (18.29)	52.0 (23.59)	54.8 (24.86)	55.1 (24.99)	52.9 (24.00)	50.7 (23.00)	60.0 (18.29)	48.2 (17.86)	49.5 (22.45)				60.0 (18.29)						60.0 (18.29)
70.0 (21.34)	48.8 (22.14)	52.1 (23.63)	53.5 (24.27)	52.5 (23.81)	50.3 (22.82)	70.0 (21.34)	43.3 (19.64)	47.3 (21.45)	47.9 (21.73)	47.7 (21.64)		70.0 (21.34)						70.0 (21.34)
80.0 (24.38)	46.0 (20.87)	49.6 (22.50)	51.5 (23.36)	51.3 (23.27)	50.0 (22.68)	80.0 (24.38)	38.5 (17.46)	43.9 (19.91)	46.2 (20.96)	46.3 (21.00)	43.4 (19.69)	80.0 (24.38)	28.7 (13.02)	30.3 (13.74)				80.0 (24.38)
90.0 (27.43)	42.4 (19.23)	47.4 (21.50)	49.5 (22.45)	50.2 (22.77)	49.2 (22.32)	90.0 (27.43)	34.6 (15.69)	40.0 (18.14)	44.2 (20.05)	44.9 (20.37)	43.0 (19.50)	90.0 (27.43)	26.2 (11.88)	28.2 (12.79)	29.5 (13.38)			90.0 (27.43)
100.0 (30.48)	38.0 (17.24)	45.3 (20.55)	47.7 (21.64)	48.6 (22.04)	48.2 (21.86)	100.0 (30.48)	33.3 (15.10)	36.7 (16.65)	40.9 (18.55)	43.6 (19.78)	42.6 (19.32)	100.0 (30.48)	24.1 (10.93)	26.3 (11.93)	27.8 (12.61)	28.9 (13.11)	27.2 (12.34)	100.0 (30.48)
110.0 (33.53)	34.4 (15.60)	43.2 (19.60)	46.0 (20.87)	47.1 (21.36)	47.1 (21.36)	110.0 (33.53)	30.4 (13.79)	33.9 (15.38)	38.1 (17.28)	41.4 (18.78)	42.2 (19.14)	110.0 (33.53)	22.3 (10.12)	24.7 (11.20)	26.4 (11.97)	27.6 (12.52)	27.0 (12.25)	110.0 (33.53)
120.0 (36.58)	33.0 (14.97)	39.6 (17.96)	44.4 (20.14)	45.8 (20.77)	45.8 (20.77)	120.0 (36.58)	27.9 (12.66)	33.4 (15.15)	35.6 (16.15)	39.0 (17.69)	40.7 (18.46)	120.0 (36.58)	20.9 (9.48)	23.3 (10.57)	25.0 (11.34)	26.3 (11.93)	26.8 (12.16)	120.0 (36.58)
130.0 (39.62)	30.3 (13.74)	36.5 (16.56)	42.9 (19.46)	42.7 (19.37)	40.8 (18.51)	130.0 (39.62)	25.9 (11.75)	31.2 (14.15)	33.4 (15.15)	36.7 (16.65)	38.5 (17.46)	130.0 (39.62)	19.6 (8.89)	22.1 (10.02)	23.9 (10.84)	25.2 (11.43)	25.9 (11.75)	130.0 (39.62)
140.0 (42.67)	27.9 (12.66)	33.8 (15.33)	40.6 (18.42)	37.7 (17.10)	35.8 (16.24)	140.0 (42.67)	24.1 (10.93)	29.2 (13.24)	33.3 (15.10)	34.8 (15.79)	36.5 (16.56)	140.0 (42.67)	18.5 (8.39)	21.0 (9.53)	22.8 (10.34)	24.2 (10.98)	24.9 (11.29)	140.0 (42.67)
150.0 (45.72)	25.9 (11.75)	33.3 (15.10)	36.6 (16.60)	33.5 (15.20)	32.1 (14.56)	150.0 (45.72)	22.6 (10.25)	27.5 (12.47)	31.7 (14.38)	33.0 (14.97)	33.7 (15.29)	150.0 (45.72)	17.7 (8.03)	20.0 (9.07)	21.9 (9.93)	23.3 (10.57)	24.0 (10.89)	150.0 (45.72)
160.0 (48.77)	24.2 (10.98)	31.1 (14.11)	32.8 (14.88)	30.4 (13.79)	28.4 (12.88)	160.0 (48.77)	21.4 (9.71)	25.9 (11.75)	30.0 (13.61)	31.9 (14.47)	30.4 (13.79)	160.0 (48.77)	17.1 (7.76)	19.2 (8.71)	21.0 (9.53)	22.4 (10.16)	23.2 (10.52)	160.0 (48.77)
170.0 (51.82)		29.2 (13.24)	30.2 (13.70)	27.1 (12.29)	25.1 (11.39)	170.0 (51.82)		24.6 (11.16)	28.5 (12.93)	28.5 (12.93)	26.9 (12.20)	170.0 (51.82)		18.4 (8.35)	20.2 (9.16)	21.7 (9.84)	22.4 (10.16)	170.0 (51.82)
180.0 (54.86)		27.5 (12.47)	27.4 (12.43)	24.3 (11.02)	22.3 (10.12)	180.0 (54.86)		23.4 (10.61)	27.2 (12.34)	25.5 (11.57)	23.9 (10.84)	180.0 (54.86)		17.8 (8.07)	19.5 (8.85)	21.0 (9.53)	21.7 (9.84)	180.0 (54.86)
190.0 (57.91)		26.0 (11.79)	24.9 (11.29)	21.7 (9.84)	19.7 (8.94)	190.0 (57.91)		22.4 (10.16)	25.6 (11.61)	22.9 (10.39)	21.2 (9.62)	190.0 (57.91)		17.3 (7.85)	18.9 (8.57)	20.3 (9.21)	21.1 (9.57)	190.0 (57.91)
200.0 (60.96)		24.6 (11.16)	22.6 (10.25)	19.5 (8.85)	17.4 (7.89)	200.0 (60.96)		21.5 (9.75)	23.2 (10.52)	20.5 (9.30)	18.8 (8.53)	200.0 (60.96)		17.0 (7.71)	18.4 (8.35)	19.7 (8.94)	20.5 (9.30)	200.0 (60.96)
210.0 (64.01)		23.5 (10.66)	20.6 (9.34)	17.4 (7.89)	15.3 (6.94)	210.0 (64.01)		20.8 (9.43)	21.1 (9.57)	18.3 (8.30)	16.7 (7.57)	210.0 (64.01)			17.9 (8.12)	19.2 (8.71)	18.4 (8.35)	210.0 (64.01)
220.0 (67.06)			18.7 (8.48)	15.6 (7.08)	13.5 (6.12)	220.0 (67.06)			19.1 (8.66)	16.4 (7.44)	14.7 (6.67)	220.0 (67.06)			17.5 (7.94)	17.7 (8.03)	16.3 (7.39)	220.0 (67.06)
230.0 (70.10)			17.1 (7.76)	13.9 (6.30)	11.8 (5.35)	230.0 (70.10)			17.4 (7.89)	14.6 (6.62)	12.9 (5.85)	230.0 (70.10)			17.1 (7.76)	15.8 (7.17)	14.3 (6.49)	230.0 (70.10)
240.0 (73.15)			15.5 (7.03)	12.3 (5.58)	10.2 (4.63)	240.0 (73.15)			15.7 (7.12)	13.0 (5.90)	11.3 (5.13)	240.0 (73.15)			16.2 (7.35)	14.0 (6.35)	12.5 (5.67)	240.0 (73.15)
250.0 (76.20)			14.1 (6.40)	10.9 (4.94)	8.8 (3.99)	250.0 (76.20)			14.2 (6.44)	11.5 (5.22)	9.8 (4.45)	250.0 (76.20)				12.4 (5.62)	10.9 (4.94)	250.0 (76.20)
260.0 (79.25)			12.8 (5.81)	9.6 (4.35)	7.5 (3.40)	260.0 (79.25)			12.8 (5.81)	10.1 (4.58)	8.4 (3.81)	260.0 (79.25)				10.9 (4.94)	9.4 (4.26)	260.0 (79.25)
270.0 (82.30)				8.4 (3.81)	6.3 (2.86)	270.0 (82.30)				8.8 (3.99)	7.1 (3.22)	270.0 (82.30)				9.4 (4.26)	8.0 (3.63)	270.0 (82.30)
280.0 (85.34)				7.3 (3.31)	5.2 (2.36)	280.0 (85.34)				7.6 (3.45)	5.9 (2.68)	280.0 (85.34)				8.1 (3.67)	6.7 (3.04)	280.0 (85.34)
290.0 (88.39)				6.3 (2.86)	4.1 (1.86)	290.0 (88.39)				6.5 (2.95)	4.8 (2.18)	290.0 (88.39)					5.4 (2.45)	290.0 (88.39)
300.0 (91.44)				5.2 (2.36)	3.1 (1.41)	300.0 (91.44)				5.3 (2.40)	3.7 (1.68)	300.0 (91.44)					4.3 (1.95)	300.0 (91.44)

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.

# Jib Attachment Load Chart - Extended Gauge + 140 ft (42.67m)

Heavy Duty Boom With Combo Top + 140 ft (42.67m) Offset Tube Jib - Extended Gauge (22") - 360° Rotation ABC + A [227,560 + 75,400 lb (103 219 + 34 201kg)] Counterweight [All capacities are listed in kips (m)]																		
Load Radius ft (m)	5° Offset					Load Radius ft (m)	15° Offset					Load Radius ft (m)	30° Offset					Load Radius ft (m)
	Boom Length ft (m)						Boom Length ft (m)						Boom Length ft (m)					
	70 (21.3)	120 (36.6)	160 (48.8)	200 (61.0)	240 (73.2)		70 (21.3)	120 (36.6)	160 (48.8)	200 (61.0)	240 (73.2)		70 (21.3)	120 (36.6)	160 (48.8)	200 (61.0)	240 (73.2)	
50.0 (15.24)	29.2 (13.24)	29.0 (13.15)				50.0 (15.24)						50.0 (15.24)					50.0 (15.24)	
60.0 (18.29)	28.7 (13.02)	28.5 (12.93)	28.2 (12.79)	27.6 (12.52)		60.0 (18.29)						60.0 (18.29)					60.0 (18.29)	
70.0 (21.34)	28.1 (12.75)	28.1 (12.75)	27.8 (12.61)	27.2 (12.34)	26.6 (12.07)	70.0 (21.34)	27.4 (12.43)					70.0 (21.34)					70.0 (21.34)	
80.0 (24.38)	27.5 (12.47)	27.6 (12.52)	27.4 (12.43)	27.0 (12.25)	26.3 (11.93)	80.0 (24.38)	25.6 (11.61)	26.7 (12.11)	26.5 (12.02)			80.0 (24.38)					80.0 (24.38)	
90.0 (27.43)	26.0 (11.79)	27.2 (12.34)	27.0 (12.25)	26.6 (12.07)	26.0 (11.79)	90.0 (27.43)	24.0 (10.89)	25.3 (11.48)	25.9 (11.75)	25.8 (11.70)	25.0 (11.34)	90.0 (27.43)					90.0 (27.43)	
100.0 (30.48)	24.3 (11.02)	26.8 (12.16)	26.7 (12.11)	26.4 (11.97)	25.7 (11.66)	100.0 (30.48)	22.5 (10.21)	24.0 (10.89)	24.8 (11.25)	25.3 (11.48)	24.8 (11.25)	100.0 (30.48)	18.9 (8.57)				100.0 (30.48)	
110.0 (33.53)	22.7 (10.30)	25.4 (11.52)	26.4 (11.97)	26.1 (11.84)	25.5 (11.57)	110.0 (33.53)	21.1 (9.57)	22.8 (10.34)	23.7 (10.75)	24.3 (11.02)	24.6 (11.16)	110.0 (33.53)	17.3 (7.85)	18.3 (8.30)	17.8 (8.07)		110.0 (33.53)	
120.0 (36.58)	21.3 (9.66)	24.0 (10.89)	25.6 (11.61)	25.8 (11.70)	25.2 (11.43)	120.0 (36.58)	19.8 (8.98)	21.7 (9.84)	22.7 (10.30)	23.4 (10.61)	23.8 (10.80)	120.0 (36.58)	16.0 (7.26)	17.1 (7.76)	17.8 (8.07)	16.6 (7.53)	15.5 (7.03)	120.0 (36.58)
130.0 (39.62)	19.9 (9.03)	22.8 (10.34)	24.5 (11.11)	25.6 (11.61)	25.1 (11.39)	130.0 (39.62)	18.6 (8.44)	20.6 (9.34)	21.7 (9.84)	22.5 (10.21)	23.0 (10.43)	130.0 (39.62)	14.8 (6.71)	16.1 (7.30)	16.8 (7.62)	16.6 (7.53)	15.4 (6.99)	130.0 (39.62)
140.0 (42.67)	18.7 (8.48)	21.6 (9.80)	23.4 (10.61)	24.7 (11.20)	24.8 (11.25)	140.0 (42.67)	17.5 (7.94)	19.6 (8.89)	20.8 (9.43)	21.7 (9.84)	22.2 (10.07)	140.0 (42.67)	13.8 (6.26)	15.1 (6.85)	15.9 (7.21)	16.5 (7.48)	15.4 (6.99)	140.0 (42.67)
150.0 (45.72)	17.6 (7.98)	20.5 (9.30)	22.3 (10.12)	23.7 (10.75)	24.6 (11.16)	150.0 (45.72)	16.5 (7.48)	18.7 (8.48)	19.9 (9.03)	20.9 (9.48)	21.5 (9.75)	150.0 (45.72)	12.9 (5.85)	14.3 (6.49)	15.1 (6.85)	15.8 (7.17)	15.3 (6.94)	150.0 (45.72)
160.0 (48.77)	16.5 (7.48)	19.5 (8.85)	21.4 (9.71)	22.8 (10.34)	23.8 (10.80)	160.0 (48.77)	15.6 (7.08)	17.8 (8.07)	19.1 (8.66)	20.1 (9.12)	20.8 (9.43)	160.0 (48.77)	12.1 (5.49)	13.5 (6.12)	14.4 (6.53)	15.1 (6.85)	15.3 (6.94)	160.0 (48.77)
170.0 (51.82)	15.5 (7.03)	18.5 (8.39)	20.4 (9.25)	21.9 (9.93)	23.0 (10.43)	170.0 (51.82)	14.8 (6.71)	17.0 (7.71)	18.3 (8.30)	19.4 (8.80)	20.1 (9.12)	170.0 (51.82)	11.4 (5.17)	12.9 (5.85)	13.7 (6.21)	14.5 (6.58)	15.0 (6.80)	170.0 (51.82)
180.0 (54.86)	14.7 (6.67)	17.6 (7.98)	19.5 (8.85)	21.1 (9.57)	22.2 (10.07)	180.0 (54.86)	14.0 (6.35)	16.2 (7.35)	17.6 (7.98)	18.7 (8.48)	19.5 (8.85)	180.0 (54.86)	10.9 (4.94)	12.3 (5.58)	13.1 (5.94)	13.9 (6.30)	14.5 (6.58)	180.0 (54.86)
190.0 (57.91)	13.9 (6.30)	16.8 (7.62)	18.7 (8.48)	20.3 (9.21)	21.5 (9.75)	190.0 (57.91)	13.4 (6.08)	15.5 (7.03)	16.9 (7.67)	18.0 (8.16)	18.9 (8.57)	190.0 (57.91)	10.4 (4.72)	11.7 (5.31)	12.6 (5.72)	13.3 (6.03)	13.9 (6.30)	190.0 (57.91)
200.0 (60.96)	13.2 (5.99)	16.0 (7.26)	17.9 (8.12)	19.5 (8.85)	19.2 (8.71)	200.0 (60.96)	12.9 (5.85)	14.9 (6.76)	16.3 (7.39)	17.4 (7.89)	18.3 (8.30)	200.0 (60.96)	10.1 (4.58)	11.2 (5.08)	12.1 (5.49)	12.8 (5.81)	13.5 (6.12)	200.0 (60.96)
210.0 (64.01)		15.2 (6.89)	17.1 (7.76)	18.8 (8.53)	17.1 (7.76)	210.0 (64.01)		14.3 (6.49)	15.7 (7.12)	16.8 (7.62)	17.7 (8.03)	210.0 (64.01)		10.8 (4.90)	11.7 (5.31)	12.4 (5.62)	13.0 (5.90)	210.0 (64.01)
220.0 (67.06)		14.6 (6.62)	16.4 (7.44)	17.7 (8.03)	15.2 (6.89)	220.0 (67.06)		13.7 (6.21)	15.1 (6.85)	16.2 (7.35)	16.7 (7.57)	220.0 (67.06)		10.5 (4.76)	11.3 (5.13)	12.0 (5.44)	12.6 (5.72)	220.0 (67.06)
230.0 (70.10)		13.9 (6.30)	15.8 (7.17)	16.0 (7.26)	13.5 (6.12)	230.0 (70.10)		13.3 (6.03)	14.6 (6.62)	15.7 (7.12)	14.9 (6.76)	230.0 (70.10)		10.2 (4.63)	10.9 (4.94)	11.6 (5.26)	12.2 (5.53)	230.0 (70.10)
240.0 (73.15)		13.4 (6.08)	15.2 (6.89)	14.5 (6.58)	12.0 (5.44)	240.0 (73.15)		14.1 (6.40)	15.2 (6.89)	13.2 (5.99)		240.0 (73.15)		10.0 (4.54)	10.6 (4.81)	11.2 (5.08)	11.8 (5.35)	240.0 (73.15)
250.0 (76.20)		13.0 (5.90)	14.6 (6.62)	13.1 (5.94)	10.6 (4.81)	250.0 (76.20)		13.7 (6.21)	13.9 (6.30)	11.7 (5.31)		250.0 (76.20)			10.3 (4.67)	10.9 (4.94)	10.9 (4.94)	250.0 (76.20)
260.0 (79.25)			14.1 (6.40)	11.8 (5.35)	9.3 (4.22)	260.0 (79.25)		13.3 (6.03)	12.5 (5.67)	10.3 (4.67)		260.0 (79.25)			10.1 (4.58)	10.6 (4.81)	9.5 (4.31)	260.0 (79.25)
270.0 (82.30)			13.0 (5.90)	10.6 (4.81)	8.0 (3.63)	270.0 (82.30)		12.9 (5.85)	11.2 (5.08)	9.0 (4.08)		270.0 (82.30)			9.9 (4.49)	10.4 (4.72)	8.2 (3.72)	270.0 (82.30)
280.0 (85.34)			11.9 (5.40)	9.4 (4.26)	6.9 (3.13)	280.0 (85.34)		12.1 (5.49)	10.0 (4.54)	7.8 (3.54)		280.0 (85.34)				10.2 (4.63)	6.9 (3.13)	280.0 (85.34)
290.0 (88.39)			10.9 (4.94)	8.4 (3.81)	5.9 (2.68)	290.0 (88.39)		10.9 (4.94)	8.9 (4.04)	6.7 (3.04)		290.0 (88.39)				9.7 (4.40)	5.7 (2.59)	290.0 (88.39)
300.0 (91.44)				7.4 (3.36)	4.8 (2.18)	300.0 (91.44)			7.8 (3.54)	5.6 (2.54)		300.0 (91.44)				8.5 (3.86)	4.6 (2.09)	300.0 (91.44)
310.0 (94.49)				6.5 (2.95)	3.6 (1.63)	310.0 (94.49)			6.8 (3.08)	4.4 (2.00)		310.0 (94.49)					3.6 (1.63)	310.0 (94.49)
320.0 (97.54)				5.7 (2.59)	2.6 (1.18)	320.0 (97.54)			5.9 (2.68)	3.2 (1.45)		320.0 (97.54)						320.0 (97.54)

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