

Operation

MB

		45,000 lb +  20,000 lb				 17'10"				 20 mph				360°				ASME B30.5			
		37.7 ft				50.7 ft				63.6 ft											
		0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°								
ft		1,000 lb												ft							
10	160.0	160.0	160.0	145.4	111.6	111.6	111.6	110.5	98.6	98.6	98.5	77.1	10								
12	160.0	160.0	160.0	143.1	111.6	111.6	111.6	110.5	97.2	97.2	97.2	77.1	12								
15	140.3	140.3	140.3	112.0	111.6	111.6	111.6	103.0	95.5	95.3	91.2	77.1	15								
20	113.8	107.1	101.0	80.5	110.2	101.5	93.7	71.9	81.7	78.7	75.9	72.1	20								
25	79.1	76.0	73.0	61.9	76.5	71.9	67.7	53.1	68.9	66.8	63.8	57.2	25								
30	59.9	58.5	57.1	49.2	57.4	54.7	52.2	40.6	55.8	52.4	49.2	45.0	30								
35	-	-	-	-	45.2	43.5	42.0	35.3	43.8	41.5	39.4	36.4	35								
40	-	-	-	-	37.4	37.4	37.4	28.6	36.2	36.2	36.2	35.7	40								
45	-	-	-	-	-	-	-	-	34.8	33.6	32.5	30.9	45								
50	-	-	-	-	-	-	-	-	30.0	29.2	28.4	27.2	50								
55	-	-	-	-	-	-	-	-	26.2	25.7	25.2	24.5	55								

		76.5 ft				89.4 ft				102.3 ft					
		0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°		
ft		1,000 lb												ft	
10	96.1	96.1	81.8	59.6	-	-	-	-	-	-	-	-	-	10	
12	96.1	91.3	81.8	59.6	-	-	-	-	-	-	-	-	-	12	
15	76.9	76.9	75.9	59.6	75.5	70.3	63.3	46.9	32.1	32.1	32.1	32.1	15		
20	69.5	66.2	63.2	59.2	61.7	58.1	55.0	46.9	37.2	37.2	37.2	36.9	20		
25	58.4	56.1	53.9	50.9	51.8	49.2	46.9	43.8	37.2	37.2	37.2	36.9	25		
30	50.1	48.4	46.8	43.2	44.4	42.4	40.7	38.3	37.2	37.2	36.8	34.3	30		
35	43.6	41.2	38.6	35.2	38.5	37.0	35.6	33.8	35.5	33.9	32.4	30.4	35		
40	35.7	33.7	31.9	29.3	33.8	32.7	31.2	28.3	31.2	30.0	28.8	27.2	40		
45	29.5	28.1	26.7	25.2	29.5	27.8	26.2	24.0	27.7	26.7	25.8	24.3	45		
50	24.9	24.3	23.9	23.5	24.9	23.6	22.3	20.5	24.8	24.0	22.9	20.9	50		
55	22.9	22.6	22.4	22.0	21.2	20.2	19.2	17.8	22.2	21.0	19.8	18.2	55		
60	21.4	21.2	21.1	20.8	18.2	17.4	16.6	15.5	19.2	18.2	17.3	16.0	60		
65	20.2	20.1	20.0	19.4	15.8	15.1	14.5	13.6	16.8	15.9	15.2	14.1	65		
70	-	-	-	-	13.7	13.2	12.7	11.9	14.7	14.0	13.4	12.4	70		
75	-	-	-	-	12.0	11.6	11.2	10.6	12.9	12.3	11.8	11.1	75		
80	-	-	-	-	10.6	10.3	10.0	9.8	11.4	10.9	10.6	10.5	80		
85	-	-	-	-	-	-	-	-	10.3	10.1	10.1	9.9	85		
90	-	-	-	-	-	-	-	-	9.7	9.6	9.6	9.5	90		
95	-	-	-	-	-	-	-	-	9.2	9.2	9.2	9.2	95		

		115.3 ft				128.1 ft				141.1 ft					
		0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°		
ft		1,000 lb												ft	
20	37.2	37.2	37.2	31.0	-	-	-	-	-	-	-	-	-	20	
25	36.3	36.3	36.2	31.0	34.8	34.8	32.3	26.0	28.8	28.8	25.0	18.0	25		
30	36.2	36.1	34.1	31.0	34.4	33.9	31.8	26.0	28.8	28.2	25.0	18.0	30		
35	33.5	31.7	30.2	28.1	31.8	29.9	28.2	26.0	27.1	25.7	24.5	18.0	35		
40	29.5	28.2	26.9	25.2	28.2	26.6	25.3	23.5	24.7	23.6	22.6	18.0	40		
45	26.3	25.2	24.1	22.7	25.1	23.9	22.7	21.2	22.7	21.5	20.4	18.0	45		
50	23.6	22.6	21.8	20.6	22.5	21.5	20.6	19.3	20.5	19.4	18.5	17.3	50		
55	21.3	20.5	19.8	18.4	20.3	19.5	18.7	17.7	18.5	17.7	16.9	15.8	55		
60	19.2	18.6	17.6	16.1	18.5	17.7	17.1	16.2	16.9	16.1	15.5	14.5	60		
65	17.4	16.4	15.5	14.3	16.8	16.2	15.7	14.6	15.4	14.8	14.2	13.4	65		
70	15.3	14.5	13.8	12.9	15.3	14.8	14.2	13.8	14.1	13.5	13.1	12.4	70		
75	13.5	12.9	12.5	12.1	14.0	13.7	13.4	12.8	12.9	12.5	12.0	11.4	75		
80	12.1	11.9	11.8	11.5	13.2	13.0	12.5	11.6	11.9	11.5	11.1	10.6	80		
85	11.4	11.3	11.1	10.9	12.5	11.9	11.4	10.6	11.0	10.6	10.3	9.6	85		
90	10.8	10.7	10.6	10.4	11.3	10.8	10.3	9.6	10.1	9.8	9.4	8.7	90		
95	10.3	10.2	10.1	9.9	10.2	9.8	9.4	8.8	9.3	9.0	8.5	7.9	95		
100	9.8	9.7	9.6	9.2	9.3	8.9	8.6	8.1	8.6	8.1	7.7	7.1	100		
105	9.3	9.1	9.0	8.6	8.5	8.2	7.8	7.4	7.7	7.3	7.0	6.5	105		
110	-	-	-	-	7.7	7.5	7.2	6.8	7.0	6.6	6.3	5.9	110		
115	-	-	-	-	7.0	6.8	6.6	6.3	6.3	6.0	5.7	5.3	115		
120	-	-	-	-	6.5	6.3	6.2	5.5	5.7	5.4	5.2	4.9	120		
125	-	-	-	-	-	-	-	-	5.1	4.9	4.7	4.2	125		
130	-	-	-	-	-	-	-	-	4.6	4.4	4.2	3.6	130		

Operation

MB

30,000 lb + 20,000 lb		17'10"				20 mph				360°				ASME B30.5
37.7 ft		50.7 ft				63.6 ft								
	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°		
ft	1,000 lb												ft	
10	-	160.0	160.0	145.4	-	111.6	111.6	110.5	-	98.6	98.5	77.1	10	
12	-	160.0	160.0	143.1	-	111.6	111.6	110.5	-	97.2	97.2	77.1	12	
15	-	140.3	135.1	112.0	-	111.6	111.6	103.0	-	95.3	91.2	77.1	15	
20	-	89.8	84.6	77.6	-	84.7	78.0	69.6	-	78.7	73.0	63.4	20	
25	-	63.3	60.7	57.2	-	59.5	56.0	51.2	-	56.7	52.5	46.9	25	
30	-	48.4	47.3	-	-	45.0	42.8	39.8	-	42.7	40.1	36.5	30	
35	-	-	-	-	-	37.4	37.4	35.3	-	36.2	36.2	34.9	35	
40	-	-	-	-	-	32.4	31.5	28.6	-	32.7	31.3	29.5	40	
45	-	-	-	-	-	-	-	-	-	27.7	26.7	25.4	45	
50	-	-	-	-	-	-	-	-	-	23.9	23.2	22.2	50	
55	-	-	-	-	-	-	-	-	-	20.9	20.5	19.9	55	

76.5 ft		89.4 ft				102.3 ft							
	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°	
ft	1,000 lb												ft
10	-	96.1	81.8	59.6	-	-	-	-	-	-	-	-	10
12	-	91.3	81.8	59.6	-	-	-	-	-	-	-	-	12
15	-	76.9	75.9	59.6	-	70.3	63.3	46.9	-	32.1	32.1	32.1	15
20	-	66.2	63.2	59.2	-	58.1	55.0	46.9	-	37.2	37.2	36.9	20
25	-	55.9	51.1	44.8	-	49.2	46.9	42.7	-	37.2	37.2	36.9	25
30	-	42.4	39.2	35.1	-	41.7	38.2	33.6	-	37.2	36.8	33.4	30
35	-	33.3	31.2	29.7	-	32.9	30.4	27.2	-	33.6	30.9	27.3	35
40	-	28.6	28.0	27.2	-	26.7	24.9	22.4	-	27.5	25.4	22.7	40
45	-	26.3	25.8	24.9	-	22.0	20.6	18.8	-	22.8	21.3	19.2	45
50	-	24.0	23.1	21.8	-	18.4	17.3	15.9	-	19.2	18.0	16.3	50
55	-	21.0	20.3	19.3	-	15.5	14.7	13.6	-	16.4	15.4	14.5	55
60	-	18.6	18.0	17.2	-	13.2	12.9	12.5	-	14.2	13.9	13.4	60
65	-	16.6	16.2	15.6	-	12.1	11.9	11.7	-	13.1	12.9	12.5	65
70	-	-	-	-	-	11.2	11.1	11.0	-	12.2	12.1	11.8	70
75	-	-	-	-	-	10.5	10.4	10.3	-	11.5	11.3	11.1	75
80	-	-	-	-	-	9.9	9.9	9.8	-	10.8	10.6	10.5	80
85	-	-	-	-	-	-	-	-	-	10.1	10.1	9.8	85
90	-	-	-	-	-	-	-	-	-	9.6	9.4	9.0	90
95	-	-	-	-	-	-	-	-	-	8.9	8.7	8.5	95

115.3 ft		128.1 ft				141.1 ft							
	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°	
ft	1,000 lb												ft
20	-	37.2	37.2	31.0	-	-	-	-	-	-	-	-	20
25	-	36.3	36.2	31.0	-	34.8	32.3	26.0	-	28.8	25.0	18.0	25
30	-	36.1	34.1	31.0	-	33.9	31.8	26.0	-	28.2	25.0	18.0	30
35	-	31.7	30.2	27.0	-	29.9	28.2	26.0	-	25.7	24.5	18.0	35
40	-	27.8	25.6	22.7	-	26.6	25.3	22.5	-	23.6	22.6	18.0	40
45	-	23.3	21.5	19.2	-	23.5	21.7	19.2	-	21.5	20.4	18.0	45
50	-	19.7	18.4	16.8	-	20.0	18.6	17.7	-	19.4	18.5	16.8	50
55	-	16.9	16.2	15.6	-	17.9	17.3	15.8	-	17.7	16.4	14.6	55
60	-	15.5	15.1	14.6	-	16.4	15.3	13.9	-	15.5	14.3	12.8	60
65	-	14.4	14.1	13.6	-	14.4	13.6	12.4	-	13.5	12.6	11.3	65
70	-	13.5	13.1	12.2	-	12.7	12.0	11.0	-	11.9	11.1	10.0	70
75	-	12.3	11.8	11.0	-	11.3	10.7	9.8	-	10.5	9.8	8.9	75
80	-	11.1	10.6	9.9	-	10.1	9.6	8.8	-	9.3	8.7	7.9	80
85	-	10.0	9.6	9.0	-	9.0	8.6	7.9	-	8.2	7.7	7.0	85
90	-	9.0	8.7	8.2	-	8.1	7.7	7.1	-	7.3	6.8	6.2	90
95	-	8.2	7.9	7.5	-	7.3	6.9	6.4	-	6.5	6.1	5.5	95
100	-	7.5	7.2	6.9	-	6.5	6.2	5.8	-	5.7	5.4	4.9	100
105	-	6.8	6.7	6.4	-	5.8	5.6	5.2	-	5.0	4.7	4.3	105
110	-	-	-	-	-	5.2	5.0	4.7	-	4.4	4.1	3.6	110
115	-	-	-	-	-	4.7	4.5	4.3	-	3.8	3.5	3.1	115
120	-	-	-	-	-	4.3	4.1	3.9	-	3.2	2.9	2.6	120
125	-	-	-	-	-	-	-	-	-	2.6	2.4	2.1	125
130	-	-	-	-	-	-	-	-	-	2.2	2.0	1.8	130

Operation

MB

22,500 lb + 20,000 lb		17'10"				20 mph				360°				ASME B30.5	
37.7 ft		50.7 ft				63.6 ft									
0.5°		1.5°		2.5°		4°		0.5°		1.5°		2.5°		4°	
ft	1,000 lb													ft	
10	-	160.0	160.0	145.4	-	111.6	111.6	110.5	-	98.6	98.5	77.1	10		
12	-	160.0	160.0	143.1	-	111.6	111.6	110.5	-	97.2	97.2	77.1	12		
15	-	134.9	122.6	107.4	-	111.6	111.4	94.3	-	95.3	91.2	77.1	15		
20	-	81.2	76.4	70.1	-	76.3	70.3	62.5	-	72.6	65.5	56.9	20		
25	-	57.0	54.7	51.4	-	53.4	50.2	45.8	-	50.8	46.9	41.8	25		
30	-	43.4	42.4	40.8	-	40.1	38.2	37.4	-	38.0	36.2	36.2	30		
35	-	-	-	-	-	35.1	33.8	32.0	-	35.4	33.7	31.3	35		
40	-	-	-	-	-	28.9	28.2	27.0	-	29.3	28.1	26.4	40		
45	-	-	-	-	-	-	-	-	-	24.7	23.9	22.6	45		
50	-	-	-	-	-	-	-	-	-	21.3	20.6	19.7	50		
55	-	-	-	-	-	-	-	-	-	18.6	18.2	17.6	55		

76.5 ft		89.4 ft				102.3 ft									
0.5°		1.5°		2.5°		4°		0.5°		1.5°		2.5°		4°	
ft	1,000 lb													ft	
10	-	96.1	81.8	59.6	-	-	-	-	-	-	-	-	10		
12	-	91.3	81.8	59.6	-	-	-	-	-	-	-	-	12		
15	-	76.9	75.9	59.6	-	70.3	63.3	46.9	-	32.1	32.1	32.1	15		
20	-	66.2	63.2	53.7	-	58.1	55.0	46.9	-	37.2	37.2	36.9	20		
25	-	50.1	45.6	39.9	-	49.1	44.2	38.0	-	37.2	37.2	36.9	25		
30	-	37.7	34.8	32.6	-	37.1	33.9	29.7	-	37.2	34.2	29.7	30		
35	-	31.4	30.7	29.7	-	29.1	26.8	23.9	-	29.9	27.3	24.1	35		
40	-	28.6	27.9	25.9	-	23.4	21.8	19.5	-	24.2	22.4	19.9	40		
45	-	24.9	23.8	22.2	-	19.1	17.9	16.2	-	20.0	18.6	17.0	45		
50	-	21.4	20.6	19.4	-	15.9	15.2	14.7	-	16.7	16.2	15.6	50		
55	-	18.7	18.0	17.1	-	14.2	13.9	13.6	-	15.3	15.0	14.5	55		
60	-	16.4	15.9	15.2	-	13.1	12.9	12.5	-	14.2	13.9	13.4	60		
65	-	14.6	14.3	13.7	-	12.1	11.9	11.7	-	13.1	12.9	12.5	65		
70	-	-	-	-	-	11.2	11.1	11.0	-	12.2	12.0	11.3	70		
75	-	-	-	-	-	10.5	10.4	10.3	-	11.2	10.8	10.2	75		
80	-	-	-	-	-	9.9	9.9	9.8	-	10.1	9.7	9.2	80		
85	-	-	-	-	-	-	-	-	-	9.1	8.8	8.4	85		
90	-	-	-	-	-	-	-	-	-	8.3	8.0	7.7	90		
95	-	-	-	-	-	-	-	-	-	7.6	7.4	7.2	95		

115.3 ft		128.1 ft				141.1 ft									
0.5°		1.5°		2.5°		4°		0.5°		1.5°		2.5°		4°	
ft	1,000 lb													ft	
20	-	37.2	37.2	31.0	-	-	-	-	-	-	-	-	20		
25	-	36.3	36.2	31.0	-	34.8	32.3	26.0	-	28.8	25.0	18.0	25		
30	-	36.1	34.0	29.2	-	33.9	31.8	26.0	-	28.2	25.0	18.0	30		
35	-	30.2	27.4	23.9	-	29.9	27.2	23.6	-	25.7	24.5	18.0	35		
40	-	24.6	22.6	19.9	-	24.9	22.7	20.6	-	23.6	22.5	18.0	40		
45	-	20.5	19.0	18.2	-	20.9	20.1	18.3	-	21.0	19.2	16.9	45		
50	-	18.1	17.5	16.8	-	19.1	17.7	15.8	-	18.1	16.6	14.6	50		
55	-	16.7	16.2	15.1	-	16.5	15.3	13.8	-	15.5	14.3	12.7	55		
60	-	15.4	14.5	13.3	-	14.3	13.4	12.1	-	13.4	12.4	11.0	60		
65	-	13.6	12.8	11.8	-	12.5	11.8	10.6	-	11.7	10.8	9.6	65		
70	-	12.0	11.4	10.6	-	11.0	10.3	9.4	-	10.2	9.4	8.4	70		
75	-	10.7	10.2	9.5	-	9.7	9.1	8.4	-	8.9	8.3	7.4	75		
80	-	9.6	9.1	8.5	-	8.6	8.1	7.4	-	7.8	7.3	6.5	80		
85	-	8.6	8.2	7.7	-	7.6	7.2	6.6	-	6.8	6.3	5.7	85		
90	-	7.7	7.4	6.9	-	6.7	6.4	5.9	-	6.0	5.6	5.0	90		
95	-	6.9	6.7	6.3	-	6.0	5.7	5.2	-	5.2	4.8	4.3	95		
100	-	6.3	6.0	5.7	-	5.3	5.0	4.6	-	4.5	4.1	3.6	100		
105	-	5.7	5.5	5.3	-	4.7	4.5	4.1	-	3.8	3.4	3.0	105		
110	-	-	-	-	-	4.1	3.9	3.5	-	3.1	2.8	2.4	110		
115	-	-	-	-	-	3.6	3.4	3.1	-	2.5	2.2	1.9	115		
120	-	-	-	-	-	3.1	3.0	2.7	-	2.0	1.8	1.4	120		
125	-	-	-	-	-	-	-	-	-	1.5	1.3	*	125		
130	-	-	-	-	-	-	-	-	-	1.1	0.9	*	130		

* For explanations see page 29

Operation

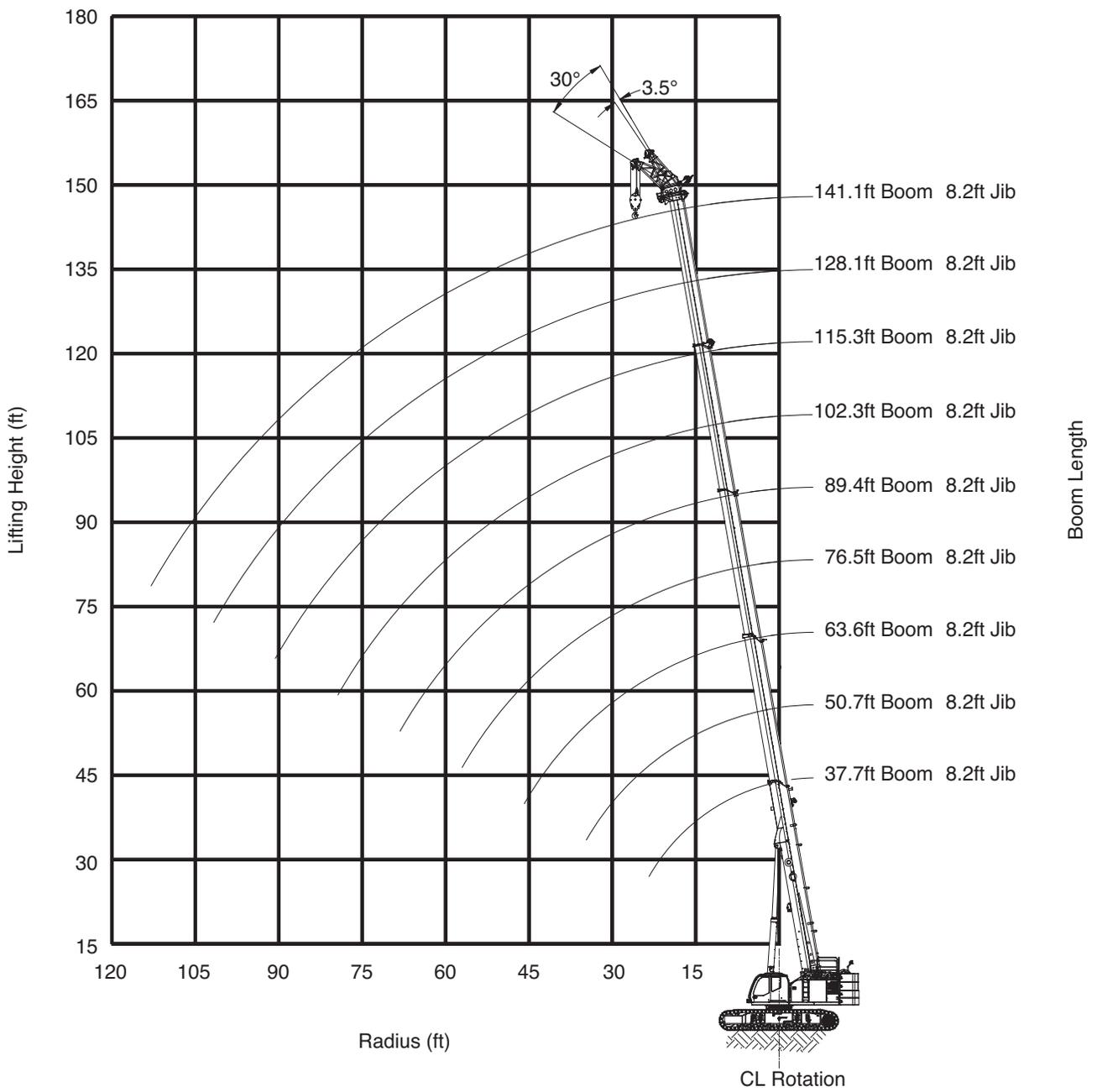
MB

15,000 lb + 20,000 lb		17'10"				20 mph				360°				ASME B30.5
37.7 ft		50.7 ft				63.6 ft								
	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°		
ft	1,000 lb												ft	
10	-	160.0	160.0	145.4	-	111.6	111.6	110.5	-	98.6	98.5	77.1	10	
12	-	160.0	160.0	137.9	-	111.6	111.6	110.5	-	97.2	97.2	77.1	12	
15	-	121.0	109.9	96.1	-	111.6	99.6	84.1	-	95.3	91.2	75.0	15	
20	-	72.5	68.2	62.4	-	67.9	62.5	55.4	-	64.4	58.0	50.2	20	
25	-	50.6	48.5	45.6	-	47.2	44.3	40.3	-	44.7	41.2	36.6	25	
30	-	38.3	37.4	36.0	-	37.4	37.3	34.7	-	36.2	36.2	33.9	30	
35	-	-	-	-	-	31.0	29.9	28.2	-	31.4	29.9	27.7	35	
40	-	-	-	-	-	25.5	24.7	23.7	-	25.9	24.8	23.2	40	
45	-	-	-	-	-	-	-	-	-	21.7	20.9	19.8	45	
50	-	-	-	-	-	-	-	-	-	18.6	18.0	17.2	50	
55	-	-	-	-	-	-	-	-	-	16.2	15.8	15.3	55	

76.5 ft		89.4 ft				102.3 ft							
	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°	
ft	1,000 lb												ft
10	-	96.1	81.8	59.6	-	-	-	-	-	-	-	-	10
12	-	91.3	81.8	59.6	-	-	-	-	-	-	-	-	12
15	-	76.9	75.9	59.6	-	70.3	63.3	46.9	-	32.1	32.1	32.1	15
20	-	63.1	56.0	47.4	-	58.1	53.7	44.6	-	37.2	37.2	36.9	20
25	-	44.2	40.1	35.0	-	43.3	38.8	33.2	-	37.2	37.2	32.9	25
30	-	33.6	33.6	32.6	-	32.5	29.5	25.8	-	33.2	29.9	25.8	30
35	-	31.4	29.7	27.1	-	25.2	23.2	20.5	-	26.0	23.8	20.8	35
40	-	26.1	24.7	22.8	-	20.1	18.6	17.7	-	20.9	19.5	18.6	40
45	-	22.0	20.9	19.5	-	17.1	16.7	16.1	-	18.3	17.7	17.0	45
50	-	18.8	18.0	16.9	-	15.5	15.2	14.7	-	16.7	16.2	15.6	50
55	-	16.3	15.7	14.9	-	14.2	13.9	13.6	-	15.3	15.0	13.8	55
60	-	14.3	13.8	13.2	-	13.1	12.9	12.5	-	13.8	13.2	12.2	60
65	-	12.7	12.3	11.8	-	12.1	11.9	11.6	-	12.2	11.6	10.8	65
70	-	-	-	-	-	11.2	11.0	10.4	-	10.8	10.3	9.6	70
75	-	-	-	-	-	10.2	9.9	9.4	-	9.6	9.2	8.6	75
80	-	-	-	-	-	9.2	9.0	8.7	-	8.6	8.2	7.7	80
85	-	-	-	-	-	-	-	-	-	7.7	7.4	7.0	85
90	-	-	-	-	-	-	-	-	-	6.9	6.7	6.4	90
95	-	-	-	-	-	-	-	-	-	6.3	6.1	5.9	95

115.3 ft		128.1 ft				141.1 ft							
	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°	0.5°	1.5°	2.5°	4°	
ft	1,000 lb												ft
20	-	37.2	37.2	31.0	-	-	-	-	-	-	-	-	20
25	-	36.3	36.3	31.0	-	34.8	32.3	26.0	-	28.8	25.0	18.0	25
30	-	33.0	29.7	25.5	-	31.9	28.6	24.5	-	28.2	25.0	18.0	30
35	-	26.4	23.9	21.6	-	25.9	23.9	22.1	-	25.5	23.0	18.0	35
40	-	21.6	20.8	19.7	-	22.8	21.2	18.6	-	21.3	19.3	16.7	40
45	-	19.7	19.0	17.2	-	19.5	17.9	15.8	-	18.0	16.4	14.2	45
50	-	17.7	16.5	14.9	-	16.6	15.3	13.6	-	15.3	14.0	12.2	50
55	-	15.3	14.3	13.0	-	14.2	13.2	11.8	-	13.1	12.0	10.5	55
60	-	13.3	12.5	11.4	-	12.3	11.4	10.2	-	11.3	10.4	9.1	60
65	-	11.6	11.0	10.1	-	10.6	9.9	8.9	-	9.8	9.0	7.8	65
70	-	10.2	9.7	8.9	-	9.3	8.7	7.8	-	8.4	7.7	6.8	70
75	-	9.0	8.6	7.9	-	8.1	7.6	6.8	-	7.3	6.7	5.8	75
80	-	8.0	7.6	7.1	-	7.1	6.6	6.0	-	6.3	5.8	5.0	80
85	-	7.1	6.8	6.3	-	6.2	5.8	5.2	-	5.4	4.9	4.3	85
90	-	6.3	6.0	5.6	-	5.4	5.1	4.6	-	4.6	4.2	3.5	90
95	-	5.6	5.4	5.0	-	4.7	4.4	3.9	-	3.8	3.4	2.8	95
100	-	5.0	4.8	4.5	-	4.1	3.8	3.3	-	3.0	2.7	2.2	100
105	-	4.5	4.4	4.1	-	3.4	3.1	2.8	-	2.4	2.1	*	105
110	-	-	-	-	-	2.8	2.6	2.3	-	*	*	*	110
115	-	-	-	-	-	2.3	2.1	1.8	-	*	*	*	115
120	-	-	-	-	-	1.9	1.7	1.5	-	*	*	*	120
125	-	-	-	-	-	-	-	-	-	*	*	*	125
130	-	-	-	-	-	-	-	-	-	*	*	*	130

* For explanations see page 29

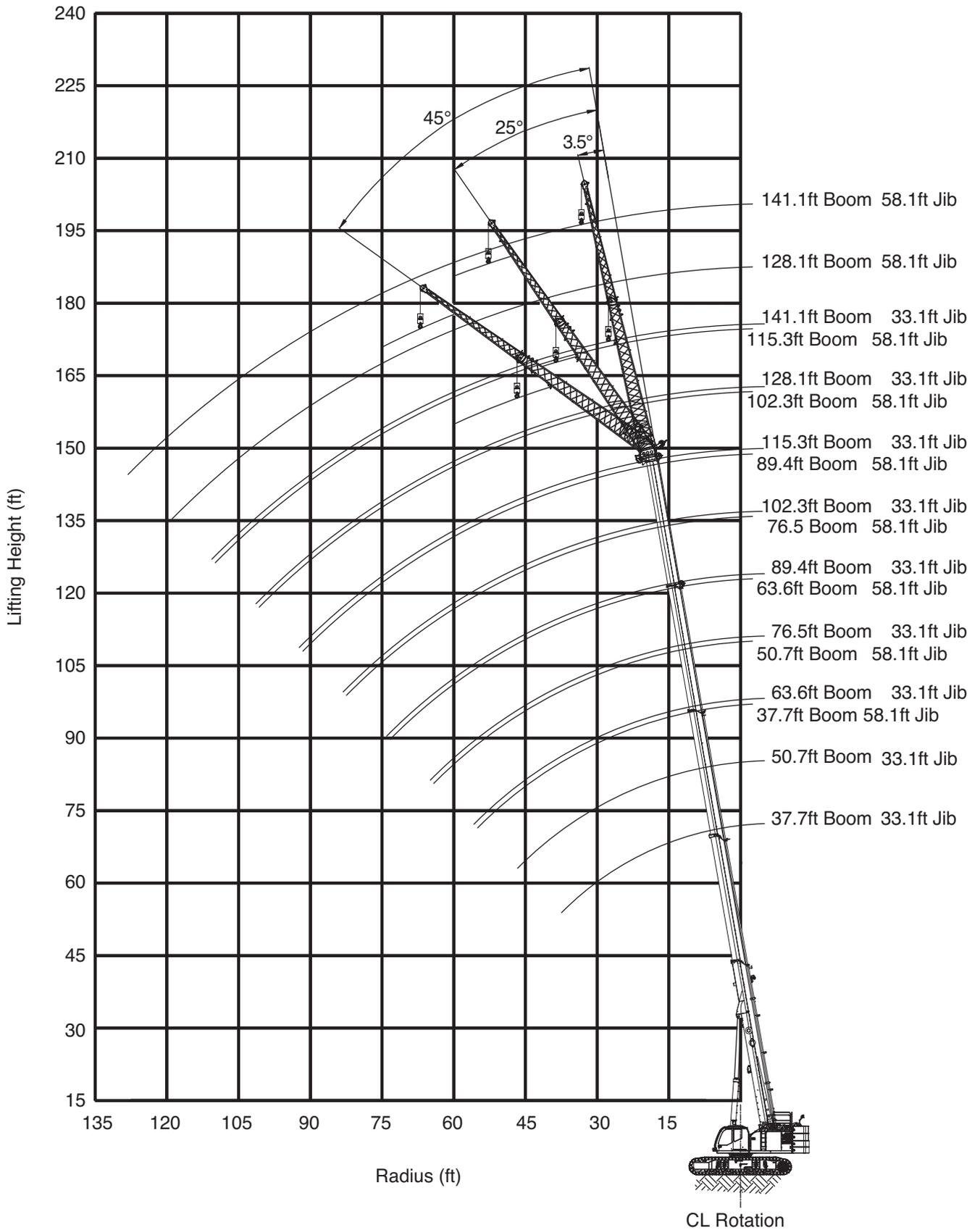


Operation

Tracks fully extended – 360° – Up to 0.5° slope – Heavy lift jib

		37.7 ft		102.3 ft		115.3 ft		128.1 ft		141.1 ft		
		3.5°	30°	3.5°	30°	3.5°	30°	3.5°	30°	3.5°	30°	
ft		1,000 lb										ft
10	47.8	36.8	-	-	-	-	-	-	-	-	-	10
12	45.9	35.8	-	-	-	-	-	-	-	-	-	12
15	43.3	34.7	-	-	-	-	-	-	-	-	-	15
20	39.9	33.2	29.7	28.1	-	-	-	-	-	-	-	20
25	37.4	32.3	26.9	25.8	28.0	26.6	28.2	-	-	-	-	25
30	35.7	32.2	23.4	22.6	24.6	23.5	25.5	24.2	23.3	-	-	30
35	35.1	32.2	20.6	20.0	21.8	21.0	22.9	21.8	23.3	22.4	-	35
40	-	-	18.4	17.9	19.6	19.0	20.6	19.8	21.4	20.4	-	40
45	-	-	16.5	16.1	17.7	17.2	18.8	18.1	19.6	18.8	-	45
50	-	-	14.9	14.7	16.1	15.7	17.2	16.6	18.0	17.3	-	50
55	-	-	13.6	13.4	14.8	14.5	15.8	15.4	16.6	16.1	-	55
60	-	-	12.4	12.3	13.6	13.3	14.6	14.2	15.4	15.0	-	60
65	-	-	11.4	11.3	12.6	12.4	13.5	13.2	14.3	14.0	-	65
70	-	-	10.6	10.5	11.7	11.5	12.6	12.4	13.0	13.1	-	70
75	-	-	9.8	9.7	10.8	10.7	11.8	11.6	11.9	12.0	-	75
80	-	-	9.1	9.0	10.1	10.0	11.0	10.9	10.9	11.0	-	80
85	-	-	8.5	8.4	9.5	9.4	10.4	10.2	10.0	10.1	-	85
90	-	-	7.9	7.9	8.9	8.8	9.7	9.7	9.1	9.2	-	90
95	-	-	7.4	-	8.4	8.3	9.2	9.1	8.4	8.4	-	95
100	-	-	7.0	-	7.9	7.9	8.7	8.6	7.7	7.8	-	100
105	-	-	-	-	7.5	-	7.9	8.0	7.1	7.1	-	105
110	-	-	-	-	7.1	-	7.1	7.2	6.4	6.5	-	110
115	-	-	-	-	6.8	-	6.5	6.5	5.7	5.8	-	115
120	-	-	-	-	-	-	5.8	-	5.1	5.1	-	120
125	-	-	-	-	-	-	5.3	-	4.4	4.5	-	125
130	-	-	-	-	-	-	-	-	3.8	-	-	130
135	-	-	-	-	-	-	-	-	3.2	-	-	135
140	-	-	-	-	-	-	-	-	2.7	-	-	140
	4	4	2	2	2	2	2	2	2	2	2	

Load chart data is for reference, load charts supplied in the crane cab shall be used for lift planning.



Operation

Tracks fully extended – 360° – Up to 0.5° slope – Folding jib

45,000 lb + 20,000 lb 17'10" 0.5° 33.1 ft 20 mph 360° ASME B30.5																	
37.7 ft			102.3 ft			115.3 ft			128.1 ft			141.1 ft					
	3.5°	25°	45°	3.5°	25°	45°	3.5°	25°	45°	3.5°	25°	45°	3.5°	25°	45°		
ft	1,000 lb															ft	
10	14.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
12	14.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
15	14.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15
20	14.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
25	14.6	14.6	-	14.6	-	-	-	-	-	-	-	-	-	-	-	-	25
30	14.6	14.3	11.9	14.6	-	-	14.6	-	-	-	-	-	-	-	-	-	30
35	14.6	13.2	11.2	14.6	14.6	-	14.6	-	-	14.6	-	-	13.5	-	-	-	35
40	14.6	12.2	10.7	14.6	14.6	-	14.6	14.6	-	14.6	-	-	13.5	-	-	-	40
45	13.7	11.4	10.2	14.6	13.7	11.1	14.6	13.7	-	14.6	13.5	-	13.5	-	-	-	45
50	12.5	10.8	9.9	13.5	12.7	10.8	13.8	12.7	10.9	14.0	12.7	10.9	13.5	12.5	-	-	50
55	11.6	10.3	9.8	12.4	11.7	10.5	12.8	11.8	10.6	13.0	11.9	10.7	13.0	11.8	10.7	-	55
60	10.8	10.0	-	11.4	10.8	10.3	11.8	11.0	10.3	12.1	11.1	10.4	12.1	11.1	10.3	-	60
65	-	-	-	10.6	10.1	9.9	11.0	10.3	10.0	11.3	10.4	10.0	11.3	10.4	9.9	-	65
70	-	-	-	9.9	9.4	9.2	10.3	9.7	9.4	10.6	9.9	9.5	10.6	9.9	9.4	-	70
75	-	-	-	9.2	8.8	8.7	9.6	9.1	8.9	9.9	9.3	9.0	10.0	9.3	8.9	-	75
80	-	-	-	8.6	8.3	8.2	9.0	8.6	8.4	9.3	8.8	8.5	9.5	8.8	8.5	-	80
85	-	-	-	8.0	7.8	7.7	8.5	8.1	8.0	8.8	8.3	8.1	8.9	8.4	8.1	-	85
90	-	-	-	7.6	7.4	7.3	8.0	7.7	7.5	8.3	7.9	7.7	8.5	8.0	7.8	-	90
95	-	-	-	7.1	6.9	6.9	7.6	7.3	7.2	7.9	7.5	7.4	8.1	7.6	7.4	-	95
100	-	-	-	6.7	6.6	6.5	7.2	6.9	6.8	7.5	7.2	7.0	7.7	7.3	7.1	-	100
105	-	-	-	6.3	6.2	-	6.8	6.6	6.5	7.1	6.8	6.7	7.3	7.0	6.8	-	105
110	-	-	-	6.0	5.9	-	6.5	6.3	6.2	6.8	6.5	6.4	7.0	6.7	6.5	-	110
115	-	-	-	5.7	5.6	-	6.1	6.0	6.0	6.5	6.3	6.2	6.7	6.4	6.3	-	115
120	-	-	-	5.4	5.4	-	5.9	5.7	-	6.2	6.0	5.9	6.1	6.1	6.0	-	120
125	-	-	-	5.2	-	-	5.6	5.5	-	5.9	5.8	5.7	5.6	5.9	5.8	-	125
130	-	-	-	-	-	-	5.4	5.3	-	5.7	5.6	-	5.0	5.4	5.6	-	130
135	-	-	-	-	-	-	5.2	5.1	-	5.3	5.3	-	4.5	4.9	5.0	-	135
140	-	-	-	-	-	-	5.0	-	-	4.8	5.0	-	4.0	4.4	-	-	140
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		

Load chart data is for reference, load charts supplied in the crane cab shall be used for lift planning.

Operation

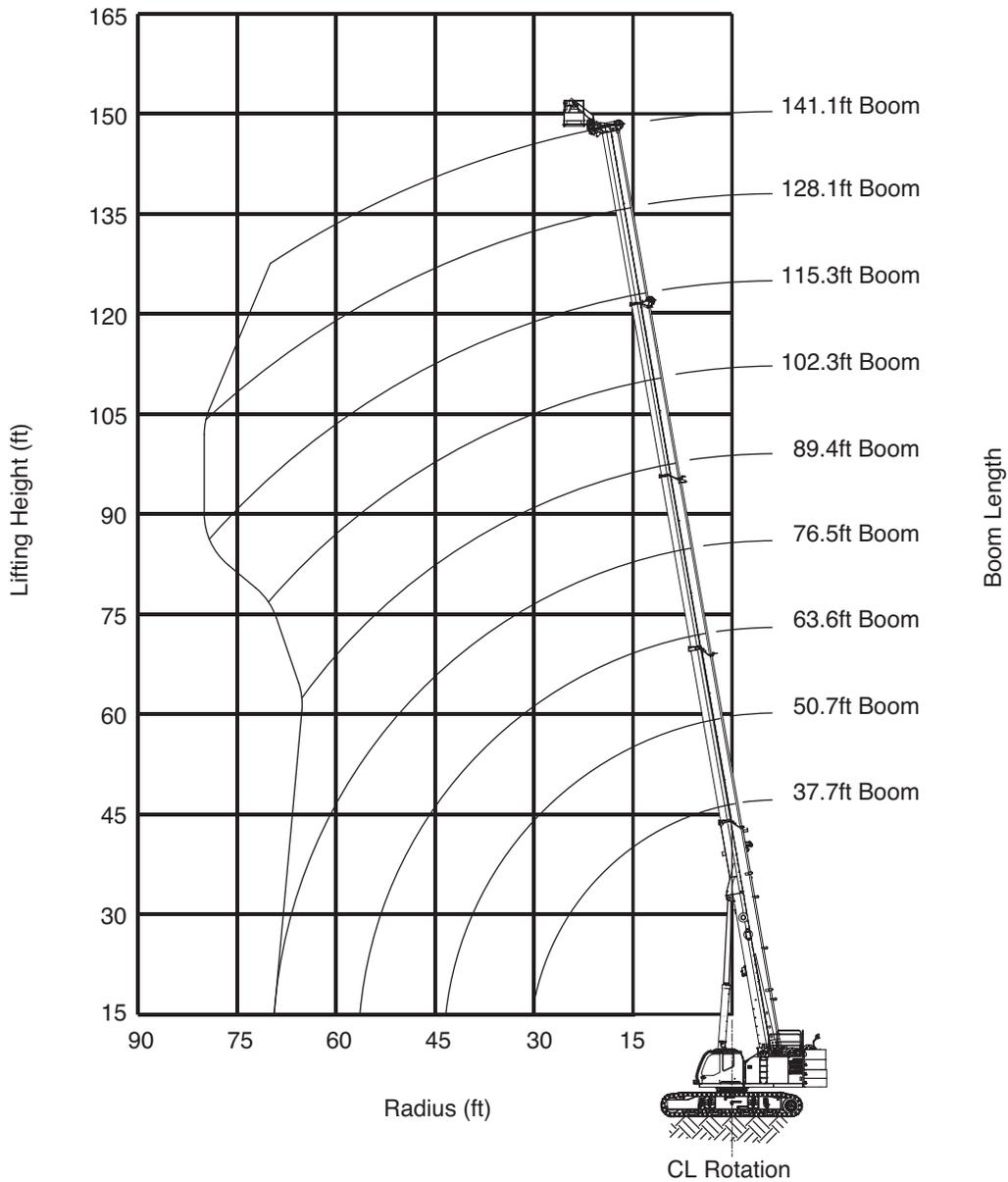


Tracks fully extended – 360° – Up to 0.5° slope – Folding jib

45,000 lb + 20,000 lb 17'10" 0.5° 58.1 ft 20 mph 360° ASME B30.5																					
37.7 ft			102.3 ft			115.3 ft			128.1 ft			141.1 ft									
3.5°	25°	45°	3.5°	25°	45°	3.5°	25°	45°	3.5°	25°	45°	3.5°	25°	45°	3.5°	25°	45°	3.5°	25°	45°	
1,000 lb																					
ft																ft					
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15
20	9.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
25	9.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25
30	9.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30
35	9.9	-	-	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35
40	9.1	8.1	-	7.5	-	-	7.2	-	-	6.9	-	-	-	-	-	-	-	-	-	-	40
45	8.3	7.6	-	7.5	-	-	7.2	-	-	6.9	-	-	6.7	-	-	-	-	-	-	-	45
50	7.6	7.1	-	7.5	-	-	7.2	-	-	6.9	-	-	6.7	-	-	-	-	-	-	-	50
55	7.1	6.7	5.7	7.5	7.5	-	7.2	7.2	-	6.9	-	-	6.7	-	-	-	-	-	-	-	55
60	6.6	6.2	5.4	7.5	7.3	-	7.2	7.2	-	6.9	6.9	-	6.7	-	-	-	-	-	-	-	60
65	6.1	5.8	5.2	7.5	7.0	5.6	7.2	7.1	-	6.9	6.9	-	6.7	6.7	-	-	-	-	-	-	65
70	5.8	5.4	4.9	7.5	6.8	5.4	7.2	6.9	5.4	6.9	6.9	-	6.7	6.7	-	-	-	-	-	-	70
75	5.4	5.1	4.7	7.4	6.5	5.2	7.2	6.6	5.3	6.9	6.7	5.3	6.7	6.7	-	-	-	-	-	-	75
80	5.2	4.8	4.6	7.1	6.2	5.1	7.2	6.4	5.2	6.9	6.5	5.2	6.7	6.6	5.2	-	-	-	-	-	80
85	4.9	4.7	-	6.8	6.0	5.0	6.9	6.1	5.0	6.9	6.2	5.0	6.7	6.3	5.1	-	-	-	-	-	85
90	-	-	-	6.5	5.7	4.8	6.7	5.9	4.9	6.9	6.0	4.9	6.7	6.1	5.0	-	-	-	-	-	90
95	-	-	-	6.1	5.5	4.7	6.4	5.7	4.8	6.6	5.8	4.8	6.7	5.9	4.8	-	-	-	-	-	95
100	-	-	-	5.8	5.3	4.6	6.0	5.5	4.7	6.3	5.6	4.7	6.4	5.7	4.8	-	-	-	-	-	100
105	-	-	-	5.4	5.2	4.5	5.7	5.3	4.6	5.9	5.4	4.6	6.0	5.6	4.7	-	-	-	-	-	105
110	-	-	-	5.1	5.0	4.5	5.4	5.1	4.5	5.6	5.3	4.5	5.8	5.4	4.6	-	-	-	-	-	110
115	-	-	-	4.8	4.7	4.4	5.1	5.0	4.4	5.4	5.1	4.5	5.5	5.2	4.5	-	-	-	-	-	115
120	-	-	-	4.6	4.5	4.3	4.9	4.7	4.3	5.1	4.9	4.4	5.2	4.9	4.4	-	-	-	-	-	120
125	-	-	-	4.3	4.3	4.3	4.6	4.5	4.3	4.8	4.7	4.3	5.0	4.7	4.3	-	-	-	-	-	125
130	-	-	-	4.1	4.1	4.1	4.4	4.3	4.2	4.6	4.5	4.3	4.8	4.5	4.3	-	-	-	-	-	130
135	-	-	-	3.9	3.9	-	4.2	4.1	4.1	4.4	4.3	4.2	4.5	4.3	4.2	-	-	-	-	-	135
140	-	-	-	3.7	3.7	-	4.0	3.9	3.9	4.2	4.1	4.0	4.4	4.2	4.1	-	-	-	-	-	140
145	-	-	-	3.5	3.5	-	3.8	3.7	-	4.0	3.9	3.9	4.2	4.0	3.9	-	-	-	-	-	145
150	-	-	-	3.4	-	-	3.7	3.6	-	3.9	3.7	3.7	3.7	3.8	3.8	-	-	-	-	-	150
160	-	-	-	-	-	-	3.4	3.3	-	3.6	3.5	-	2.9	3.4	3.5	-	-	-	-	-	160
170	-	-	-	-	-	-	-	-	-	3.0	3.2	-	2.1	2.5	3.3	-	-	-	-	-	170
180	-	-	-	-	-	-	-	-	-	-	-	-	1.5	1.7	-	-	-	-	-	-	180
190	-	-	-	-	-	-	-	-	-	-	-	-	0.9	-	-	-	-	-	-	-	190
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

Load chart data is for reference, load charts supplied in the crane cab shall be used for lift planning.

WP750 Work platform



Shaded area is allowable operating range!

Limits of operation:

Max. load capacity = 750 lb · Max. radius when mounted on main boom = 80 ft · Max. occupancy = 2 persons

Notes:

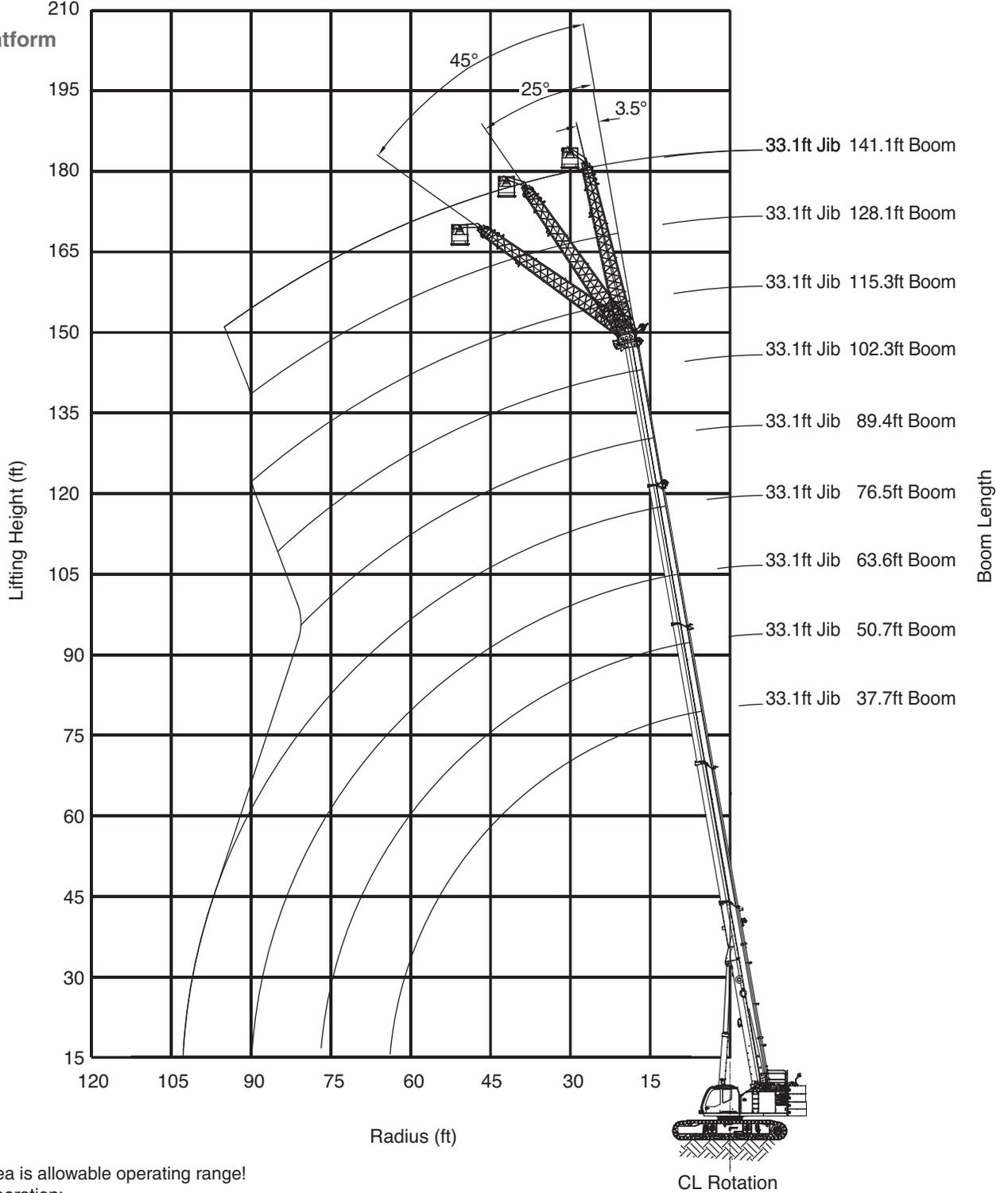
1. It is permissible to leave the jibs stowed on the boom while operating with work platform mounted to the main boom.
2. The hook block(s) must be removed when using the work platform.

WARNING: Lifting a load during work platform operation is **not** allowed.

WARNING: Travelling the crane with person(s) in the work platform is **not** allowed.

Operation

WP750
Work platform



Shaded area is allowable operating range!

Limits of operation:

Max. load capacity = 750 lb · Max. radius when mounted on jib = 100 ft · Max. occupancy = 2 persons

Notes:

1. It is permissible to leave the jib section stowed on the boom while operating with work platform mounted to the 33.1 ft jib.
2. The hook block(s) must be removed when using the work platform.

WARNING: Lifting a load during work platform operation is *not* allowed.

WARNING: Travelling the crane with person(s) in the work platform is *not* allowed.

Notes to Lifting Capacity

Definitions and Explanations

- Load capacity values in these charts are stated in lb x 1000.
- All ratings are for 360° of rotation unless otherwise specified on the chart.
- Load radius is defined as the horizontal distance from the axis of rotation (with no load) to the center of the lifting device after load is applied in feet (ft).
- Boom height dimensions are measured from ground to center of lower boom head sheave in feet (ft).
- Boom angle / boom length relationships given are an approximation of the resulting load radius, which should be an accurate measurement.
- Boom angle is the included angle between the longitudinal axis of the boom base section and the horizontal axis, after lifting load. The boom angle before lifting should be slightly greater than desired to account for boom deflection.
- Boom positions without rated loads in the charts are prohibited. These areas are indicated by an “*” and are susceptible to instability either in the forward direction or the backwards direction.
- It is acceptable to telescope boom with a load within the limits of rated capacities. However, boom angle, system hydraulic pressure, and/or boom lubrication may affect operation.
- Deduct the weight of the hook block, hook/ball, slings, spreader bar, or other suspended equipment from the listed rated capacities. This includes lifting accessories stowed on the boom such as jib, extension, and auger.
- Unless otherwise noted, travelling in low speed is allowed for all rated loads- reduce travel speed to minimize dynamic effects on the crane from swinging load, side loading, etc.
- This crane as originally manufactured meets the requirements of ASME B30.5 2014. Structure and stability have been tested in accordance with SAE J1063 and SAE J765.

Note

Data published herein is intended as a guide only and shall not be construed to warrant applicability for lifting purposes. Crane operation is subject to the computer charts and operation manual both supplied with the crane.