

NOTE: Boom geometry shown is for unloaded condition and machine standing level on firm supporting surface. Boom deflection and subsequent radius and boom angle change must be accounted for when applying load to hook. When boom length is same as telescoping mode 1 and 2, it show large load.

Operation

Fully extended – 360° – SMART CW1

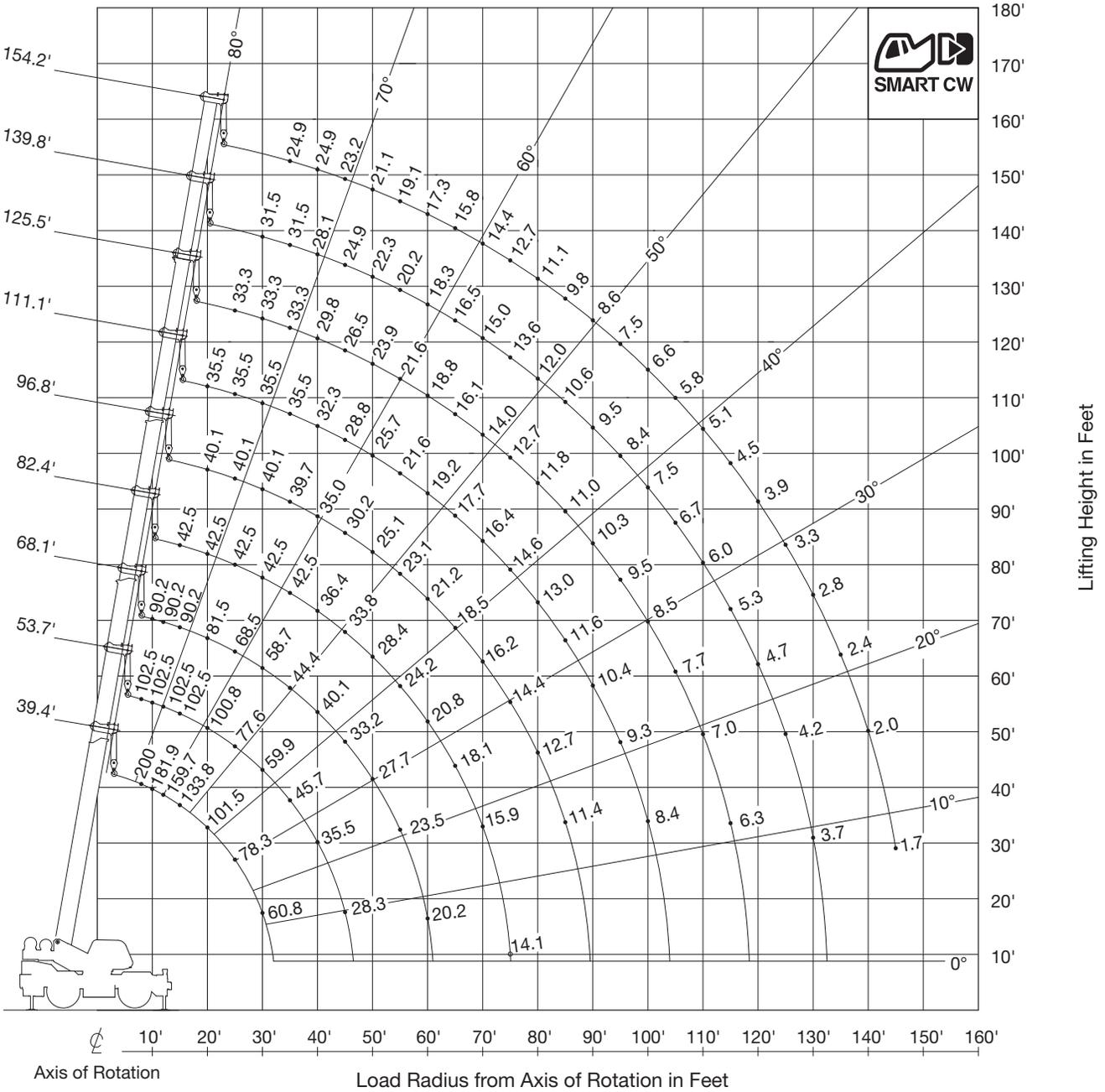
20,100 lb		23' 11-3/8" spread										360°						
		39.4'	53.7'	68.1'	68.1'	82.4'	82.4'	96.8'	96.8'	111.1'	111.1'	125.5'	125.5'	139.8'	139.8'	154.2'		
ft		1,000 lb															ft	
8	200,000	102,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	
10	180,000	102,500	90,200	40,100	-	-	-	-	-	-	-	-	-	-	-	-	10	
12	157,900	102,500	90,200	40,100	-	-	-	-	-	-	-	-	-	-	-	-	12	
15	132,300	102,500	90,200	40,100	42,500	35,500	-	-	-	-	-	-	-	-	-	-	15	
20	99,900	99,300	81,500	40,100	42,500	35,500	40,100	33,300	35,500	32,200	-	-	-	-	-	-	20	
25	77,100	76,300	68,500	40,100	42,500	35,500	40,100	33,300	35,500	32,200	33,300	32,200	-	-	-	-	25	
30	59,600	58,600	57,900	40,100	42,500	35,500	40,100	33,300	35,500	32,200	33,300	28,800	31,500	28,900	-	-	30	
35	-	44,200	42,900	40,100	42,500	35,500	39,700	33,300	35,500	30,800	33,300	25,500	31,500	27,200	24,900	-	35	
40	-	34,300	33,200	39,400	35,200	35,500	35,000	30,500	32,300	27,600	29,800	22,800	28,100	24,500	24,900	-	40	
45	-	27,200	26,300	32,200	28,200	32,800	29,200	27,600	28,800	24,900	26,500	20,700	24,900	22,200	23,200	-	45	
50	-	-	21,200	26,800	23,000	27,400	24,000	25,100	24,800	22,700	23,900	18,800	22,300	20,300	21,100	-	50	
55	-	-	17,300	22,700	19,100	23,400	20,100	23,100	20,800	20,800	21,300	17,300	20,200	18,700	19,100	-	55	
60	-	-	14,300	19,500	15,900	20,100	16,900	20,400	17,600	19,200	18,100	15,900	18,300	17,300	17,300	-	60	
65	-	-	-	13,400	17,400	14,400	17,800	15,000	17,700	15,500	14,800	15,900	16,100	15,800	-	-	65	
70	-	-	-	11,200	15,300	12,200	15,600	12,900	15,900	13,400	13,800	13,700	14,900	14,000	-	-	70	
75	-	-	-	9,500	13,500	10,400	13,800	11,100	14,000	11,600	12,700	11,900	13,100	12,200	-	-	75	
80	-	-	-	-	-	8,900	12,200	9,600	12,500	10,000	11,800	10,400	11,500	10,600	-	-	80	
85	-	-	-	-	-	7,600	10,900	8,300	11,100	8,700	11,000	9,000	10,200	9,300	-	-	85	
90	-	-	-	-	-	-	-	7,100	9,900	7,600	10,100	7,900	9,000	8,100	-	-	90	
95	-	-	-	-	-	-	-	6,100	8,900	6,600	9,000	6,900	8,000	7,100	-	-	95	
100	-	-	-	-	-	-	-	5,200	8,000	5,700	8,100	6,000	7,100	6,200	-	-	100	
105	-	-	-	-	-	-	-	-	-	4,900	7,300	5,200	6,300	5,400	-	-	105	
110	-	-	-	-	-	-	-	-	-	4,200	6,600	4,500	5,600	4,700	-	-	110	
115	-	-	-	-	-	-	-	-	-	3,600	6,000	3,900	5,000	4,100	-	-	115	
120	-	-	-	-	-	-	-	-	-	-	-	3,300	4,400	3,500	-	-	120	
125	-	-	-	-	-	-	-	-	-	-	-	2,800	3,900	3,000	-	-	125	
130	-	-	-	-	-	-	-	-	-	-	-	2,400	3,400	2,500	-	-	130	
135	-	-	-	-	-	-	-	-	-	-	-	-	-	2,100	-	-	135	
140	-	-	-	-	-	-	-	-	-	-	-	-	-	1,700	-	-	140	
145	-	-	-	-	-	-	-	-	-	-	-	-	-	1,400	-	-	145	
 1)	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	10°	0°	11°		
2)	1, 2	1	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1, 2	2)
	2.	0	50	100	0	100	0	100	0	100	0	100	0	100	50	100		
	3.	0	0	0	33	16	50	33	67	50	83	67	100	83	100	100		
	4.	0	0	0	33	16	50	33	67	50	83	67	100	83	100	100		
	Top	0	0	0	33	16	50	33	67	50	83	67	100	83	100	100		
	39.4	53.7	68.1	68.1	82.4	82.4	96.8	96.8	111.1	111.1	125.5	125.5		139.8			(ft)	
	32.4	46.7	60.9	60.8	75.1	74.9	89.2	88.9	103.5	102.9	117.6	116.9		131.3			(ft)	
 3)	2,4100	13,800	7,300	12,800	7,500	13,600	3,400	6,800	2,200	5,600	1,400	4,500		2,300			(lb)	
1)	1, 2	1	1	2	1	2	1	2	1	2	1	2		2				

- 1) Minimum boom angle (°) for indicated length (no load)
- 2) Telescopic mode
- 3) Loaded boom angle (°)

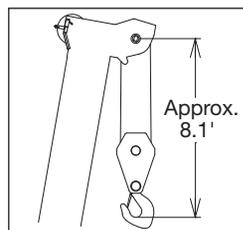
NOTE:

The lifting capacity data stored in the LOAD MOMENT INDICATOR (AML-E2) is based on the standard number of parts of line listed in the chart. Standard number of parts of line for each boom length should be according to the following table:

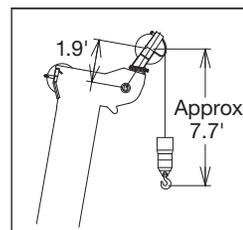
	39.4'	39.4' to 68.1'	68.1' to 154.2'	Single top jib
1)	1, 2	1	2	1, 2
	16	8	4	4



BOOM



SINGLE TOP



NOTE: Boom geometry shown is for unloaded condition and machine standing level on firm supporting surface. Boom deflection and subsequent radius and boom angle change must be accounted for when applying load to hook. When boom length is same as telescoping mode 1 and 2, it show large load.

Operation

Fully extended – 360° – SMART CW2

20,100 lb		23' 11-3/8" spread												360°			
		39.4'	53.7'	68.1'	68.1'	82.4'	82.4'	96.8'	96.8'	111.1'	111.1'	125.5'	125.5'	139.8'	139.8'	154.2'	
ft	1,000 lb															ft	
8	200,000	102,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
10	181,900	102,500	90,200	40,100	-	-	-	-	-	-	-	-	-	-	-	-	10
12	159,700	102,500	90,200	40,100	-	-	-	-	-	-	-	-	-	-	-	-	12
15	133,800	102,500	90,200	40,100	42,500	35,500	-	-	-	-	-	-	-	-	-	-	15
20	101,500	100,800	81,500	40,100	42,500	35,500	40,100	33,300	35,500	32,200	-	-	-	-	-	-	20
25	78,300	77,600	68,500	40,100	42,500	35,500	40,100	33,300	35,500	32,200	33,300	32,200	-	-	-	-	25
30	60,800	59,900	58,700	40,100	42,500	35,500	40,100	33,300	35,500	32,200	33,300	28,800	31,500	28,900	-	-	30
35	-	45,700	44,400	40,100	42,500	35,500	39,700	33,300	35,500	30,800	33,300	25,500	31,500	27,200	24,900	-	35
40	-	35,500	34,400	40,100	36,400	35,500	35,000	30,500	32,300	27,600	29,800	22,800	28,100	24,500	24,900	-	40
45	-	28,300	27,300	33,200	29,200	33,800	30,200	27,600	28,800	24,900	26,500	20,700	24,900	22,200	23,200	-	45
50	-	-	22,100	27,700	23,900	28,400	24,900	25,100	25,700	22,700	23,900	18,800	22,300	20,300	21,100	-	50
55	-	-	18,100	23,500	19,900	24,200	20,900	23,100	21,600	20,800	21,600	17,300	20,200	18,700	19,100	-	55
60	-	-	15,000	20,200	16,600	20,800	17,600	21,200	18,300	19,200	18,800	15,900	18,300	17,300	17,300	-	60
65	-	-	-	-	14,000	18,100	15,000	18,500	15,700	17,700	16,100	14,800	16,500	16,100	15,800	-	65
70	-	-	-	-	11,800	15,900	12,800	16,200	13,500	16,400	14,000	13,800	14,300	15,000	14,400	-	70
75	-	-	-	-	10,100	14,100	11,000	14,400	11,700	14,600	12,100	12,700	12,500	13,600	12,700	-	75
80	-	-	-	-	-	-	9,400	12,700	10,100	13,000	10,500	11,800	10,900	12,000	11,100	-	80
85	-	-	-	-	-	-	8,100	11,400	8,700	11,600	9,200	11,000	9,500	10,600	9,800	-	85
90	-	-	-	-	-	-	-	-	7,600	10,400	8,000	10,300	8,300	9,500	8,600	-	90
95	-	-	-	-	-	-	-	-	6,500	9,300	7,000	9,500	7,300	8,400	7,500	-	95
100	-	-	-	-	-	-	-	-	5,600	8,400	6,100	8,500	6,400	7,500	6,600	-	100
105	-	-	-	-	-	-	-	-	-	-	5,300	7,700	5,600	6,700	5,800	-	105
110	-	-	-	-	-	-	-	-	-	-	4,500	7,000	4,900	6,000	5,100	-	110
115	-	-	-	-	-	-	-	-	-	-	3,900	6,300	4,200	5,300	4,500	-	115
120	-	-	-	-	-	-	-	-	-	-	-	-	3,600	4,700	3,900	-	120
125	-	-	-	-	-	-	-	-	-	-	-	-	3,100	4,200	3,300	-	125
130	-	-	-	-	-	-	-	-	-	-	-	-	2,700	3,700	2,800	-	130
135	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,400	-	135
140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,000	-	140
145	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,700	-	145
	1)	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	10°	0°	11°	
2)		1, 2	1	1	2	1	2	1	2	1	2	1	2	1	2	1, 2	2)
	3.	0	50	100	0	100	0	100	0	100	0	100	0	100	50	100	
	4.	0	0	0	33	16	50	33	67	50	83	67	100	83	100	100	
	Top	0	0	0	33	16	50	33	67	50	83	67	100	83	100	100	
		39.4	53.7	68.1	68.1	82.4	82.4	96.8	96.8	111.1	111.1	125.5	125.5		139.8		(ft)
		32.4	46.7	60.9	60.8	75.1	74.9	89.2	88.9	103.5	102.9	117.6	116.9		131.3		(ft)
	3)	2,4100	13,800	7,300	12,900	7,800	14,100	3,500	6,900	2,200	5,700	1,500	4,600		2,500		(lb)
1)		1, 2	1	1	2	1	2	1	2	1	2	1	2		2		

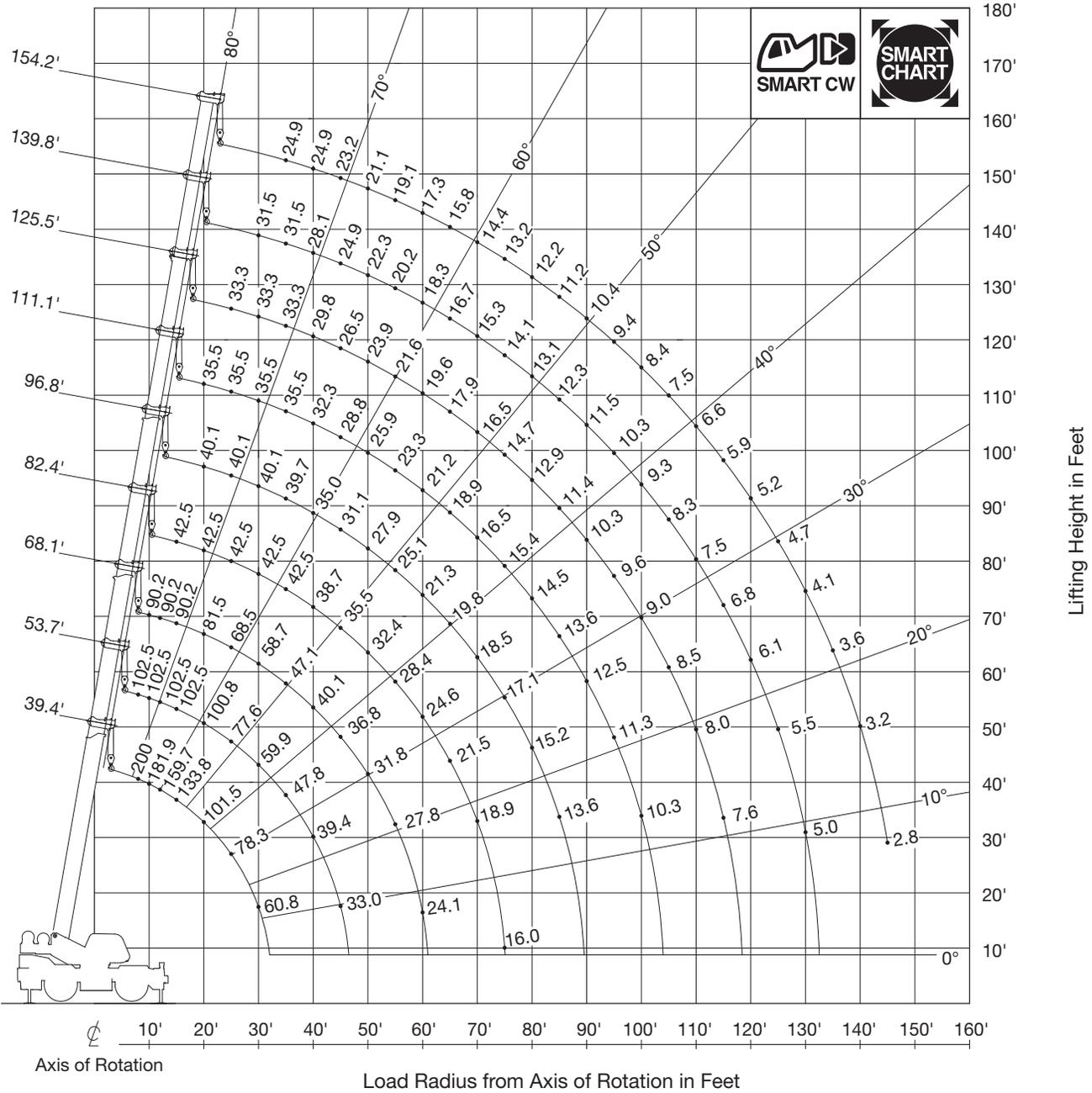
- 1) Minimum boom angle (°) for indicated length (no load)
- 2) Telescopic mode
- 3) Loaded boom angle (°)

NOTE: The lifting capacity data stored in the LOAD MOMENT INDICATOR (AML-E2) is based on the standard number of parts of line listed in the chart. Standard number of parts of line for each boom length should be according to the following table:

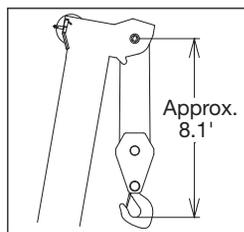


SMART CW2

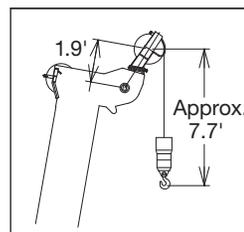
	39.4'	39.4' to 68.1'	68.1' to 154.2'	Single top jib
1)	1, 2	1 2	1, 2	1, 2
	16	8 4	4	1



BOOM



SINGLE TOP



NOTE: Boom geometry shown is for unloaded condition and machine standing level on firm supporting surface. Boom deflection and subsequent radius and boom angle change must be accounted for when applying load to hook. When boom length is same as telescoping mode 1 and 2, it show large load.

Operation

Fully extended – 360° – Smart Chart / SMART CW2

20,100 lb		23' 11-3/8" spread												360°																
39.4'		53.7'		68.1'		68.1'		82.4'		82.4'		96.8'		96.8'		111.1'		111.1'		125.5'		125.5'		139.8'		139.8'		154.2'		
ft	1,000 lb																												ft	
8	200,000	102,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
10	181,900	102,500	90,200	40,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
12	159,700	102,500	90,200	40,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
15	133,800	102,500	90,200	40,100	42,500	35,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15
20	101,500	100,800	81,500	40,100	42,500	35,500	40,100	33,300	35,500	32,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
25	78,300	77,600	68,500	40,100	42,500	35,500	40,100	33,300	35,500	32,200	33,300	32,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25
30	60,800	59,900	58,700	40,100	42,500	35,500	40,100	33,300	35,500	32,200	33,300	28,800	31,500	28,900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30
35	-	47,800	47,100	40,100	42,500	35,500	39,700	33,300	35,500	30,800	33,300	25,500	31,500	27,200	24,900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35
40	-	39,400	38,600	40,100	38,700	35,500	35,000	30,500	32,300	27,600	29,800	22,800	28,100	24,500	24,900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40
45	-	33,000	32,300	36,800	33,900	35,500	31,100	27,600	28,800	24,900	26,500	20,700	24,900	22,200	23,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45
50	-	-	27,100	31,800	28,900	32,400	27,900	25,100	25,900	22,700	23,900	18,800	22,300	20,300	21,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50
55	-	-	22,400	27,800	24,100	28,400	25,100	23,100	23,300	20,800	21,600	17,300	20,200	18,700	19,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55
60	-	-	18,600	24,100	20,300	24,600	21,300	21,300	21,200	19,200	19,600	15,900	18,300	17,300	17,300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60
65	-	-	-	-	17,300	21,500	18,200	19,800	18,900	17,700	17,900	14,800	16,700	16,100	15,800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65
70	-	-	-	-	14,700	18,900	15,700	18,500	16,400	16,500	16,500	13,800	15,300	15,000	14,400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	70
75	-	-	-	-	12,700	16,800	13,600	17,100	14,200	15,400	14,700	12,700	14,100	14,000	13,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75
80	-	-	-	-	-	-	11,800	15,200	12,500	14,500	12,900	11,800	13,000	13,100	12,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80
85	-	-	-	-	-	-	10,300	13,600	10,900	13,600	11,400	11,000	11,700	12,300	11,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	85
90	-	-	-	-	-	-	-	-	9,600	12,500	10,000	10,300	10,300	11,500	10,400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90
95	-	-	-	-	-	-	-	-	8,400	11,300	8,900	9,600	9,200	10,300	9,400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	95
100	-	-	-	-	-	-	-	-	7,400	10,300	7,800	9,000	8,100	9,300	8,400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100
105	-	-	-	-	-	-	-	-	-	-	6,900	8,500	7,200	8,300	7,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	105
110	-	-	-	-	-	-	-	-	-	-	6,100	8,000	6,400	7,500	6,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	110
115	-	-	-	-	-	-	-	-	-	-	5,400	7,600	5,700	6,800	5,900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	115
120	-	-	-	-	-	-	-	-	-	-	-	5,000	6,100	5,200	5,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	120
125	-	-	-	-	-	-	-	-	-	-	-	4,400	5,500	4,700	4,700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	125
130	-	-	-	-	-	-	-	-	-	-	-	3,900	5,000	4,100	4,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	130
135	-	-	-	-	-	-	-	-	-	-	-	-	-	3,600	3,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	135
140	-	-	-	-	-	-	-	-	-	-	-	-	-	3,200	3,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	140
145	-	-	-	-	-	-	-	-	-	-	-	-	-	2,800	2,800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	145

	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	8°	0°	9°
1)	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	8°	0°	9°
2)	1, 2	1	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
3.)	2.	0	50	100	0	100	0	100	0	100	0	100	0	100	0	100	50	100
4.)	3.	0	0	0	33	16	50	33	67	50	83	67	100	83	100	83	100	100
Top	4.	0	0	0	33	16	50	33	67	50	83	67	100	83	100	83	100	100
	Top	0	0	0	33	16	50	33	67	50	83	67	100	83	100	83	100	100

39.4	53.7	68.1	68.1	82.4	82.4	96.8	96.8	111.1	111.1	125.5	125.5			139.8	(ft)
32.4	46.7	60.9	60.8	75.1	74.9	89.2	88.9	103.5	102.9	117.6	116.9			131.3	(ft)
2,4100	13,800	7,300	13,300	10,200	16,100	3,600	7,300	2,400	6,200	1,800	5,200			3,300	(lb)

1)	1, 2	1	1	2	1	2	1	2	1	2	1	2		2
----	------	---	---	---	---	---	---	---	---	---	---	---	--	---

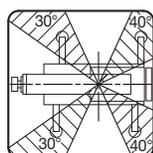
- 1) Minimum boom angle (°) for indicated length (no load)
- 2) Telescopic mode
- 3) Loaded boom angle (°)

NOTE: The lifting capacity data stored in the LOAD MOMENT INDICATOR (AML-E2) is based on the standard number of parts of line listed in the chart. Standard number of parts of line for each boom length should be according to the following table:



SMART CW2

Smart Chart



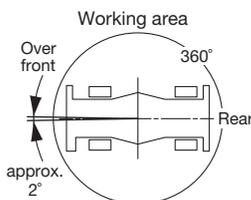
	39.4'	39.4' to 68.1'	68.1' to 154.2'	Single top jib
1)	1, 2	1	2	1, 2
	16	8	4	4

On rubber stationary – SMART CW1

20,100 lb		0°*			
ft	39.4'	68.1'	82.4'	96.8'	
1,000 lb					
12	64,300	-	-	-	
15	53,000	-	-	-	
20	40,000	35,000	28,400	-	
25	30,500	33,300	28,400	24,700	
30	21,900	24,800	25,200	24,700	
35	-	19,100	19,600	20,000	
40	-	15,100	15,600	16,000	
45	-	12,100	12,600	13,000	
50	-	9,900	10,300	10,700	
55	-	8,000	8,600	8,900	
60	-	6,600	7,100	7,400	
65	-	-	5,900	6,200	
70	-	-	4,900	5,200	
75	-	-	4,100	4,300	
80	-	-	-	3,500	
85	-	-	-	2,900	
1)	0°	0°	0°	0°	
2)	1, 2	2	2	2	
2.	0	0	0	0	
3.	0	33	50	67	
4.	0	33	50	67	
Top	0	33	50	67	
39.4'	39.4'	68.1'	82.4'	96.8'	
32.4'	32.4'	60.8'	74.9'	88.9'	
3) 0°	15,500	6,500	4,100	2,700	

20,100 lb		360°			
ft	39.4'	68.1'	82.4'	96.8'	
1,000 lb					
12	40,900	-	-	-	
15	31,700	-	-	-	
20	19,200	22,400	22,400	-	
25	12,500	15,400	16,000	16,400	
30	8,200	11,000	11,600	12,000	
35	-	8,000	8,600	8,900	
40	-	5,800	6,400	6,700	
45	-	4,200	4,700	5,000	
50	-	2,900	3,400	3,700	
55	-	1,900	2,400	2,700	
60	-	-	1,500	1,800	
65	-	-	-	-	
70	-	-	-	-	
75	-	-	-	-	
80	-	-	-	-	
85	-	-	-	-	
1)	0°	11°	31°	39°	
2)	1, 2	2	2	2	
2.	0	0	0	0	
3.	0	33	50	67	
4.	0	33	50	67	
Top	0	33	50	67	
39.4'	39.4'				
32.4'	32.4'				
3) 0°	5,300				

- 1) Minimum boom angle (°) for indicated length (no load)
- 2) Telescopic mode
- 3) Loaded boom angle (°)
- * over front



NOTE:

The lifting capacity data stored in the LOAD MOMENT INDICATOR (AML-E2) is based on the standard number of parts of line listed in the chart. Standard number of parts of line for on-rubber operation should be according to the chart.

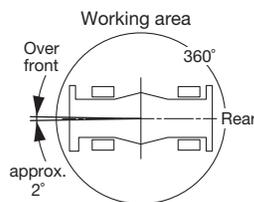
	39.4'	42.0' to 96.8'	Single top jib
	6	4	1

Operation

On rubber creep – SMART CW1

20,100 lb		0° *			
	39.4'	68.1'	82.4'	96.8'	
ft	1,000 lb				
12	49,800	-	-	-	-
15	40,700	-	-	-	-
20	30,200	32,200	28,400	-	-
25	23,000	25,700	26,200	24,700	-
30	17,900	20,600	21,100	21,600	-
35	-	16,700	17,300	17,600	-
40	-	13,800	14,300	14,700	-
45	-	11,400	11,900	12,300	-
50	-	9,400	10,000	10,300	-
55	-	7,800	8,300	8,600	-
60	-	6,400	6,800	7,200	-
65	-	-	5,600	6,000	-
70	-	-	4,700	5,000	-
75	-	-	3,900	4,100	-
80	-	-	-	3,400	-
85	-	-	-	2,800	-
1)	0°	0°	0°	0°	
2)	1, 2	2	2	2	
2.	0	0	0	0	
3.	0	33	50	67	
4.	0	33	50	67	
Top	0	33	50	67	
	39.4'	68.1'	82.4'	96.8'	
	32.4'	60.8'	74.9'	88.9'	
3)	13,800	6,200	3,900	2,600	
0°					

- 1) Minimum boom angle (°) for indicated length (no load)
- 2) Telescopic mode
- 3) Loaded boom angle (°)
- * over front



NOTE:

The lifting capacity data stored in the LOAD MOMENT INDICATOR (AML-E2) is based on the standard number of parts of line listed in the chart. Standard number of parts of line for on-rubber operation should be according to the chart.

	39.4'	42.0' to 96.8'	Single top jib
	6	4	1

On rubber stationary – SMART CW2

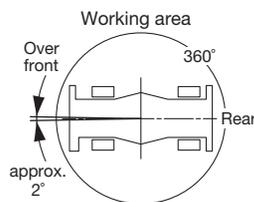
20,100 lb		0°*			
ft	39.4'	68.1'	82.4'	96.8'	
1,000 lb					
12	66,400	-	-	-	
15	54,900	-	-	-	
20	41,500	35,000	28,400	-	
25	32,200	34,900	28,400	24,700	
30	23,300	26,200	26,600	24,700	
35	-	20,200	20,700	21,000	
40	-	16,000	16,600	16,900	
45	-	12,900	13,500	13,800	
50	-	10,600	11,100	11,400	
55	-	8,700	9,200	9,500	
60	-	7,200	7,700	8,000	
65	-	-	6,400	6,700	
70	-	-	5,400	5,700	
75	-	-	4,500	4,800	
80	-	-	-	4,000	
85	-	-	-	3,300	
1)	0°	0°	0°	0°	
2)	1, 2	2	2	2	
3)	0	0	0	0	
4)	0	33	50	67	
Top	0	33	50	67	
	39.4'	68.1'	82.4'	96.8'	
	32.4'	60.8'	74.9'	88.9'	
3)	16,600	7,000	4,500	3,100	

20,100 lb		360°			
ft	39.4'	68.1'	82.4'	96.8'	
1,000 lb					
12	-	-	-	-	
15	-	-	-	-	
20	21,000	-	-	-	
25	13,800	16,800	-	-	
30	9,300	12,100	12,700	12,700	
35	-	9,000	9,500	9,900	
40	-	6,700	7,200	7,500	
45	-	4,900	5,400	5,800	
50	-	3,500	4,100	4,400	
55	-	2,400	3,000	3,300	
60	-	1,600	2,000	2,400	
65	-	-	-	-	
70	-	-	-	-	
75	-	-	-	-	
80	-	-	-	-	
85	-	-	-	-	
1)	0°	0°	29°	37°	
2)	1, 2	2	2	2	
3)	0	0	0	0	
4)	0	33	50	67	
Top	0	33	50	67	
	39.4'	68.1'			
	32.4'	60.8'			
3)	6,200	1,500			

- 1) Minimum boom angle (°) for indicated length (no load)
- 2) Telescopic mode
- 3) Loaded boom angle (°)
- * over front



SMART CW2



NOTE:

The lifting capacity data stored in the LOAD MOMENT INDICATOR (AML-E2) is based on the standard number of parts of line listed in the chart. Standard number of parts of line for on-rubber operation should be according to the chart.

	39.4'	42.0' to 96.8'	Single top jib
	6	4	1

Operation

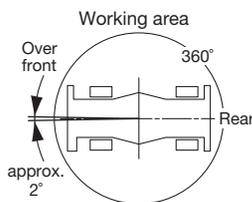
On rubber creep – SMART CW2

20,100 lb		0°*			
	39.4'	68.1'	82.4'	96.8'	
ft	1,000 lb				
12	51,900	-	-	-	
15	42,600	-	-	-	
20	31,600	32,200	28,400	-	
25	24,300	27,000	27,500	24,700	
30	19,000	21,700	22,200	22,600	
35	-	17,700	18,200	18,600	
40	-	14,600	15,100	15,500	
45	-	12,100	12,700	13,000	
50	-	10,100	10,600	11,000	
55	-	8,400	9,000	9,300	
60	-	7,000	7,500	7,800	
65	-	-	6,200	6,500	
70	-	-	5,200	5,500	
75	-	-	4,300	4,600	
80	-	-	-	3,800	
85	-	-	-	3,200	
1)	0°	0°	0°	0°	
2)	1, 2	2	2	2	
3.)	0	0	0	0	
4.)	0	33	50	67	
Top	0	33	50	67	
	39.4'	68.1'	82.4'	96.8'	
	32.4'	60.8'	74.9'	88.9'	
3)	14,700	6,800	4,400	3,000	

- 1) Minimum boom angle (°) for indicated length (no load)
- 2) Telescopic mode
- 3) Loaded boom angle (°)
- * over front



SMART CW2

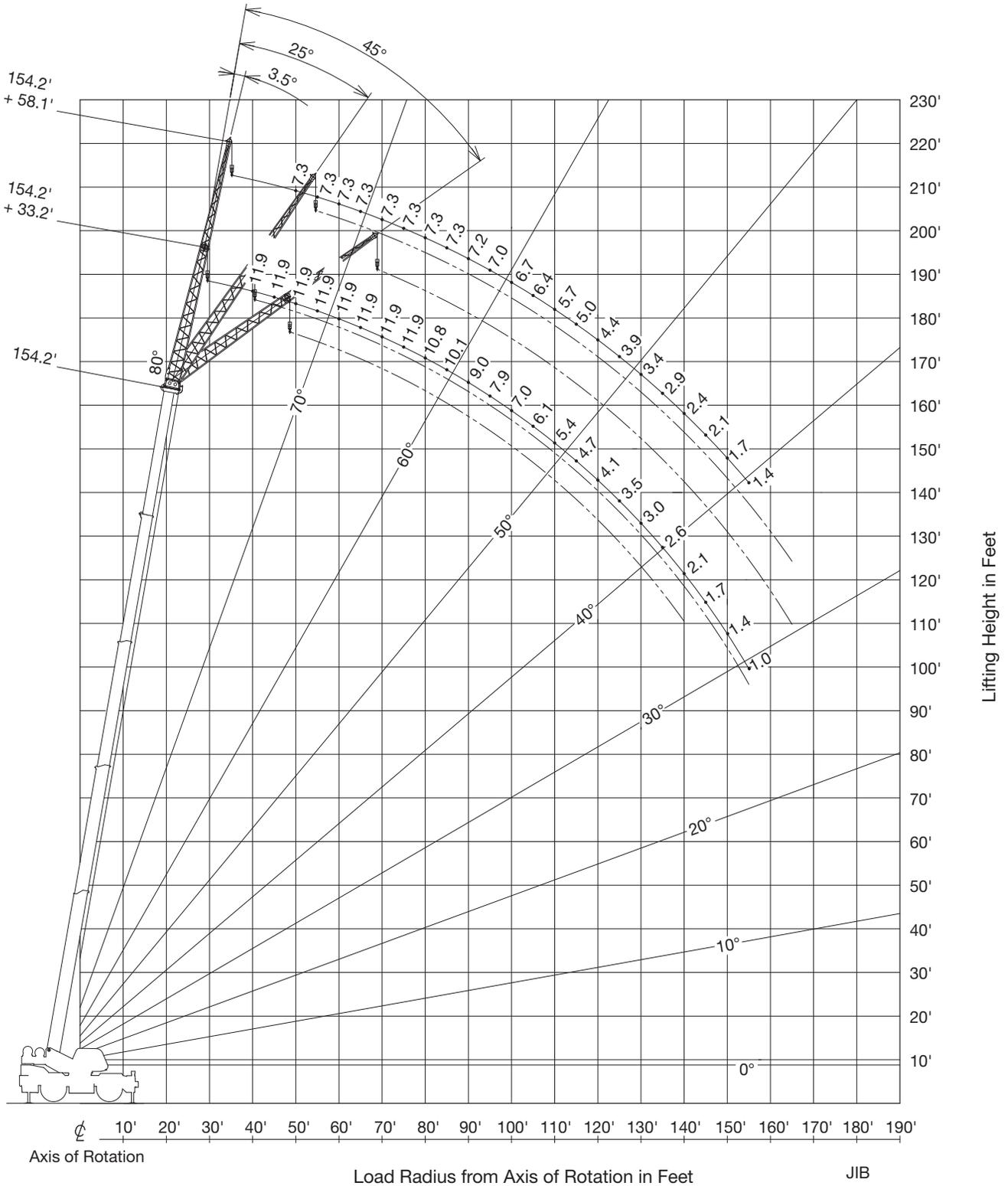


NOTE:

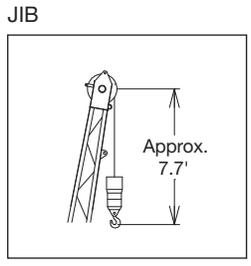
The lifting capacity data stored in the LOAD MOMENT INDICATOR (AML-E2) is based on the standard number of parts of line listed in the chart. Standard number of parts of line for on-rubber operation should be according to the chart.

	39.4'	42.0' to 96.8'	Single top jib
	6	4	1

Operation



NOTE:
 Jib geometry shown are for unloaded condition and machine standing level on firm supporting surface.
 Boom deflection and subsequent radius and boom angle change must be accounted for when applying load to hook.



Operation

Fully extended – 360° – SMART CW1

20,100 lb				360°			
23' 11-3/8" spread				154.2' + 33.2'			
154.2' + 33.2'				154.2' + 58.1'			
3.5°				3.5°			
25°				25°			
45°				45°			
ft	1,000 lb			ft	1,000 lb		
40	11,900	-	-	40	-	-	-
45	11,900	-	-	45	-	-	-
50	11,900	-	-	50	7,300	-	-
55	11,900	11,900	-	55	7,300	-	-
60	11,900	11,900	10,000	60	7,300	-	-
65	11,900	11,900	9,800	65	7,300	-	-
70	11,900	11,100	9,600	70	7,300	6,200	-
75	11,900	10,400	9,400	75	7,300	6,000	-
80	10,800	9,800	9,300	80	7,300	5,900	5,100
85	10,100	9,200	8,800	85	7,300	5,700	5,000
90	9,000	8,700	8,300	90	7,200	5,600	4,900
95	7,900	8,200	7,900	95	7,000	5,400	4,800
100	7,000	7,800	7,500	100	6,700	5,300	4,800
105	6,100	6,900	7,200	105	6,400	5,200	4,700
110	5,400	6,100	6,600	110	5,700	5,100	4,600
115	4,700	5,400	5,800	115	5,000	5,000	4,500
120	4,100	4,700	5,100	120	4,400	4,900	4,500
125	3,500	4,100	4,400	125	3,900	4,800	4,400
130	3,000	3,500	3,800	130	3,400	4,400	4,400
135	2,600	3,000	3,200	135	2,900	3,800	4,300
140	2,100	2,500	2,700	140	2,400	3,300	3,900
145	1,700	2,100	-	145	2,100	2,900	3,400
150	1,400	1,700	-	150	1,700	2,400	2,900
155	1,000	1,300	-	155	1,400	2,000	2,400
160	-	-	-	160	-	1,700	2,000
165	-	-	-	165	-	1,300	1,600
1)	1, 2	1, 2	1, 2	1)	1, 2	1, 2	1, 2

1) Telescopic mode

Operation

Fully extended – 360° – SMART CW1

20,100 lb								360°							
23' 11-3/8" spread															
139.8' + 33.2'								139.8' + 58.1'							
		3.5°	3.5°	25°	25°	45°	45°			3.5°	3.5°	25°	25°	45°	45°
ft	1,000 lb							ft	1,000 lb						
35	14,100	13,000	-	-	-	-	-	35	-	-	-	-	-	-	-
40	14,100	13,000	-	-	-	-	-	40	-	-	-	-	-	-	-
45	14,100	13,000	-	-	-	-	-	45	8,200	-	-	-	-	-	-
50	14,100	13,000	13,400	13,000	-	-	-	50	8,200	7,700	-	-	-	-	-
55	14,100	13,000	12,900	12,800	10,300	-	-	55	8,200	7,700	-	-	-	-	-
60	14,100	13,000	12,400	12,200	10,000	10,000	-	60	8,200	7,700	-	-	-	-	-
65	14,100	12,500	12,000	11,400	9,800	9,700	-	65	8,200	7,700	6,500	-	-	-	-
70	14,100	11,600	11,600	10,600	9,600	9,500	-	70	8,200	7,700	6,300	6,200	-	-	-
75	13,300	10,800	11,300	9,900	9,400	9,400	-	75	8,100	7,700	6,100	6,100	-	-	-
80	11,700	10,000	10,900	9,300	9,200	8,900	-	80	7,800	7,700	6,000	5,900	5,100	5,100	-
85	10,300	9,400	10,600	8,800	9,100	8,400	-	85	7,500	7,400	5,800	5,700	5,000	5,000	-
90	9,100	8,800	10,000	8,200	8,900	8,000	-	90	7,300	7,100	5,600	5,600	5,000	4,900	-
95	8,000	8,300	8,800	7,800	8,800	7,500	-	95	7,000	6,900	5,500	5,400	4,900	4,800	-
100	7,100	7,800	7,800	7,400	8,300	7,100	-	100	6,800	6,700	5,400	5,300	4,800	4,800	-
105	6,200	7,100	6,900	7,000	7,300	6,800	-	105	6,600	6,300	5,200	5,200	4,700	4,700	-
110	5,500	6,300	6,100	6,600	6,500	6,500	-	110	6,000	5,900	5,100	5,100	4,600	4,600	-
115	4,800	5,600	5,400	6,200	5,700	6,200	-	115	5,300	5,600	5,000	5,000	4,500	4,500	-
120	4,200	5,000	4,700	5,500	4,900	5,700	-	120	4,700	5,200	4,900	4,900	4,400	4,400	-
125	3,600	4,500	4,100	4,900	4,300	5,100	-	125	4,100	4,900	4,800	4,700	4,400	4,300	-
130	3,100	3,900	3,500	4,300	3,700	4,500	-	130	3,600	4,400	4,500	4,500	4,300	4,300	-
135	2,600	3,500	3,000	3,800	-	-	-	135	3,100	3,900	4,000	4,300	4,200	4,200	-
140	2,200	3,000	2,500	3,300	-	-	-	140	2,700	3,500	3,500	4,100	3,900	4,200	-
145	1,800	2,600	2,100	2,900	-	-	-	145	2,200	3,100	3,000	3,700	3,400	4,000	-
150	1,400	2,300	1,700	2,500	-	-	-	150	1,900	2,700	2,500	3,300	2,900	3,500	-
155	1,100	1,900	1,300	2,100	-	-	-	155	1,500	2,400	2,100	2,900	-	-	-
160	-	1,600	-	-	-	-	-	160	1,200	2,100	1,800	2,500	-	-	-
165	-	-	-	-	-	-	-	165	900	1,800	1,400	2,100	-	-	-
170	-	-	-	-	-	-	-	170	-	1,500	1,100	1,800	-	-	-
175	-	-	-	-	-	-	-	175	-	1,200	-	1,500	-	-	-
180	-	-	-	-	-	-	-	180	-	1,000	-	1,200	-	-	-
1)	1	2	1	2	1	2		1)	1	2	1	2	1	2	

1) Telescopic mode

Operation

Fully extended – 360° – SMART CW1

20,100 lb								360°							
23' 11-3/8" spread															
125.5' + 33.2'								125.5' + 58.1'							
		3.5°	3.5°	25°	25°	45°	45°			3.5°	3.5°	25°	25°	45°	45°
ft	1,000 lb							ft	1,000 lb						
30	14,600	14,300	-	-	-	-	-	30	-	-	-	-	-	-	-
35	14,600	14,300	-	-	-	-	-	35	-	-	-	-	-	-	-
40	14,600	14,300	-	-	-	-	-	40	9,300	8,400	-	-	-	-	-
45	14,600	14,300	13,900	13,700	-	-	-	45	9,300	8,400	-	-	-	-	-
50	14,600	14,300	13,300	13,100	10,500	10,400	-	50	9,300	8,400	-	-	-	-	-
55	14,600	13,900	12,800	12,600	10,200	10,100	-	55	9,300	8,400	-	-	-	-	-
60	14,600	12,700	12,300	11,600	10,000	9,900	-	60	9,300	8,400	6,800	6,700	-	-	-
65	14,600	11,700	11,800	10,800	9,800	9,700	-	65	8,900	8,400	6,600	6,400	-	-	-
70	14,600	10,800	11,400	10,000	9,500	9,500	-	70	8,500	8,200	6,400	6,200	-	-	-
75	13,200	10,000	11,100	9,400	9,400	9,000	-	75	8,200	7,900	6,200	6,000	5,200	5,100	-
80	11,600	9,300	10,800	8,800	9,200	8,500	-	80	7,800	7,600	6,000	5,900	5,000	5,000	-
85	10,200	8,700	10,400	8,200	9,100	8,000	-	85	7,500	7,300	5,800	5,700	4,900	4,900	-
90	9,000	8,100	9,900	7,700	8,900	7,500	-	90	7,300	7,000	5,600	5,500	4,800	4,700	-
95	7,900	7,600	8,700	7,300	8,800	7,100	-	95	7,000	6,600	5,500	5,400	4,700	4,600	-
100	7,000	7,100	7,700	6,900	8,100	6,700	-	100	6,700	6,200	5,400	5,300	4,500	4,500	-
105	6,100	6,700	6,800	6,500	7,100	6,400	-	105	6,500	5,800	5,200	5,100	4,500	4,400	-
110	5,400	6,300	5,900	6,100	6,200	6,000	-	110	6,200	5,400	5,100	5,000	4,400	4,300	-
115	4,700	6,000	5,200	5,800	5,400	5,700	-	115	5,500	5,100	5,000	4,900	4,300	4,200	-
120	4,100	5,600	4,500	5,500	-	-	-	120	4,800	4,800	4,800	4,700	4,200	4,200	-
125	3,500	5,300	3,900	5,200	-	-	-	125	4,300	4,500	4,700	4,400	4,100	4,100	-
130	3,000	4,800	3,300	5,000	-	-	-	130	3,700	4,300	4,500	4,200	4,100	4,000	-
135	2,500	4,400	2,800	4,600	-	-	-	135	3,300	4,100	4,000	4,000	4,000	3,900	-
140	2,100	3,900	2,300	4,100	-	-	-	140	2,800	3,800	3,500	3,800	3,700	3,700	-
145	1,700	3,500	-	-	-	-	-	145	2,400	3,600	3,000	3,600	-	-	-
150	-	3,200	-	-	-	-	-	150	2,100	3,400	2,500	3,400	-	-	-
155	-	-	-	-	-	-	-	155	1,700	3,300	2,100	3,200	-	-	-
160	-	-	-	-	-	-	-	160	1,400	2,900	1,700	3,100	-	-	-
165	-	-	-	-	-	-	-	165	1,100	2,600	1,300	2,800	-	-	-
170	-	-	-	-	-	-	-	170	-	2,400	-	-	-	-	-
1)	1	2	1	2	1	2		1)	1	2	1	2	1	2	

1) Telescopic mode

Operation

Fully extended – 360° – SMART CW2

20,100 lb				360°			
23' 11-3/8" spread				154.2' + 58.1'			
ft	3.5°	25°	45°	ft	3.5°	25°	45°
ft	1,000 lb			ft	1,000 lb		
40	11,900	-	-	40	-	-	-
45	11,900	-	-	45	-	-	-
50	11,900	-	-	50	7,300	-	-
55	11,900	11,900	-	55	7,300	-	-
60	11,900	11,900	10,000	60	7,300	-	-
65	11,900	11,900	9,800	65	7,300	-	-
70	11,900	11,100	9,600	70	7,300	6,200	-
75	11,900	10,400	9,400	75	7,300	6,000	-
80	10,800	9,800	9,300	80	7,300	5,900	5,100
85	10,100	9,200	8,800	85	7,300	5,700	5,000
90	9,500	8,700	8,300	90	7,200	5,600	4,900
95	8,400	8,200	7,900	95	7,000	5,400	4,800
100	7,400	7,800	7,500	100	6,700	5,300	4,800
105	6,600	7,400	7,200	105	6,500	5,200	4,700
110	5,800	6,500	6,800	110	6,100	5,100	4,600
115	5,100	5,800	6,200	115	5,400	5,000	4,500
120	4,500	5,100	5,400	120	4,800	4,900	4,500
125	3,900	4,400	4,800	125	4,200	4,800	4,400
130	3,400	3,900	4,100	130	3,700	4,700	4,400
135	2,900	3,300	3,600	135	3,200	4,100	4,300
140	2,400	2,800	3,000	140	2,800	3,600	4,200
145	2,000	2,400	-	145	2,400	3,200	3,700
150	1,700	2,000	-	150	2,000	2,700	3,200
155	1,300	1,600	-	155	1,600	2,300	2,700
160	1,000	1,200	-	160	1,300	1,900	2,300
165	-	-	-	165	-	1,600	1,900
170	-	-	-	170	-	1,200	-
1)	1, 2	1, 2	1, 2	1)	1, 2	1, 2	1, 2

1) Telescopic mode



SMART CW2

Operation

Fully extended – 360° – SMART CW2

20,100 lb								23' 11-3/8" spread								360°							
		3.5°		25°		45°				3.5°		25°		45°				3.5°		25°		45°	
ft		1,000 lb						ft		1,000 lb													
35	14,100	13,000	-	-	-	-	35	-	-	-	-	-	-	-	-	35	-	-	-	-	-	-	
40	14,100	13,000	-	-	-	-	40	-	-	-	-	-	-	-	-	40	-	-	-	-	-	-	
45	14,100	13,000	-	-	-	-	45	8,200	-	-	-	-	-	-	-	45	8,200	-	-	-	-	-	
50	14,100	13,000	13,400	13,000	-	-	50	8,200	7,700	-	-	-	-	-	-	50	8,200	7,700	-	-	-	-	
55	14,100	13,000	12,900	12,800	10,300	-	55	8,200	7,700	-	-	-	-	-	-	55	8,200	7,700	-	-	-	-	
60	14,100	13,000	12,400	12,200	10,000	10,000	60	8,200	7,700	-	-	-	-	-	-	60	8,200	7,700	-	-	-	-	
65	14,100	12,500	12,000	11,400	9,800	9,700	65	8,200	7,700	6,500	-	-	-	-	-	65	8,200	7,700	6,500	-	-	-	
70	14,100	11,600	11,600	10,600	9,600	9,500	70	8,200	7,700	6,300	6,200	-	-	-	-	70	8,200	7,700	6,300	6,200	-	-	
75	13,600	10,800	11,300	9,900	9,400	9,400	75	8,100	7,700	6,100	6,100	-	-	-	-	75	8,100	7,700	6,100	6,100	-	-	
80	12,200	10,000	10,900	9,300	9,200	8,900	80	7,800	7,700	6,000	5,900	5,100	5,100	-	-	80	7,800	7,700	6,000	5,900	5,100	5,100	
85	10,800	9,400	10,600	8,800	9,100	8,400	85	7,500	7,400	5,800	5,700	5,000	5,000	-	-	85	7,500	7,400	5,800	5,700	5,000	5,000	
90	9,500	8,800	10,300	8,200	8,900	8,000	90	7,300	7,100	5,600	5,600	5,000	4,900	-	-	90	7,300	7,100	5,600	5,600	5,000	4,900	
95	8,400	8,300	9,300	7,800	8,800	7,500	95	7,000	6,900	5,500	5,400	4,900	4,800	-	-	95	7,000	6,900	5,500	5,400	4,900	4,800	
100	7,500	7,800	8,200	7,400	8,700	7,100	100	6,800	6,700	5,400	5,300	4,800	4,800	-	-	100	6,800	6,700	5,400	5,300	4,800	4,800	
105	6,600	7,300	7,300	7,000	7,700	6,800	105	6,600	6,300	5,200	5,200	4,700	4,700	-	-	105	6,600	6,300	5,200	5,200	4,700	4,700	
110	5,800	6,700	6,500	6,600	6,800	6,500	110	6,400	5,900	5,100	5,100	4,600	4,600	-	-	110	6,400	5,900	5,100	5,100	4,600	4,600	
115	5,100	6,000	5,700	6,300	6,000	6,200	115	5,700	5,600	5,000	5,000	4,500	4,500	-	-	115	5,700	5,600	5,000	5,000	4,500	4,500	
120	4,500	5,400	5,000	5,800	5,300	5,900	120	5,000	5,200	4,900	4,900	4,400	4,400	-	-	120	5,000	5,200	4,900	4,900	4,400	4,400	
125	3,900	4,800	4,400	5,200	4,600	5,400	125	4,400	5,000	4,800	4,700	4,400	4,300	-	-	125	4,400	5,000	4,800	4,700	4,400	4,300	
130	3,400	4,200	3,800	4,600	4,000	4,800	130	3,900	4,700	4,700	4,500	4,300	4,300	-	-	130	3,900	4,700	4,700	4,500	4,300	4,300	
135	2,900	3,700	3,300	4,100	-	-	135	3,400	4,300	4,300	4,300	4,200	4,200	-	-	135	3,400	4,300	4,300	4,300	4,200	4,200	
140	2,500	3,300	2,800	3,600	-	-	140	3,000	3,800	3,800	4,100	4,200	4,200	-	-	140	3,000	3,800	3,800	4,100	4,200	4,200	
145	2,100	2,900	2,300	3,100	-	-	145	2,600	3,400	3,300	3,900	3,600	4,000	-	-	145	2,600	3,400	3,300	3,900	3,600	4,000	
150	1,700	2,500	1,900	2,700	-	-	150	2,200	3,000	2,800	3,500	3,200	3,800	-	-	150	2,200	3,000	2,800	3,500	3,200	3,800	
155	1,300	2,200	1,500	2,300	-	-	155	1,800	2,600	2,400	3,100	-	-	-	-	155	1,800	2,600	2,400	3,100	-	-	
160	1,000	1,900	-	-	-	-	160	1,500	2,300	2,000	2,700	-	-	-	-	160	1,500	2,300	2,000	2,700	-	-	
165	-	-	-	-	-	-	165	1,200	2,000	1,700	2,400	-	-	-	-	165	1,200	2,000	1,700	2,400	-	-	
170	-	-	-	-	-	-	170	-	1,700	1,300	2,000	-	-	-	-	170	-	1,700	1,300	2,000	-	-	
175	-	-	-	-	-	-	175	-	1,500	-	1,700	-	-	-	-	175	-	1,500	-	1,700	-	-	
180	-	-	-	-	-	-	180	-	1,200	-	1,400	-	-	-	-	180	-	1,200	-	1,400	-	-	
1)	1	2	1	2	1	2	1)	1	2	1	2	1	2	1	2	1)	1	2	1	2	1	2	

1) Telescopic mode



SMART CW2

Operation

Fully extended – 360° – SMART CW2

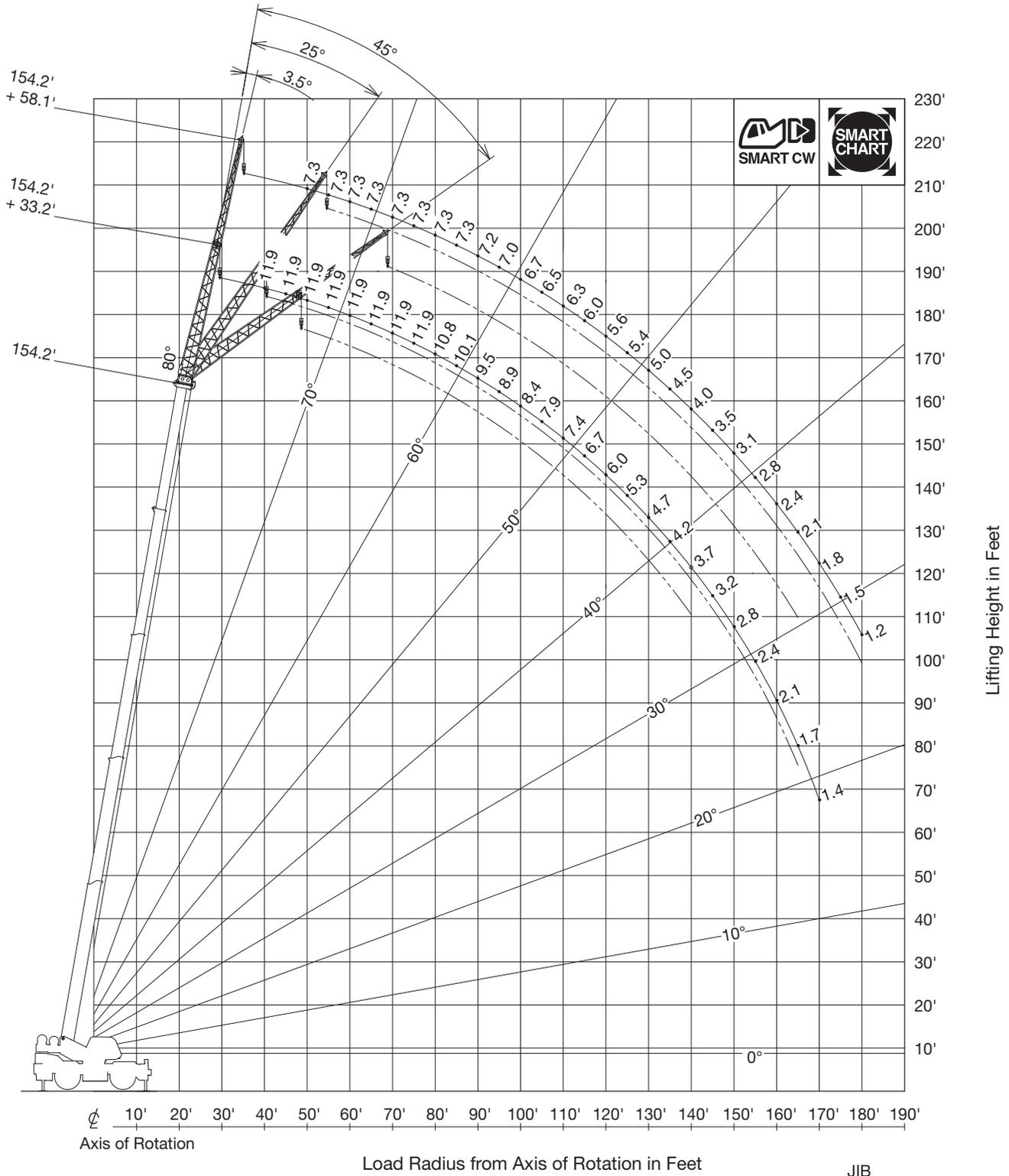
20,100 lb								360°							
23' 11-3/8" spread															
125.5' + 33.2'								125.5' + 58.1'							
3.5° 3.5° 25° 25° 45° 45°								3.5° 3.5° 25° 25° 45° 45°							
ft	1,000 lb							ft	1,000 lb						
30	14,600	14,300	-	-	-	-	-	30	-	-	-	-	-	-	-
35	14,600	14,300	-	-	-	-	-	35	-	-	-	-	-	-	-
40	14,600	14,300	-	-	-	-	-	40	9,300	8,400	-	-	-	-	-
45	14,600	14,300	13,900	13,700	-	-	-	45	9,300	8,400	-	-	-	-	-
50	14,600	14,300	13,300	13,100	10,500	10,400	-	50	9,300	8,400	-	-	-	-	-
55	14,600	13,900	12,800	12,600	10,200	10,100	-	55	9,300	8,400	-	-	-	-	-
60	14,600	12,700	12,300	11,600	10,000	9,900	-	60	9,300	8,400	6,800	6,700	-	-	-
65	14,600	11,700	11,800	10,800	9,800	9,700	-	65	8,900	8,400	6,600	6,400	-	-	-
70	14,600	10,800	11,400	10,000	9,500	9,500	-	70	8,500	8,200	6,400	6,200	-	-	-
75	13,700	10,000	11,100	9,400	9,400	9,000	-	75	8,200	7,900	6,200	6,000	5,200	5,100	-
80	12,100	9,300	10,800	8,800	9,200	8,500	-	80	7,800	7,600	6,000	5,900	5,000	5,000	-
85	10,600	8,700	10,400	8,200	9,100	8,000	-	85	7,500	7,300	5,800	5,700	4,900	4,900	-
90	9,400	8,100	10,200	7,700	8,900	7,500	-	90	7,300	7,000	5,600	5,500	4,800	4,700	-
95	8,300	7,600	9,100	7,300	8,800	7,100	-	95	7,000	6,600	5,500	5,400	4,700	4,600	-
100	7,400	7,100	8,100	6,900	8,500	6,700	-	100	6,700	6,200	5,400	5,300	4,500	4,500	-
105	6,500	6,700	7,100	6,500	7,500	6,400	-	105	6,500	5,800	5,200	5,100	4,500	4,400	-
110	5,700	6,300	6,300	6,100	6,600	6,000	-	110	6,300	5,400	5,100	5,000	4,400	4,300	-
115	5,000	6,000	5,500	5,800	5,800	5,700	-	115	5,800	5,100	5,000	4,900	4,300	4,200	-
120	4,400	5,600	4,800	5,500	-	-	-	120	5,200	4,800	4,800	4,700	4,200	4,200	-
125	3,800	5,300	4,200	5,200	-	-	-	125	4,600	4,500	4,700	4,400	4,100	4,100	-
130	3,300	5,100	3,600	5,000	-	-	-	130	4,000	4,300	4,600	4,200	4,100	4,000	-
135	2,800	4,700	3,100	4,700	-	-	-	135	3,500	4,100	4,300	4,000	4,000	3,900	-
140	2,400	4,200	2,600	4,400	-	-	-	140	3,100	3,800	3,700	3,800	4,000	3,700	-
145	2,000	3,800	-	-	-	-	-	145	2,700	3,600	3,200	3,600	-	-	-
150	-	3,400	-	-	-	-	-	150	2,300	3,400	2,800	3,400	-	-	-
155	-	-	-	-	-	-	-	155	1,900	3,300	2,400	3,200	-	-	-
160	-	-	-	-	-	-	-	160	1,600	3,100	2,000	3,100	-	-	-
165	-	-	-	-	-	-	-	165	1,300	2,900	1,600	2,900	-	-	-
170	-	-	-	-	-	-	-	170	1,000	2,600	-	-	-	-	-
1)	1	2	1	2	1	2		1)	1	2	1	2	1	2	

1) Telescopic mode



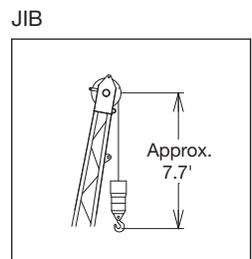
SMART CW2

Operation



NOTE:

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



Operation

Fully extended – 360° – Smart Chart / SMART CW2

20,100 lb				360°			
23' 11-3/8" spread							
154.2' + 33.2'				154.2' + 58.1'			
ft	3.5°	25°	45°	ft	3.5°	25°	45°
1,000 lb				1,000 lb			
40	11,900	-	-	40	-	-	-
45	11,900	-	-	45	-	-	-
50	11,900	-	-	50	7,300	-	-
55	11,900	11,900	-	55	7,300	-	-
60	11,900	11,900	10,000	60	7,300	-	-
65	11,900	11,900	9,800	65	7,300	-	-
70	11,900	11,100	9,600	70	7,300	6,200	-
75	11,900	10,400	9,400	75	7,300	6,000	-
80	10,800	9,800	9,300	80	7,300	5,900	5,100
85	10,100	9,200	8,800	85	7,300	5,700	5,000
90	9,500	8,700	8,300	90	7,200	5,600	4,900
95	8,900	8,200	7,900	95	7,000	5,400	4,800
100	8,400	7,800	7,500	100	6,700	5,300	4,800
105	7,900	7,400	7,200	105	6,500	5,200	4,700
110	7,400	7,100	6,800	110	6,300	5,100	4,600
115	6,700	6,700	6,500	115	6,000	5,000	4,500
120	6,000	6,400	6,200	120	5,600	4,900	4,500
125	5,300	5,900	6,000	125	5,400	4,800	4,400
130	4,700	5,200	5,400	130	5,000	4,700	4,400
135	4,200	4,600	4,800	135	4,500	4,500	4,300
140	3,700	4,100	4,300	140	4,000	4,300	4,300
145	3,200	3,600	-	145	3,500	4,100	4,300
150	2,800	3,100	-	150	3,100	3,900	4,200
155	2,400	2,700	-	155	2,800	3,400	3,800
160	2,100	2,300	-	160	2,400	3,000	3,400
165	1,700	1,900	-	165	2,100	2,600	2,900
170	1,400	-	-	170	1,800	2,200	-
175	-	-	-	175	1,500	1,900	-
180	-	-	-	180	1,200	1,600	-
1)	1, 2	1, 2	1, 2	1)	1, 2	1, 2	1, 2

1) Telescopic mode



Operation

Fully extended – 360° – Smart Chart / SMART CW2

20,100 lb								360°							
23' 11-3/8" spread															
139.8' + 33.2'								139.8' + 58.1'							
ft	3.5°	3.5°	25°	25°	45°	45°	1,000 lb	ft	3.5°	3.5°	25°	25°	45°	45°	1,000 lb
35	14,100	13,000	-	-	-	-	-	35	-	-	-	-	-	-	-
40	14,100	13,000	-	-	-	-	-	40	-	-	-	-	-	-	-
45	14,100	13,000	-	-	-	-	-	45	8,200	-	-	-	-	-	-
50	14,100	13,000	13,400	13,000	-	-	-	50	8,200	7,700	-	-	-	-	-
55	14,100	13,000	12,900	12,800	10,300	-	-	55	8,200	7,700	-	-	-	-	-
60	14,100	13,000	12,400	12,200	10,000	10,000	-	60	8,200	7,700	-	-	-	-	-
65	14,100	12,500	12,000	11,400	9,800	9,700	-	65	8,200	7,700	6,500	-	-	-	-
70	14,100	11,600	11,600	10,600	9,600	9,500	-	70	8,200	7,700	6,300	6,200	-	-	-
75	13,600	10,800	11,300	9,900	9,400	9,400	-	75	8,100	7,700	6,100	6,100	-	-	-
80	12,500	10,000	10,900	9,300	9,200	8,900	-	80	7,800	7,700	6,000	5,900	5,100	5,100	-
85	11,500	9,400	10,600	8,800	9,100	8,400	-	85	7,500	7,400	5,800	5,700	5,000	5,000	-
90	10,600	8,800	10,300	8,200	8,900	8,000	-	90	7,300	7,100	5,600	5,600	5,000	4,900	-
95	9,800	8,300	10,000	7,800	8,800	7,500	-	95	7,000	6,900	5,500	5,400	4,900	4,800	-
100	9,100	7,800	9,300	7,400	8,700	7,100	-	100	6,800	6,700	5,400	5,300	4,800	4,800	-
105	8,300	7,300	8,600	7,000	8,600	6,800	-	105	6,600	6,300	5,200	5,200	4,700	4,700	-
110	7,400	6,900	8,000	6,600	8,100	6,500	-	110	6,400	5,900	5,100	5,100	4,600	4,600	-
115	6,600	6,600	7,200	6,300	7,500	6,200	-	115	6,200	5,600	5,000	5,000	4,500	4,500	-
120	5,900	6,200	6,400	6,000	6,700	5,900	-	120	6,000	5,200	4,900	4,900	4,400	4,400	-
125	5,300	5,900	5,700	5,700	5,900	5,600	-	125	5,800	5,000	4,800	4,700	4,400	4,300	-
130	4,700	5,500	5,100	5,400	5,200	5,400	-	130	5,300	4,700	4,700	4,500	4,300	4,300	-
135	4,100	5,000	4,500	5,200	-	-	-	135	4,700	4,500	4,500	4,300	4,200	4,200	-
140	3,600	4,500	3,900	4,800	-	-	-	140	4,200	4,200	4,500	4,100	4,200	4,200	-
145	3,200	4,000	3,400	4,300	-	-	-	145	3,800	4,000	4,300	3,900	4,100	4,000	-
150	2,800	3,600	3,000	3,800	-	-	-	150	3,400	3,800	3,900	3,700	4,100	3,800	-
155	2,400	3,200	2,500	3,400	-	-	-	155	3,000	3,600	3,500	3,500	-	-	-
160	2,000	2,800	-	-	-	-	-	160	2,600	3,300	3,100	3,400	-	-	-
165	-	-	-	-	-	-	-	165	2,200	3,000	2,600	3,200	-	-	-
170	-	-	-	-	-	-	-	170	1,900	2,600	2,300	3,000	-	-	-
175	-	-	-	-	-	-	-	175	1,600	2,400	1,900	2,600	-	-	-
180	-	-	-	-	-	-	-	180	1,300	2,100	1,500	2,200	-	-	-

1) Telescopic mode



SMART CW2



Smart Chart

Operation

Fully extended – 360° – Smart Chart / SMART CW2

20,100 lb								360°							
23' 11-3/8" spread								125.5' + 58.1'							
125.5' + 33.2'								125.5' + 58.1'							
3.5° 3.5° 25° 25° 45° 45°								3.5° 3.5° 25° 25° 45° 45°							
ft								ft							
1,000 lb								1,000 lb							
30	14,600	14,300	-	-	-	-	-	30	-	-	-	-	-	-	-
35	14,600	14,300	-	-	-	-	-	35	-	-	-	-	-	-	-
40	14,600	14,300	-	-	-	-	-	40	9,300	8,400	-	-	-	-	-
45	14,600	14,300	13,900	13,700	-	-	-	45	9,300	8,400	-	-	-	-	-
50	14,600	14,300	13,300	13,100	10,500	10,400	-	50	9,300	8,400	-	-	-	-	-
55	14,600	13,900	12,800	12,600	10,200	10,100	-	55	9,300	8,400	-	-	-	-	-
60	14,600	12,700	12,300	11,600	10,000	9,900	-	60	9,300	8,400	6,800	6,700	-	-	-
65	14,600	11,700	11,800	10,800	9,800	9,700	-	65	8,900	8,400	6,600	6,400	-	-	-
70	14,600	10,800	11,400	10,000	9,500	9,500	-	70	8,500	8,200	6,400	6,200	-	-	-
75	14,300	10,000	11,100	9,400	9,400	9,000	-	75	8,200	7,900	6,200	6,000	5,200	5,100	-
80	13,200	9,300	10,800	8,800	9,200	8,500	-	80	7,800	7,600	6,000	5,900	5,000	5,000	-
85	12,200	8,700	10,400	8,200	9,100	8,000	-	85	7,500	7,300	5,800	5,700	4,900	4,900	-
90	11,300	8,100	10,200	7,700	8,900	7,500	-	90	7,300	7,000	5,600	5,500	4,800	4,700	-
95	10,300	7,600	9,900	7,300	8,800	7,100	-	95	7,000	6,600	5,500	5,400	4,700	4,600	-
100	9,100	7,100	9,700	6,900	8,700	6,700	-	100	6,700	6,200	5,400	5,300	4,500	4,500	-
105	8,200	6,700	8,800	6,500	8,600	6,400	-	105	6,500	5,800	5,200	5,100	4,500	4,400	-
110	7,300	6,300	7,900	6,100	8,200	6,000	-	110	6,300	5,400	5,100	5,000	4,400	4,300	-
115	6,500	6,000	7,000	5,800	7,300	5,700	-	115	6,100	5,100	5,000	4,900	4,300	4,200	-
120	5,800	5,600	6,300	5,500	-	-	-	120	5,900	4,800	4,800	4,700	4,200	4,200	-
125	5,200	5,300	5,600	5,200	-	-	-	125	5,800	4,500	4,700	4,400	4,100	4,100	-
130	4,600	5,100	4,900	5,000	-	-	-	130	5,300	4,300	4,600	4,200	4,100	4,000	-
135	4,000	4,800	4,300	4,700	-	-	-	135	4,800	4,100	4,500	4,000	4,000	3,900	-
140	3,500	4,600	3,700	4,500	-	-	-	140	4,300	3,800	4,400	3,800	4,000	3,700	-
145	3,100	4,400	-	-	-	-	-	145	3,800	3,600	4,300	3,600	-	-	-
150	-	4,200	-	-	-	-	-	150	3,400	3,400	3,900	3,400	-	-	-
155	-	-	-	-	-	-	-	155	3,000	3,300	3,400	3,200	-	-	-
160	-	-	-	-	-	-	-	160	2,600	3,100	3,000	3,100	-	-	-
165	-	-	-	-	-	-	-	165	2,300	3,000	-	2,900	-	-	-
170	-	-	-	-	-	-	-	170	2,000	2,800	-	-	-	-	-
1)	1	2	1	2	1	2		1)	1	2	1	2	1	2	

1) Telescopic mode



SMART CW2



Smart Chart

Notes to Lifting Capacity

GENERAL

1. RATED LIFTING CAPACITIES apply only to the machine as originally manufactured and normally equipped by TADANO LTD. Modifications to the machine or use of optional equipment other than that specified can result in a reduction of capacity.
2. Hydraulic cranes can be hazardous if improperly operated or maintained. Operation and maintenance of this machine must be in compliance with information, in the operation manual supplied with the crane. If this manual is missing, order a replacement through the distributor.
3. The operator and other personnel associated with this machine shall fully acquaint themselves with the latest American National Standards Institute (ANSI) safety standards for cranes.

SET UP

1. Rated lifting capacities on the chart are the maximum allowable crane capacities and are based on the machine standing level on firm supporting surface under ideal job conditions. Depending on the nature of the supporting surface, it may be necessary to have structural supports under the outrigger floats or tires to spread the loads to a larger bearing surface.
2. For outrigger operation, outriggers shall be properly extended with tires free of supporting surface before operating crane.

OPERATION

1. Rated lifting capacities have been tested to and meet minimum requirements of SAE J1063-Cantilevered Boom Crane Structures Method of Test. Rated lifting capacities do not exceed 85% of the tipping load on outriggers fully extended as determined by SAE J765-Crane Stability Test Code.
2. Rated lifting capacities for partially extended outriggers are determined from the formula, rated lifting capacities = (tipping load - 0.1 × tip reaction) / 1.25.
3. Rated lifting capacities are based on actual load radius increased by boom deflection.
4. The weight of handling device such as hook blocks, slings, etc., must be considered as part of the load and must be deducted from the lifting capacities.
5. Rated lifting capacities are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, inflation of tires, operating speeds, side loads, etc. Side pull on boom or jib is extremely dangerous. Such action can damage the boom, jib or slewing mechanism, and lead to overturning of the crane.
6. Rated lifting capacities do not account for wind on lifted load or boom. We recommend against working under the condition that the load is out of control due to a strong wind. During boom lift, consider that the rated lifting capacity is reduced by 50% when the wind speed is 20 mph to 27 mph; reduced by 70% when the wind speed is 27 mph to 31 mph. If the wind speed is 31 mph or over, stop operation. During jib lift, stop operation if the wind speed is 20 mph or over.
7. Rated lifting capacities at load radius shall not be exceeded. Do not tip the crane to determine allowable loads.
8. Do not operate at boom lengths, radii, or boom angle, where no capacities are shown. Crane may overturn without any load on the hook.
9. When boom length is between values listed, refer to the rated lifting capacities of the next longer and next shorter booms for the same radius. The lesser of the two rated lifting capacities shall be used.
10. When making lifts at a load radius not shown, use the next longer radius to determine allowable capacity.
11. Load per line should not exceed 14,600 lb for main winch and auxiliary winch.
12. Check the actual number of parts of line with LOAD MOMENT INDICATOR (AML-E2) before operation. Maximum lifting capacity is restricted by the number of parts of line of LOAD MOMENT INDICATOR (AML-E2). Limited capacity is as determined from the formula, single line pull for main winch 14,600 lb × number of parts of line.
13. The boom angle before loading should be greater to account for deflection. For rated lifting capacities, the loaded boom angle and the load radius is for reference only.
14. The 39.4' boom length capacities are based on boom fully retracted. If not fully retracted [less than 53.7' boom length], use the rated lifting capacities for the 53.7' boom length.
15. Extension or retraction of the boom with loads may be attempted within the limits of the RATED LIFTING CAPACITIES. The ability to telescope loads is limited by hydraulic pressure, boom angle, boom length, crane maintenance, etc. For lifting capacity of single top, deduct the weight of the load handling equipment from the rated lifting capacity of the boom.
16. For the lifting capacity of single top, the net capacity shall not exceed 14,600 lb including the main boom hook mass attached to the boom.
17. When the base jib or top jib or both jibs are removed, set the jib state switch to the REMOVED position.
18. When erecting and stowing jib, be sure to retain it by hand or by other means to prevent its free movement.
19. Use "ANTI-TWO BLOCK" disable switch when erecting and stowing jib and when stowing hook block. While the switch is pushed, the hoist does not stop, even when overwind condition occurs.
20. When lifting a load by using jib (aux. winch) and boom (main winch) simultaneously, do the following:
 - Enter the operation status as jib operation, not as boom operation.
 - Before starting operation, make sure that mass of load is within rated lifting capacity for jib.
21. Before telescoping the boom, set the telescoping mode selector switch to mode 1 or mode 2 fully retracted. A change of the telescoping mode is not permissible when the boom has been partially or fully extended.
22. Crane operation is prohibited without full counterweight 20,100 lb installed. Outriggers shall be extended 23' 11-3/8" spread when installing or removing removable counterweight.

DEFINITIONS

1. Load radius: Horizontal distance from a projection of the axis of rotation to supporting surface before loading to the center of the vertical hoist line or tackle with load applied.
2. Loaded boom angle: The angle between the boom base section and the horizontal, after lifting the rated lifting capacity at the load radius.
3. Working area: Area measured in a circular arc about the centerline of rotation.
4. Freely suspended load: Load hanging free with no direct external force applied except by the hoist line.
5. Side load: Horizontal side force applied to the lifted load either on the ground or in the air.