

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

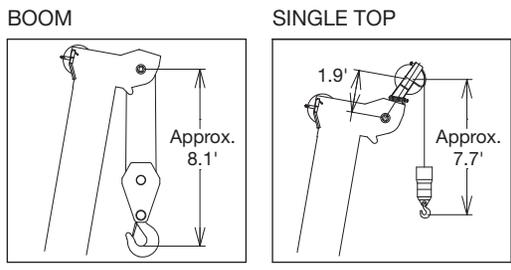
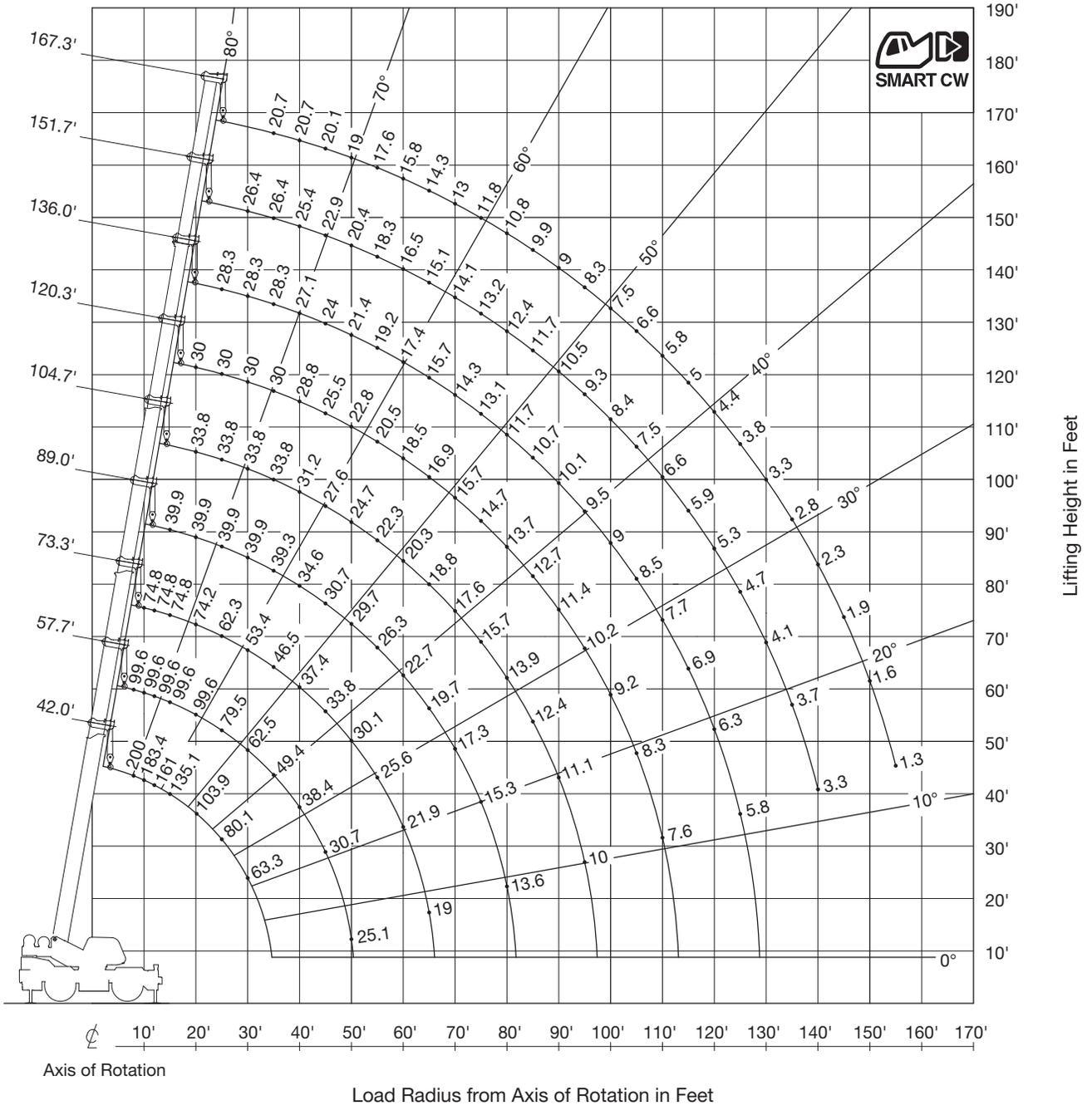
24,700 lb		23' 11-3/8" spread										360°						
		42.0'	57.7'	73.3'	73.3'	89.0'	89.0'	104.7'	104.7'	120.3'	120.3'	136.0'	136.0'	151.7'	151.7'	167.3'		
ft		1,000 lb															ft	
8	200,000	99,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	
10	180,900	99,600	74,800	33,800	-	-	-	-	-	-	-	-	-	-	-	-	10	
12	158,800	99,600	74,800	33,800	-	-	-	-	-	-	-	-	-	-	-	-	12	
15	133,100	99,600	74,800	33,800	39,900	29,700	-	-	-	-	-	-	-	-	-	-	15	
20	102,000	99,600	74,200	33,800	39,900	29,700	33,800	27,700	30,000	27,600	-	-	-	-	-	-	20	
25	78,500	77,900	62,300	33,800	39,900	29,700	33,800	27,700	30,000	27,600	28,300	27,500	-	-	-	-	25	
30	61,700	60,900	53,400	33,800	39,900	29,700	33,800	27,700	30,000	27,600	28,300	26,100	26,400	24,100	-	-	30	
35	-	47,600	46,300	33,800	39,300	29,700	33,800	27,700	30,000	27,400	28,300	23,900	26,400	23,600	20,700	-	35	
40	-	36,900	35,900	33,800	34,600	29,700	31,200	27,700	28,800	25,000	27,100	21,500	25,400	22,000	20,700	-	40	
45	-	29,400	28,500	33,800	30,600	29,700	27,600	26,300	25,500	23,000	24,000	19,500	22,900	20,500	20,100	-	45	
50	-	23,900	23,000	29,000	25,000	29,700	24,700	23,900	22,800	21,200	21,400	17,800	20,400	19,100	19,000	-	50	
55	-	-	18,800	24,500	20,800	25,300	21,800	22,000	20,500	19,800	19,200	16,300	18,300	17,600	17,600	-	55	
60	-	-	15,400	21,000	17,400	21,700	18,400	20,300	18,500	18,200	17,400	15,000	16,500	16,200	15,800	-	60	
65	-	-	12,800	18,200	14,600	18,900	15,700	18,800	16,400	16,900	15,700	14,000	14,900	15,100	14,300	-	65	
70	-	-	-	12,300	16,500	13,400	17,000	14,100	15,700	14,300	13,000	13,600	14,100	13,000	-	-	70	
75	-	-	-	10,400	14,600	11,400	15,000	12,200	14,700	12,700	12,100	12,400	13,200	11,800	-	-	75	
80	-	-	-	8,800	12,900	9,800	13,300	10,500	13,600	11,000	11,400	11,300	12,400	10,800	-	-	80	
85	-	-	-	-	-	8,400	11,800	9,100	12,100	9,600	10,700	10,000	11,200	9,900	-	-	85	
90	-	-	-	-	-	7,200	10,600	7,900	10,800	8,400	10,100	8,800	9,900	9,000	-	-	90	
95	-	-	-	-	-	6,100	9,500	6,800	9,700	7,300	9,500	7,600	8,800	7,900	-	-	95	
100	-	-	-	-	-	-	-	5,800	8,700	6,300	8,900	6,700	7,800	6,900	-	-	100	
105	-	-	-	-	-	-	-	5,000	7,900	5,500	8,000	5,800	7,000	6,100	-	-	105	
110	-	-	-	-	-	-	-	4,300	7,100	4,700	7,200	5,000	6,200	5,300	-	-	110	
115	-	-	-	-	-	-	-	-	-	4,000	6,500	4,300	5,500	4,600	-	-	115	
120	-	-	-	-	-	-	-	-	-	3,400	5,900	3,700	4,900	4,000	-	-	120	
125	-	-	-	-	-	-	-	-	-	2,900	5,400	3,200	4,300	3,400	-	-	125	
130	-	-	-	-	-	-	-	-	-	-	-	2,700	3,800	2,900	-	-	130	
135	-	-	-	-	-	-	-	-	-	-	-	-	2,200	3,300	2,400	-	135	
140	-	-	-	-	-	-	-	-	-	-	-	-	1,800	2,900	2,000	-	140	
145	-	-	-	-	-	-	-	-	-	-	-	-	-	1,600	-	-	145	
 1)	0°	0°	0°	0°	0°	0°	0°	0°	0°	10°	0°	12°	0°	15°	13°	26°		
2)	1, 2	1	1	2	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	-		
	42.0	57.7	73.3	73.3	89.0	89.0	104.7	104.7		120.3		136.0					(ft)	
	35.2	50.7	66.1	66.1	81.7	81.8	97.2	97.2		112.1		126.7					(ft)	
 3) 0°	19,700	10,900	4,600	9,500	3,200	6,700	1,800	5,100		4,400		3,900					(lb)	
1)	1, 2	1	1	2	1	2	1	2		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:

	42.0'	42.0' to 73.3'	73.3' to 167.3'	Single top jib
1)	1, 2	1	2	1, 2
	16	8	4	4



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

24,700 lb		23' 11-3/8" spread										360°					
		42.0'	57.7'	73.3'	73.3'	89.0'	89.0'	104.7'	104.7'	120.3'	120.3'	136.0'	136.0'	151.7'	151.7'	167.3'	
ft	1,000 lb															ft	
8	200,000	99,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
10	183,400	99,600	74,800	33,800	-	-	-	-	-	-	-	-	-	-	-	-	10
12	161,000	99,600	74,800	33,800	-	-	-	-	-	-	-	-	-	-	-	-	12
15	135,100	99,600	74,800	33,800	39,900	29,700	-	-	-	-	-	-	-	-	-	-	15
20	103,900	99,600	74,200	33,800	39,900	29,700	33,800	27,700	30,000	27,600	-	-	-	-	-	-	20
25	80,100	79,500	62,300	33,800	39,900	29,700	33,800	27,700	30,000	27,600	28,300	27,500	-	-	-	-	25
30	63,300	62,500	53,400	33,800	39,900	29,700	33,800	27,700	30,000	27,600	28,300	26,100	26,400	24,100	-	-	30
35	-	49,400	46,500	33,800	39,300	29,700	33,800	27,700	30,000	27,400	28,300	23,900	26,400	23,600	20,700	-	35
40	-	38,400	37,400	33,800	34,600	29,700	31,200	27,700	28,800	25,000	27,100	21,500	25,400	22,000	20,700	-	40
45	-	30,700	29,800	33,800	30,700	29,700	27,600	26,300	25,500	23,000	24,000	19,500	22,900	20,500	20,100	-	45
50	-	25,100	24,100	30,100	26,200	29,700	24,700	23,900	22,800	21,200	21,400	17,800	20,400	19,100	19,000	-	50
55	-	-	19,800	25,600	21,800	26,300	22,300	22,000	20,500	19,800	19,200	16,300	18,300	17,600	17,600	-	55
60	-	-	16,400	21,900	18,300	22,700	19,300	20,300	18,500	18,200	17,400	15,000	16,500	16,200	15,800	-	60
65	-	-	13,600	19,000	15,400	19,700	16,500	18,800	16,800	16,900	15,700	14,000	14,900	15,100	14,300	-	65
70	-	-	-	-	13,100	17,300	14,100	17,600	14,900	15,700	14,300	13,000	13,600	14,100	13,000	-	70
75	-	-	-	-	11,100	15,300	12,100	15,700	12,900	14,700	13,100	12,100	12,400	13,200	11,800	-	75
80	-	-	-	-	9,400	13,600	10,400	13,900	11,200	13,700	11,700	11,400	11,300	12,400	10,800	-	80
85	-	-	-	-	-	-	9,000	12,400	9,700	12,700	10,200	10,700	10,400	11,700	9,900	-	85
90	-	-	-	-	-	-	7,700	11,100	8,400	11,400	9,000	10,100	9,300	10,500	9,000	-	90
95	-	-	-	-	-	-	6,600	10,000	7,300	10,200	7,800	9,500	8,200	9,300	8,300	-	95
100	-	-	-	-	-	-	-	-	6,300	9,200	6,800	9,000	7,200	8,400	7,500	-	100
105	-	-	-	-	-	-	-	-	5,500	8,300	5,900	8,500	6,300	7,500	6,600	-	105
110	-	-	-	-	-	-	-	-	4,700	7,600	5,100	7,700	5,500	6,600	5,800	-	110
115	-	-	-	-	-	-	-	-	-	-	4,400	6,900	4,800	5,900	5,000	-	115
120	-	-	-	-	-	-	-	-	-	-	3,800	6,300	4,100	5,300	4,400	-	120
125	-	-	-	-	-	-	-	-	-	-	3,300	5,800	3,500	4,700	3,800	-	125
130	-	-	-	-	-	-	-	-	-	-	-	-	3,000	4,100	3,300	-	130
135	-	-	-	-	-	-	-	-	-	-	-	-	2,600	3,700	2,800	-	135
140	-	-	-	-	-	-	-	-	-	-	-	-	2,200	3,300	2,300	-	140
145	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,900	-	145
150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,600	-	150
155	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,300	-	155
	1)	0°	0°	0°	0°	0°	0°	0°	0°	10°	0°	12°	0°	15°	13°	18°	
2)	1, 2	1	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	
		42.0	57.7	73.3	73.3	89.0	89.0	104.7	104.7		120.3		136.0				(ft)
		35.2	50.7	66.1	66.1	81.7	81.8	97.2	97.2		112.1		126.7				(ft)
	3)	19,700	10,900	4,600	9,500	3,200	6,700	1,800	5,200		4,500		4,100				(lb)
	0°																
1)	1, 2	1	1	2	1	2	1	2			2		2				

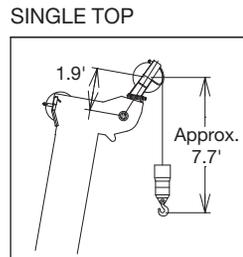
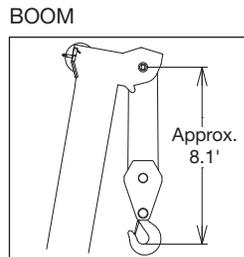
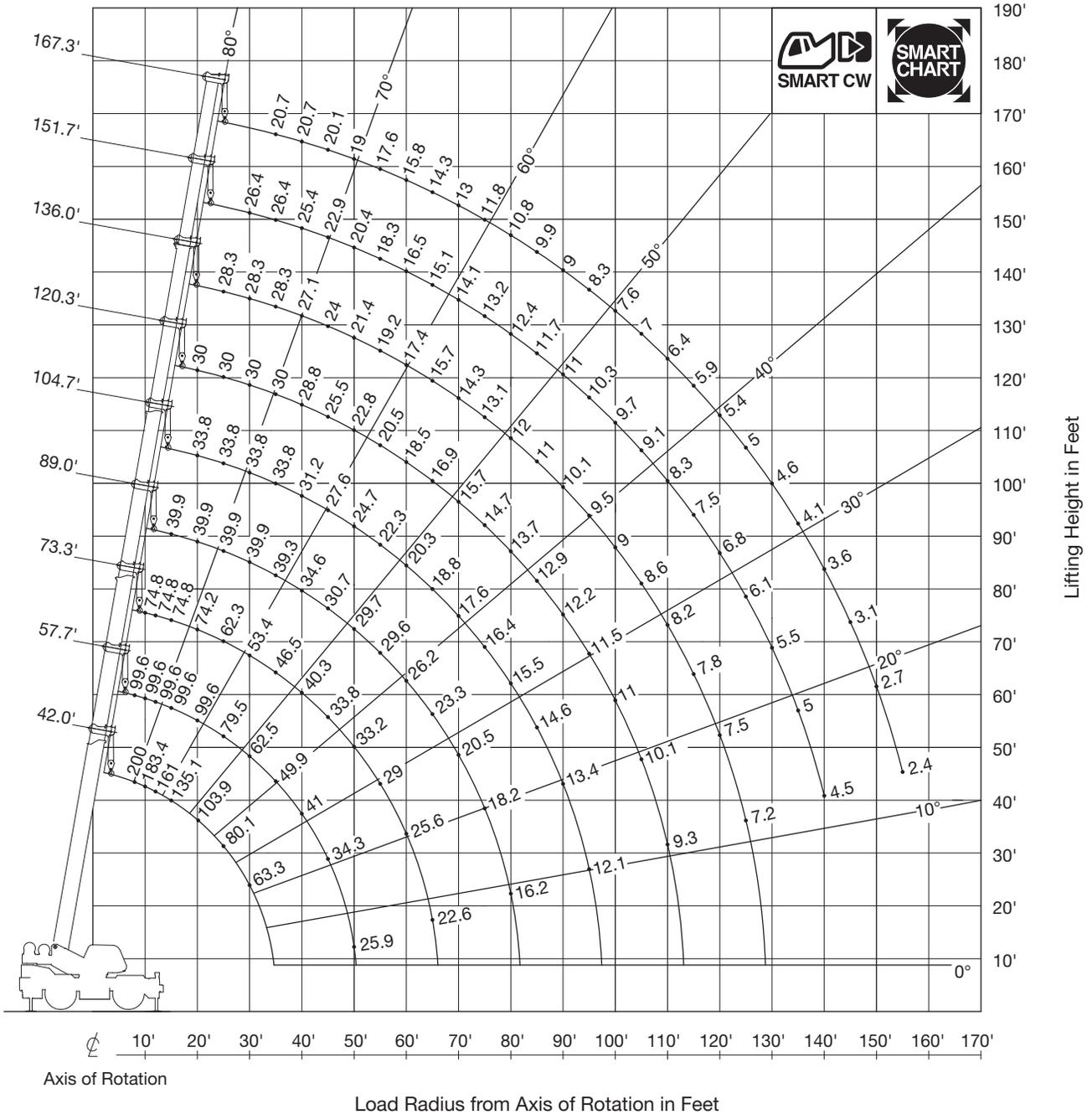
- 1) Minimum boom angle (°) for indicated length (no load)
- 2) Telescopic mode
- 3) Loaded boom angle (°)

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

	42.0'	42.0' to 73.3'	73.3' to 167.3'	Single top jib
1)	1, 2	1 2	1, 2	1, 2
	16	8 4	4	1



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.

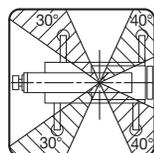
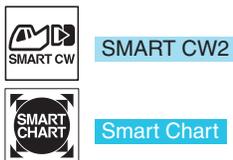
Operation

Fully extended – 360° – Smart Chart / SMART CW2

24,700 lb		23' 11-3/8" spread										360°					
		42.0'	57.7'	73.3'	73.3'	89.0'	89.0'	104.7'	104.7'	120.3'	120.3'	136.0'	136.0'	151.7'	151.7'	167.3'	
ft	1,000 lb															ft	
8	200,000	99,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
10	183,400	99,600	74,800	33,800	-	-	-	-	-	-	-	-	-	-	-	-	10
12	161,000	99,600	74,800	33,800	-	-	-	-	-	-	-	-	-	-	-	-	12
15	135,100	99,600	74,800	33,800	39,900	29,700	-	-	-	-	-	-	-	-	-	-	15
20	103,900	99,600	74,200	33,800	39,900	29,700	33,800	27,700	30,000	27,600	-	-	-	-	-	-	20
25	80,100	79,500	62,300	33,800	39,900	29,700	33,800	27,700	30,000	27,600	28,300	27,500	-	-	-	-	25
30	63,300	62,500	53,400	33,800	39,900	29,700	33,800	27,700	30,000	27,600	28,300	26,100	26,400	24,100	-	-	30
35	-	49,900	46,500	33,800	39,300	29,700	33,800	27,700	30,000	27,600	28,300	23,900	26,400	23,600	20,700	-	35
40	-	41,000	40,300	33,800	34,600	29,700	31,200	27,700	28,800	25,000	27,100	21,500	25,400	22,000	20,700	-	40
45	-	34,300	33,600	33,800	30,700	29,700	27,600	26,300	25,500	23,000	24,000	19,500	22,900	20,500	20,100	-	45
50	-	29,200	28,400	33,200	27,500	29,700	24,700	23,900	22,800	21,200	21,400	17,800	20,400	19,100	19,000	-	50
55	-	-	24,200	29,000	24,800	29,600	22,300	22,000	20,500	19,800	19,200	16,300	18,300	17,600	17,600	-	55
60	-	-	20,200	25,600	22,200	26,200	20,200	20,300	18,500	18,200	17,400	15,000	16,500	16,200	15,800	-	60
65	-	-	17,100	22,600	18,900	23,300	18,300	18,800	16,800	16,900	15,700	14,000	14,900	15,100	14,300	-	65
70	-	-	-	-	16,100	20,500	16,800	17,600	15,400	15,700	14,300	13,000	13,600	14,100	13,000	-	70
75	-	-	-	-	13,900	18,200	15,000	16,400	14,100	14,700	13,100	12,100	12,400	13,200	11,800	-	75
80	-	-	-	-	11,900	16,200	13,000	15,500	12,900	13,700	12,000	11,400	11,300	12,400	10,800	-	80
85	-	-	-	-	-	-	11,300	14,600	11,900	12,900	11,000	10,700	10,400	11,700	9,900	-	85
90	-	-	-	-	-	-	9,900	13,400	10,600	12,200	10,100	10,100	9,500	11,000	9,000	-	90
95	-	-	-	-	-	-	8,600	12,100	9,300	11,500	9,300	9,500	8,700	10,300	8,300	-	95
100	-	-	-	-	-	-	-	-	8,200	11,000	8,600	9,000	8,000	9,700	7,600	-	100
105	-	-	-	-	-	-	-	-	7,200	10,100	7,700	8,600	7,400	9,100	7,000	-	105
110	-	-	-	-	-	-	-	-	6,300	9,300	6,800	8,200	6,800	8,300	6,400	-	110
115	-	-	-	-	-	-	-	-	-	-	6,000	7,800	6,300	7,500	5,900	-	115
120	-	-	-	-	-	-	-	-	-	-	5,300	7,500	5,600	6,800	5,400	-	120
125	-	-	-	-	-	-	-	-	-	-	4,700	7,200	5,000	6,100	5,000	-	125
130	-	-	-	-	-	-	-	-	-	-	-	-	4,400	5,500	4,600	-	130
135	-	-	-	-	-	-	-	-	-	-	-	-	3,800	5,000	4,100	-	135
140	-	-	-	-	-	-	-	-	-	-	-	-	3,400	4,500	3,600	-	140
145	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,100	-	145
150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,700	-	150
155	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,400	-	155
	1)	0°	0°	0°	0°	0°	0°	0°	0°	9°	0°	11°	0°	13°	12°	16°	
2)	1, 2	1	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	
		42.0	57.7	73.3	73.3	89.0	89.0	104.7	104.7		120.3		136.0				(ft)
		35.2	50.7	66.1	66.1	81.7	81.7	97.2	97.2		112.1		126.5				(ft)
	3)	19,700	10,900	4,600	9,500	3,400	7,000	2,000	5,400		5,100		5,200				(lb)
	0°																
1)	1, 2	1	1	2	1	2	1	2			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:



	42.0'	42.0' to 73.3'	73.3' to 167.3'	Single top jib
1)	1, 2	1 2	1, 2	1, 2
	16	8 4	4	1

On rubber stationary – SMART CW1

24,700 lb		0°*			
ft	1,000 lb				
12	65,000	-	-	-	-
15	53,700	-	-	-	-
20	40,400	33,800	29,700	-	-
25	31,400	33,800	29,700	27,700	-
30	24,200	27,300	27,800	27,700	-
35	-	21,200	21,700	22,000	-
40	-	16,800	17,400	17,800	-
45	-	13,600	14,200	14,500	-
50	-	11,100	11,600	12,000	-
55	-	9,100	9,700	10,000	-
60	-	7,500	8,000	8,400	-
65	-	6,200	6,700	7,100	-
70	-	-	5,600	5,900	-
75	-	-	4,700	5,000	-
80	-	-	3,900	4,200	-
85	-	-	-	3,400	-
90	-	-	-	2,800	-
95	-	-	-	2,300	-

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

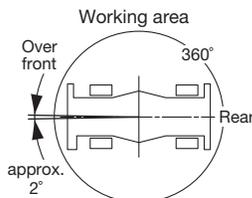
42.0'	73.3'	89.0'	104.7'
35.2'	66.1'	81.8'	97.2'
18,400	5,100	3,300	2,200

24,700 lb		360°			
ft	1,000 lb				
12	43,000	-	-	-	-
15	32,600	-	-	-	-
20	19,400	22,900	22,900	-	-
25	12,500	15,700	16,400	16,800	-
30	8,100	11,200	11,800	12,200	-
35	-	8,100	8,700	9,100	-
40	-	5,800	6,400	6,800	-
45	-	4,100	4,700	5,100	-
50	-	2,800	3,400	3,700	-
55	-	1,700	2,300	2,600	-
60	-	-	-	-	-
65	-	-	-	-	-
70	-	-	-	-	-
75	-	-	-	-	-
80	-	-	-	-	-
85	-	-	-	-	-
90	-	-	-	-	-
95	-	-	-	-	-

1)	0°	29°	43°	50°
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

42.0'	
35.2'	
5,100	

- 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.

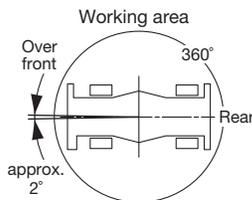
42.0'	42.0' to 104.7'	Single top jib
6	4	1

Operation

On rubber creep – SMART CW1

24,700 lb		0°*			
ft	1,000 lb				
12	50,600	-	-	-	-
15	41,400	-	-	-	-
20	30,400	33,300	29,700	-	-
25	23,200	26,100	26,700	27,000	-
30	17,900	20,900	21,500	21,900	-
35	-	17,000	17,600	17,900	-
40	-	13,900	14,500	14,900	-
45	-	11,400	12,000	12,400	-
50	-	9,400	10,000	10,400	-
55	-	7,700	8,300	8,700	-
60	-	6,300	6,900	7,300	-
65	-	5,100	5,700	6,100	-
70	-	-	4,700	5,000	-
75	-	-	3,800	4,100	-
80	-	-	3,000	3,300	-
85	-	-	-	2,600	-
90	-	-	-	2,000	-
95	-	-	-	1,500	-
1) 	0°	0°	0°	0°	0°
2) 	1, 2	2	2	2	2
2.	0	0	0	0	0
3.	0	33	50	67	
4.	0	33	50	67	
Top	0	33	50	67	
	42.0'	73.3'	89.0'	104.7'	
	35.2'	66.1'	81.8'	97.2'	
3)  0°	13,800	4,200	2,400	1,400	

- 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.

	42.0'	42.0' to 104.7'	Single top jib
	6	4	1

On rubber stationary – SMART CW2

24,700 lb		0°*			
ft	42.0°	73.3°	89.0°	104.7°	
1,000 lb					
12	67,600	-	-	-	
15	56,000	-	-	-	
20	42,300	33,800	29,700	-	
25	33,000	33,800	29,700	27,700	
30	25,900	29,000	29,400	27,700	
35	-	22,600	23,000	23,300	
40	-	18,000	18,600	18,800	
45	-	14,600	15,200	15,500	
50	-	12,000	12,500	12,900	
55	-	9,900	10,500	10,800	
60	-	8,200	8,800	9,100	
65	-	6,900	7,400	7,700	
70	-	-	6,200	6,500	
75	-	-	5,200	5,600	
80	-	-	4,400	4,700	
85	-	-	-	3,900	
90	-	-	-	3,300	
95	-	-	-	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

42.0°	73.3°	89.0°	104.7°
35.2°	66.1°	81.8°	97.2°
19,900	5,700	3,700	2,600

24,700 lb		360°			
ft	42.0°	73.3°	89.0°	104.7°	
1,000 lb					
12	-	-	-	-	
15	-	-	-	-	
20	21,800	-	-	-	
25	14,200	17,500	-	-	
30	9,500	12,600	13,200	13,200	
35	-	9,300	9,900	10,300	
40	-	6,900	7,500	7,900	
45	-	5,000	5,600	6,000	
50	-	3,600	4,200	4,600	
55	-	2,500	3,000	3,400	
60	-	1,500	2,100	2,400	
65	-	-	1,300	-	
70	-	-	-	-	
75	-	-	-	-	
80	-	-	-	-	
85	-	-	-	-	
90	-	-	-	-	
95	-	-	-	-	

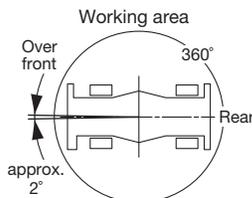
1)	0°	20°	37°	47°
2)	1, 2	2	2	2
2.	0	0	0	0
3.	0	33	50	67
4.	0	33	50	67
Top	0	33	50	67

42.0°	
35.2°	
6,200	

- 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.

42.0°	42.0° to 104.7°	Single top jib
6	4	1

Operation

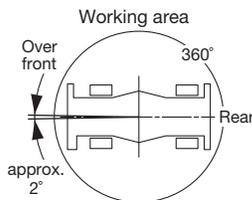
On rubber creep – SMART CW2

24,700 lb		0°*			
		42.0°	73.3°	89.0°	104.7°
ft	1,000 lb				
12	53,300	-	-	-	-
15	43,600	-	-	-	-
20	32,300	33,800	29,700	-	-
25	24,800	27,600	28,200	27,700	-
30	19,300	22,300	22,900	23,200	-
35	-	18,100	18,700	19,100	-
40	-	14,900	15,500	15,900	-
45	-	12,300	12,900	13,300	-
50	-	10,200	10,800	11,200	-
55	-	8,500	9,100	9,500	-
60	-	7,000	7,600	8,000	-
65	-	5,800	6,400	6,800	-
70	-	-	5,300	5,700	-
75	-	-	4,400	4,700	-
80	-	-	3,600	3,900	-
85	-	-	-	3,200	-
90	-	-	-	2,500	-
95	-	-	-	2,000	-
 1)	0°	0°	0°	0°	0°
2)	1, 2	2	2	2	2
 2.	0	0	0	0	0
3.	0	33	50	67	
4.	0	33	50	67	
Top	0	33	50	67	
	42.0°	73.3°	89.0°	104.7°	
	35.2°	66.1°	81.8°	97.2°	
 3) 0°	14,700	4,800	3,000	1,900	

- 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.

	42.0°	42.0° to 104.7°	Single top jib
	6	4	1

Operation

Fully extended – 360° – SMART CW1

24,700 lb				360°							
23' 11-3/8" spread				167.3' + 33.2'				167.3' + 58.1'			
ft	3.5°	25°	45°	ft	3.5°	25°	45°	ft	3.5°	25°	45°
1,000 lb				1,000 lb				1,000 lb			
45	10,400	-	-	45	-	-	-	45	-	-	-
50	10,400	-	-	50	-	-	-	50	-	-	-
55	10,400	-	-	55	6,700	-	-	55	6,700	-	-
60	10,400	10,400	-	60	6,700	-	-	60	6,700	-	-
65	10,400	10,400	9,800	65	6,700	-	-	65	6,700	-	-
70	10,400	10,400	9,600	70	6,700	-	-	70	6,700	-	-
75	10,400	10,200	9,400	75	6,700	6,200	-	75	6,700	6,200	-
80	10,400	9,500	9,000	80	6,700	6,100	-	80	6,700	6,100	-
85	9,800	9,000	8,500	85	6,700	5,900	-	85	6,700	5,900	-
90	9,200	8,500	8,100	90	6,700	5,800	4,800	90	6,700	5,800	4,800
95	8,500	8,000	7,700	95	6,700	5,600	4,700	95	6,700	5,600	4,700
100	7,500	7,600	7,300	100	6,700	5,500	4,600	100	6,700	5,500	4,600
105	6,700	7,200	6,900	105	6,600	5,400	4,500	105	6,600	5,400	4,500
110	5,800	6,700	6,600	110	6,200	5,300	4,400	110	6,200	5,300	4,400
115	5,100	5,900	6,300	115	5,400	5,200	4,300	115	5,400	5,200	4,300
120	4,500	5,200	5,600	120	4,800	5,000	4,200	120	4,800	5,000	4,200
125	3,900	4,500	4,900	125	4,200	4,900	4,200	125	4,200	4,900	4,200
130	3,300	3,900	4,300	130	3,600	4,600	4,100	130	3,600	4,600	4,100
135	2,800	3,400	3,700	135	3,100	4,200	4,000	135	3,100	4,200	4,000
140	2,400	2,800	3,100	140	2,700	3,700	4,000	140	2,700	3,700	4,000
145	1,900	2,400	2,600	145	2,200	3,200	3,800	145	2,200	3,200	3,800
150	1,500	1,900	2,100	150	1,900	2,700	3,200	150	1,900	2,700	3,200
155	-	1,500	-	155	1,500	2,300	2,800	155	1,500	2,300	2,800
160	-	-	-	160	-	1,900	2,300	160	-	1,900	2,300
165	-	-	-	165	-	1,500	1,900	165	-	1,500	1,900
170	-	-	-	170	-	-	1,500	170	-	-	1,500
1)	1, 2	1, 2	1, 2	1)	1, 2	1, 2	1, 2	1)	1, 2	1, 2	1, 2

1) Telescopic mode

Operation

Fully extended – 360° – SMART CW1

24,700 lb								23' 11-3/8" spread								360°													
		3.5°		3.5°		25°		25°		45°		45°				3.5°		3.5°		25°		25°		45°		45°			
ft						1,000 lb								ft						1,000 lb									
40	12,500	11,500	-	-	-	-	-	-	-	-	-	-	-	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
45	12,500	11,500	-	-	-	-	-	-	-	-	-	-	-	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50	12,500	11,500	-	-	-	-	-	-	-	-	-	-	-	50	7,600	7,200	-	-	-	-	-	-	-	-	-	-	-	-	
55	12,500	11,500	12,500	11,500	-	-	-	-	-	-	-	-	-	55	7,600	7,200	-	-	-	-	-	-	-	-	-	-	-	-	
60	12,500	11,500	12,500	11,500	10,000	10,000	-	-	-	-	-	-	-	60	7,600	7,200	-	-	-	-	-	-	-	-	-	-	-	-	
65	12,500	11,500	12,100	11,100	9,800	9,700	-	-	-	-	-	-	-	65	7,600	7,200	-	-	-	-	-	-	-	-	-	-	-	-	
70	12,500	11,500	11,700	10,300	9,600	9,500	-	-	-	-	-	-	-	70	7,600	7,200	6,500	6,500	-	-	-	-	-	-	-	-	-	-	
75	12,500	10,900	11,400	9,700	9,400	9,200	-	-	-	-	-	-	-	75	7,600	7,200	6,300	6,300	-	-	-	-	-	-	-	-	-	-	
80	11,700	10,300	11,000	9,100	9,200	8,600	-	-	-	-	-	-	-	80	7,600	7,200	6,200	6,100	5,000	-	-	-	-	-	-	-	-	-	
85	10,700	9,800	10,700	8,500	9,100	8,200	-	-	-	-	-	-	-	85	7,600	7,200	6,000	5,900	4,900	4,900	-	-	-	-	-	-	-	-	
90	9,800	8,600	10,100	8,000	8,900	7,700	-	-	-	-	-	-	-	90	7,600	7,200	5,900	5,800	4,800	4,800	-	-	-	-	-	-	-	-	
95	8,700	8,000	9,300	7,600	8,800	7,300	-	-	-	-	-	-	-	95	7,300	7,000	5,700	5,600	4,700	4,700	-	-	-	-	-	-	-	-	
100	7,700	7,600	8,600	7,100	8,700	6,900	-	-	-	-	-	-	-	100	7,100	6,500	5,600	5,500	4,600	4,500	-	-	-	-	-	-	-	-	
105	6,800	7,100	7,600	6,800	8,000	6,600	-	-	-	-	-	-	-	105	6,900	6,100	5,400	5,400	4,500	4,500	-	-	-	-	-	-	-	-	
110	6,000	6,700	6,700	6,400	7,200	6,200	-	-	-	-	-	-	-	110	6,400	5,800	5,300	5,300	4,400	4,400	-	-	-	-	-	-	-	-	
115	5,200	6,200	6,000	6,100	6,300	6,000	-	-	-	-	-	-	-	115	5,700	5,400	5,200	5,100	4,300	4,300	-	-	-	-	-	-	-	-	
120	4,600	5,600	5,200	5,800	5,600	5,700	-	-	-	-	-	-	-	120	5,000	5,100	5,000	4,800	4,200	4,200	-	-	-	-	-	-	-	-	
125	4,000	5,000	4,600	5,400	4,900	5,400	-	-	-	-	-	-	-	125	4,400	4,800	4,900	4,600	4,100	4,100	-	-	-	-	-	-	-	-	
130	3,400	4,400	3,900	4,900	4,200	5,000	-	-	-	-	-	-	-	130	3,900	4,600	4,700	4,300	4,100	4,100	-	-	-	-	-	-	-	-	
135	2,900	3,900	3,400	4,300	3,600	4,500	-	-	-	-	-	-	-	135	3,400	4,300	4,300	4,100	4,000	4,000	-	-	-	-	-	-	-	-	
140	2,400	3,400	2,900	3,800	-	-	-	-	-	-	-	-	-	140	2,900	3,800	3,800	3,900	4,000	3,800	-	-	-	-	-	-	-	-	
145	2,000	3,000	2,400	3,300	-	-	-	-	-	-	-	-	-	145	2,500	3,400	3,300	3,700	3,800	3,700	-	-	-	-	-	-	-	-	
150	1,600	2,600	2,000	2,900	-	-	-	-	-	-	-	-	-	150	2,100	3,000	2,800	3,500	3,300	3,500	-	-	-	-	-	-	-	-	
155	1,300	2,200	1,500	2,400	-	-	-	-	-	-	-	-	-	155	1,700	2,600	2,400	3,200	2,800	3,300	-	-	-	-	-	-	-	-	
160	900	1,900	1,100	2,100	-	-	-	-	-	-	-	-	-	160	1,300	2,200	2,000	2,800	2,300	3,100	-	-	-	-	-	-	-	-	
165	-	1,500	-	1,700	-	-	-	-	-	-	-	-	-	165	-	1,900	1,600	2,500	-	-	-	-	-	-	-	-	-	-	
170	-	1,300	-	-	-	-	-	-	-	-	-	-	-	170	-	1,600	1,300	2,100	-	-	-	-	-	-	-	-	-	-	
175	-	1,000	-	-	-	-	-	-	-	-	-	-	-	175	-	1,400	-	1,800	-	-	-	-	-	-	-	-	-	-	
180	-	-	-	-	-	-	-	-	-	-	-	-	-	180	-	1,100	-	1,500	-	-	-	-	-	-	-	-	-	-	
185	-	-	-	-	-	-	-	-	-	-	-	-	-	185	-	-	-	1,200	-	-	-	-	-	-	-	-	-	-	
1)	1	2	1	2	1	2							1)	1	2	1	2	1	2										

1) Telescopic mode

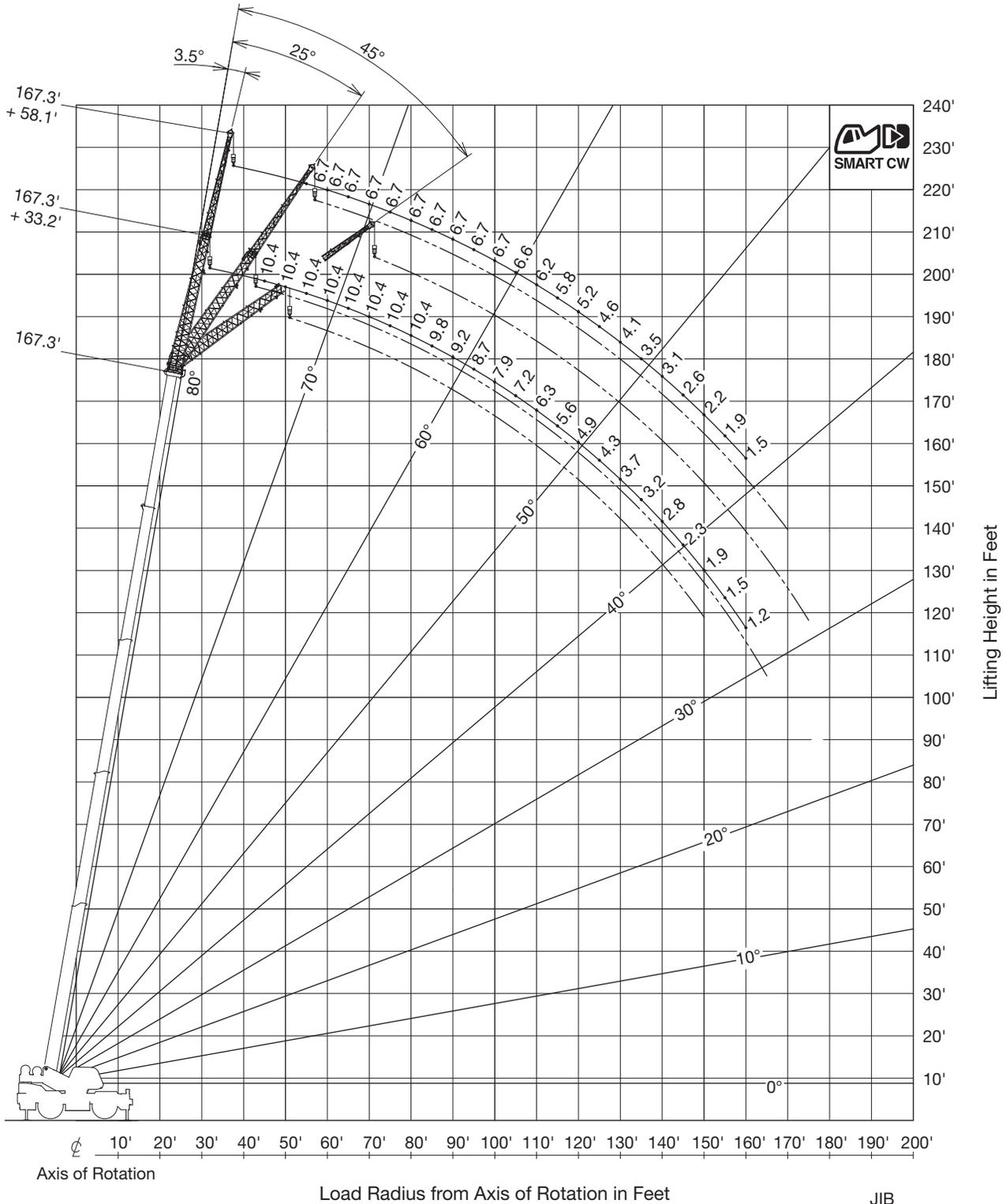
Operation

Fully extended – 360° – SMART CW1

24,700 lb								360°							
23' 11-3/8" spread															
120.3' + 33.2'								120.3' + 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
30	14,600	14,600	-	-	-	-	-	30	-	-	-	-	-	-	-
35	14,600	14,600	-	-	-	-	-	35	-	-	-	-	-	-	-
40	14,600	14,600	14,400	-	-	-	-	40	9,900	8,700	-	-	-	-	-
45	14,600	14,600	13,800	13,600	-	-	-	45	9,900	8,700	-	-	-	-	-
50	14,600	14,600	13,200	13,000	10,400	10,400	-	50	9,900	8,700	-	-	-	-	-
55	14,600	14,600	12,700	12,500	10,200	10,100	-	55	9,900	8,700	-	-	-	-	-
60	14,600	14,400	12,200	12,000	9,900	9,800	-	60	9,900	8,700	7,200	7,000	-	-	-
65	14,600	13,400	11,800	11,600	9,700	9,600	-	65	9,600	8,700	7,000	6,800	-	-	-
70	14,600	12,600	11,400	11,200	9,500	9,400	-	70	9,100	8,700	6,700	6,500	5,300	5,300	-
75	13,900	12,400	11,000	10,800	9,300	9,200	-	75	8,700	8,400	6,500	6,300	5,200	5,100	-
80	12,400	11,700	10,700	10,500	9,200	9,100	-	80	8,300	8,000	6,300	6,200	5,000	5,000	-
85	10,900	11,000	10,400	10,200	9,000	8,900	-	85	8,000	7,700	6,100	6,000	4,900	4,800	-
90	9,600	10,300	10,100	9,900	8,900	8,800	-	90	7,700	7,400	5,800	5,800	4,700	4,700	-
95	8,500	9,800	9,300	9,700	8,800	8,700	-	95	7,400	7,100	5,600	5,500	4,600	4,600	-
100	7,500	9,300	8,200	9,200	8,600	8,600	-	100	7,100	6,900	5,400	5,300	4,500	4,500	-
105	6,600	8,800	7,200	8,700	7,600	8,500	-	105	6,800	6,600	5,200	5,200	4,400	4,400	-
110	5,800	7,900	6,300	8,300	6,600	8,300	-	110	6,600	6,400	5,100	5,000	4,300	4,300	-
115	5,000	7,200	5,500	7,600	5,800	7,800	-	115	6,000	6,200	4,900	4,900	4,300	4,200	-
120	4,400	6,500	4,800	6,900	-	-	-	120	5,300	6,000	4,800	4,700	4,200	4,100	-
125	3,700	5,900	4,100	6,200	-	-	-	125	4,700	5,800	4,600	4,600	4,100	4,100	-
130	3,200	5,400	3,500	5,600	-	-	-	130	4,100	5,600	4,500	4,500	4,100	4,000	-
135	2,700	4,900	2,900	5,000	-	-	-	135	3,600	5,300	4,300	4,300	4,000	4,000	-
140	2,200	4,400	-	-	-	-	-	140	3,100	5,000	3,700	4,300	4,000	4,000	-
145	1,800	4,000	-	-	-	-	-	145	2,700	4,500	3,200	4,200	-	-	-
150	-	-	-	-	-	-	-	150	2,300	4,100	2,800	4,100	-	-	-
155	-	-	-	-	-	-	-	155	1,900	3,700	2,300	4,000	-	-	-
160	-	-	-	-	-	-	-	160	1,600	3,400	1,900	3,600	-	-	-
165	-	-	-	-	-	-	-	165	1,300	3,100	-	-	-	-	-
170	-	-	-	-	-	-	-	170	900	2,800	-	-	-	-	-
1)	1	2	1	2	1	2		1)	1	2	1	2	1	2	

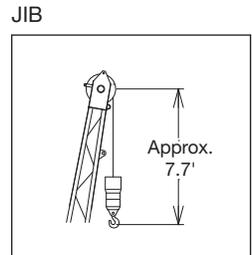
1) Telescopic mode

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 CW2

24,700 lb				23' 11-3/8" spread				360°			
167.3' + 33.2'				167.3' + 58.1'							
ft	3.5°	25°	45°	ft	3.5°	25°	45°	ft	3.5°	25°	45°
1,000 lb				1,000 lb							
45	10,400	-	-	45	-	-	-	45	-	-	-
50	10,400	-	-	50	-	-	-	50	-	-	-
55	10,400	-	-	55	6,700	-	-	55	6,700	-	-
60	10,400	10,400	-	60	6,700	-	-	60	6,700	-	-
65	10,400	10,400	9,800	65	6,700	-	-	65	6,700	-	-
70	10,400	10,400	9,600	70	6,700	-	-	70	6,700	-	-
75	10,400	10,200	9,400	75	6,700	6,200	-	75	6,700	6,200	-
80	10,400	9,500	9,000	80	6,700	6,100	-	80	6,700	6,100	-
85	9,800	9,000	8,500	85	6,700	5,900	-	85	6,700	5,900	-
90	9,200	8,500	8,100	90	6,700	5,800	4,800	90	6,700	5,800	4,800
95	8,700	8,000	7,700	95	6,700	5,600	4,700	95	6,700	5,600	4,700
100	7,900	7,600	7,300	100	6,700	5,500	4,600	100	6,700	5,500	4,600
105	7,200	7,200	6,900	105	6,600	5,400	4,500	105	6,600	5,400	4,500
110	6,300	6,800	6,600	110	6,200	5,300	4,400	110	6,200	5,300	4,400
115	5,600	6,300	6,300	115	5,800	5,200	4,300	115	5,800	5,200	4,300
120	4,900	5,600	6,000	120	5,200	5,000	4,200	120	5,200	5,000	4,200
125	4,300	4,900	5,300	125	4,600	4,900	4,200	125	4,600	4,900	4,200
130	3,700	4,300	4,700	130	4,100	4,600	4,100	130	4,100	4,600	4,100
135	3,200	3,800	4,100	135	3,500	4,400	4,000	135	3,500	4,400	4,000
140	2,800	3,200	3,500	140	3,100	4,100	4,000	140	3,100	4,100	4,000
145	2,300	2,800	3,000	145	2,600	3,500	3,900	145	2,600	3,500	3,900
150	1,900	2,300	2,500	150	2,200	3,100	3,600	150	2,200	3,100	3,600
155	1,500	1,900	-	155	1,900	2,600	3,100	155	1,900	2,600	3,100
160	1,200	1,500	-	160	1,500	2,200	2,700	160	1,500	2,200	2,700
165	-	1,100	-	165	-	1,900	2,200	165	-	1,900	2,200
170	-	-	-	170	-	1,500	1,800	170	-	1,500	1,800
175	-	-	-	175	-	-	1,400	175	-	-	1,400
1)	1, 2	1, 2	1, 2	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

24,700 lb								23' 11-3/8" spread								360°													
		3.5°		3.5°		25°		25°		45°		45°				3.5°		3.5°		25°		25°		45°		45°			
ft						1,000 lb								ft						1,000 lb									
40	12,500	11,500	-	-	-	-	-	-	-	-	-	-	-	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
45	12,500	11,500	-	-	-	-	-	-	-	-	-	-	-	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50	12,500	11,500	-	-	-	-	-	-	-	-	-	-	-	50	7,600	7,200	-	-	-	-	-	-	-	-	-	-	-	-	
55	12,500	11,500	12,500	11,500	-	-	-	-	-	-	-	-	-	55	7,600	7,200	-	-	-	-	-	-	-	-	-	-	-	-	
60	12,500	11,500	12,500	11,500	10,000	10,000	-	-	-	-	-	-	-	60	7,600	7,200	-	-	-	-	-	-	-	-	-	-	-	-	
65	12,500	11,500	12,100	11,100	9,800	9,700	-	-	-	-	-	-	-	65	7,600	7,200	-	-	-	-	-	-	-	-	-	-	-	-	
70	12,500	11,500	11,700	10,300	9,600	9,500	-	-	-	-	-	-	-	70	7,600	7,200	6,500	6,500	-	-	-	-	-	-	-	-	-	-	
75	12,500	10,900	11,400	9,700	9,400	9,200	-	-	-	-	-	-	-	75	7,600	7,200	6,300	6,300	-	-	-	-	-	-	-	-	-	-	
80	11,700	10,300	11,000	9,100	9,200	8,600	-	-	-	-	-	-	-	80	7,600	7,200	6,200	6,100	5,000	-	-	-	-	-	-	-	-	-	
85	10,700	9,800	10,700	8,500	9,100	8,200	-	-	-	-	-	-	-	85	7,600	7,200	6,000	5,900	4,900	4,900	-	-	-	-	-	-	-	-	
90	9,800	8,600	10,100	8,000	8,900	7,700	-	-	-	-	-	-	-	90	7,600	7,200	5,900	5,800	4,800	4,800	-	-	-	-	-	-	-	-	
95	9,000	8,000	9,300	7,600	8,800	7,300	-	-	-	-	-	-	-	95	7,300	7,000	5,700	5,600	4,700	4,700	-	-	-	-	-	-	-	-	
100	8,200	7,600	8,600	7,100	8,700	6,900	-	-	-	-	-	-	-	100	7,100	6,500	5,600	5,500	4,600	4,500	-	-	-	-	-	-	-	-	
105	7,300	7,100	7,900	6,800	8,000	6,600	-	-	-	-	-	-	-	105	6,900	6,100	5,400	5,400	4,500	4,500	-	-	-	-	-	-	-	-	
110	6,500	6,700	7,200	6,400	7,400	6,200	-	-	-	-	-	-	-	110	6,700	5,800	5,300	5,300	4,400	4,400	-	-	-	-	-	-	-	-	
115	5,700	6,300	6,400	6,100	6,800	6,000	-	-	-	-	-	-	-	115	6,200	5,400	5,200	5,100	4,300	4,300	-	-	-	-	-	-	-	-	
120	5,000	6,000	5,600	5,800	6,000	5,700	-	-	-	-	-	-	-	120	5,500	5,100	5,000	4,800	4,200	4,200	-	-	-	-	-	-	-	-	
125	4,400	5,400	5,000	5,500	5,200	5,400	-	-	-	-	-	-	-	125	4,900	4,800	4,900	4,600	4,100	4,100	-	-	-	-	-	-	-	-	
130	3,800	4,800	4,400	5,200	4,600	5,200	-	-	-	-	-	-	-	130	4,300	4,600	4,700	4,300	4,100	4,100	-	-	-	-	-	-	-	-	
135	3,300	4,300	3,800	4,700	4,000	4,800	-	-	-	-	-	-	-	135	3,800	4,300	4,600	4,100	4,000	4,000	-	-	-	-	-	-	-	-	
140	2,800	3,800	3,300	4,100	-	-	-	-	-	-	-	-	-	140	3,300	4,100	4,200	3,900	4,000	3,800	-	-	-	-	-	-	-	-	
145	2,400	3,300	2,800	3,600	-	-	-	-	-	-	-	-	-	145	2,800	3,700	3,700	3,700	3,900	3,700	-	-	-	-	-	-	-	-	
150	2,000	2,900	2,300	3,200	-	-	-	-	-	-	-	-	-	150	2,400	3,400	3,200	3,500	3,700	3,500	-	-	-	-	-	-	-	-	
155	1,600	2,500	1,900	2,800	-	-	-	-	-	-	-	-	-	155	2,100	3,000	2,800	3,400	3,200	3,300	-	-	-	-	-	-	-	-	
160	1,300	2,200	1,500	2,400	-	-	-	-	-	-	-	-	-	160	1,700	2,600	2,300	3,200	2,700	3,200	-	-	-	-	-	-	-	-	
165	-	1,900	1,100	2,000	-	-	-	-	-	-	-	-	-	165	1,400	2,300	1,900	2,800	-	-	-	-	-	-	-	-	-	-	
170	-	1,500	-	-	-	-	-	-	-	-	-	-	-	170	1,100	2,000	1,600	2,400	-	-	-	-	-	-	-	-	-	-	
175	-	1,300	-	-	-	-	-	-	-	-	-	-	-	175	-	1,700	1,200	2,100	-	-	-	-	-	-	-	-	-	-	
180	-	-	-	-	-	-	-	-	-	-	-	-	-	180	-	1,400	-	1,700	-	-	-	-	-	-	-	-	-	-	
185	-	-	-	-	-	-	-	-	-	-	-	-	-	185	-	1,200	-	1,400	-	-	-	-	-	-	-	-	-	-	

1) Telescopic mode



SMART CW2

Operation

Fully extended – 360° – SMART CW2

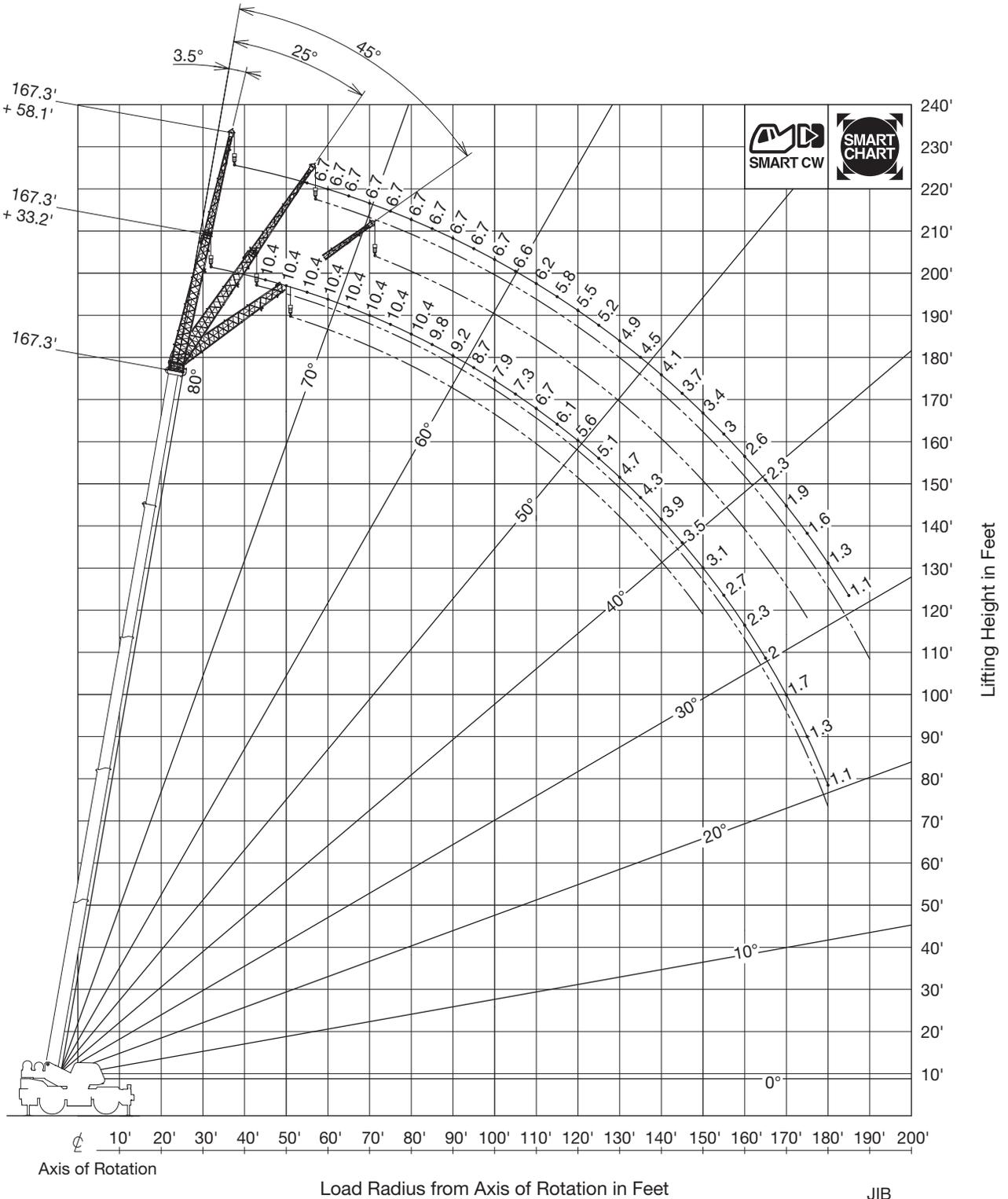
24,700 lb								23' 11-3/8" spread								360°													
		3.5°		3.5°		25°		25°		45°		45°				3.5°		3.5°		25°		25°		45°		45°			
ft						1,000 lb								ft						1,000 lb									
30	14,600	14,600	-	-	-	-	-	-	-	-	-	-	-	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
35	14,600	14,600	-	-	-	-	-	-	-	-	-	-	-	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
40	14,600	14,600	14,400	-	-	-	-	-	-	-	-	-	-	40	9,900	8,700	-	-	-	-	-	-	-	-	-	-	-	-	
45	14,600	14,600	13,800	13,600	-	-	-	-	-	-	-	-	-	45	9,900	8,700	-	-	-	-	-	-	-	-	-	-	-	-	
50	14,600	14,600	13,200	13,000	10,400	10,400	-	-	-	-	-	-	-	50	9,900	8,700	-	-	-	-	-	-	-	-	-	-	-	-	
55	14,600	14,600	12,700	12,500	10,200	10,100	-	-	-	-	-	-	-	55	9,900	8,700	-	-	-	-	-	-	-	-	-	-	-	-	
60	14,600	14,400	12,200	12,000	9,900	9,800	-	-	-	-	-	-	-	60	9,900	8,700	7,200	7,000	-	-	-	-	-	-	-	-	-	-	
65	14,600	13,400	11,800	11,600	9,700	9,600	-	-	-	-	-	-	-	65	9,600	8,700	7,000	6,800	-	-	-	-	-	-	-	-	-	-	
70	14,600	12,600	11,400	11,200	9,500	9,400	-	-	-	-	-	-	-	70	9,100	8,700	6,700	6,500	5,300	5,300	-	-	-	-	-	-	-	-	
75	13,900	12,400	11,000	10,800	9,300	9,200	-	-	-	-	-	-	-	75	8,700	8,400	6,500	6,300	5,200	5,100	-	-	-	-	-	-	-	-	
80	12,800	11,700	10,700	10,500	9,200	9,100	-	-	-	-	-	-	-	80	8,300	8,000	6,300	6,200	5,000	5,000	-	-	-	-	-	-	-	-	
85	11,500	11,000	10,400	10,200	9,000	8,900	-	-	-	-	-	-	-	85	8,000	7,700	6,100	6,000	4,900	4,800	-	-	-	-	-	-	-	-	
90	10,200	10,300	10,100	9,900	8,900	8,800	-	-	-	-	-	-	-	90	7,700	7,400	5,800	5,800	4,700	4,700	-	-	-	-	-	-	-	-	
95	9,000	9,800	9,800	9,700	8,800	8,700	-	-	-	-	-	-	-	95	7,400	7,100	5,600	5,500	4,600	4,600	-	-	-	-	-	-	-	-	
100	8,000	9,300	8,700	9,200	8,700	8,600	-	-	-	-	-	-	-	100	7,100	6,900	5,400	5,300	4,500	4,500	-	-	-	-	-	-	-	-	
105	7,000	8,800	7,700	8,700	8,000	8,500	-	-	-	-	-	-	-	105	6,800	6,600	5,200	5,200	4,400	4,400	-	-	-	-	-	-	-	-	
110	6,200	8,300	6,800	8,300	7,100	8,300	-	-	-	-	-	-	-	110	6,600	6,400	5,100	5,000	4,300	4,300	-	-	-	-	-	-	-	-	
115	5,400	7,600	6,000	7,900	6,200	7,900	-	-	-	-	-	-	-	115	6,400	6,200	4,900	4,900	4,300	4,200	-	-	-	-	-	-	-	-	
120	4,800	6,900	5,200	7,300	-	-	-	-	-	-	-	-	-	120	5,700	6,000	4,800	4,700	4,200	4,100	-	-	-	-	-	-	-	-	
125	4,100	6,300	4,500	6,600	-	-	-	-	-	-	-	-	-	125	5,100	5,800	4,600	4,600	4,100	4,100	-	-	-	-	-	-	-	-	
130	3,600	5,800	3,900	6,000	-	-	-	-	-	-	-	-	-	130	4,500	5,600	4,500	4,500	4,100	4,000	-	-	-	-	-	-	-	-	
135	3,100	5,200	3,300	5,400	-	-	-	-	-	-	-	-	-	135	4,000	5,300	4,400	4,300	4,000	4,000	-	-	-	-	-	-	-	-	
140	2,600	4,700	-	-	-	-	-	-	-	-	-	-	-	140	3,500	5,100	4,100	4,300	4,000	4,000	-	-	-	-	-	-	-	-	
145	2,200	4,300	-	-	-	-	-	-	-	-	-	-	-	145	3,000	4,900	3,600	4,200	-	-	-	-	-	-	-	-	-	-	
150	-	-	-	-	-	-	-	-	-	-	-	-	-	150	2,600	4,400	3,100	4,100	-	-	-	-	-	-	-	-	-	-	
155	-	-	-	-	-	-	-	-	-	-	-	-	-	155	2,200	4,100	2,600	4,000	-	-	-	-	-	-	-	-	-	-	
160	-	-	-	-	-	-	-	-	-	-	-	-	-	160	1,900	3,700	2,200	3,900	-	-	-	-	-	-	-	-	-	-	
165	-	-	-	-	-	-	-	-	-	-	-	-	-	165	1,500	3,400	-	-	-	-	-	-	-	-	-	-	-	-	
170	-	-	-	-	-	-	-	-	-	-	-	-	-	170	1,200	3,100	-	-	-	-	-	-	-	-	-	-	-	-	
1)	1	2	1	2	1	2								1)	1	2	1	2	1	2									

1) Telescopic mode

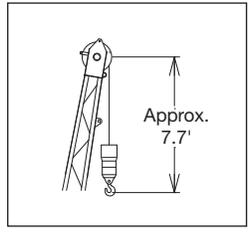


SMART CW2

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.



Fully extended – 360° – Smart Chart / SMART CW2

24,700 lb				23' 11-3/8" spread				360°			
167.3' + 33.2'				167.3' + 58.1'							
ft	3.5°	25°	45°	ft	3.5°	25°	45°				
45	10,400	-	-	45	-	-	-				
50	10,400	-	-	50	-	-	-				
55	10,400	-	-	55	6,700	-	-				
60	10,400	10,400	-	60	6,700	-	-				
65	10,400	10,400	9,800	65	6,700	-	-				
70	10,400	10,400	9,600	70	6,700	-	-				
75	10,400	10,200	9,400	75	6,700	6,200	-				
80	10,400	9,500	9,000	80	6,700	6,100	-				
85	9,800	9,000	8,500	85	6,700	5,900	-				
90	9,200	8,500	8,100	90	6,700	5,800	4,800				
95	8,700	8,000	7,700	95	6,700	5,600	4,700				
100	7,900	7,600	7,300	100	6,700	5,500	4,600				
105	7,300	7,200	6,900	105	6,600	5,400	4,500				
110	6,700	6,800	6,600	110	6,200	5,300	4,400				
115	6,100	6,500	6,300	115	5,800	5,200	4,300				
120	5,600	5,900	6,000	120	5,500	5,000	4,200				
125	5,100	5,400	5,600	125	5,200	4,900	4,200				
130	4,700	5,000	5,100	130	4,900	4,600	4,100				
135	4,300	4,600	4,700	135	4,500	4,400	4,000				
140	3,900	4,200	4,300	140	4,100	4,200	4,000				
145	3,500	3,800	3,900	145	3,700	4,000	3,900				
150	3,100	3,400	3,500	150	3,400	3,800	3,700				
155	2,700	3,100	-	155	3,000	3,500	3,500				
160	2,300	2,700	-	160	2,600	3,200	3,400				
165	2,000	2,300	-	165	2,300	2,900	3,100				
170	1,700	1,900	-	170	1,900	2,600	2,800				
175	1,300	1,500	-	175	1,600	2,200	2,500				
180	1,100	1,200	-	180	1,300	1,900	-				
185	-	-	-	185	1,100	1,500	-				
190	-	-	-	190	-	1,200	-				

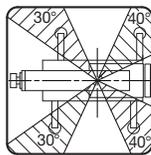
1) Telescopic mode



SMART CW2



Smart Chart



Fully extended – 360° – Smart Chart / SMART CW2

24,700 lb								23' 11-3/8" spread								360°												
		3.5°		3.5°		25°		25°		45°		45°				3.5°		3.5°		25°		25°		45°		45°		
ft		1,000 lb																										
40		12,500	11,500	-	-	-	-	-	-	-	-	-	-	40		-	-	-	-	-	-	-	-	-	-	-	-	-
45		12,500	11,500	-	-	-	-	-	-	-	-	-	-	45		-	-	-	-	-	-	-	-	-	-	-	-	-
50		12,500	11,500	-	-	-	-	-	-	-	-	-	-	50		7,600	7,200	-	-	-	-	-	-	-	-	-	-	-
55		12,500	11,500	12,500	11,500	-	-	-	-	-	-	-	-	55		7,600	7,200	-	-	-	-	-	-	-	-	-	-	-
60		12,500	11,500	12,500	11,500	10,000	10,000	-	-	-	-	-	-	60		7,600	7,200	-	-	-	-	-	-	-	-	-	-	-
65		12,500	11,500	12,100	11,100	9,800	9,700	-	-	-	-	-	-	65		7,600	7,200	-	-	-	-	-	-	-	-	-	-	-
70		12,500	11,500	11,700	10,300	9,600	9,500	-	-	-	-	-	-	70		7,600	7,200	6,500	6,500	-	-	-	-	-	-	-	-	-
75		12,500	10,900	11,400	9,700	9,400	9,200	-	-	-	-	-	-	75		7,600	7,200	6,300	6,300	-	-	-	-	-	-	-	-	-
80		11,700	10,300	11,000	9,100	9,200	8,600	-	-	-	-	-	-	80		7,600	7,200	6,200	6,100	5,000	-	-	-	-	-	-	-	-
85		10,700	9,800	10,700	8,500	9,100	8,200	-	-	-	-	-	-	85		7,600	7,200	6,000	5,900	4,900	4,900	-	-	-	-	-	-	-
90		9,800	8,600	10,100	8,000	8,900	7,700	-	-	-	-	-	-	90		7,600	7,200	5,900	5,800	4,800	4,800	-	-	-	-	-	-	-
95		9,000	8,000	9,300	7,600	8,800	7,300	-	-	-	-	-	-	95		7,300	7,000	5,700	5,600	4,700	4,700	-	-	-	-	-	-	-
100		8,200	7,600	8,600	7,100	8,700	6,900	-	-	-	-	-	-	100		7,100	6,500	5,600	5,500	4,600	4,500	-	-	-	-	-	-	-
105		7,600	7,100	7,900	6,800	8,000	6,600	-	-	-	-	-	-	105		6,900	6,100	5,400	5,400	4,500	4,500	-	-	-	-	-	-	-
110		7,000	6,700	7,300	6,400	7,400	6,200	-	-	-	-	-	-	110		6,700	5,800	5,300	5,300	4,400	4,400	-	-	-	-	-	-	-
115		6,400	6,300	6,700	6,100	6,800	6,000	-	-	-	-	-	-	115		6,500	5,400	5,200	5,100	4,300	4,300	-	-	-	-	-	-	-
120		5,900	6,000	6,200	5,800	6,300	5,700	-	-	-	-	-	-	120		6,100	5,100	5,000	4,800	4,200	4,200	-	-	-	-	-	-	-
125		5,400	5,700	5,700	5,500	5,800	5,400	-	-	-	-	-	-	125		5,600	4,800	4,900	4,600	4,100	4,100	-	-	-	-	-	-	-
130		5,000	5,400	5,200	5,200	5,300	5,200	-	-	-	-	-	-	130		5,200	4,600	4,700	4,300	4,100	4,100	-	-	-	-	-	-	-
135		4,600	5,100	4,800	5,000	4,900	4,900	-	-	-	-	-	-	135		4,700	4,300	4,600	4,100	4,000	4,000	-	-	-	-	-	-	-
140		4,100	4,900	4,400	4,700	-	-	-	-	-	-	-	-	140		4,400	4,100	4,500	3,900	4,000	3,800	-	-	-	-	-	-	-
145		3,600	4,500	3,900	4,500	-	-	-	-	-	-	-	-	145		4,000	3,900	4,400	3,700	3,900	3,700	-	-	-	-	-	-	-
150		3,200	4,100	3,400	4,300	-	-	-	-	-	-	-	-	150		3,700	3,700	4,100	3,500	3,900	3,500	-	-	-	-	-	-	-
155		2,700	3,600	3,000	3,900	-	-	-	-	-	-	-	-	155		3,200	3,500	3,700	3,400	3,800	3,300	-	-	-	-	-	-	-
160		2,300	3,200	2,500	3,400	-	-	-	-	-	-	-	-	160		2,800	3,300	3,400	3,200	3,500	3,200	-	-	-	-	-	-	-
165		2,000	2,900	2,100	3,000	-	-	-	-	-	-	-	-	165		2,500	3,100	3,100	3,100	-	-	-	-	-	-	-	-	-
170		1,600	2,500	-	-	-	-	-	-	-	-	-	-	170		2,100	3,000	2,700	2,900	-	-	-	-	-	-	-	-	-
175		1,300	2,200	-	-	-	-	-	-	-	-	-	-	175		1,800	2,700	2,300	2,800	-	-	-	-	-	-	-	-	-
180		-	-	-	-	-	-	-	-	-	-	-	-	180		-	2,400	1,900	2,700	-	-	-	-	-	-	-	-	-
185		-	-	-	-	-	-	-	-	-	-	-	-	185		-	2,100	1,600	2,300	-	-	-	-	-	-	-	-	-
190		-	-	-	-	-	-	-	-	-	-	-	-	190		-	1,800	1,200	2,000	-	-	-	-	-	-	-	-	-
1)		1	2	1	2	1	2							1)		1	2	1	2	1	2							

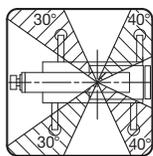
1) Telescopic mode



SMART CW2



Smart Chart



Fully extended – 360° – Smart Chart / SMART CW2

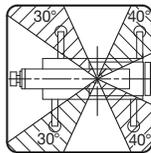
24,700 lb								360°							
23' 11-3/8" spread								120.3' + 58.1'							
120.3' + 33.2'								120.3' + 58.1'							
3.5° 3.5° 25° 25° 45° 45°								3.5° 3.5° 25° 25° 45° 45°							
ft								ft							
1,000 lb								1,000 lb							
30	14,600	14,600	-	-	-	-	-	30	-	-	-	-	-	-	-
35	14,600	14,600	-	-	-	-	-	35	-	-	-	-	-	-	-
40	14,600	14,600	14,400	-	-	-	-	40	9,900	8,700	-	-	-	-	-
45	14,600	14,600	13,800	13,600	-	-	-	45	9,900	8,700	-	-	-	-	-
50	14,600	14,600	13,200	13,000	10,400	10,400	-	50	9,900	8,700	-	-	-	-	-
55	14,600	14,600	12,700	12,500	10,200	10,100	-	55	9,900	8,700	-	-	-	-	-
60	14,600	14,400	12,200	12,000	9,900	9,800	-	60	9,900	8,700	7,200	7,000	-	-	-
65	14,600	13,400	11,800	11,600	9,700	9,600	-	65	9,600	8,700	7,000	6,800	-	-	-
70	14,600	12,600	11,400	11,200	9,500	9,400	-	70	9,100	8,700	6,700	6,500	5,300	5,300	-
75	13,900	12,400	11,000	10,800	9,300	9,200	-	75	8,700	8,400	6,500	6,300	5,200	5,100	-
80	12,800	11,700	10,700	10,500	9,200	9,100	-	80	8,300	8,000	6,300	6,200	5,000	5,000	-
85	11,700	11,000	10,400	10,200	9,000	8,900	-	85	8,000	7,700	6,100	6,000	4,900	4,800	-
90	10,800	10,300	10,100	9,900	8,900	8,800	-	90	7,700	7,400	5,800	5,800	4,700	4,700	-
95	10,000	9,800	9,900	9,700	8,800	8,700	-	95	7,400	7,100	5,600	5,500	4,600	4,600	-
100	9,200	9,300	9,400	9,200	8,700	8,600	-	100	7,100	6,900	5,400	5,300	4,500	4,500	-
105	8,500	8,800	8,700	8,700	8,600	8,500	-	105	6,800	6,600	5,200	5,200	4,400	4,400	-
110	7,900	8,300	8,100	8,300	8,200	8,300	-	110	6,600	6,400	5,100	5,000	4,300	4,300	-
115	7,000	7,900	7,500	7,900	7,600	7,900	-	115	6,400	6,200	4,900	4,900	4,300	4,200	-
120	6,300	7,500	6,700	7,500	-	-	-	120	6,100	6,000	4,800	4,700	4,200	4,100	-
125	5,600	7,200	6,000	7,200	-	-	-	125	5,900	5,800	4,600	4,600	4,100	4,100	-
130	4,900	6,900	5,200	6,800	-	-	-	130	5,600	5,600	4,500	4,500	4,100	4,000	-
135	4,300	6,500	4,600	6,500	-	-	-	135	5,200	5,300	4,400	4,300	4,000	4,000	-
140	3,800	6,000	-	-	-	-	-	140	4,700	5,100	4,300	4,300	4,000	4,000	-
145	3,300	5,500	-	-	-	-	-	145	4,200	5,000	4,200	4,200	-	-	-
150	-	-	-	-	-	-	-	150	3,700	4,800	4,100	4,100	-	-	-
155	-	-	-	-	-	-	-	155	3,300	4,600	3,700	4,000	-	-	-
160	-	-	-	-	-	-	-	160	2,900	4,500	3,200	-	-	-	-
165	-	-	-	-	-	-	-	165	2,600	4,400	-	-	-	-	-
170	-	-	-	-	-	-	-	170	2,200	4,100	-	-	-	-	-

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 42.0' boom length capacities are based on boom fully retracted. If not fully retracted [less than 57.7' boom length], use the rated lifting capacities for the 57.7' 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 24,700 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.