

**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°

9,600 lb		23' 11-3/8" x 24' 0-5/8"														360°	
ft		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															
8	160,000	90,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
10	153,100	90,000	53,200	41,000	-	-	-	-	-	-	-	-	-	-	-	-	10
12	134,100	90,000	53,200	41,000	-	-	-	-	-	-	-	-	-	-	-	-	12
15	112,100	90,000	53,200	41,000	44,200	36,200	-	-	-	-	-	-	-	-	-	-	15
20	86,400	85,900	53,200	41,000	44,200	36,200	40,900	34,300	36,300	33,300	-	-	-	-	-	-	20
25	69,200	68,700	51,500	41,000	44,200	36,200	38,000	33,800	34,300	30,600	31,100	26,200	-	-	-	-	25
30	50,200	48,700	44,000	41,000	38,100	36,200	32,600	29,400	29,300	26,600	27,100	22,400	23,800	22,300	-	-	30
35	-	35,900	35,100	39,200	33,000	36,200	28,400	26,000	25,500	23,500	23,400	19,500	21,900	20,900	19,000	-	35
40	-	27,500	26,900	30,900	28,300	31,700	25,000	23,200	22,400	21,000	20,500	17,200	19,200	18,500	18,200	-	40
45	-	21,600	21,100	25,000	22,400	25,700	22,300	21,000	19,900	18,900	18,200	15,300	16,900	16,500	16,000	-	45
50	-	-	16,800	20,700	18,100	21,400	18,900	19,100	17,800	17,200	16,200	13,700	15,100	14,900	14,200	-	50
55	-	-	13,500	17,300	14,900	18,100	15,600	17,500	16,000	15,700	14,600	12,300	13,500	13,500	12,700	-	55
60	-	-	10,900	14,700	12,200	15,400	13,000	15,900	13,500	14,400	13,200	11,200	12,100	12,300	11,400	-	60
65	-	-	-	-	10,100	13,200	10,900	13,700	11,400	13,300	11,800	10,200	11,000	11,300	10,300	-	65
70	-	-	-	-	8,400	11,400	9,200	11,900	9,700	12,200	10,000	9,300	10,000	10,400	9,300	-	70
75	-	-	-	-	6,900	10,000	7,700	10,400	8,200	10,700	8,600	8,600	8,800	9,600	8,400	-	75
80	-	-	-	-	-	-	6,400	9,100	7,000	9,400	7,300	7,900	7,600	8,600	7,600	-	80
85	-	-	-	-	-	-	5,400	8,000	5,900	8,300	6,200	7,300	6,500	7,500	6,600	-	85
90	-	-	-	-	-	-	-	-	5,000	7,400	5,300	6,800	5,600	6,600	5,700	-	90
95	-	-	-	-	-	-	-	-	4,100	6,500	4,500	6,300	4,700	5,800	4,900	-	95
100	-	-	-	-	-	-	-	-	3,400	5,800	3,800	5,900	4,000	5,000	4,200	-	100
105	-	-	-	-	-	-	-	-	-	-	3,100	5,300	3,400	4,400	3,500	-	105
110	-	-	-	-	-	-	-	-	-	-	2,600	4,700	2,800	3,800	3,000	-	110
115	-	-	-	-	-	-	-	-	-	-	2,100	4,300	2,300	3,300	2,400	-	115
120	-	-	-	-	-	-	-	-	-	-	-	1,800	2,800	2,000	2,000	-	120
125	-	-	-	-	-	-	-	-	-	-	-	-	1,400	2,400	1,600	-	125
130	-	-	-	-	-	-	-	-	-	-	-	-	-	2,100	-	-	130
		0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	13°	0°	33°	

### Telescopic conditions (%)

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

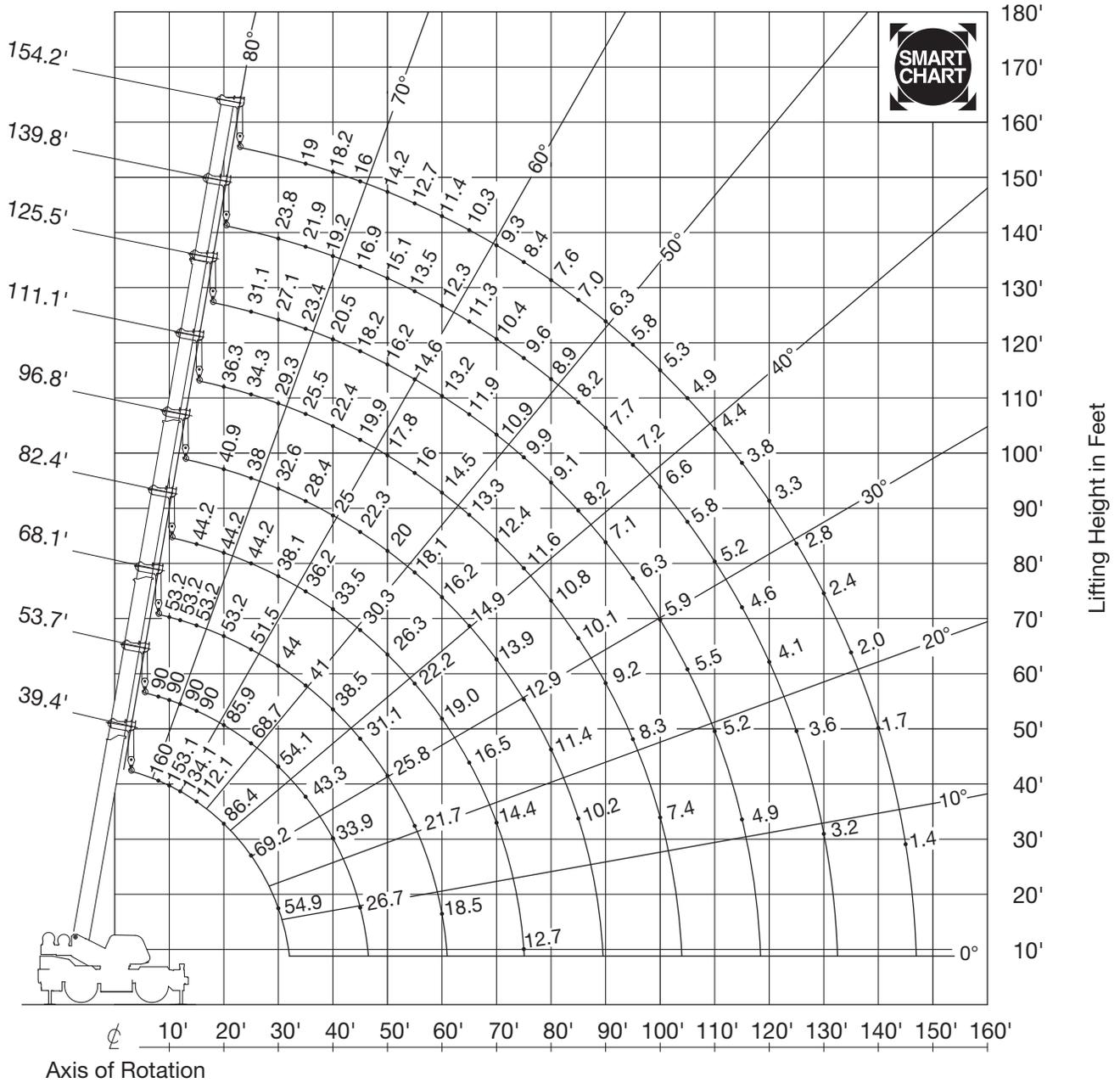
	(ft)	39.4'	53.7'	68.1'	68.1'	82.4'	82.4'	96.8'	96.8'	111.1'	111.1'	125.5'	125.5'	139.8'		
	(ft)	32.5	46.8	61.1	61.0	75.3	75.3	89.4	89.5	103.6	103.3	117.8	117.3	131.4		
	<sup>2)</sup> 0° (lb)	25,900	15,100	8,900	12,500	6,200	9,300	4,400	7,100	3,000	5,400	1,900	3,700	2,000		
1)		1, 2	1	1	2	1	2	1	2	1	2	1	2	2		1)

1) Telescopic mode      2) Loaded boom angle (°)

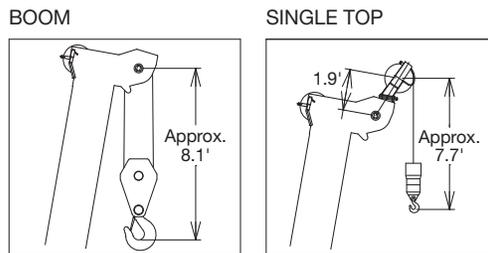
### NOTE:

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:

	(ft)	39.4'	39.4' to 53.7'	53.7' to 154.2'	Single top jib
1)		1, 2	1	2	1, 2
		12	8	4	4
					1



Load Radius from Axis of Rotation in Feet



**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.

## Fully extended – 360° – Smart Chart

9,600 lb		23' 11-3/8" x 24' 0-5/8"														360°	
ft		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															
8	160,000	90,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
10	153,100	90,000	53,200	41,000	-	-	-	-	-	-	-	-	-	-	-	-	10
12	134,100	90,000	53,200	41,000	-	-	-	-	-	-	-	-	-	-	-	-	12
15	112,100	90,000	53,200	41,000	44,200	36,200	-	-	-	-	-	-	-	-	-	-	15
20	86,400	85,900	53,200	41,000	44,200	36,200	40,900	34,300	36,300	33,300	-	-	-	-	-	-	20
25	69,200	68,700	51,500	41,000	44,200	36,200	38,000	33,800	34,300	30,600	31,100	26,200	-	-	-	-	25
30	54,900	54,100	44,000	41,000	38,100	36,200	32,600	29,400	29,300	26,600	27,100	22,400	23,800	22,300	-	-	30
35	-	43,300	38,300	41,000	33,000	36,200	28,400	26,000	25,500	23,500	23,400	19,500	21,900	20,900	19,000	-	35
40	-	33,900	33,100	38,500	29,000	33,500	25,000	23,200	22,400	21,000	20,500	17,200	19,200	18,500	18,200	-	40
45	-	26,700	26,000	31,100	25,700	30,300	22,300	21,000	19,900	18,900	18,200	15,300	16,900	16,500	16,000	-	45
50	-	-	20,900	25,800	22,300	26,300	20,000	19,100	17,800	17,200	16,200	13,700	15,100	14,900	14,200	-	50
55	-	-	17,000	21,700	18,400	22,200	18,100	17,500	16,000	15,700	14,600	12,300	13,500	13,500	12,700	-	55
60	-	-	13,900	18,500	15,300	19,000	16,200	16,100	14,500	14,400	13,200	11,200	12,100	12,300	11,400	-	60
65	-	-	-	-	12,900	16,500	13,700	14,900	13,200	13,300	11,900	10,200	11,000	11,300	10,300	-	65
70	-	-	-	-	10,800	14,400	11,700	13,900	12,100	12,400	10,900	9,300	10,000	10,400	9,300	-	70
75	-	-	-	-	9,100	12,700	10,000	12,900	10,500	11,600	9,900	8,600	9,100	9,600	8,400	-	75
80	-	-	-	-	-	-	8,500	11,400	9,100	10,800	9,100	7,900	8,300	8,900	7,600	-	80
85	-	-	-	-	-	-	7,300	10,200	7,800	10,100	8,200	7,300	7,600	8,200	7,000	-	85
90	-	-	-	-	-	-	-	-	6,800	9,200	7,100	6,800	6,900	7,700	6,300	-	90
95	-	-	-	-	-	-	-	-	5,800	8,300	6,200	6,300	6,400	7,200	5,800	-	95
100	-	-	-	-	-	-	-	-	5,000	7,400	5,400	5,900	5,600	6,600	5,300	-	100
105	-	-	-	-	-	-	-	-	-	-	4,600	5,500	4,900	5,800	4,900	-	105
110	-	-	-	-	-	-	-	-	-	-	4,000	5,200	4,200	5,200	4,400	-	110
115	-	-	-	-	-	-	-	-	-	-	3,400	4,900	3,600	4,600	3,800	-	115
120	-	-	-	-	-	-	-	-	-	-	-	-	3,100	4,100	3,300	-	120
125	-	-	-	-	-	-	-	-	-	-	-	-	2,700	3,600	2,800	-	125
130	-	-	-	-	-	-	-	-	-	-	-	-	2,300	3,200	2,400	-	130
135	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,000	-	135
140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,700	-	140
145	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,400	-	145

### Telescopic conditions (%)

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

(ft)	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'
------	-------	-------	-------	-------	-------	-------	-------	-------	--------	--------	--------	--------	--------	--------

(ft)	32.5	46.8	61.1	61.0	75.3	75.3	89.4	89.5	103.7	103.4	117.8	117.2	131.9	131.3
------	------	------	------	------	------	------	------	------	-------	-------	-------	-------	-------	-------

2) (lb)	25,900	15,100	8,900	12,500	6,200	9,300	4,500	7,100	3,100	5,600	2,200	4,200	1,400	2,600
---------	--------	--------	-------	--------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

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

1) Telescopic mode      2) 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:

(ft)	39.4'	39.4' to 53.7'	53.7' to 154.2'	Single top jib
1)	1, 2	1	2	1, 2
	12	8	4	1



Smart Chart

## On rubber stationary

9,600 lb		0°*			
	39.4'	68.1'	82.4'	96.8'	
ft	1,000 lb				
10	65,500	-	-	-	
12	56,700	-	-	-	
15	46,800	-	-	-	
20	35,200	37,300	26,500	-	
25	22,900	26,100	26,200	26,000	
30	-	19,000	19,600	19,700	
35	-	14,400	14,900	15,300	
40	-	11,100	11,600	11,900	
45	-	8,600	9,100	9,500	
50	-	6,700	7,200	7,500	
55	-	5,200	5,700	6,000	
60	-	4,000	4,400	4,700	
65	-	-	3,400	3,700	
70	-	-	2,600	2,900	
75	-	-	1,900	2,100	
80	-	-	-	1,500	
	0°	0°	0°	20°	

### Telescopic conditions (%)

1)	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

	(ft)	39.4'	68.1'	82.4'
	(ft)	32.5	61.3	75.3
	<sup>2)</sup> (lb)	13,400	3,000	1,900

- 1) Telescopic mode
- 2) 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.

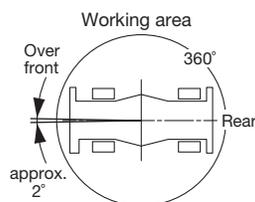
	(ft)	39.4'	42.0' to 96.8'	Single top jib
		6	4	1

9,600 lb		360°			
	39.4'	68.1'	82.4'	96.8'	
ft	1,000 lb				
10	38,200	-	-	-	
12	31,400	-	-	-	
15	20,900	-	-	-	
20	11,400	14,800	15,500	-	
25	6,300	9,500	10,200	10,600	
30	-	6,200	6,800	7,200	
35	-	3,900	4,500	4,800	
40	-	2,200	2,800	3,200	
45	-	-	1,500	1,900	
50	-	-	-	-	
55	-	-	-	-	
60	-	-	-	-	
65	-	-	-	-	
70	-	-	-	-	
75	-	-	-	-	
80	-	-	-	-	
	0°	44°	52°	57°	

### Telescopic conditions (%)

1)	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

	(ft)	39.4'
	(ft)	32.5
	<sup>2)</sup> (lb)	3,700



# Operation

MB

## On rubber creep

9,600 lb		0° *			
	39.4'	68.1'	82.4'	96.8'	
ft	1,000 lb				
10	48,500	-	-	-	
12	41,800	-	-	-	
15	33,900	-	-	-	
20	24,900	27,100	26,500	-	
25	18,800	21,200	21,600	21,800	
30	-	17,000	17,400	17,600	
35	-	13,700	14,100	14,400	
40	-	11,100	11,600	11,800	
45	-	8,600	9,100	9,500	
50	-	6,700	7,200	7,500	
55	-	5,200	5,700	6,000	
60	-	4,000	4,400	4,700	
65	-	-	3,400	3,700	
70	-	-	2,600	2,900	
75	-	-	1,900	2,100	
80	-	-	-	1,500	
	0°	0°	0°	20°	

## Telescopic conditions (%)

1)	1, 2	2	2	2
	2.	0	0	0
	3.	0	33	50
	4.	0	33	50
	Top	0	33	50

	(ft)	39.4'	68.1'	82.4'
	(ft)	32.5	61.3	75.3
	<sup>2)</sup> (lb)	11,200	3,000	1,900

1) Telescopic mode

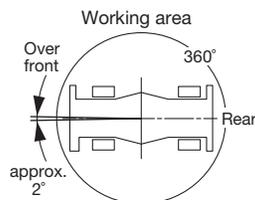
2) Loaded boom angle (°)

\* over front

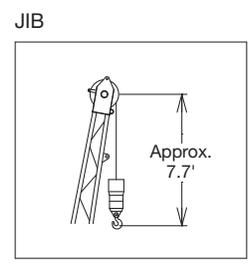
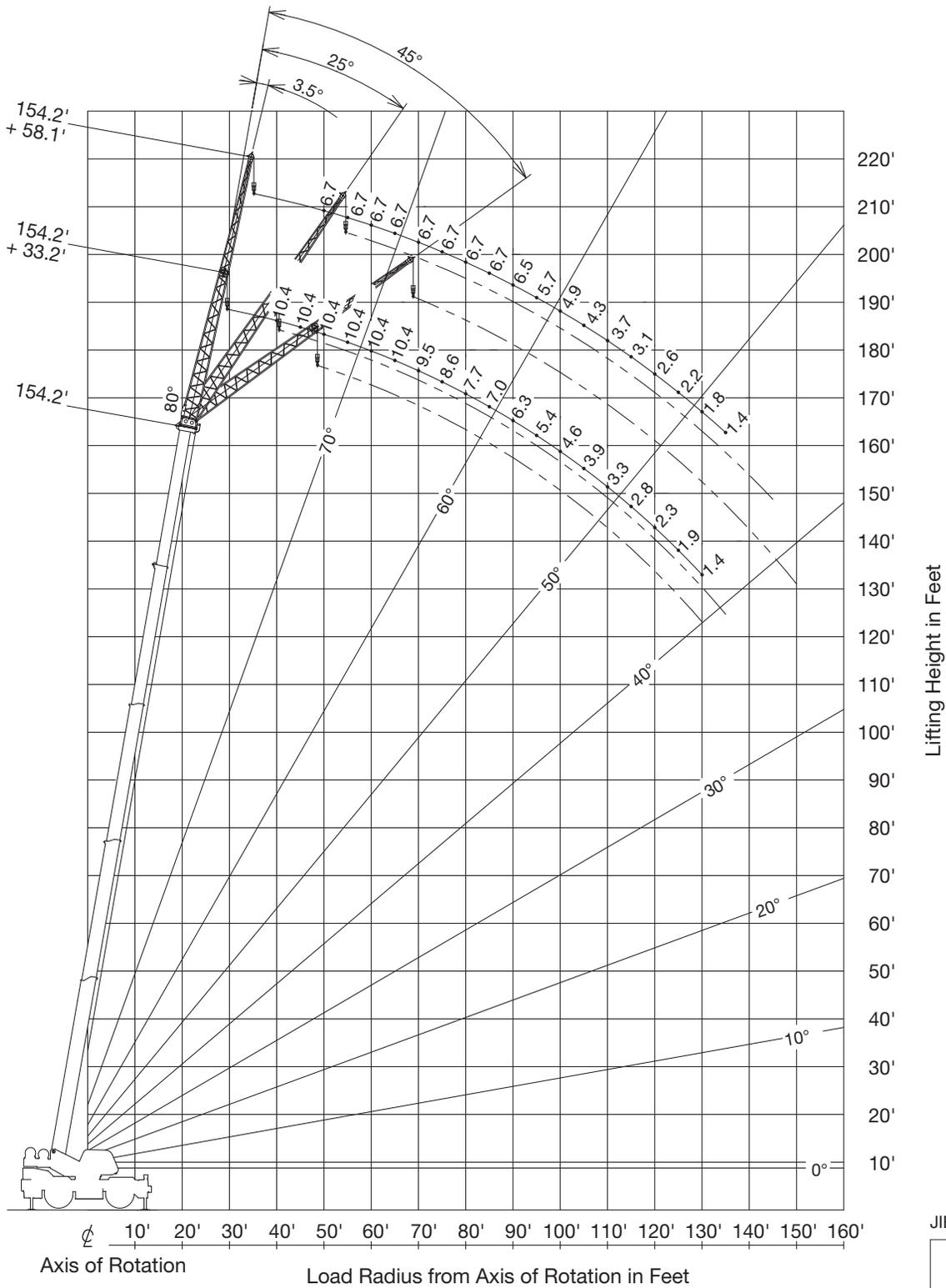
## NOTE:

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.

	(ft)	39.4'	42.0' to 96.8'	Single top jib
		6	4	1



# Operation



**NOTE:**  
 Jib 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.

# Operation

Fully extended – 360°

9,600 lb				23' 11-3/8" x 24' 0-5/8"				360°			
		154.2' + 33.2'				154.2' + 58.1'					
		3.5°		25°		45°					
ft		1,000 lb						ft		1,000 lb	
40	10,400	-	-	-	-	-	-	40	-	-	-
45	10,400	-	-	-	-	-	-	45	-	-	-
50	10,400	-	-	-	-	-	-	50	6,700	-	-
55	10,400	10,200	-	-	-	-	-	55	6,700	-	-
60	10,400	10,200	-	-	-	-	-	60	6,700	-	-
65	10,400	10,200	8,800	-	-	-	-	65	6,700	-	-
70	9,500	9,600	8,800	-	-	-	-	70	6,700	-	-
75	8,600	8,800	8,400	-	-	-	-	75	6,700	6,000	-
80	7,700	8,000	8,000	-	-	-	-	80	6,700	5,800	-
85	7,000	7,300	7,400	-	-	-	-	85	6,700	5,700	4,800
90	6,300	6,600	6,700	-	-	-	-	90	6,500	5,500	4,700
95	5,400	6,000	6,200	-	-	-	-	95	5,700	5,400	4,600
100	4,600	5,400	5,600	-	-	-	-	100	4,900	5,300	4,500
105	3,900	4,700	5,100	-	-	-	-	105	4,300	5,200	4,400
110	3,300	4,000	4,500	-	-	-	-	110	3,700	4,900	4,300
115	2,800	3,400	3,800	-	-	-	-	115	3,100	4,300	4,200
120	2,300	2,900	3,200	-	-	-	-	120	2,600	3,700	4,100
125	1,900	2,400	2,700	-	-	-	-	125	2,200	3,200	3,900
130	1,400	1,900	2,200	-	-	-	-	130	1,800	2,700	3,300
135	-	1,500	-	-	-	-	-	135	1,400	2,200	2,800
140	-	-	-	-	-	-	-	140	-	1,800	2,400
145	-	-	-	-	-	-	-	145	-	1,500	1,900
150	-	-	-	-	-	-	-	150	-	-	1,500
1)	1, 2	1, 2	1, 2	1, 2	1, 2	1, 2	1, 2	1)	1, 2	1, 2	1, 2

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

		139.8' + 58.1'					
		3.5°		25°		45°	
ft		1,000 lb					
35	-	-	-	-	-	-	-
40	6,700	-	-	-	-	-	-
45	6,700	7,200	-	-	-	-	-
50	6,700	7,200	-	-	-	-	-
55	6,700	7,200	-	-	-	-	-
60	6,700	7,200	-	-	-	-	-
65	6,700	7,200	6,000	-	-	-	-
70	6,700	7,200	6,000	6,200	-	-	-
75	6,700	7,200	6,000	6,000	4,800	-	-
80	6,700	7,200	6,000	5,900	4,800	4,800	-
85	6,700	7,000	5,800	5,700	4,800	4,800	-
90	6,700	6,400	5,600	5,600	4,700	4,700	-
95	6,000	5,900	5,500	5,400	4,600	4,500	-
100	5,200	5,400	5,400	5,200	4,500	4,500	-
105	4,500	5,000	5,200	5,000	4,400	4,300	-
110	3,900	4,700	5,100	4,700	4,300	4,300	-
115	3,400	4,100	4,500	4,400	4,200	4,200	-
120	2,900	3,600	3,900	4,100	4,100	4,100	-
125	2,400	3,100	3,300	3,800	4,000	3,900	-
130	2,000	2,700	2,800	3,500	3,400	3,600	-
135	1,600	2,300	2,400	3,100	2,900	3,400	-
140	1,300	2,000	2,000	2,600	2,400	3,100	-
145	-	1,700	1,600	2,300	2,000	2,600	-
150	-	1,400	1,200	1,900	1,600	2,200	-
155	-	1,100	-	1,600	-	1,800	-
160	-	-	-	1,300	-	-	-
1)	1	2	1	2	1	2	

1) Telescopic mode

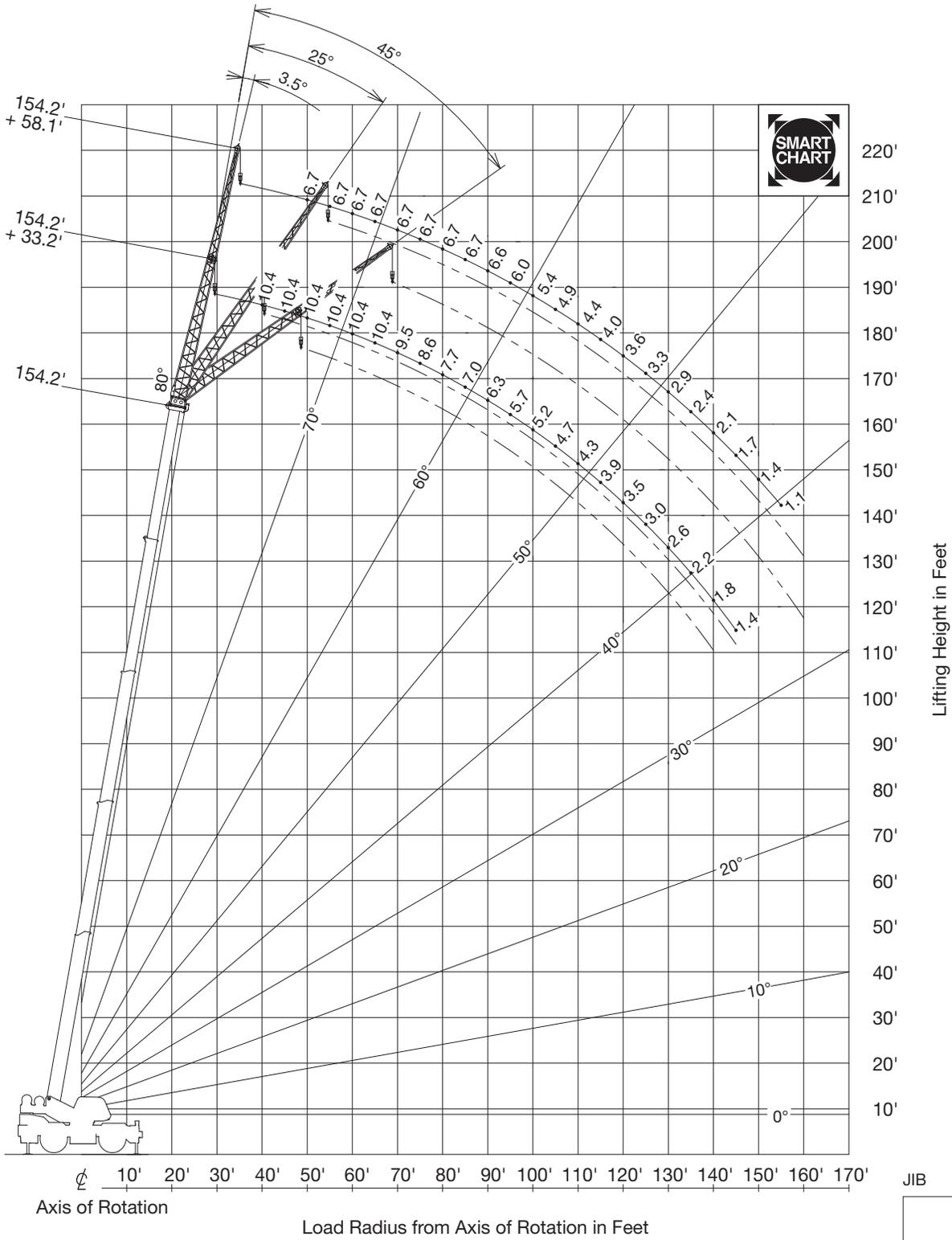
# Operation

Fully extended – 360°

9,600 lb								23' 11-3/8" x 24' 0-5/8"								360°							
				125.5' + 33.2'								125.5' + 58.1'											
3.5°		25°		45°				3.5°		25°		45°											
ft		1,000 lb						ft		1,000 lb													
35	14,600	11,500	-	-	-	-	-	35	-	-	-	-	-										
40	14,600	11,500	-	-	-	-	-	40	-	7,200	-	-	-										
45	14,600	11,500	12,600	10,900	-	-	-	45	8,700	7,200	-	-	-										
50	14,600	11,500	12,600	10,900	-	-	-	50	8,700	7,200	-	-	-										
55	14,200	11,500	12,500	10,900	10,000	9,100	-	55	8,700	7,200	-	-	-										
60	12,800	10,500	12,000	10,100	9,800	9,100	-	60	8,700	7,200	-	-	-										
65	11,500	9,500	11,600	9,300	9,600	8,800	-	65	8,700	7,200	6,700	6,300	-										
70	10,400	8,600	10,500	8,600	9,400	8,300	-	70	8,500	7,200	6,400	6,300	-										
75	9,500	7,900	9,600	7,900	9,200	7,800	-	75	8,100	7,200	6,200	6,100	5,100										
80	8,700	7,200	8,800	7,300	8,900	7,300	-	80	7,800	7,000	6,000	5,900	4,900										
85	7,600	6,600	8,100	6,700	8,200	6,700	-	85	7,500	6,400	5,900	5,700	4,800										
90	6,600	6,100	7,400	6,200	7,500	6,200	-	90	7,200	5,900	5,700	5,600	4,700										
95	5,700	5,600	6,400	5,700	6,900	5,700	-	95	6,300	5,400	5,500	5,300	4,600										
100	4,900	5,100	5,600	5,200	6,000	5,300	-	100	5,500	5,000	5,300	5,000	4,500										
105	4,200	4,700	4,800	4,800	5,100	4,900	-	105	4,800	4,600	5,200	4,700	4,300										
110	3,600	4,400	4,100	4,500	4,400	4,500	-	110	4,200	4,200	5,000	4,400	4,300										
115	3,000	4,000	3,500	4,100	3,700	4,200	-	115	3,600	3,900	4,700	4,100	4,200										
120	2,500	3,700	3,000	3,800	-	-	-	120	3,100	3,600	4,000	3,800	4,100										
125	2,100	3,400	2,400	3,500	-	-	-	125	2,600	3,300	3,500	3,500	4,000										
130	1,700	3,200	2,000	3,200	-	-	-	130	2,200	3,000	3,000	3,200	3,500										
135	1,300	2,800	1,500	3,000	-	-	-	135	1,800	2,800	2,500	3,000	3,000										
140	-	2,500	1,100	2,600	-	-	-	140	1,500	2,600	2,100	2,700	2,400										
145	-	2,200	-	-	-	-	-	145	1,100	2,400	1,700	2,500	-										
150	-	-	-	-	-	-	-	150	-	2,200	1,300	2,300	-										
155	-	-	-	-	-	-	-	155	-	2,000	-	2,100	-										
160	-	-	-	-	-	-	-	160	-	1,700	-	1,900	-										
1)	1	2	1	2	1	2		1)	1	2	1	2	1	2									

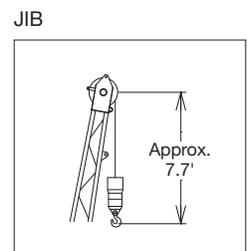
1) Telescopic mode

# Operation



**NOTE:**

Jib 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.



# Operation

## Fully extended – 360° – Smart Chart

9,600 lb				23' 11-3/8" x 24' 0-5/8"				360°			
		154.2' + 33.2'				154.2' + 58.1'					
		3.5°		25°		45°					
ft		1,000 lb						ft		1,000 lb	
40	10,400	-	-	-	-	-	-	40	-	-	-
45	10,400	-	-	-	-	-	-	45	-	-	-
50	10,400	-	-	-	-	-	-	50	6,700	-	-
55	10,400	10,200	-	-	-	-	-	55	6,700	-	-
60	10,400	10,200	-	-	-	-	-	60	6,700	-	-
65	10,400	10,200	8,800	-	-	-	-	65	6,700	-	-
70	9,500	9,600	8,800	-	-	-	-	70	6,700	-	-
75	8,600	8,800	8,400	-	-	-	-	75	6,700	6,000	-
80	7,700	8,000	8,000	-	-	-	-	80	6,700	5,800	-
85	7,000	7,300	7,400	-	-	-	-	85	6,700	5,700	4,800
90	6,300	6,600	6,700	-	-	-	-	90	6,600	5,500	4,700
95	5,700	6,000	6,200	-	-	-	-	95	6,000	5,400	4,600
100	5,200	5,500	5,600	-	-	-	-	100	5,400	5,300	4,500
105	4,700	5,000	5,100	-	-	-	-	105	4,900	5,200	4,400
110	4,300	4,500	4,700	-	-	-	-	110	4,400	4,900	4,300
115	3,900	4,100	4,300	-	-	-	-	115	4,000	4,500	4,200
120	3,500	3,700	3,900	-	-	-	-	120	3,600	4,100	4,100
125	3,000	3,400	3,500	-	-	-	-	125	3,300	3,700	3,900
130	2,600	3,000	3,200	-	-	-	-	130	2,900	3,400	3,600
135	2,200	2,600	2,800	-	-	-	-	135	2,400	3,100	3,300
140	1,800	2,200	2,300	-	-	-	-	140	2,100	2,800	3,000
145	1,400	1,800	-	-	-	-	-	145	1,700	2,400	2,600
150	-	-	-	-	-	-	-	150	1,400	2,100	2,400
155	-	-	-	-	-	-	-	155	1,100	1,700	2,100
160	-	-	-	-	-	-	-	160	-	1,400	1,700
1)	1, 2	1, 2	1, 2					1)	1, 2	1, 2	1, 2

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

		139.8' + 58.1'					
		3.5°		25°		45°	
ft		1,000 lb					
35	-	-	-	-	-	-	-
40	6,700	-	-	-	-	-	-
45	6,700	7,200	-	-	-	-	-
50	6,700	7,200	-	-	-	-	-
55	6,700	7,200	-	-	-	-	-
60	6,700	7,200	-	-	-	-	-
65	6,700	7,200	6,000	-	-	-	-
70	6,700	7,200	6,000	6,200	-	-	-
75	6,700	7,200	6,000	6,000	4,800	-	-
80	6,700	7,200	6,000	5,900	4,800	4,800	-
85	6,700	7,000	5,800	5,700	4,800	4,800	-
90	6,700	6,400	5,600	5,600	4,700	4,700	-
95	6,200	5,900	5,500	5,400	4,600	4,500	-
100	5,700	5,400	5,400	5,200	4,500	4,500	-
105	5,200	5,000	5,200	5,000	4,400	4,300	-
110	4,700	4,700	5,100	4,700	4,300	4,300	-
115	4,300	4,300	4,700	4,400	4,200	4,200	-
120	3,900	4,000	4,300	4,100	4,100	4,100	-
125	3,600	3,700	4,000	3,800	4,000	3,900	-
130	3,100	3,500	3,600	3,600	3,800	3,600	-
135	2,700	3,200	3,300	3,300	3,500	3,400	-
140	2,300	3,000	3,000	3,100	3,200	3,200	-
145	1,900	2,700	2,600	2,900	2,900	2,900	-
150	1,600	2,400	2,200	2,700	2,600	2,700	-
155	1,300	2,100	1,900	2,500	-	2,500	-
160	-	1,800	1,500	2,200	-	-	-
1)	1	2	1	2	1	2	



Smart Chart

1) Telescopic mode

## Fully extended – 360° – Smart Chart

9,600 lb								23' 11-3/8" x 24' 0-5/8"								360°							
				125.5' + 33.2'								125.5' + 58.1'											
		3.5°		25°		45°				3.5°		25°		45°									
ft		1,000 lb						ft		1,000 lb													
35	14,600	11,500	-	-	-	-	35	-	-	-	-	-	-	-									
40	14,600	11,500	-	-	-	-	40	-	7,200	-	-	-	-	-									
45	14,600	11,500	12,600	10,900	-	-	45	8,700	7,200	-	-	-	-	-									
50	14,600	11,500	12,600	10,900	-	-	50	8,700	7,200	-	-	-	-	-									
55	14,200	11,500	12,500	10,900	10,000	9,100	55	8,700	7,200	-	-	-	-	-									
60	12,800	10,500	12,000	10,100	9,800	9,100	60	8,700	7,200	-	-	-	-	-									
65	11,500	9,500	11,600	9,300	9,600	8,800	65	8,700	7,200	6,700	6,300	-	-	-									
70	10,400	8,600	10,500	8,600	9,400	8,300	70	8,500	7,200	6,400	6,300	-	-	-									
75	9,500	7,900	9,600	7,900	9,200	7,800	75	8,100	7,200	6,200	6,100	5,100	4,800	-									
80	8,700	7,200	8,800	7,300	8,900	7,300	80	7,800	7,000	6,000	5,900	4,900	4,800	-									
85	7,900	6,600	8,100	6,700	8,200	6,700	85	7,500	6,400	5,900	5,700	4,800	4,700	-									
90	7,300	6,100	7,400	6,200	7,500	6,200	90	7,200	5,900	5,700	5,600	4,700	4,600	-									
95	6,700	5,600	6,800	5,700	6,900	5,700	95	6,600	5,400	5,500	5,300	4,600	4,500	-									
100	6,100	5,100	6,300	5,200	6,300	5,300	100	6,100	5,000	5,300	5,000	4,500	4,400	-									
105	5,600	4,700	5,800	4,800	5,900	4,900	105	5,600	4,600	5,200	4,700	4,300	4,300	-									
110	4,900	4,400	5,300	4,500	5,400	4,500	110	5,100	4,200	5,000	4,400	4,300	4,200	-									
115	4,300	4,000	4,800	4,100	5,000	4,200	115	4,700	3,900	4,900	4,100	4,200	4,100	-									
120	3,700	3,700	4,100	3,800	-	-	120	4,400	3,600	4,700	3,800	4,100	3,900	-									
125	3,200	3,400	3,600	3,500	-	-	125	3,800	3,300	4,300	3,500	4,000	3,600	-									
130	2,700	3,200	3,000	3,200	-	-	130	3,400	3,000	3,900	3,200	4,000	3,300	-									
135	2,300	2,900	2,500	3,000	-	-	135	2,900	2,800	3,600	3,000	3,800	3,000	-									
140	1,900	2,700	2,100	2,800	-	-	140	2,500	2,600	3,200	2,700	3,400	2,800	-									
145	1,500	2,500	-	-	-	-	145	2,200	2,400	2,700	2,500	-	-	-									
150	-	2,300	-	-	-	-	150	1,800	2,200	2,300	2,300	-	-	-									
155	-	-	-	-	-	-	155	1,500	2,000	1,900	2,100	-	-	-									
160	-	-	-	-	-	-	160	1,200	1,800	1,600	1,900	-	-	-									
1)	1	2	1	2	1	2	1)	1	2	1	2	1	2										



Smart Chart

1) Telescopic mode

# 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-TWOBLOCK" 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 9,600 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.