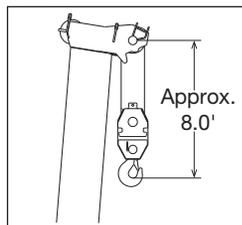
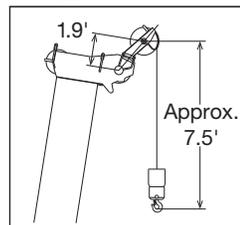


BOOM



SINGLE TOP



NOTE:

Boom 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°

55,100 lb		23'7-1/2" x 19'8-1/4"														360°	
41.0'*		41.0'	55.5'	55.5'	55.5'	55.5'	70.0'	70.0'	70.0'	70.0'	70.0'	70.0'	84.4'	84.4'	84.4'	84.4'	
ft	lb																
8	242,500	186,700	143,300	127,900	88,200	77,200	-	-	-	-	-	-	-	-	-	-	
10	180,100	180,100	143,300	127,900	88,200	77,200	122,600	121,900	88,200	77,200	65,700	-	-	-	-	-	
12	162,800	162,800	143,300	127,900	88,200	77,200	122,600	121,900	88,200	77,200	60,200	-	86,600	77,200	-	-	
15	137,900	137,900	136,300	127,900	88,200	75,600	117,400	121,900	88,200	77,200	53,500	88,800	86,600	77,200	57,600	-	
20	107,300	107,300	107,000	107,900	88,200	65,000	101,000	107,700	88,200	71,200	45,100	85,100	86,600	75,800	49,400	-	
25	86,900	86,900	86,400	87,400	88,200	57,300	86,000	87,200	88,200	63,500	39,000	75,500	86,600	68,300	43,200	-	
30	72,200	72,200	71,700	72,700	73,600	51,300	71,300	72,500	73,900	57,500	34,300	67,000	73,500	62,200	38,500	-	
35	-	-	59,500	61,100	62,400	46,600	58,700	60,600	62,900	52,000	30,600	59,700	62,000	57,200	34,700	-	
40	-	-	47,900	49,300	50,600	42,900	47,200	49,000	51,100	47,100	27,700	48,200	50,400	52,700	31,600	-	
45	-	-	39,500	40,900	42,000	40,200	38,800	40,500	42,500	43,100	25,200	39,800	41,900	44,100	28,900	-	
50	-	-	-	-	-	-	32,500	34,100	36,100	37,600	23,200	33,500	35,500	37,700	26,600	-	
55	-	-	-	-	-	-	27,600	29,200	31,100	32,600	21,600	28,500	30,500	32,600	24,600	-	
60	-	-	-	-	-	-	23,800	25,300	27,100	28,500	20,300	24,600	26,500	28,500	22,900	-	
65	-	-	-	-	-	-	-	-	-	-	-	21,300	23,200	25,200	21,400	-	
70	-	-	-	-	-	-	-	-	-	-	-	18,600	20,500	22,400	20,200	-	
75	-	-	-	-	-	-	-	-	-	-	-	16,400	18,200	20,100	19,100	-	
	16	12	10	9	6	5	8	8	6	5	5	6	6	5	4		
1)	39,000	39,000	39,000	39,000	39,000	39,000	39,000	39,000	39,000	39,000	39,000	39,000	39,000	39,000	39,000	39,000	
2)	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	
3)	1	1	5	4	3	1	5	4	3	2	1	4	3	2	1		
4)	1	1	21	18	14	2	22	19	15	10	3	20	16	11	4		

Telescopic conditions (%)

Tele 1	0	0	46	0	0	0	92	46	0	0	0	92	46	0	0
Tele 2	0	0	0	46	0	0	0	46	46	0	0	46	46	46	0
Tele 3	0	0	0	0	46	0	0	0	46	46	0	0	46	46	46
Tele 4	0	0	0	0	0	46	0	0	0	46	92	0	0	46	92

* Over rear with special equipment

- 1) Maximum capacity without boom pin
- 2) Minimum boom angle (°) for indicator length (no load)
- 3) Boom block
- 4) Boom number

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.

Operation

MB

Fully extended – 360°

55,100 lb		23'7-1/2" x 19'8-1/4"														360°	
ft	98.9'	98.9'	98.9'	98.9'	98.9'	113.4'	113.4'	113.4'	127.9'	127.9'	127.9'	127.9'	142.3'	142.3'	156.8'	167.3'	
	lb																
20	65,900	62,400	59,500	52,500	45,300	49,600	45,400	40,100	-	-	-	-	-	-	-	-	
25	65,200	62,400	54,800	46,500	39,500	49,600	45,400	39,900	39,000	37,300	36,200	32,000	-	27,300	-	-	
30	59,100	62,400	50,100	41,700	34,600	49,600	44,000	36,600	39,000	37,300	36,200	32,000	30,000	27,300	24,700	-	
35	53,500	60,400	45,400	37,800	30,800	47,000	40,100	33,100	39,000	37,300	36,200	32,000	30,000	27,300	24,700	20,300	
40	48,500	51,800	41,500	34,700	27,700	43,300	36,900	30,000	37,800	37,300	35,900	30,900	30,000	27,300	24,700	20,300	
45	41,000	43,300	38,100	32,000	25,100	39,900	34,200	27,400	35,200	35,600	33,600	29,000	30,000	27,300	24,700	20,300	
50	34,700	36,900	35,200	29,700	23,000	36,100	31,900	25,200	32,700	33,200	31,500	26,800	29,400	27,200	24,700	20,300	
55	29,700	31,900	32,300	27,600	21,100	31,100	29,900	23,300	30,400	31,000	29,600	24,900	27,500	25,800	24,700	20,300	
60	25,700	27,800	28,200	25,800	19,600	27,100	28,100	21,700	27,100	27,900	27,800	23,300	25,700	24,400	23,600	20,300	
65	22,400	24,500	24,900	24,200	18,200	23,800	25,500	20,300	23,900	24,600	25,000	21,800	24,100	23,100	22,300	20,300	
70	19,700	21,700	22,100	22,800	17,000	21,000	22,700	19,000	21,100	21,900	22,300	20,600	21,500	21,800	21,000	19,700	
75	17,400	19,400	19,800	21,000	16,000	18,700	20,300	18,000	18,800	19,500	19,900	19,400	19,200	20,500	19,800	18,700	
80	15,400	17,400	17,700	19,000	15,100	16,600	18,300	17,000	16,800	17,500	17,900	18,400	17,200	18,500	17,800	17,500	
85	13,700	15,700	16,000	17,300	14,300	14,900	16,500	16,100	15,000	15,700	16,100	17,100	15,400	16,700	16,100	16,100	
90	12,300	14,200	14,500	15,800	13,600	13,400	15,000	15,300	13,500	14,200	14,600	15,500	13,900	15,200	14,600	14,600	
95	-	-	-	-	-	12,100	13,700	14,600	12,100	12,900	13,200	14,200	12,500	13,800	13,200	13,200	
100	-	-	-	-	-	10,900	12,500	13,500	10,900	11,700	12,000	13,000	11,300	12,600	12,000	12,000	
105	-	-	-	-	-	9,600	11,000	12,200	9,900	10,600	11,000	11,900	10,300	11,600	10,900	10,900	
110	-	-	-	-	-	-	-	-	9,000	9,700	10,000	11,000	9,300	10,600	9,900	9,900	
115	-	-	-	-	-	-	-	-	8,100	8,800	9,200	10,100	8,500	9,700	9,100	9,100	
120	-	-	-	-	-	-	-	-	6,600	7,200	7,600	8,700	7,700	8,900	8,300	8,300	
125	-	-	-	-	-	-	-	-	-	-	-	-	7,000	8,200	7,600	7,600	
130	-	-	-	-	-	-	-	-	-	-	-	-	6,400	7,600	6,900	6,900	
135	-	-	-	-	-	-	-	-	-	-	-	-	4,600	5,700	6,300	6,300	
140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,800	5,800	
145	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,300	5,300	
150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,800	
155	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,400	
	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
1)	39,000	39,000	39,000	39,000	39,000	39,000	39,000	39,000	39,000	37,300	36,200	32,000	30,000	27,300	24,700	20,300	
2)	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	
3)	3	2	6	7	1	2	7	1	6	7	8	1	8	1	1	9	
4)	17	12	23	25	5	13	26	6	24	27	28	7	29	8	9	30	

Telescopic conditions (%)

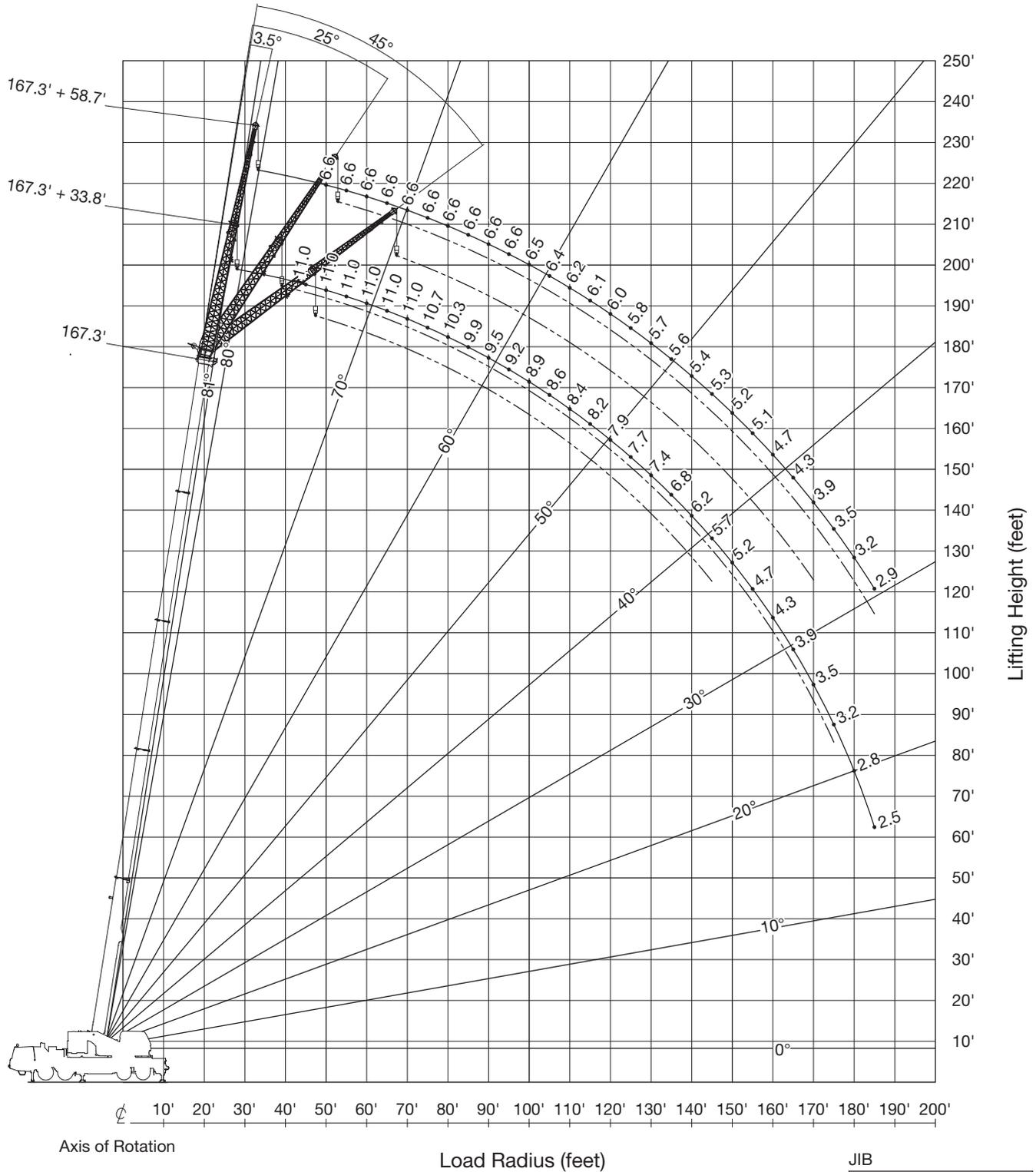
Tele 1	92	46	0	0	0	92	46	0	92	92	46	0	92	46	92	100
Tele 2	46	46	92	46	0	46	46	46	92	46	92	92	92	92	92	100
Tele 3	46	46	46	46	92	46	46	92	46	46	92	92	92	92	92	100
Tele 4	0	46	46	92	92	46	92	92	46	92	46	92	46	92	92	100

- 1) Maximum capacity without boom pin
- 2) Minimum boom angle (°) for indicator length (no load)
- 3) Boom block
- 4) Boom number

NOTE:

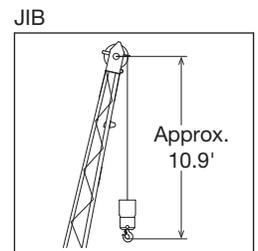
The lifting capacity data stored in the LOAD MOMENT INDICATOR (AML-E2) is based on the standard number of parts of line listed in the chart.

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°

55,100 lb		23'7-1/2" x 19'8-1/4"			33.8'			360°											
		41.0'			98.9'			156.8'			167.3'								
		3.5°			25°			45°			3.5°			25°			45°		
ft	lb																		
10	14,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	14,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	14,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	14,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	14,600	14,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	14,600	13,300	10,600	14,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	14,600	12,100	9,900	14,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	14,100	11,000	9,300	14,600	13,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	12,500	10,200	8,800	14,600	12,300	9,600	12,100	-	-	-	11,000	-	-	-	-	-	-	-	-
50	11,300	9,600	8,500	14,600	11,700	9,300	12,100	11,400	-	-	11,000	-	-	-	-	-	-	-	-
55	10,300	9,000	8,300	14,600	11,200	9,000	12,100	11,000	-	-	11,000	10,800	-	-	-	-	-	-	-
60	9,400	8,600	-	14,600	10,700	8,700	12,100	10,600	8,700	11,000	10,400	-	-	-	-	-	-	-	-
65	8,700	8,400	-	13,800	10,200	8,500	12,100	10,300	8,500	11,000	10,100	8,400	-	-	-	-	-	-	-
70	-	-	-	12,900	9,800	8,300	12,000	9,900	8,300	11,000	9,800	8,200	-	-	-	-	-	-	-
75	-	-	-	12,200	9,500	8,200	11,500	9,600	8,100	10,700	9,500	8,100	-	-	-	-	-	-	-
80	-	-	-	11,600	9,100	8,000	11,000	9,400	8,000	10,300	9,300	7,900	-	-	-	-	-	-	-
85	-	-	-	11,000	8,900	7,900	10,600	9,100	7,800	9,900	9,000	7,800	-	-	-	-	-	-	-
90	-	-	-	10,400	8,600	7,800	10,200	8,900	7,700	9,500	8,700	7,600	-	-	-	-	-	-	-
95	-	-	-	10,000	8,400	7,700	9,800	8,600	7,500	9,200	8,400	7,500	-	-	-	-	-	-	-
100	-	-	-	9,500	8,200	-	9,500	8,400	7,400	8,900	8,200	7,400	-	-	-	-	-	-	-
105	-	-	-	9,100	8,000	-	9,200	8,200	7,300	8,600	8,000	7,300	-	-	-	-	-	-	-
110	-	-	-	8,800	7,900	-	8,900	8,100	7,200	8,400	7,700	7,200	-	-	-	-	-	-	-
115	-	-	-	8,500	7,900	-	8,600	7,900	7,100	8,200	7,500	7,100	-	-	-	-	-	-	-
120	-	-	-	8,200	-	-	8,400	7,700	7,100	7,900	7,300	7,000	-	-	-	-	-	-	-
125	-	-	-	8,100	-	-	8,200	7,500	7,000	7,700	7,200	6,900	-	-	-	-	-	-	-
130	-	-	-	-	-	-	7,500	7,400	6,900	7,400	7,000	6,800	-	-	-	-	-	-	-
135	-	-	-	-	-	-	6,800	7,200	6,900	6,800	6,800	6,600	-	-	-	-	-	-	-
140	-	-	-	-	-	-	6,300	6,600	-	6,200	6,600	6,500	-	-	-	-	-	-	-
145	-	-	-	-	-	-	5,700	6,100	-	5,700	6,000	6,200	-	-	-	-	-	-	-
150	-	-	-	-	-	-	5,200	5,500	-	5,200	5,500	-	-	-	-	-	-	-	-
155	-	-	-	-	-	-	4,800	5,000	-	4,700	5,000	-	-	-	-	-	-	-	-
160	-	-	-	-	-	-	4,300	4,600	-	4,300	4,500	-	-	-	-	-	-	-	-
165	-	-	-	-	-	-	3,900	4,100	-	3,900	4,100	-	-	-	-	-	-	-	-
170	-	-	-	-	-	-	3,600	3,700	-	3,500	3,700	-	-	-	-	-	-	-	-
175	-	-	-	-	-	-	3,200	-	-	3,200	3,300	-	-	-	-	-	-	-	-
180	-	-	-	-	-	-	2,900	-	-	2,800	-	-	-	-	-	-	-	-	-
185	-	-	-	-	-	-	-	-	-	2,500	-	-	-	-	-	-	-	-	-
		1			1			1			1				1				
1)		1			2			1			9								

Telescopic conditions (%)

Tele 1	0	46	92	100
Tele 2	0	46	92	100
Tele 3	0	46	92	100
Tele 4	0	46	92	100

1) Boom block

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.

Operation

Fully extended – 360°

55,100 lb		23'7-1/2" x 19'8-1/4"			58.7'			360°								
41.0'		98.9'			156.8'			167.3'								
3.5°		25°			45°			3.5°			25°			45°		
ft	lb															
30	11,300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	10,200	-	-	-	9,100	-	-	-	-	-	-	-	-	-	-	-
40	9,300	7,300	-	-	9,100	-	-	-	-	-	-	-	-	-	-	-
45	8,500	6,800	-	-	9,100	-	-	-	-	-	-	-	-	-	-	-
50	7,900	6,500	-	-	9,100	-	-	7,600	-	-	-	6,600	-	-	-	-
55	7,300	6,100	5,500	-	9,100	6,800	-	7,600	-	-	-	6,600	-	-	-	-
60	6,900	5,800	5,300	-	9,000	6,600	-	7,600	-	-	-	6,600	-	-	-	-
65	6,400	5,600	5,000	-	8,500	6,300	-	7,600	-	-	-	6,600	-	-	-	-
70	6,100	5,400	4,800	-	8,100	6,100	5,300	7,600	6,100	-	-	6,600	-	-	-	-
75	5,800	5,100	4,600	-	7,700	5,900	5,100	7,500	5,900	-	-	6,600	5,900	-	-	-
80	5,400	4,800	4,500	-	7,400	5,800	5,000	7,300	5,800	-	-	6,600	5,700	-	-	-
85	5,000	4,600	-	-	7,100	5,600	4,800	7,200	5,600	5,000	-	6,600	5,600	-	-	-
90	4,700	4,400	-	-	6,800	5,400	4,700	7,000	5,500	4,900	-	6,600	5,500	4,800	-	-
95	-	-	-	-	6,500	5,300	4,600	6,800	5,400	4,700	-	6,600	5,300	4,800	-	-
100	-	-	-	-	6,300	5,200	4,500	6,700	5,300	4,600	-	6,500	5,200	4,700	-	-
105	-	-	-	-	6,000	5,000	4,400	6,500	5,100	4,500	-	6,400	5,100	4,500	-	-
110	-	-	-	-	5,800	4,900	4,300	6,300	5,000	4,400	-	6,200	5,000	4,500	-	-
115	-	-	-	-	5,600	4,700	4,200	6,200	4,900	4,300	-	6,100	4,900	4,400	-	-
120	-	-	-	-	5,400	4,600	4,200	6,000	4,900	4,300	-	6,000	4,800	4,300	-	-
125	-	-	-	-	5,300	4,500	-	5,800	4,800	4,200	-	5,800	4,700	4,200	-	-
130	-	-	-	-	5,100	4,300	-	5,700	4,700	4,100	-	5,700	4,700	4,100	-	-
135	-	-	-	-	4,900	4,300	-	5,600	4,600	4,100	-	5,600	4,600	4,100	-	-
140	-	-	-	-	4,700	4,200	-	5,400	4,500	4,000	-	5,400	4,500	4,000	-	-
145	-	-	-	-	4,500	-	-	5,300	4,500	3,900	-	5,300	4,400	3,900	-	-
150	-	-	-	-	4,400	-	-	5,200	4,400	3,900	-	5,200	4,400	3,900	-	-
155	-	-	-	-	-	-	-	5,100	4,300	3,900	-	5,100	4,300	3,800	-	-
160	-	-	-	-	-	-	-	4,800	4,200	3,800	-	4,700	4,200	3,800	-	-
165	-	-	-	-	-	-	-	4,400	4,100	-	-	4,300	4,100	3,700	-	-
170	-	-	-	-	-	-	-	4,000	4,000	-	-	3,900	4,100	3,700	-	-
175	-	-	-	-	-	-	-	3,700	4,000	-	-	3,500	4,000	-	-	-
180	-	-	-	-	-	-	-	3,400	3,700	-	-	3,200	3,600	-	-	-
185	-	-	-	-	-	-	-	3,000	3,300	-	-	2,900	3,300	-	-	-
		1				1			1				1			
1)		1				2			1				9			

Telescopic conditions (%)

Tele 1	0			46			92			100
Tele 2	0			46			92			100
Tele 3	0			46			92			100
Tele 4	0			46			92			100

1) Boom block

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.

Warning and Operating Instructions

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 this Operation and Maintenance Manual and any local regulations. Replacement manuals can be ordered from a TADANO distributor or dealer.
3. The operator and other personnel associated with this machine shall fully acquaint themselves with the applicable crane safety regulations and voluntary standards for the country where the crane will be operated.

SET UP

1. The rated lifting capacity tables provide the maximum allowable crane capacities and are based on the machine standing level on firm supporting surface under ideal conditions. Depending on the nature of the supporting surface, it may be necessary to have structural supports under the outrigger floats (or under the tires if applicable to your crane) to spread the loads to a larger surface area.
2. Outriggers must always be properly extended with both pins installed in each and the tires must not be in contact with the supporting surface before operating crane.

OPERATION

1. Rated lifting capacities have been tested to and meet minimum requirements of SAE standard J1063, Cantilevered Boom Crane Structures - Method of Test.
2. Rated lifting capacities do not exceed 85% of the tipping load with outriggers fully extended as determined by SAE standard J765, Crane Load Stability Test Code. Rated lifting capacities for partially extended outriggers are determined from the following formula:
Rated Lifting Capacities = (tipping load - 0.1 x 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 included as part of the load and must be deducted from the lifting capacity.
5. Rated lifting capacities are based on freely suspended loads and make no allowance for such factors as the effects of wind, sudden stopping of loads, supporting surface conditions, outrigger stability, tire inflation pressures (if applicable to your crane), 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. During boom lift, consider that the rated lifting capacity is reduced by 50% when the wind speed is 20 mph to 27 mph and is 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. Never exceed the rated lifting capacity for a given load radius. Do not risk a tip over by attempting to exceed the rated lifting capacity for the machine configuration. Stop lifting and lower the load if any outrigger is not in contact with the ground.
8. Do not operate at boom lengths, radii, or boom angles, where no capacities are shown in the rated capacity lifting tables. 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. Always use the lesser of the two rated lifting capacity values.
10. When the desired load radius for a lift is between two load radii listed in a lifting capacity table, always use the allowable capacity for the longer radius.
11. Load per line should not exceed 15,900 lb for main winch and auxiliary winch.
12. Check that the actual number of parts of line matches 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 following formula: Single line pull for main winch 15,900 lb x 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. The 41.0' boom length capacities are based on boom fully retracted.
14. The maximum capacity without boom pin (B-pin) is shown in the rated lifting capacity table.
15. The ability to telescope loads is limited by several factors including but not limited to: hydraulic pressure, boom angle, boom length, and crane maintenance.
16. For lifting capacity of single top, deduct the weight of the load handling equipment from the rated lifting capacity of the boom.
For the lifting capacity of single top, the net capacity shall not exceed 15,900 lb including the main boom hook mass attached to the boom.
17. When the base jib, top jib, or both jibs are removed, set the jib state switch to the DISMOUNTED position.
18. When erecting and stowing jib, always use ropes or straps to prevent jib from moving.
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 if an overwind condition occurs.
20. When lifting a load by using jib (auxiliary 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. Outriggers shall be fully extended 23' 7-1/2" when installing or removing counterweight.

DEFINITIONS

1. Load Radius: The horizontal distance between the center of rotation and center of the hook block.
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.