



ELLIOTT

EQUIPMENT COMPANY

MODEL 3000

105-ft BOOM

MAIN BOOM LOAD RATINGS WITH FULLY EXTENDED OUTRIGGERS

MAIN BOOM LOAD RATINGS

LOAD RATINGS IN lbs WITH OUTRIGGERS AND STABILIZERS EXTENDED

LOAD RADIUS IN FEET	LOADED BOOM ANGLE	31-ft	A 46-ft	LOADED BOOM ANGLE	B 58-ft	LOADED BOOM ANGLE	C 70-ft	LOADED BOOM ANGLE	D 82-ft	LOADED BOOM ANGLE	E 94-ft	LOADED BOOM ANGLE	F 105-ft
5	80	60,000											
6	78	48,000											
8	74.2	38,600	79.2	32,000									
10	70.3	32,000	76.6	28,000									
12	66.2	27,500	74	26,000	77.4	25,300							
14	62	24,000	71.3	24,000	75.4	23,700	78	21,700					
16	57.6	20,800	68.6	22,500	73.3	22,200	76.3	20,400	78.3	17,500			
18	52.9	17,900	65.8	21,000	71.1	20,600	74.5	19,000	76.9	16,600	78.6	15,000	
20	47.8	15,600	62.9	19,000	69	19,100	72.8	17,800	75.4	15,500	77.3	13,600	
22	42.3	13,100	60	17,000	66.8	17,600	71	16,500	74	14,500	76.1	12,800	78
25	32.2	10,200	55.3	14,000	63.5	15,300	68.4	14,600	71.7	13,000	74.2	11,800	76.1
30			46.9	11,000	58.1	12,300	64.2	11,500	68.3	11,500	71.2	10,200	73.2
35			37.8	9,000	51.8	9,900	59.4	9,300	64.4	9,300	67.9	8,900	70.3
40			24.3	6,300	44.9	8,700	54.4	7,700	60.3	7,650	64.5	7,650	67.4
45					36.9	7,500	49	6,500	56.1	6,450	61	6,400	64.3
50					26.7	6,000	43.1	5,500	51.7	5,450	57.4	5,400	61.2
55							36.3	4,700	46.9	4,650	53.6	4,600	58
60							28.1	4,050	41.7	4,000	49.6	3,950	54.6
65							16.1	3,500	35.9	3,450	45.4	3,400	51.1
70									30	3,000	40.7	2,800	47.4
75									19.9	2,300	35.6	2,000	43.5
80											29.7	1,000	39.2
85											22.3	600	34.5
90													29.1
95													22.4
	0	8,800	0	6,200	0	4,100							
DEDUCTIONS FOR STOWED JIB (lbs)		850	600	450	400	350	300	250	200	150	100	50	
		550	350	300	250	200	150	100	50	0	0	0	

JIB LOAD RATINGS

LOAD RATINGS IN lbs WITH OUTRIGGERS AND STABILIZERS EXTENDED

26-ft FIXED LENGTH JIB			26-45 ft EXTENDABLE JIB			
LOAD RADIUS IN FEET	LOADED BOOM ANGLE	26-ft JIB	LOADED BOOM ANGLE	26-ft JIB RETRACTED	LOADED BOOM ANGLE	45-ft JIB EXTENDED
30	78.7	4,750	78.5	4,500		
35	76.5	4,350	76.3	4,100	77.4	2,600
40	74.3	3,950	74.1	3,700	75.4	2,500
45	72	3,450	71.7	3,200	74	2,400
50	69.5	3,050	69.3	2,800	72.2	2,250
55	67.1	2,650	66.8	2,400	70.3	2,050
60	64.6	2,350	64.3	2,100	68.3	1,900
65	62	2,050	61.7	1,800	66.2	1,750
70	59.4	1,850	59.1	1,600	64.2	1,600
75	56.7	1,650	56.4	1,400	62	1,400
80	53.9	1,450	53.6	1,200	59.7	1,200
85	51	1,250	50.6	1,000	57.3	1,100
90	47.8	1,050	47.5	800	55.1	1,000
95					52.6	850
100					49.6	500

NOTICE

- DO NOT DEADHEAD LINE BLOCK AGAINST BOOM TIP WHEN EXTENDING BOOM.
- KEEP AT LEAST 5 WRAPS OF LOADLINE ON THE WINCH DRUM AT ALL TIMES.
- USE ONLY 9/16" DIAMETER WIRE ROPE, AS SPECIFIED BELOW, WITH THE PROPER BREAKING STRENGTHS LISTED.
- ANTI-TWO-BLOCK SYSTEM MUST BE IN GOOD OPERATING CONDITION BEFORE OPERATING CRANE. SEE OPERATION & SAFETY MANUAL.

DEDUCTIONS FOR STOWED EXTENDABLE JIB (lbs)

DEDUCTIONS FOR STOWED FIXED LENGTH JIB (lbs)

1-PART LINE



2-PART LINE



3-PART LINE



4-PART LINE



5-PART LINE



6-PART LINE



7-PART LINE



ELLIOTT EQUIPMENT CO. SUPPLIED LOADLINE EQUIPMENT DEDUCTIONS:

DOWNHAUL WEIGHT180 lbs
 ONE SHEAVE BLOCK.....375 lbs
 TWO SHEAVE BLOCK.....640 lbs
 THREE SHEAVE BLOCK.....870 lbs
 AUXILIARY SHEAVE.....100 lbs

MAX PULL: 9,060 lbs

18,120 lbs

27,180 lbs

36,240 lbs

45,300 lbs

54,360 lbs

60,000 lbs

9/16" - SPIN RESISTANT (5:1 S.F.) 45,300-lbs. BREAKING STRENGTH

CRANE MEETS ASME B30.5 REQUIREMENTS AT TIME OF MANUFACTURE

DO NOT PAINT OVER ANY LABELS

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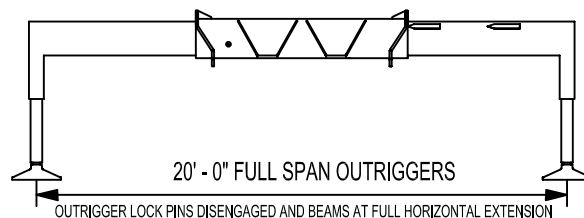
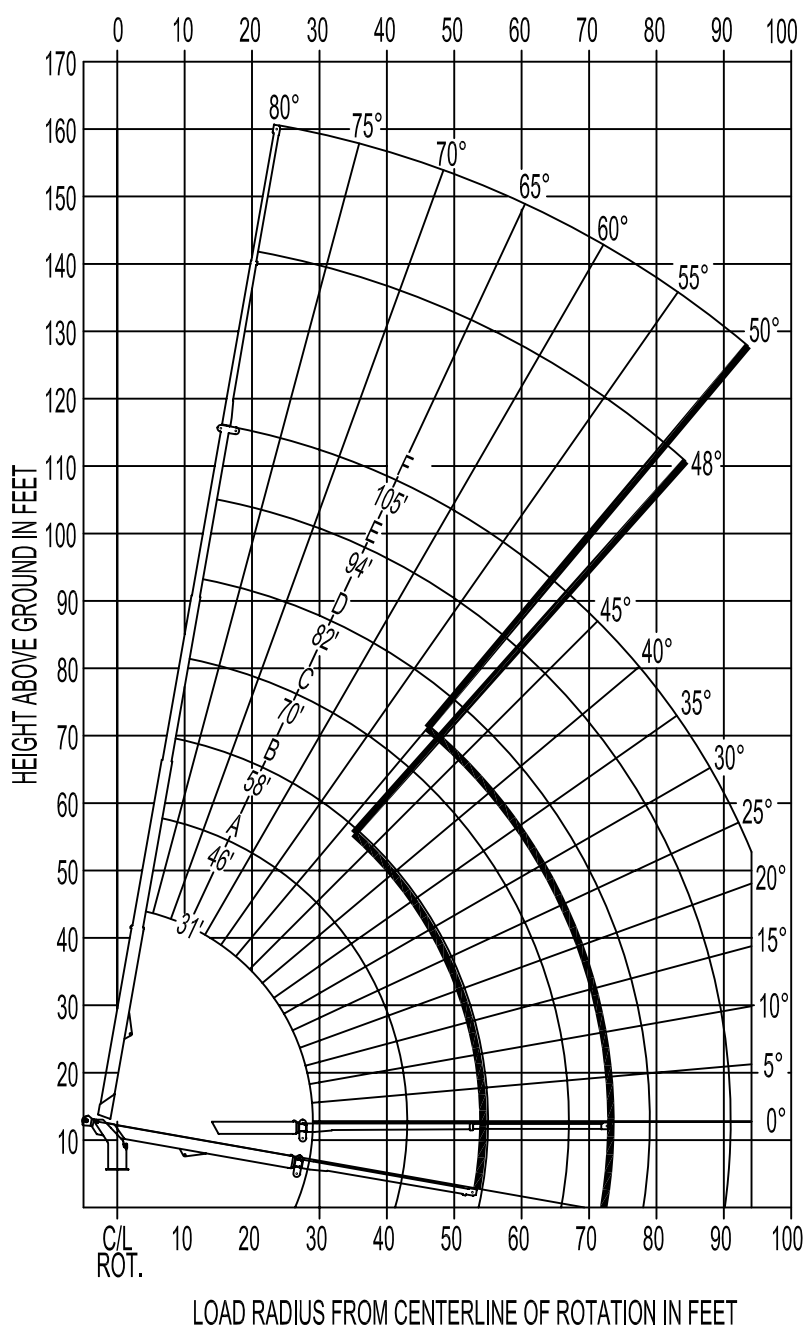


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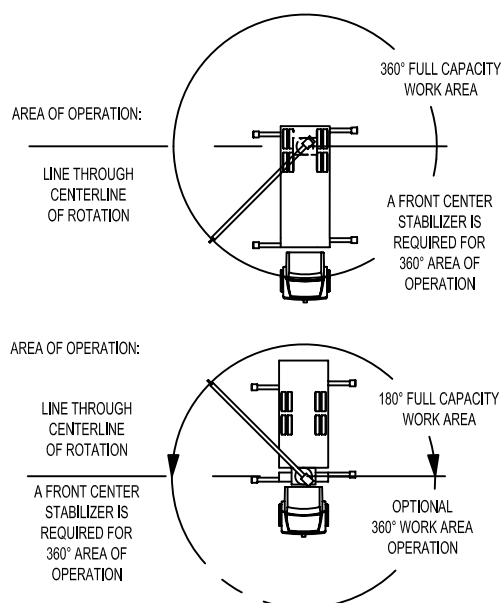
MODEL 3000 105-ft BOOM

RANGE DIAGRAM WITH FULL SPAN OUTRIGGERS



NOTE:

1. Operate jib by radius when main boom is full extended. Increase boom angle if necessary to maintain load radius.
2. When boom is retracted, operate jib by boom angles. Do not exceed any rated jib capacities at reduced boom lengths.
3. Capacities do not exceed 85% stability.
4. Load ratings above bold line are structurally limited.
5. Personnel handling is allowed only with full span outriggers.
6. Boom load ratings are based on loaded boom radius. Loaded boom angles are given as reference only.





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EQUIPMENT COMPANY

MODEL 3000

105-ft BOOM

MAIN BOOM LOAD RATINGS WITH OUTRIGGERS AT MID-SPAN POSITION

MAIN BOOM LOAD RATINGS

LOAD RATINGS IN lbs WITH OUTRIGGERS AND STABILIZERS EXTENDED

LOAD RADIUS IN FEET	LOADED BOOM ANGLE	31-ft	LOADED BOOM ANGLE	A 46-ft	LOADED BOOM ANGLE	B 58-ft	LOADED BOOM ANGLE	C 70-ft	LOADED BOOM ANGLE	D 82-ft	LOADED BOOM ANGLE	E 94-ft	LOADED BOOM ANGLE	F 105-ft
5	80	60,000												
6	78	48,000												
8	74.2	38,600	79.2	32,000										
10	70.3	32,000	76.6	28,000										
12	66.2	27,500	74	26,000	77.4	25,300								
14	62	21,300	71.3	24,000	75.4	23,700	78	21,700						
16	57.6	19,500	68.6	20,000	73.3	20,000	76.3	20,400	78.3	17,500				
18	52.9	15,800	65.8	15,800	71.1	16,600	74.5	16,300	76.9	16,600	78.6	15,000		
20	48.9	12,200	62.9	13,000	69	13,300	72.8	13,400	75.4	13,900	77.3	13,600		
22	42.3	9,500	60	10,500	66.8	11,000	71	11,000	74	11,200	76.1	11,000	78	8,400
25	33.8	7,800	55.3	8,200	63.5	8,300	68.7	8,750	72	8,800	74.2	9,000	76.1	8,400
30			46.9	5,900	58.1	6,100	64.2	6,150	68.3	6,200	71.2	6,400	73.2	6,500
35			37.8	4,000	51.8	4,300	59.4	4,350	64.4	4,400	67.9	4,600	70.3	4,700
40			24.3	2,800	44.9	3,100	54.4	3,150	60.3	3,200	64.5	3,300	67.4	3,400
45					36.9	2,200	49	2,250	56.1	2,300	61	2,400	64.3	2,500
50					26.7	1,450	43.1	1,550	51.7	1,600	57.4	1,700	61.2	1,800
55							36.3	1,000	46.9	1,050	53.6	1,150	58	1,200
60									41.7	650	49.6	700	54.6	750
	0	5,200	0	2,200	0	650								
DEDUCTIONS FOR STOWED JIB (lbs)		850		600		450		400		350		300		250
		550		350		300		250		200		150		150

JIB LOAD RATINGS

LOAD RATINGS IN lbs WITH OUTRIGGERS AND STABILIZERS EXTENDED

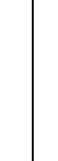
LOAD RADIUS IN FEET	LOADED BOOM ANGLE	26-ft FIXED LENGTH JIB		26-45 ft EXTENDABLE JIB		
		26-ft JIB	LOADED BOOM ANGLE	26-ft JIB RETRACTED	LOADED BOOM ANGLE	45-ft JIB EXTENDED
30	78.7	4,750	78.5	4,500		
35	76.5	4,350	76.3	4,100	77.4	2,600
40	74.3	3,950	74.1	3,600	75.4	2,500
45	72	2,950	71.7	2,700	74	2,400
50	69.5	2,200	69.3	1,900	72.2	2,250
55	67.1	1,550	66.8	1,300	70.3	2,000
60	64.6	1,050	64.3	800	68.3	1,450
65					66.2	1,050
70					64.2	750

NOTICE

- DO NOT DEADHEAD LINE BLOCK AGAINST BOOM TIP WHEN EXTENDING BOOM.
- KEEP AT LEAST 5 WRAPS OF LOADLINE ON THE WINCH DRUM AT ALL TIMES.
- USE ONLY 9/16" DIAMETER WIRE ROPE, AS SPECIFIED BELOW, WITH THE PROPER BREAKING STRENGTHS LISTED.
- ANTI-TWO-BLOCK SYSTEM MUST BE IN GOOD OPERATING CONDITION BEFORE OPERATING CRANE. SEE OPERATION & SAFETY MANUAL.

DEDUCTIONS FOR STOWED EXTENDABLE JIB (lbs)

DEDUCTIONS FOR STOWED FIXED LENGTH JIB (lbs)

1-PART LINE	2-PART LINE	3-PART LINE	4-PART LINE	5-PART LINE	6-PART LINE	7-PART LINE	ELLIOTT EQUIPMENT CO. SUPPLIED LOADLINE EQUIPMENT DEDUCTIONS:
							
MAX PULL: 9,060 lbs	18,120 lbs	27,180 lbs	36,240 lbs	45,300 lbs	54,360 lbs	60,000 lbs	DOWNHAUL WEIGHT180 lbs ONE SHEAVE BLOCK.....375 lbs TWO SHEAVE BLOCK.....640 lbs THREE SHEAVE BLOCK.....870 lbs AUXILIARY SHEAVE.....100 lbs



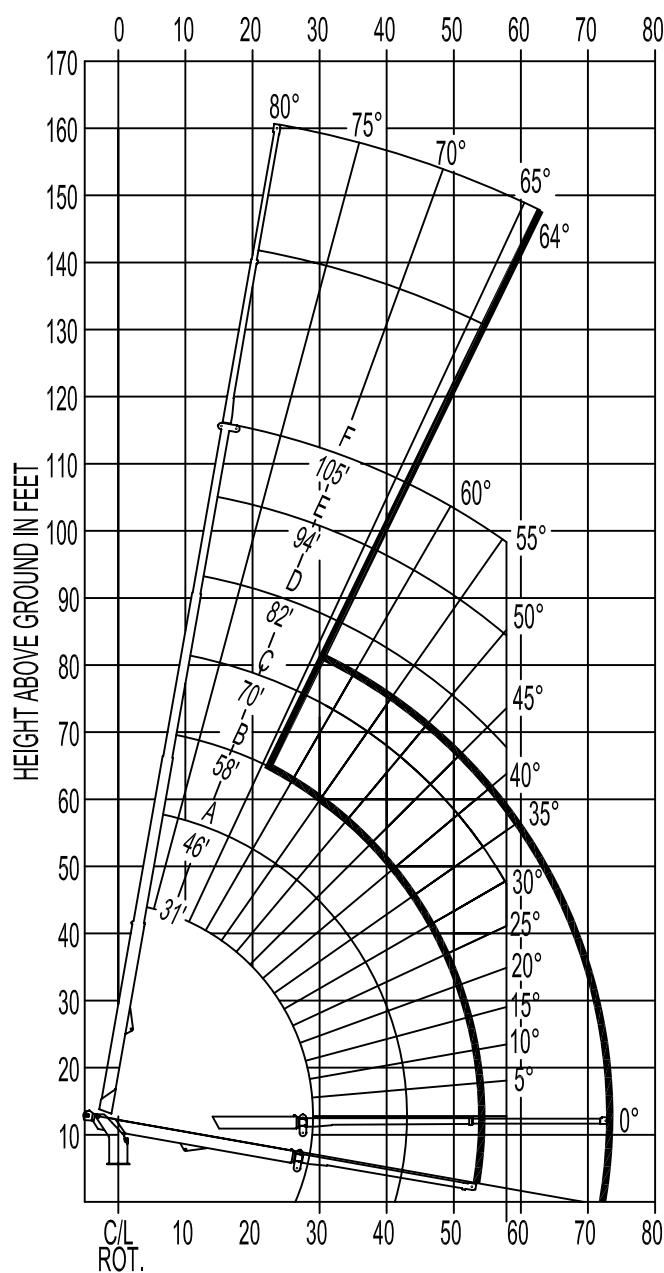
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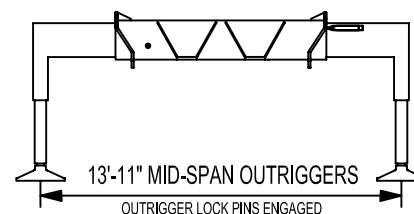
MODEL 3000

105-ft BOOM

RANGE DIAGRAM WITH OUTRIGGERS AT MID-SPAN POSITION



LOAD RADIUS FROM CENTERLINE OF ROTATION IN FEET



NOTE:

1. Operate jib by radius when main boom is full extended.
Increase boom angle if necessary to maintain load radius.
2. When boom is retracted, operate jib by boom angles.
Do not exceed any rated jib capacities at reduced boom lengths.
3. Capacities do not exceed stability based on ISO 4305-1991.
4. Load ratings above bold line are structurally limited.
5. Personnel handling is allowed only with full span outriggers.
6. Boom load ratings are based on loaded boom radius.
Loaded boom angles are given as reference only.

