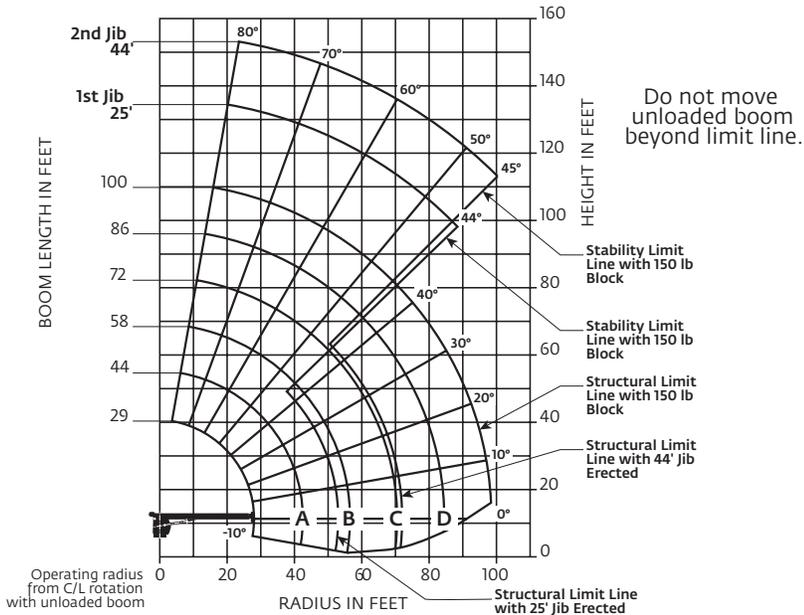


# Capacities

## 13100A: 100 ft boom, with 25 ft - 44 ft jib, full span outriggers

Other Series 1300A Load Rating Charts are available. National Crane will send you a chart on request – or you may secure needed load rating information through your nearest National Crane dealer.



### CAUTION:

- Do not operate crane booms, jib extensions, any accessories or loads within 3 m (10 ft) of live power lines or other conductors of electricity.
- Jib and boom capacities shown are maximum for each section.
- Do not exceed capacities at reduced radii.
- Load ratings shown on the appropriate charts are maximum allowable loads with the crane mounted on a factory-approved truck and all outriggers at either full span or at mid span range and set on a firm level surface so that the crane is level and all tires are suspended.
- Always level the crane with the level indicator located on the crane.
- The operator must reduce load to allow for factors such as wind, ground conditions, operating speeds and their effects on freely suspended loads.
- Overloading this crane may cause structural collapse or instability.
- Weights on any accessories attached to the boom or load line must be deducted from the load chart capacities.
- Do not exceed jib capabilities at any reduced boom lengths.
- Do not deadhead line block against boom tip when extending boom or winching up.
- Keep at least three wraps of load line on drum at all times.
- Use only specified cable with this machine.

### NOTE:

1. Operate with jib by radius when main boom is fully extended. If necessary increase boom angle to maintain loaded radius.
2. Operate with jib by boom angle when main boom is not fully extended. Do not exceed rated jib capacities at any reduced boom lengths.

BOOM LENGTH (ft)	25 - 44 ft JIB STOWED
29	Reduce load 800 lb
44	Reduce load 600 lb
58	Reduce load 450 lb
72	Reduce load 350 lb
86	Reduce load 300 lb
100	Reduce load 250 lb

### RATED LOAD REDUCTIONS WITH STOWED JIB

Note:

1. All capacities are in pounds, angles in degrees, and radii in feet.
  2. Loaded boom angles are given as reference only.
  3. Shaded areas are structurally limited capacities.
  4. Handling of personnel is only permitted with full span extension of all outrigger and stabilizer beams.
- \*5. See owners manuals. The 60,000 lb load requires optional 9/16" diameter 6x25 IWRC cable.

## Load chart

### 29 ft - 100 ft (8,83 m - 30,48 m) BOOM RATED LOADS WITHOUT JIB

LOADED RADIUS (ft)	LOADED BOOM ANGLE (deg)	29 ft BOOM (lb)	LOADED BOOM ANGLE (deg)	A 44 ft BOOM (lb)	LOADED BOOM ANGLE (deg)	B 58 ft BOOM (lb)	LOADED BOOM ANGLE (deg)	C 72 ft BOOM (lb)	LOADED BOOM ANGLE (deg)	D 86 ft BOOM (lb)	LOADED BOOM ANGLE (deg)	100 ft BOOM (lb)
5	79.5	60,000										
8	73	44,000	79	29,100								
10	68.5	36,900	76.5	29,000								
12	65	31,900	74	28,600	78.5	28,600						
15	57	26,400	69.5	24,600	75.5	23,500	79.5	22,900				
20	46	20,100	62.5	19,000	70.5	18,050	75.5	17,450	78.5	16,300	80	10,650
25	29	14,800	55	15,350	65	14,600	71	14,050	75.5	13,700	77.5	10,450
30			46.5	12,300	59	12,150	66.5	11,700	71.5	11,350	75	10,000
35			36	9700	53	10,000	62	9900	68	9600	72	9400
40			22	7700	46	8050	57.5	8300	64	8250	69	8050
45					38.5	6500	52.5	6700	60	6900	66	7000
50					29	5200	47	5450	56	5600	62	5750
55					15	4200	40.5	4400	52	4600	59	4700
60							33.5	3600	47.5	3800	55.5	3900
65							24.5	2950	42	3100	51.5	3250
70							10	2100	36.5	2550	47.5	2700
75									29.5	2100	43	2200
80									21	1650	38.5	1800
85											33	1450
90											26.5	1100
95											17.5	750
100												
0		7900	0	4100	0	2250	0	1100				

25 TO 44 ft JIB RATED LOADS				
LOADED RADIUS (ft)	LOADED BOOM ANGLE (deg)	25 ft JIB (lb)	LOADED BOOM ANGLE (deg)	44 ft JIB (lb)
30	78	5100		
35	76	5100	78	2800
40	75	4950	76	2650
45	71	4450	74	2600
50	69	4150	72	2500
55	67	3850	70.5	2500
60	64	3550	68.5	2350
65	62	3200	66.5	2250
70	59	2500	64.5	2150
75	56	2100	62	2050
80	52.5	1650	59.5	1950
85	49.5	1250	57.5	1650
90	45	900	55	1400
95	42	550	52.5	1100
100			48.5	850
105			45.5	600
110				

\*Shaded areas are structurally limited capacities.

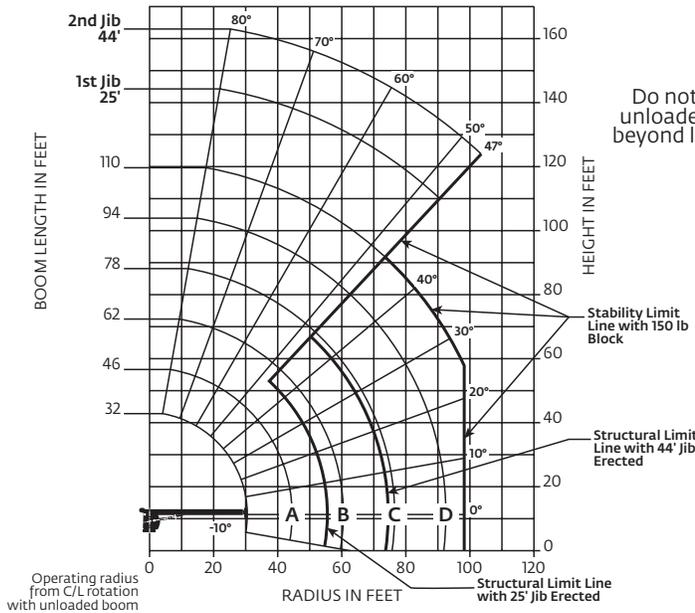
THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.

The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

# Capacities

## 13110A: 110 ft boom, with 25 ft - 44 ft jib, full span outriggers

Other Series 1300A Load Rating Charts are available. National Crane will send you a chart on request – or you may secure needed load rating information through your nearest National Crane dealer.



### CAUTION:

- Do not operate crane booms, jib extensions, any accessories or loads within 3 m (10 ft) of live power lines or other conductors of electricity.
- Jib and boom capacities shown are maximum for each section.
- Do not exceed capacities at reduced radii.
- Load ratings shown on the appropriate charts are maximum allowable loads with the crane mounted on a factory-approved truck and all outriggers at either full span or at mid span range and set on a firm level surface so that the crane is level and all tires are suspended.
- Always level the crane with the level indicator located on the crane.
- The operator must reduce load to allow for factors such as wind, ground conditions, operating speeds and their effects on freely suspended loads.
- Overloading this crane may cause structural collapse or instability.
- Weights on any accessories attached to the boom or load line must be deducted from the load chart capacities.
- Do not exceed jib capabilities at any reduced boom lengths.
- Do not deadhead line block against boom tip when extending boom or winching up.
- Keep at least three wraps of load line on drum at all times.
- Use only specified cable with this machine.

### NOTE:

1. Operate with jib by radius when main boom is fully extended. If necessary increase boom angle to maintain loaded radius.
2. Operate with jib by boom angle when main boom is not fully extended. Do not exceed rated jib capacities at any reduced boom lengths.

BOOM LENGTH (ft)	25 - 44 ft JIB STOWED
32	Reduce load 800 lb
46	Reduce load 600 lb
62	Reduce load 450 lb
78	Reduce load 350 lb
94	Reduce load 300 lb
110	Reduce load 250 lb

### Note:

1. All capacities are in pounds, angles in degrees, and radii in feet.
2. Loaded boom angles are given as reference only.
3. Shaded areas are structurally limited capacities.
4. Handling of personnel is only permitted with full span extension of all outrigger and stabilizer beams.
- \*5. See owners manuals. The 60,000 lb load requires optional 9/16" diameter 6x25 IWRC cable.

## Load chart

32 ft - 110 ft BOOM RATED LOADS WITHOUT JIB

LOADED RADIUS (ft)	LOADED BOOM ANGLE (deg)	32 ft BOOM (ft)	LOADED BOOM ANGLE (deg)	A 46 ft BOOM (ft)	LOADED BOOM ANGLE (deg)	B 62 ft BOOM (ft)	LOADED BOOM ANGLE (deg)	C 78 ft BOOM (ft)	LOADED BOOM ANGLE (deg)	D 94 ft BOOM (ft)	LOADED BOOM ANGLE (deg)	110 ft BOOM (ft)	
5	78.5	*60,000											
8	74.5	43,000											
10	70.5	35,900	77.5	29,100									
12	66.5	30,900	75	28,900									
15	60	25,500	71	24,000	77	23,000							
20	48.5	19,450	63.5	18,450	72	17,550	77	17,000					
25	34	14,900	56	14,800	67	14,100	73	13,600	77.5	13,300			
30			48	12,150	61.5	11,650	69	11,200	74	10,950	77	7950	
35			38.5	9600	56	9850	64.5	9450	70.5	9200	74	6300	
40			27	7600	49.5	7950	60.5	8100	67	7850	71.5	5950	
45					43.5	6350	56	6600	64	6800	69	5700	
50					36	5100	51.5	5350	60	5550	66	5400	
55					26	4050	46	4300	56	4550	63	4750	
60					8.5	2650	40	3500	52	3700	59.5	3900	
65								33.5	2850	48	3000	56	3200
70								25.5	2250	43	2450	52.5	2600
75								13	1750	38	1950	49	2100
80									32	1500	45	1650	
85									25	1100	41	1250	
90									15	750	36	900	
95											31	600	
100													
	0	6300	0	3250	0	1450	0						

25 - 44 ft JIB RATED LOADS				
LOADED RADIUS (ft)	LOADED BOOM ANGLE (deg)	25 ft JIB (ft)	LOADED BOOM ANGLE (deg)	44 ft JIB (ft)
35	76.5	4200		
40	75	4100	76.5	2500
45	73	4000	75.5	2500
50	71	3850	74	2500
55	69	3600	72.5	2500
60	66.5	3300	70.5	2350
65	64	3050	68.5	2250
70	61.5	2500	66.5	2150
75	59	2000	64.5	2050
80	56	1550	62	1900
85	53.5	1100	60	1800
90	50.5	700	57	1400
95			54.5	1050
100			51.5	650
105				

\*Shaded areas are structurally limited capacities.

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.