BOOM TRUCK 36 TONS NATIONAL SERIES 1500

BOOM LENGTHS: 31FT TO 127FT JIB LENGTHS: 31FT JIB OFFSETS: 0







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features

Why Buy a National Crane Series 1500?

- 36 USt (32.66 t) Rating The 1500 provides a 36 USt (32.66t) capacity at a 6 ft (1.82 m) radius, a 9% increase over the Series 1400.
- 127 ft (38.71 m) Five-section Boom The long boom allows the operator to perform more lifts without the use of a jib, reducing setup time and improving efficiency.
- Overload Protection All National Crane boom trucks are equipped with overload protection: – Load Moment Indicator (LMI) standard on all Series 1500 machines.
 - LMI display and CPU are weatherproof.
 - LCD display is visible in full or low light.
 - All crane load lifting values are displayed simultaneously.
- Stronger Torsion Box The stronger standard torsion box improves rigidity, reduces truck frame flex and reduces the need for counterweight.
- Speedy-reeve Boom Tip and Sheave Blocks These standard features simplify rigging changes by decreasing the time needed to change line reeving.
- Pre-painted Components Painting crane components before assembly reduces the possibility of rust, improves serviceability and enhances the appearance of the machine.
- Easy Glide Boom Wear Pads Reduce the conditions that cause boom chatter and vibration. The net result is smoother crane operation.
- Deluxe Operator's Cab Rigid galvanized steel structure, well insulated, with ample safety glass for operator visibility and comfort. Multi-position seat with arm rest controls, ventilation fans, diesel heater, wipers. Optional air-conditioning is available.
- Outrigger Outrigger span of 24.7 ft (7.53 m) when fully extended; 17.5 ft (5.33 m) at midspan.
 - Ground-level outrigger controls on both sides.
 - In-cab outrigger controls for all functions.
 - Front bumper stabilizer for stable base over front.
- Improved Ser viceability -
 - Boom sections are supported by one hydraulic extend cylinder, minimizing maintenance.
 - Bearings on the boom extend and retract cables can be greased through access holes in the boom side plates.
 - Pre-paint reduces rust.
- Electronic versions of manuals available through Manitowoc Crane Care.
- New State-of-the-art Control V alve Provides smoother operation. The new load-sensing, pressure-compensated design greatly enhances function meterability, eliminates parts, reduces repair costs and improves the machine's serviceability.
- National Crane Is the Market Leader National Crane is number one in the production of commercial truck-mounted boom trucks, with more than 35,000 units sold. National Crane has many programs and people directly and indirectly involved to provide our customers with reliable products.
- National Crane has the boom truck industry's leading test program. Every structural part of the crane is cycle tested, some up to 60,000 cycles at full capacity. In addition to cycle testing, each model is subjected to state-of-the-art strain gauge testing that measures metal deformation as small as one one-millionth of an inch. The net result is that weak areas are caught in test, not on job sites where costly downtime occurs.
- · Parts are available for all National Crane machines for the life of the crane.
- · National Crane has a formalized quality program and is ISO 9001 approved.

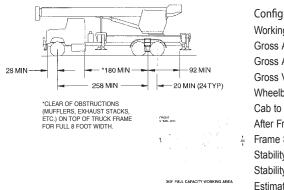


36 USt (32.66 t) maximum capacity

- 166 ft (50.60 m) maximum vertical reach*
- 135 ft (41.15 m) maximum vertical hydraulic reach*
- Load Moment Indicator system (LMI)
- · Proportional boom extension
- High performance planetary winch
- Vickers PVH 131 pressure compensated, load sensing, axial piston, variable volume pump direct mounts to PTO
- Maximum vertical reach is ground-level to boom tip height at maximum extension and angle with outriggers/stabilizers fully extended.

mounting configurations

The configurations are based on the Series 1500 with an 85% stability factor. The complete unit must be installed in accordance with factory requirements and a test performed to determine actual stability and counterweight requirements since individual truck chassis vary.



Configuration 1 – 1500	
Working area	
Gross Axle Weight Rating Front	20,000 lb (9072 kg)*
Gross Axle Weight Rating Rear	34,000 lb (15 422 kg)*
Gross Vehicle Weight Rating	54,000 lb (24 494 kg)*
Wheelbase	258 in (655 cm)
Cab to Axle/trunnion (CA/CT)	180 in (457 cm)
After Frame (AF)	92 in (2.44 m) minimum
Frame Section Modulus (SM), front axle to end of afterframe, w/110,000 PS	SI (758 MPa)30 in ³ (492 cm ³)
Stability Weight, Front	9,700 lb (4410 kg) minimum**
Stability Weight, Rear	8,500 lb (3865 kg) minimum**
Estimated Average Final Weight	51,880 lb (23 587 kg)***

The diagram shows the 360° working area achieved with the front stabilizer (standard on the Series 1500). The front stabilizer is required when extending the boom and lifting loads over the front of the truck. A minimum of 10-in³ (104 cm³) section modulus at 110,000 psi (758 MPa) is required from the rear of the front spring hanger forward to the front stabilizer. Integral front frame extension requested.

*Required to mount basic crane with 30 ft (9.45 m) jib option. Additional options or heavier base chassis weights will require additional axles or a GVWR in excess of 54,000 lb (24 494 kg); in some states, special permits for overload are required.

••Estimated axle scale weights prior to installation of crane, stabilizers and subbase for 85% stability.

***Includes basic crane without jib, 100 gal (379 L) fuel tank and two workers in cab.

Note: Chassis will require extended front frame rails for SFO addition.

MINIMUM TRUCK REQUIREMENTS

Many factors must be considered in the selection of proper truck for a 1500 series crane. Items which must be considered are:

- 1. Axle Rating. Axle ratings are determined by the axles, tires, rims, springs, brakes, steering and frame strength of the truck. If any one of these components is below the required rating, the gross axle rating is reduced to its weakest component value.
- 2. Wheelbase (WB), Cab-to-Trunnion (CT) and Bare Chassis Weight. The wheelbase, CT and chassis weights shown are required so the basic 1500 can be legally driven in most states and meet stability requirements. The dimensions given assume the sub-base is installed properly behind the truck cab. If exhaust stacks, transmission protrusions, etc., do not allow a close installation to the cab, the WB and CT dimensions must be increased. Refer to the Mounting Configuration pages for additional information.
- Truck Frame. Try to select a truck frame that will minimize or eliminate frame reinforcement or extension of the after frame (AF). Many frames are available that have the necessary

after frame (AF) section modulus (S.M.) and resistance to bending moment (RBM) so that reinforcing is not required. The front hydraulic jack is used for a 360° working range around the truck. The frame under the cab through the front suspension must have the minimum S.M. and RBM because reinforcing through the front suspension is often difficult because of engine, radiator mounts and steering mechanics. See "Truck Requirements" and "Frame Strength" information above for the necessary section modulus and resistance to bending moment values.

- 4. Additional Equipment. In addition to the axle ratings, wheelbase, cab-to-axle requirements and frame, it is recommended that the truck is equipped with electronic engine control, increased cooling and a transmission with a PTO opening available with an extra heavy duty PTO. A conventional cab truck should be used for standard crane mounts.
- 5. Neutral Start Switch. The chassis must be equipped with a switch that prevents operation of the engine starter when the transmission is in gear.



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specifications

Boom and Jib Combinations Data

Available in three basic models: 1579 four-section, 15103 four-section and 15127 five-section.

Model 1579 – Equipped with a 31-79 ft (9.45-24.08 m) four-section boom. Maximum tip height is 87 ft (25.52 m).

31 - 79 ft (9.45-24.08 m) four-section boom

Model 15103 – Equipped with a 31-103 ft (9.45-31.40 m) four-section boom. This model can be equipped with a 31 ft (9.45 m) single section side-stowing jib providing a maximum tip height of 142 ft (43.29 m), or a 31-55 ft (9.45-16.76 m) side-stowing folding jib, providing a vertical reach of 166 ft (50.60 m). Contact factory for information on angling jib.

31 - 103 ft (9.45-31.40 m) four-section hydraulic boom

31 - 103 ft (9.45-31.40 m) four-section hydraulic boom 15FJ31 31 ft (9.45 m) single-section jib 31 - 103 ft (9.45-31.40 m) four-section hydraulic boom 15FJ55M 31-55 ft (9.45-16.76 m) single-section jib

Model 15127 – Equipped with a 31-127 ft (9.45-38.72 m) five-section hydraulic boom. This model can be equipped with a 31 ft (9.45 m) single-section side-stowing jib. Maximum tip height w/31 ft (9.45 m) jib is 166 ft (50.60 m).

31 - 127 ft (9.45-38.72 m) five-section hydraulic boom

31 - 127 ft (9.45-38.72 m) five-section hydraulic boom 15FJ31 31 ft (9.45 m) single-section manual jib

Note: maximum tip height is measur ed with outriggers/stabilizers fully extended.

1500 Winch Data

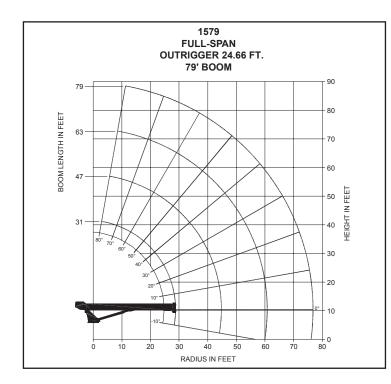
All winch p			1 Part Line	2 Part Line	3 Part Line	4 Part Line	5 Part Line	6 Part Line	7 Part Line	8 Part Line
 shown on the fifth layer. Winch line pulls would increase on the first, second, third and fourth layers. Winch line speed would decrease on the first, second, third and fourth layers. Winch line pulls may be limited by the winch capacity or the ANSI 5 to 1 cable safety factor. 		and the second	Contraction of the second	6. The second of the	and the second	Car and a		Carlo and Del	A A A A A A A A A A A A A A A A A A A	
Winch	Cable Supplied	Average Breaking Srength	Lift and Speed							
Standard Planetary Winch Low Speed	5/8 in diameter rotation resistant 18 x 19 IWRC	45,400 lb (20593 kg)	9,000 lb (4082 kg) 205 fpm (62 m/m)	18,000 lb (8165 kg) 103 fpm (31 m/m)	27,000 lb (12247 kg) 68 fpm (21 m/m)	36,000 lb (16329 kg) 51 fpm (16 m/m)	45,000 lb (20412 kg) 41 fpm (12 m/m)	54,000 lb (24494 kg) 34 fpm (10 m/m)	63,000 lb (28577 kg) 29 fpm (8 m/m)	72,000 lb (32659 kg) 26 fpm (7 m/m)
Standard Planetary Winch High Speed	Planetary Winch High data shown above		4,500 lb (2041 kg) 410 fpm (124 m/m)	9,000 lb (4082 kg) 205 fpm (62 m/m)	13,500 lb (6123 kg) 137 fpm (42 m/m)	18,000 lb (8165 kg) 103 fpm (31 m/m)	22,500 lb (10206 kg) 82 fpm (25 m/m)	27,000 lb (12247 kg) 68 fpm (21 m/m)	31,500 lb (14288 kg) 59 fpm (18 m/m)	36,000 lb (16329 kg) 51 fpm (16 m/m)
Winch				Allowable	Cohio Dull			•		

Winch Standard planetary & Auxiliary planetary Full Drum Pull 4,500 lb (high speed) 9,000 lb (low speed) Allowable Cable Pull 9,080 lb



Load Rating Chart: Series 1579 (24.08 m) Boom/Fullspan Outrigger 24.66 ft (7.51m)

National Crane will send you a chart on request - or you may secure needed load rating information through your nearest National Crane dealer.



SERIES 1579 (24.08 M)

BOOM/MIDSPAN

OUTRIGGER 24.66 FT

(7.51 M)

CAUTION:

- Do not operate crane booms, jib extensions, any accessories or loads within 10 ft (3m) 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 load rating charts are maximum allowable loads with the outriggers properly extended on a firm, level surface and the crane leveled and mounted on a factory recommended truck.
- 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 loadline must be deducted from the load chart capacities.
- Do not exceed jib capabilities at any reduced boom lengths.
- Do not deadhead lineblock against boom tip when extending boom or winching up.

LOADED

63 FT

LOADED

79 FT

- Keep at least three wraps of loadline on drum at all times.
- Use only specified cable with this machine.

31 TO 79 FOOT BOOM RATED LOADS

47 FT

Load Rating Chart: Series 1579 (24.08 m) Boom/Fullspan Outrigger 24.66 ft (7.51m)

LOAD

LOADED

31 FT

LOADED

RADIUS BOOM BOOM BOOM BOOM BOOM BOOM BOOM воом ANGLE (FEET) ANGLE (lb) ANGLE (lb) (lb) ANGLE (lb) 6 75 72 000 71.5 64,000 77.5 45,000 8 10 67 55,000 75.5 44,100 72.5 62.5 48,000 39,700 77.5 35.200 12 39,500 34,300 75 30,800 26,000 15 56 69.5 78.5 20 43.5 30,800 62.5 27,900 70 25,400 75 22,300 25 27 23,700 55.5 23,800 65 21,400 71 19,100 47 30 18,000 60 18,300 67 16,500 35 38.5 14,100 54.5 14,300 63 14,500 40 26.5 11,400 48.5 11,600 59 11,700 45 41.5 9,600 54.5 9,750 34.5 8,100 50 8,200 50 55 25 6,800 45 6,950 5,700 5,800 60 9 39 65 33 4,900 25 4,150 70 75 13 3,500 0 17,500 0 9.550 0 5,500 0 3,300

NOTE: 1. All capacities are in pounds, angles in degrees, radius in feet. Loaded boom angles are given as reference only
 Shaded areas are structurally limited capacities.

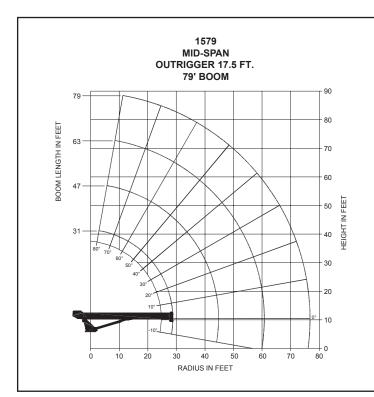


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Load Rating Chart: Series 1579 (24.08 m) Boom/Midspan Outrigger 17.5 ft (5.33 m)

National Crane will send you a chart on request – or you may secure needed load rating information through your nearest National Crane dealer.



CAUTION:

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- · Do not exceed capacities at reduced radii.
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- 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 loadline must be deducted from the load chart capacities.
- Do not exceed jib capabilities at any reduced boom lengths.
- Do not deadhead lineblock against boom tip when
- extending boom or winching up.Keep at least three wraps of loadline on drum at all times.
- Use only specified cable with this machine.

Load Rating Chart: Series 1579 (24.08 m) Boom/Midspan Outrigger 17.5 ft (5.33 m)

SERIES 1579 (24.08 M) BOOM/MID-SPAN OUTRIGGER 17.5 FT (5.33 M)

LOAD RADIUS (FEET)	LOADED BOOM ANGLE	31 ft BOOM (Ib)	LOADED BOOM ANGLE	47 ft BOOM (Ib)	LOADED BOOM ANGLE	63 ft BOOM (Ib)	LOADED BOOM ANGLE	79 ft BOOM (lb)
6	75	72,000						
8	71.5	64,000	77.5	45,000				
10	67	55,000	75.5	44,100				
12	62.5	48,000	72.5	39,700	77.5	35,200		
15	56	39,500	69.5	34,300	75	30,800	78.5	26,000
20	43.5	22,100	62.5	22,700	70	23,200	75	22,300
25	27	14,100	55	14,500	64.5	14,800	71	15,000
30			47	10,200	59.5	10,400	66.5	10,600
35			38	7,500	54	7,700	63	7,850
40			25.5	5,700	48	5,900	58.5	6,000
45					41.5	4,550	54	4,650
50					34	3,550	49.5	3,650
55					24.5	2,750	44	2,850
60					8.5	2,100	38.5	2,200
65							32	1,650
70							24.5	1,200
75							12	800
	0	10,700	0	4,450	0	2,000	0	700
		NOTE						

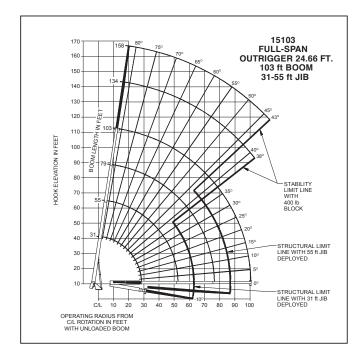
NOTE:

All capacities are in pounds, angles in degrees, radius in feet
 Loaded boom angles are given as reference only.
 Shaded areas are structurally limited capacities.



Load Rating Chart: Series 15103 (16.76 m) Boom with 31-55 ft (9.45-16.76 m) Jib/Fullspan Outrigger 24.66 ft (7.51 m)

National Crane will send you a chart on request - or you may secure needed load rating information through your nearest National Crane dealer.



CAUTION:

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- Jib and boom capacities shown are maximum for each section.
- Do not exceed capacities at reduced radii.
- Load ratings shown on the load rating charts are maximum allowable loads with the outriggers properly extended on a firm, level surface and the crane leveled and mounted on a factory recommended truck.
- 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 loadline must be deducted from the load chart capacities.
- Do not exceed jib capabilities at any reduced boom lengths.
- Do not deadhead lineblock against boom tip when extending boom or winching up.
- Keep at least three wraps of loadline on drum at all times.
- Use only specified cable with this machine.

Load Rating Chart: Series 15103 (16.76 m) Boom with 31-55 ft (9.45-16.76 m) Jib/Fullspan Outrigger 24.66 ft (7.51 m)

SERIES 15103 (24.08 M) BOOM WITH 31-55 FT (9.45-16.76 M) JIB/FULLSPAN OUTRIGGER 24.66 FT (7.51 M)

RADIUS BO	DADED				R	ATED LC	DADS				
	NGLE	31 ft BOOM (lb)	LOADED BOOM ANGLE	55 ft BOOM (lb)	LOADED BOOM ANGLE	79 ft BOOM (lb)	LOADED BOOM ANGLE	103 ft BOOM (lb)	RADIUS FULLY EXTENDED	LOADED BOOM ANGLE	RATED LOADS ALL BOOM LENGTHS
6 7	75.7	72,000							24	80	8,500
-	71.6	64,000							37	75	7,500
10 6	67.5	55,000	78.6	42,000					48	70	6,400
12 6	63.3	48,000	76.4	37,000					59	65	5,100
15 5	56.6	39,500	73.1	32,000	79.2	26,000			69	60	3,900
20 4	44	30,500	67.5	25,500	75.4	21,000	79.6	15,000	78	55	2,800
25 2	27.3	23,000	61.5	21,000	71.6	17,500	76.8	13,500	87	50	1,900
30			55.2	18,000	67.7	15,200	74	12,000	95	45	1,250
35			48.3	14,300	63.7	13,400	71.1	11,000	102	40	750
40			40.5	11,400	59.5	11,600	68.1	10,000			
45			31.1	9,300	54.9	9,500	65.2	9,000			
50			18.7	7,700	50.3	8,000	62	8,000		55 ft JII	- 1
55					45.2	6,500	58.6	6,700	R	ATED LC	DADS
60					39.5	5,300	55	5,500	RADIUS FULLY	LOADED BOOM	RATED LOADS ALL BOOM
65					33	4,400	51.3	4,550	EXTENDED	ANGLE	LENGTHS
70					25	3,600	47.4	3,750	29	80	4,000
75					12.7	3,000	43.2	3,050	45	75	3,700
80							38.7	2,500	59	70	3,200
85							33.7	2,050	71	65	2,700
90							27.9	1,600	83	60	2,250
95							20.5	1,250	94	55	1,800
100							7.2	900	104	50	1,300
	0	16,500	0	6,800	0	2,700	0	850	113	45	800

	RATED LOAD REDUCTIONS WITH JIB									
	31-55 ft JIB STOWED	31-55 ft JIB ERECTED AT 31 ft LENGTH								
BOOM LENGTH										
31 ft	Reduce load 800 lb	Reduce load 2,300 lb								
55 ft	Reduce load 450 lb	Reduce load 2,000 lb								
79 ft	Reduce load 350 lb	Reduce load 1,900 lb								
103 ft	Reduce load 250 lb	Reduce load 1,800 lb								

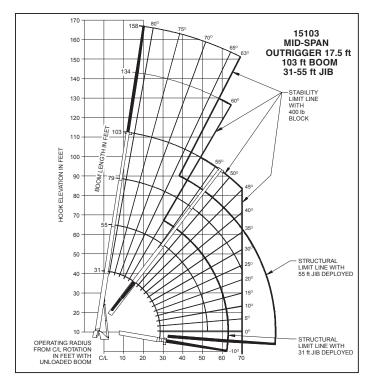
NOTE:



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Load Rating Chart: Series 15103 (16.76 m) Boom with 31-55 ft (9.45-16.76 m) Jib/Midspan Outrigger 17.5 ft (5.33 m)

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 10 ft (3m) 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 load rating charts are maximum allowable loads with the outriggers properly extended on a firm, level surface and the crane leveled and mounted on a factory recommended truck.
- 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 loadline must be deducted from the load chart capacities.
- Do not exceed jib capabilities at any reduced boom lengths.Do not deadhead lineblock against boom tip when
- extending boom or winching up.Keep at least three wraps of loadline on drum at all times.

Use only specified cable with this machine.

Load Rating Chart: Series 15103 (16.76 m) Boom with 31-55 ft (9.45-16.76 m) Jib/Midspan Outrigger 17.5 ft (5.33 m)

SERIES 15103 (24.08 M) BOOM WITH 31-55 FT (9.45-16.76 M) JIB/MID-SPAN OUTRIGGER 17.5 FT (5.33 M)

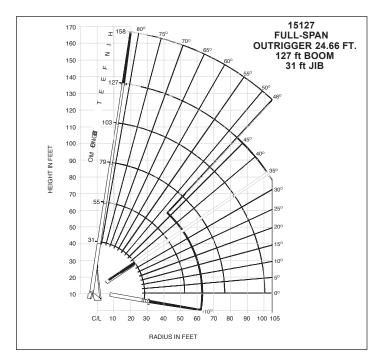
	31	TO 103 ft	BOOM R	ATED LO	DADS WI	гноит ј	IB		R	31 ft JI		
LOAD RADIUS (ft)	LOADED BOOM ANGLE	31 ft BOOM (lb)	LOADED BOOM ANGLE	55 ft BOOM (lb)	LOADED BOOM ANGLE	79 ft BOOM (lb)	LOADED BOOM ANGLE	103 ft BOOM (lb)	RADIUS FULLY EXTENDED	LOADED BOOM ANGLE	RATED LOADS ALL BOOM LENGTHS	
6	75.7	72,000							24	80	8,500	
8	71.6	64,000							36	75	6,900	
10	67.5	55,000	78.6	42,000					46	70	3,750	
12	63.3	48,000	76.4	37,000					56	65	2,000	
15	56.6	39,500	73.1	32,000	79.2	26,000			66	60	850	
20	44	21,300	67.3	22,000	75.4	21,000	79.6	15,000	-			
25	27.4	13,300	61.1	14,000	71.3	14,100	76.8	13,500	_	55 ft JIB		
30			54.7	9,700	67.2	9,800	73.6	9,800		ATED LC	-	
35			48.2	7,100	63.2	7,200	70.6	7,200	RADIUS FULLY	LOADED BOOM	RATED LOADS ALL BOOM	
40			40.5	5,150	58.9	5,350	67.4	5,400	EXTENDED	ANGLE	LENGTHS	
45			31.3	3,800	54.4	4,000	64.2	4,000	31	80	4,000	
50			18.1	2,750	49.6	2,950	60.9	3,000	46	75	3,700	
55					44.5	2,150	57.5	2,150	58	70	2,400	
60					38.8	1,450	54	1,500	69	65	1,250	
65					32.3	950	50.4	1,000				
70					24.2	475	46.5	550				
	0	10,100	0	2,300								

	RATED LOAD REDUCTIONS WITH JIB									
	31-55 ft JIB STOWED	31-55 ft JIB ERECTED AT 31 ft LENGTH								
BOOM LENGTH										
31 ft	Reduce load 800 lb	Reduce load 2,300 lb								
55 ft	Reduce load 450 lb	Reduce load 2,000 lb								
79 ft	Reduce load 350 lb	Reduce load 1,900 lb								
103 ft	Reduce load 250 lb	Reduce load 1,800 lb								



Load Rating Chart: Series 15127 (38.71 m) Boom with 31 ft (9.45 m) Jib/Fullspan Outrigger 24.66 ft (7.51 m)

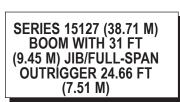
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CAUTION:

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- · Do not exceed capacities at reduced radii.
- Load ratings shown on the load rating charts are maximum allowable loads with the outriggers properly extended on a firm, level surface and the crane leveled and mounted on a factory recommended truck.
- Always level the crane with the level indicator located on the crane.
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- Overloading this crane may cause structural collapse or instability.
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- · Do not exceed jib capabilities at any reduced boom lengths.
- Do not deadhead lineblock against boom tip when extending boom or winching up.
- · Keep at least three wraps of loadline on drum at all times.
- Use only specified cable with this machine.

Load Rating Chart: Series 15127 (38.71 m) Boom with 31 ft (9.45 m) Jib/Fullspan Outrigger 24.66 ft (7.51 m)



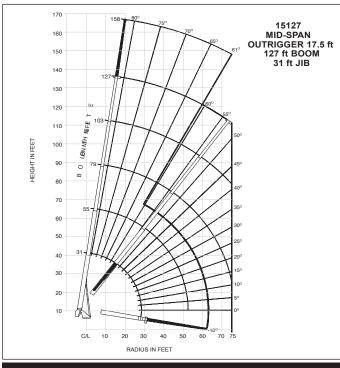
6 8	76.4	(lb)	BOOM ANGLE	BOOM (lb)	LOADED BOOM ANGLE	79 ft BOOM (lb)	LOADED BOOM ANGLE	103 ft BOOM (lb)	LOADED BOOM ANGLE	127 ft BOON (lb)
8	70.4	72,000								
	72.2	63,000								
10	68	54,000								
12	63.7	47,000	76.8	36,000						
15	57	38,500	73.5	31,000	79.5	25,000				
20	44.3	29,500	67.8	24,600	75.8	20,500	79.6	14,000		
25	27.1	22,000	61.8	20,500	71.9	17,000	77	13,000	79.5	8,700
30			55.5	17,400	68	14,700	74.2	11,700	77.5	8,200
35			48.6	14,000	63.9	12,900	71.3	10,600	75.3	7,700
40			40.7	11,000	59.7	11,300	68.4	9,500	73.1	7,200
45			31.3	9,000	55.2	9,400	65.4	8,400	70.8	6,700
50			18.9	7,400	50.6	7,800	62.2	7,600	68.5	6,200
55					45.4	6,500	58.9	6,600	65.9	5,400
60					39.6	5,300	55.3	5,500	63.3	4,800
65					33.1	4,300	51.5	4,500	60.6	4,200
70					25.1	3,500	47.6	3,700	57.8	3,700
75					12.7	2,850	43.4	3,050	55	3,100
80							38.8	2,400	51.9	2,550
85							33.8	1,900	48.7	2,050
90							27.9	1,500	45.4	1,600
95							20.5	1,100	41.9	1,200
100							7.3	800	38.1	850
105									34	550
	0	15,500	0	6,300	0	2,600	0	750		
	31 ft JIB F	RATED LO	ADS] [R	ATED LOA	D REDUCT	IONS WIT	H JIB	
RADIUS LOADED RATED LOADS FULLY BOOM ALL BOOM EXTENDED ANGLE LENGTHS			1		31 ft JIB STOWED 31 ft JIB E				TED	

RADIUS FULLY (TENDED	LOADED BOOM ANGLE	RATED LOADS ALL BOOM LENGTHS		31 ft JIB STOWED	31 ft JIB ERECTED
29	80	3,800	BOOM LENGTH		
44	75	3,300			_
58	70	2,900	31ft	Reduce load 500 lb	Reduce load 1,600 lb
72	65	2,500	55ft	Reduce load 300 lb	Reduce load 1,400 lb
84	60	2,150	79ft	Reduce load 200 lb	Reduce load 1,300 lb
94	55	1,600	103ft	Reduce load 150 lb	Reduce load 1,250 lb
104	50	1,000	127ft	Reduce load 100 lb	Reduce load 1,200 lb



Load Rating Chart: Series 15127 (38.71 m) Boom with 31 ft (9.45 m) Jib/Midspan Outrigger 17.5 ft (5.33 m)

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 10 ft (3m) 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 load rating charts are maximum allowable loads with the outriggers properly extended on a firm, level surface and the crane leveled and mounted on a factory recommended truck.
- 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 loadline must be deducted from the load chart capacities.
- Do not exceed jib capabilities at any reduced boom lengths.
- Do not deadhead lineblock against boom tip when extending boom or winching up.
- · Keep at least three wraps of loadline on drum at all times.
- · Use only specified cable with this machine.

Load Rating Chart: Series 15127 (38.71 m) Boom with 31 ft (9.45 m) Jib/Midspan Outrigger 17.5 ft (5.33 m)

SERIES 15127 (38.71 M) BOOM WITH 31 FT (9.45 M)
JIB/MID-SPAN
OUTRIGGER
17.5 FT (5.33 M)

LOAD RADIUS (ft)	LOADED BOOM ANGLE	31 ft BOOM (Ib)	LOADED BOOM ANGLE	55 ft BOOM (lb)	LOADED BOOM ANGLE	79 ft BOOM (lb)	LOADED BOOM ANGLE	103 ft BOOM (lb)	LOADED BOOM ANGLE	127 ft BOOM (lb)
6	76.4	72,000								
8	72.2	63,000								
10	68	54,000								
12	63.7	47,000	76.8	36,000						
15	57	38,500	73.5	31,000	79.5	25,000				
20	44.1	22,100	67.7	23,500	75.8	20,500	79.6	14,000		
25	27.4	13,400	61.4	18,400	71.7	15,300	77	13,000	79.5	8,700
30			54.9	10,100	67.4	10,600	74	10,700	77.5	8,200
35			48.4	7,300	63.4	7,700	70.9	7,900	75.3	7,700
40			40.6	5,200	59.1	5,700	67.6	5,900	72.7	6,000
45			31.3	3,800	54.5	4,200	64.3	4,400	70.1	4,600
50			18.2	2,700	49.7	3,100	61	3,300	67.4	3,400
55					44.5	2,200	57.6	2,400	64.7	2,500
60					38.8	1,500	54	1,650	62	1,800
65					32.2	850	50.3	1,050	59.3	1,200
70					24.2	400	46.4	550	56.4	650
	0	9,400	0	2,200						

			RATED LOAD REDUCTIONS WITH JIB		
31 ft JIB RATED LOADS				31 ft JIB STOWED	31 ft JIB ERECTED
			BOOM		
RADIUS FULLY	LOADED BOOM	RATED LOADS ALL BOOM	LENGIN	_	-
EXTENDED	ANGLE	LENGTHS	'	Reduce load 500 lb	Reduce load 1,600 lb
			1	Reduce load 300 lb	Reduce load 1,400 lb
			1	Reduce load 200 lb	Reduce load 1,300 lb
			1	Reduce load 150 lb	Reduce load 1,250 lb
				Reduce load 100 lb	Reduce load 1,200 lb

