

Series 1800

product guide



features

- 142' Five-Section Boom
- 40 Ton Rating
- Self-lubricating "Easy Glide" Wear Pads
- Tailswing Counterweight



contents

Features	2
Mounting Configurations	3
Specifications	4
Capacities: With 26' Jib	5
Mid-Span Capacities w/26' Jib	6
Accessories	7

*Product may be shown with optional equipment.

features



Why Buy a National Series 1800?

2



*Product may be shown with optional equipment.

- 40-ton (36.29-t) maximum capacity
- 190 ft. (57.91 m) maximum vertical reach*
- 149 ft. (45.42 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 mounts direct to PTO.
- * Maximum vertical reach is ground-level to boom tip height at maximum extension and angle with outriggers/stabilizers fully extended.

1800



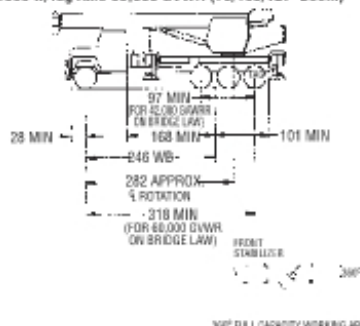
- **40 ton Rating** – The 1800 provides a 40-ton capacity, an 11% increase in capacity over the Series 1500.
- **142 ft. Five-section Boom** – The longest in its size range. The long boom allows the operator to perform more lifts without the use of a jib, reducing setup time and improving efficiency. Also available are optional boom lengths of 79', 103' and 127'.
- **Overload Protection** – All National cranes are equipped with overload protection:
 - Load Moment Indicator (LMI) standard on all Series 1800 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.
- **Self-lubricating "Easy glide" Boom Wear Pads** – The standard self-lubricating boom 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 24'8" when full extended; 17'6" at mid-span.
 - Ground-level outrigger controls on both sides.
 - In-cab outrigger controls for all functions.
 - Front bumper stabilizer for stable base over front.
- **Improved Serviceability** –
 - 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.
- **New State-of-the-art Control Valve** – 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 is number one in the production of commercial truck-mounted boom trucks. National has the resources, programs and people to provide our customers with reliable products.
- **National 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, even if they are 35 years old.
- National has a formalized quality program and is ISO 9001 approved.
- You Expect National Crane to be a Quality Product That Will Provide Years of Service, and So Do We



mounting configurations

The configurations are based on the Series 1800 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.

1800 w/Tag Axle 60,000 GVWR (79/103/127' Boom)



Configuration 1 - 79' - 103' - 127' Boom with Tag Axle

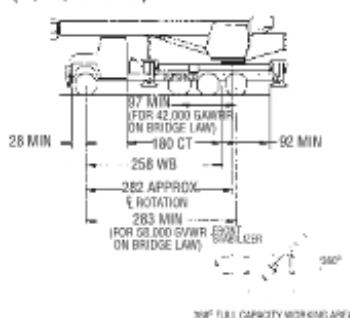
Working area	360°
Gross Axle Weight Rating Front	20,000 lb (9072 kg)
Gross Axle Weight Rating Rear	40,000 lb (18 144 kg)
Gross Vehicle Weight Rating	60,000 lb (27 216 kg)
Wheelbase	246 in (625 cm)
Cab to Axle/Trunnion (CA/CT)	168 in (427 cm)
Frame Section Modulus (SM), front axle to end of AF: 110,000 PSI (785 MPa)	30.0 in ³ (426 cm ³)
Stability Weight, Front	9,450 lb (4286 kg) minimum*
Stability Weight, Rear	10,800 lb (4899 kg) minimum*
Estimated Average Final Weight	56,945 lb (25 830 kg)**

This configuration shows the 360° working area that is achieved with the front stabilizer (standard on the Series 1800). The front stabilizer is essential when extending the boom and lifting loads over the front of the truck.

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

**Estimated final weight (wet) with 127 ft (38.72 m) boom, 400 lb (182 kg) 3 part block, steel decks, 2,300 lb (1,045 kg) swinging counterweight, 100-gal (379-L) fuel tank and two workers in cab.

1800 w/Pusher Axle 58,000 GVWR (79/103/127' Boom)



Configuration 2 - 79' - 103' - 127' Boom with Pusher Axle

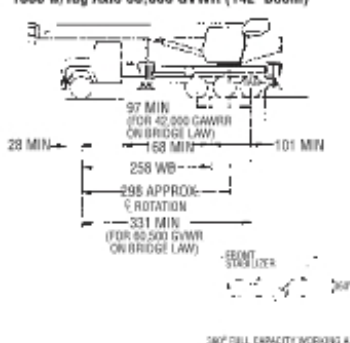
Working area	360°
Gross Axle Weight Rating Front	20,000 lb (9072 kg)
Gross Axle Weight Rating Rear	40,000 lb (18 144 kg)
Gross Vehicle Weight Rating	60,000 lb (27 216 kg)
Wheelbase	258 in (655 cm)
Cab to Axle/Trunnion (CA/CT)	180 in (457 cm)
Frame Section Modulus (SM), front axle to end of AF: 110,000 PSI (785 MPa)	30.0 in ³ (426 cm ³)
Stability Weight, Front	9,975 lb (4525 kg) minimum*
Stability Weight, Rear	10,275 lb (4661 kg) minimum*
Estimated Average Final Weight	56,945 lb (25 830 kg)**

This configuration shows the 360° working area that is achieved with the front stabilizer (standard on the Series 1800). The front stabilizer is essential when extending the boom and lifting loads over the front of the truck.

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

**Estimated final weight (wet) with 127 ft (38.72 m) boom, 400 lb (182 kg) 3 part block, steel decks, 2,300 lb (1,045 kg) swinging counterweight, 100-gal (379-L) fuel tank and two workers in cab.

1800 w/Tag Axle 60,000 GVWR (142' Boom)



Configuration 142' Boom with Tag Axle

Working area	360°
Gross Axle Weight Rating Front	20,000 lb (9072 kg)
Gross Axle Weight Rating Rear	40,000 lb (18 144 kg)
Gross Vehicle Weight Rating	60,000 lb (27 216 kg)
Wheelbase	258 in (655 cm)
Cab to Axle/Trunnion (CA/CT)	168 in (427 cm)
Frame Section Modulus (SM), front axle to end of AF: 110,000 PSI (785 MPa)	30.0 in ³ (426 cm ³)
Stability Weight, Front	9,275 lb (4207 kg) minimum*
Stability Weight, Rear	10,575 lb (4797 kg) minimum*
Estimated Average Final Weight	58,000 lb (26 308 kg)**

This configuration shows the 360° working area that is achieved with the front stabilizer (standard on the Series 1800). The front stabilizer is essential when extending the boom and lifting loads over the front of the truck.

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

**Estimated final weight (wet) with 142 ft (43.29 m) boom, 400 lb (182 kg) 3 part block, steel decks, 2,300 lb (1,045 kg) swinging counterweight, 100-gal (379-L) fuel tank and two workers in cab.

MINIMUM TRUCK REQUIREMENTS

Many factors must be considered in the selection of proper truck for a 1800 series crane. Items which must be considered are:

- 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.
- Wheelbase (WB), Cab-to-Trunnion (CT) and Bare Chassis Weight.** The wheelbase, CT and chassis weights shown are required so the basic 1800 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" pages for the necessary section modulus and resistance to bending moment values.

- 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. See "PTO Selection" pages. A conventional cab truck should be used for standard crane mounts.
- Neutral Start Switch.** The chassis must be equipped with a switch that prevents operation of the engine starter when the transmission is in gear.

Notes:

- Gross Vehicle Weight Rating (GVWR) is dependent on all components of the vehicle (axles, tires, springs, frame, etc.) meeting manufacturers' recommendations; always specify GVWR when purchasing trucks
- Diesel engines require a variable speed governor and energize-to-run fuel solenoid for smooth crane operation; electronic fuel injection requires EET engine remote throttle

- All mounting data is based on a National Series 1800 with an 85 percent stability factor (75% stability factor for New York City).
- The complete unit must be installed in accordance with factory requirements, and a test performed to determine actual stability and counterweight requirements per SAE J765; contact the factory for details

specifications



Boom and Jib Combinations Data

Available in four basic models: 1879 three-section, 18103 four-section, 18127 five-section and 18142 five-section.

4

Model 1879 – Equipped with a 31-79 ft (9.45-24.08 m) three-section boom. There are no jib options for this boom model. Maximum tip height is 87 ft (26.52 m).

31-79 ft (9.45-24.08 m) three-section hydraulic boom

Model 18103 – 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) jib, offering a vertical reach of 142 ft (43.29 m) and a 31-55 ft (9.45-16.76 m) side-stowing foldaway jib, providing a vertical reach of 166 ft (50.60 m).

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

31-103 ft (9.45-31.40 m) four-section hydraulic boom **18FJ31OS** 31 ft (9.45 m) single-section offsettable manual jib

31-103 ft (9.45-31.40 m) four-section hydraulic boom **18FJ55** 31-55 (9.45-16.76 m) two-section manual jib

Model 18127 – Equipped with a 31-127 ft (9.45-38.72 m) five-section boom. This model can be equipped with a 31 ft (9.45 m) jib, offering a vertical reach of 166 ft (50.60 m) or a 31-55 ft (9.45-16.76 m) jib providing a vertical reach of 190 ft (57.91 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 **18FJ31** 31 ft (9.45 m) single-section manual jib

31-127 ft (9.45-38.72 m) five-section hydraulic boom **18FJ55** 31-55 (9.45-16.76 m) two-section manual jib

Model 18142 – Equipped with a 34-142 ft (10.36-43.29 m) five-section boom. This model can be equipped with a 26 ft (7.92 m) jib, offering a vertical reach of 176 ft (53.64 m).

34-142 ft (10.36-43.29 m) five-section hydraulic boom

34-142 ft (10.36-43.29 m) five-section hydraulic boom **18FJ26** 26 ft (7.92 m) single-section manual jib

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

1800 Winch Data

- All winch pulls and speeds are 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.

			1 Part Line	2 Part Line	3 Part Line	4 Part Line	5 Part Line	6 Part Line	7 Part Line	8 Part Line
Standard Planetary Winch	Cable Supplied	Average Breaking Strength	Lift and Speed	Lift and Speed	Lift and Speed	Lift and Speed	Lift and Speed	Lift and Speed	Lift and Speed	Lift and Speed
Low Speed	5/8" diameter rotation resistant IWRC	56,400 lbs. (25583 kg)	10,000 lbs. (4536 kg) 205 fpm (62 m/min)	20,000 lbs. (9072 kg) 103 fpm (31 m/min)	30,000 lbs. (13608 kg) 68 fpm (21 m/min)	40,000 lbs. (18144 kg) 51 fpm (16 m/min)	50,000 lbs. (22680 kg) 41 fpm (13 m/min)	60,000 lbs. (27216 kg) 34 fpm (10 m/min)	70,000 lbs. (31751 kg) 29 fpm (9 m/min)	80,000 lbs. (36287 kg) 26 fpm (8 m/min)
High Speed	5/8" diameter rotation resistant IWRC	56,400 lbs. (25583 kg)	5,000 lbs. (2268 kg) 410 fpm (125 m/min)	10,000 lbs. (4536 kg) 205 fpm (62 m/min)	15,000 lbs. (6804 kg) 137 fpm (42 m/min)	20,000 lbs. (9072 kg) 103 fpm (31 m/min)	25,000 lbs. (11340 kg) 82 fpm (25 m/min)	30,000 lbs. (13608 kg) 68 fpm (21 m/min)	35,000 lbs. (15876 kg) 59 fpm (18 m/min)	40,000 lbs. (18144 kg) 51 fpm (16 m/min)

Winch
Standard planetary
& Auxiliary planetary

Full Drum Pull
5,000 pounds (2268 Kg high speed)
10,000 pounds (4536 Kg low speed)

Allowable Cable Pull
11,280 pounds (5117 Kg)
11,280 pounds (5117 Kg)

5 TON	Aux Boom Head	100 LB.	(45 kg)
15 TON	Downhaul Weight	180 LB.	(82 kg)
25 TON	1 Sheave Block	375 LB.	(170 kg)
35 TON	2 Sheave Block	640 LB.	(290 kg)
40 TON	3 Sheave Block	870 LB.	(395 kg)
	4 Sheave Block	970 LB.	(440 kg)

1800

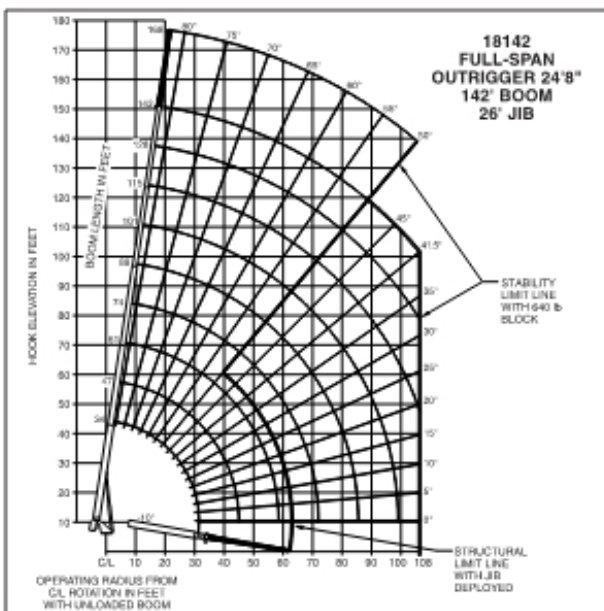


capacities

Load Rating Chart: Series 1800 with 26 ft. Jib

Other Series 1800 Load Rating Charts are available. National will send you a chart on request – or you may secure needed load rating information through your nearest National dealer.

5



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.

SERIES 18142 WITH 26' JIB

NOTE:

- Operate with jib by radius when main boom is fully extended. If necessary increase boom angle to maintain loaded radius.
- Operate with jib by boom angle when main boom is not fully extended. Do not exceed rated jib capacities at any reduced boom lengths.
- Capacities do not exceed 85% stability.
- Shaded areas are structurally limited capacities.

Load Rating: 34-142 ft Boom Rated Loads without jib

34 FT BOOM			47 FT BOOM			61 FT BOOM			74 FT BOOM		
Radius	Angle	Capacity	Radius	Angle	Capacity	Radius	Angle	Capacity	Radius	Angle	Capacity
7	78.3	80,000									
8	74.3	74,000									
10	70.5	68,000	10	75.8	40,000						
12	66.7	55,000	12	74.2	40,000	12	75.7	40,000	15	79.2	32,000
15	60.6	43,000	15	70.5	40,000	15	75.8	36,000	20	75.2	26,000
20	48.6	28,700	20	63.6	30,000	20	70.8	30,000	25	71	21,500
25	36.4	22,000	25	56.2	22,000	25	65.4	23,000	30	66.6	17,400
30	16.2	17,000	30	48.1	17,700	30	59.8	17,800	35	62.1	14,300
0	0	15,800	35	38.9	14,500	35	53.8	14,300	40	57.3	11,800
			40	27.3	11,400	40	47.4	11,600	45	52.9	9,900
			0	0	9,400	45	40.9	9,700	50	47.6	8,300
						50	32.6	8,000	55	41.7	6,900
						55	21.5	6,800	60	36.1	5,700
						0	0	5,800	65	27.1	4,850
									70	15.4	4,000
									0	0	3,800
88 FT BOOM			101 FT BOOM			115 FT BOOM			128 FT BOOM		
Radius	Angle	Capacity	Radius	Angle	Capacity	Radius	Angle	Capacity	Radius	Angle	Capacity
20	78.2	23,000	20	79.0	17,000	25	79.1	13,000			
25	73.5	20,000	25	77.2	15,000	30	75.7	11,000	30	78.5	9,500
30	71.3	17,000	30	74.4	14,200	35	74.2	10,900	35	76.5	9,000
35	67.7	14,000	35	71.5	12,700	40	71.9	9,800	40	74.4	8,500
40	53.8	11,800	40	58.3	10,800	45	69.3	9,000	45	72.1	7,800
45	50.3	10,000	45	55.4	9,500	50	66.5	8,000	50	69.6	7,000
50	56.2	8,300	50	62.1	8,200	55	63.6	7,100	55	67.1	6,200
55	51.9	7,000	55	58.6	7,000	60	60.3	5,800	60	64.4	5,300
60	47.3	5,800	60	54.9	5,800	65	57.3	5,000	65	61.7	4,600
65	42.3	4,800	65	51.1	4,900	70	54	4,200	70	58	4,000
70	36.8	4,100	70	47.1	4,100	75	50.6	3,500	75	56.2	3,400
75	30.5	3,400	75	42.7	3,400	80	46.9	2,900	80	53.2	2,900
80	22.5	2,800	80	36.1	2,800	85	43.1	2,350	85	50	2,350
85	8.6	2,300	85	32.6	2,300	90	39	1,800	90	46.8	1,800
0	0	2,200	90	28.5	1,800	95	34.4	1,500	95	43.3	1,500
			0	0	1,400	100	29.3	1,100	100	39.6	1,100
						105	24	750	105	35.7	800
						108	18.3	650	108	33.1	650
RATED LOAD REDUCTIONS WITH JIB											
26 FT JIB STOWED				26 FT JIB EXTENDED				26 FT JIB RATED LOADS			
BOOM LENGTH	Radius	Angle	Capacity	BOOM LENGTH	Radius	Angle	Capacity	Radius	Angle	Capacity	Radius
34'			Reduce load 535 lb	34'			Reduce load 1,090 lb	30	80	4,000	
47'			Reduce load 490 lb	47'			Reduce load 1,090 lb	50	75	3,800	
61'			Reduce load 290 lb	61'			Reduce load 990 lb	65	70	3,200	
74'			Reduce load 250 lb	74'			Reduce load 925 lb	78	65	2,450	
88'			Reduce load 230 lb	88'			Reduce load 900 lb	80	60	1,800	
101'			Reduce load 230 lb	101'			Reduce load 890 lb	101	55	1,250	
115'			Reduce load 150 lb	115'			Reduce load 875 lb	112	50	650	
128'			Reduce load 160 lb	128'			Reduce load 875 lb				
142'			Reduce load 125 lb	142'			Reduce load 850 lb				

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.

Other Series 1800 Load Rating Charts are available. National will send you a chart on request – or you may secure needed load rating information through your nearest National dealer.

[illegible]

- **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.

**SERIES 18142
WITH
26' JIB
(MID-SPAN
OUTRIGGER)**

[illegible]

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.



accessories

7

Radio Remote Controls – (Ground level or boom tip)

Eliminate the handling and maintenance concerns that accompany cabled remotes. Operate to a range of about 250 feet (76 m), varying with conditions.

One-Person Basket –

Strong but lightweight steel basket with 300-lb. (139-kg) capacity, gravity hung with swing lock and full body harness.

Heavy-duty Personnel Basket –

1,200-lb. (544-kg) capacity steel basket with safety loops for four passengers. Gravity leveling 72- x 42-inch (183- x 107-cm) platform. Fast attachment and secure locking systems.

Air-Conditioning for Crane Cab –

(Requires larger truck alternator) Provides excellent crane cab cooling to overcome the radiant heat from the sun reflection.

Auxiliary Winch 10,000-lb. Line Pull –

Second winch redundant to the main, planetary winch with boom tip "rooster sheave" to allow reeving of both winch lines.

Work Lights –

- Amber flashing beacon mounted on crane cab
- Capacity indicator light outside of cab for visual display of load on hook versus capacity
- Spotlight mounted on cab, manually adjusted from the crane cab
- Worklight on boom, switch and wiring in cab to operate customer supplied worklight (without remote controls)
- Worklight in fixed position on crane cab with in cab power
- Worklight adjustable from crane with in-cab power

• **Model NB4R** (R4 functions)

• **Model B1-S**

• **Model 2B1-S** (for dual locking baskets)

• **Model BSA-1**

• **Model BSA-R1** (provides rotation)

• **Model A/C**

• **Model 18AW**

• **Model ABR**

• **Model CIE**

• **Model MSL**

• **Model WLB**

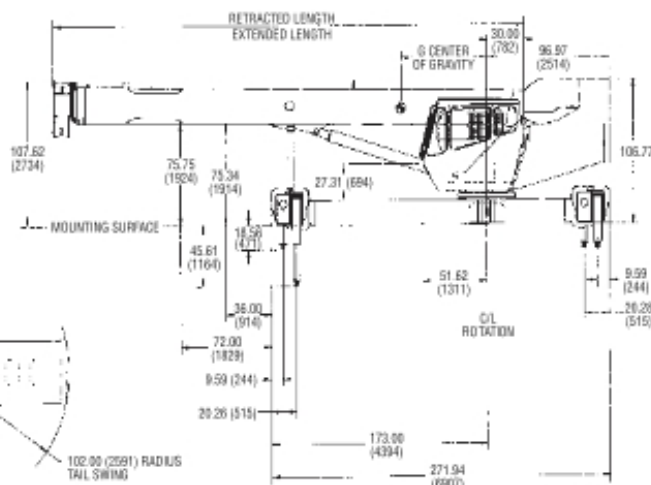
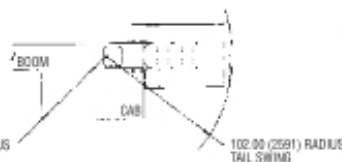
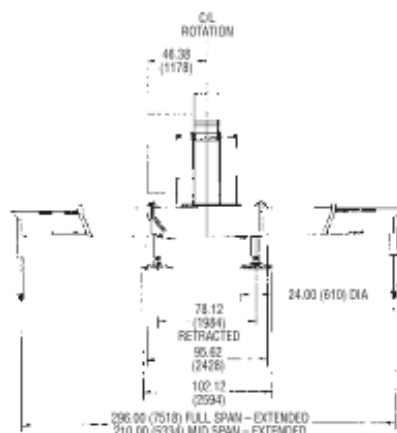
• **Model WLF**

• **Model WLR**

Dimensions Specifications

SERIES	RETRACTED LENGTH	EXTENDED LENGTH	G	WEIGHT WITH OIL*
18103	31 ft (9.45 m)	103 ft (31.40 m)	69 in. (1.75 m)	33,850 lb (15,364 kg)
18127	31 ft (9.45 m)	127 ft (38.72 m)	69 in. (1.75 m)	35,275 lb (16,000 kg)
18142	34 ft (10.36 m)	142 ft (43.28 m)	87 in. (2.21 m)	36,970 lb (16,769 kg)
1879	31 ft (9.45 m)	79 ft (24.08 m)	69 in. (1.75 m)	31,815 lb (14,431 kg)

*WEIGHT INCLUDES ALL ITEMS INCLUDING COMPLETE HO OUTRIGGERS, 2300 lb. COUNTERWEIGHT, 375-lb BLOCK, DECKS AND SFO. BOOMS FULLY RETRACTED.



1800



Manitowoc Crane Group - Americas

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Manitowoc Crane Group - UK

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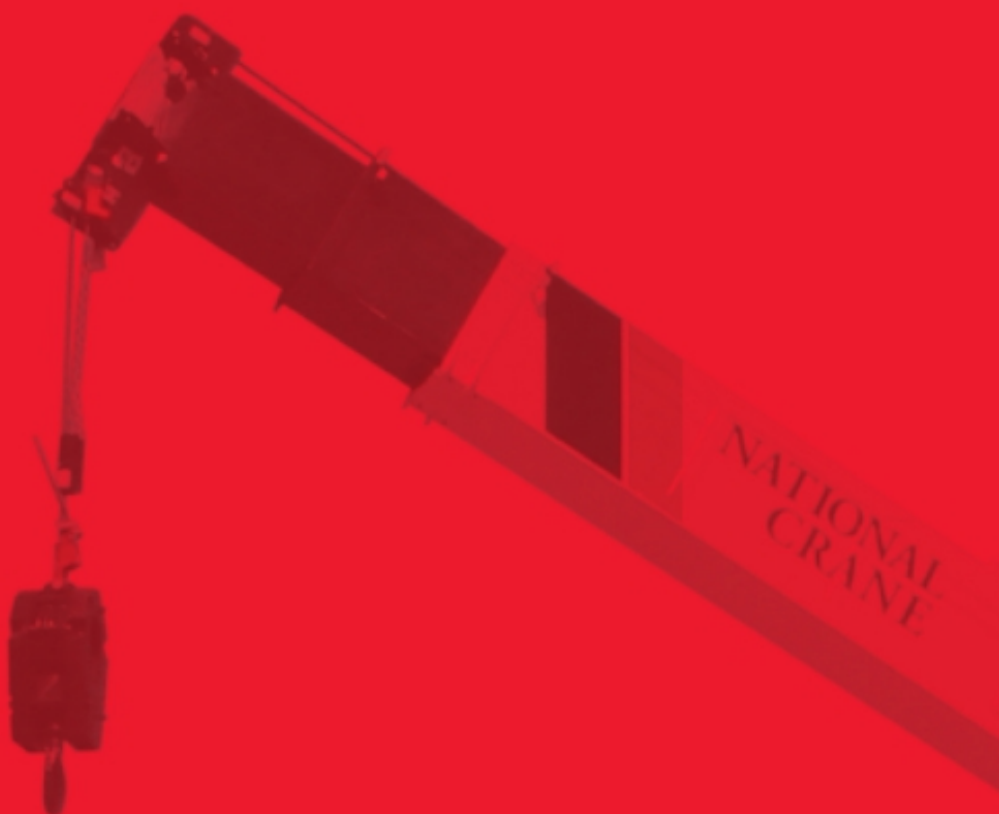
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