

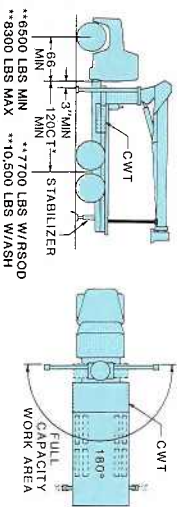
National Series 600B Truck/Crane Specifications

Truck Specifications

The 600B can be mounted in several configurations, including the one shown below. Your National dealer can provide you with detailed information about alternative configurations (with and without torsion boxes, rear mounts, etc.). Specifications vary, depending on the configuration utilized. The mounting configuration below is based on an 85% stability factor. The complete unit must be installed in accordance with factory requirements, and a test must be performed to determine actual stability and counterweight requirements since individual truck chassis vary.

This configuration allows installation on a tandem rear axle chassis with considerably less frame strength by using the standard subbase. In most cases, the chassis will not require reinforcing and the amount of counterweight is reduced, increasing the truck's payload. Requires standard subbase, rear ASH stabilizers, and usually counterweight in the bed or subbase centered near the crane frame. Full capacity work area is the rear 180° of the vehicle, from outrigger to outrigger.

Gross Vehicle Weight Rating (GVWR)	46,000 lbs.
Gross Axle Weight Rating (GAWR), Front	12,000 lbs.
Gross Axle Weight Rating (GAWR), Rear	34,000 lbs.
Wheelbase (WB)	222" on Model 666B*
Cab to Axle/Trunnion (CA/CT)	156" on Model 666B*
Frame Section Modulus (SM) over Rear Stabilizers	50,000 PSI
or	
110,000 PSI	15.0-inch ³
Stability Weight, Front	6,500 lbs. minimum
Stability Weight, Rear	8,300 lbs. maximum
Estimated Average Final Weight	10,500 lbs. w/ASH stabilizers
	7,700 lbs. w/RSOD stabilizers
	30,000 lbs.



(Model 666B shown)

* Shorter WB and CA/CT trucks may be used with shorter boom-length cranes (Models 638B, 647B, and 656B).

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

Notes:

- GAWR means Gross Axle Weight Rating and is dependent on all components of the vehicle, such as axles, tires, springs, frame, etc., meeting manufacturer's recommendations. **Always specify GAWR when purchasing trucks.**
- Minimum axle requirements may increase with the use of longer wheelbase, service bodies, diesel engines, or front stabilizers.
- Tandem axle trucks must be used for hauling larger payloads.
- Diesel engines require variable speed governor and electric engine shut-off.

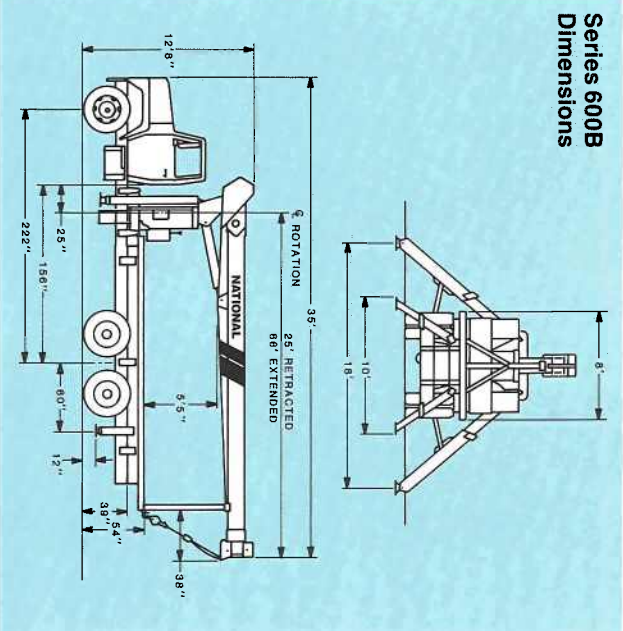


NATIONAL CRANE

General Offices: 11200 North 148th Street / Waverly, NE 68462
Phone: 402-786-6300 / Telex: 439061 / FAX: 402/786-6363

National reserves the right to change designs, prices, and specifications at any time without notice.

Series 600B Dimensions



Optional Equipment

- Remote controls (Models R3, R4)
- Burst-of-speed planetary winch feature for faster, more efficient pay-out and pick-up of cable (Model BOS)
- One-person fiberglass basket (Models B1, B1-L)
- Two-person basket (Model BS-1)
- Personnel platform (Models SLP, SLPR)
- High-performance piston motor winch (Model PMW)
- Pallet fork (Model MKF)
- Loose material clam bucket (Model LMC)
- Hydraulic tilting pole grab (Model PG)
- Rear hydraulic stabilizers with 14-foot span (Model RSOD)
- Front-mounted hydraulic stabilizer (Model SFO)
- Cross frame outriggers with 15½-foot span (Model 6HO)
- Capacity alert systems (Models AAs, HAS)
- Hydraulic oil cooler (Model HOC)
- Three pump system (Model TP3)

Do not operate National cranes or accessories within 10 feet of live power lines or other electrified sources.

Weights of all accessories attached to the boom or loadline of the crane must be deducted from the effective lifting capacity. Some accessories cannot be used in combination with other accessories and/or certain boom/jib combinations. See your National dealer for details and specific accessory availability.

Your National Dealer:

National Series 600B

A high-capacity telescoping crane from National, America's truck-mounted hydraulic crane leader

Maximum Capacity: 28,000 Pounds (12.5 Metric Tons)

Maximum Height: 118 Feet (36 Meters)



Why buy a National Series 600B?



National Crane, America's truck-mounted hydraulic crane leader, features the industry's premier lineup of hard-working telescoping and articulating units. The medium-to-heavy-duty Series 600B telescoping crane (14-ton capacity, 118-foot vertical reach) offers many advantages:

- **Field-proven durability**
 - National has manufactured cranes since 1963.
 - More than 17,000 field-proven cranes verify National's manufacturing expertise.
 - Nearly 90% of all National cranes ever manufactured are working on the job today.
- **Attention to quality**
 - National's Industry leading testing program subjects all prototype models to state-of-the-art strain gauge and life-cycle testing to verify structural integrity.
 - Each 600B undergoes numerous quality inspections at all levels of manufacture and assembly. All mounted cranes are fully tested prior to shipment.
- **Retained market value**
 - National cranes traditionally retain higher resale value year after year.
- **Responsive service**
 - Each 600B is backed by strong after-sale and ser-

vice support. National's professional, factory-trained dealer network spans the nation.

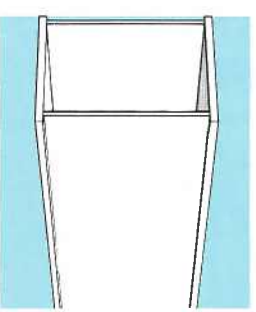
- Authorized National dealers maintain a parts stocking program for your 600B.
- When a dealer cannot immediately supply a part, the factory's back-up program provides 24-hour parts shipping in 90% of all breakdown rush orders.

Strong warranty protection

- The 600B is backed by a solid warranty covering defects in materials and workmanship for six months from date of shipment.

Efficient boom design

- Computer-aided design enables National to improve the weight efficiency of 600B boom sections.



- Telescoping boom sections are fabricated from four high-strength steel members welded with perpendicular corners. This "box-section" boom design has thicker top and bottom

plates to maximize strength and thinner side plates to increase capacity through lower boom weight.

- Only strong, low-alloy steel is used in boom fabrication.
- Welds are made with automatic, low-hydrogen techniques to ensure strong seams.

- Corner seams are ultrasonically tested for proper weld penetration.
- Large nylon bolt-in wear pads impregnated with lubricants provide a smooth, long-life operation and are easily replaced.

Proportional boom extension

- Proportional (cable crowd) boom extension (each section extends and retracts proportionally during the telescoping operation) maximizes efficiency and yields higher capacities (particularly in normal working radii) through efficient boom weight distribution.

- The design permits minimum overlap to get the most reach with minimum retracted length for maneuverability.
- The utilization of cable, rather than chain, means longer service life and less maintenance.

- The boom extend cylinder is fully protected with a direct mount holding valve.
- There are no fitting tubes or hoses inside the boom, and since the system utilizes only one extend cylinder, hydraulic maintenance is minimized.

Planetary winch

- The standard high performance planetary gear drive winch increases efficiency, requires less horsepower, and generates less heat.
- Equipped with a special gerotor motor for extra-smooth full-load operation.

- Anti-friction bearings are used throughout to maximize efficiency and seal life.

- A "Burst-of-Speed" option, increasing line speed up to 60% over normal, allows extra fast payout and pickup of unloaded cable.

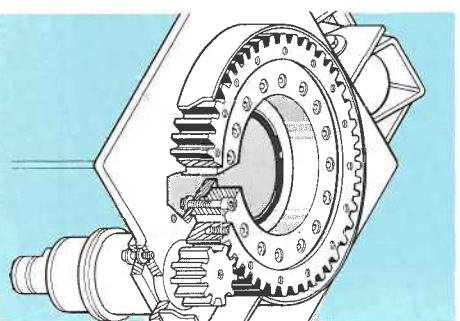
- Standard brake and counterbalance valves provide fine control.
- A rotation indicator allows the operator to readily determine that the drum is rotating.

- The winch cover permits visibility of the drum and cable.
- Rotation-resistant 9/16" diameter cable is standard.

Positive planetary turret rotation

- The planetary rotation gearbox with a hydraulic release brake allows the gearbox to backdrive when excessive side load is applied to the boom, reducing shock loads on the upper and lower crane structure and gearbox.
- The turret drive is designed with extra-heavy bearings below the drive pinion. The turntable bearing full-circle bolt pattern extends the bearing life due to uniform loads on the bearing.

- The gearbox and rotation bearing mounting surfaces are precision-machined after welding to ensure consistent tooth alignment for smooth rotation and low wear, even under maximum loads.



National Series 600B



66-foot boom available!

