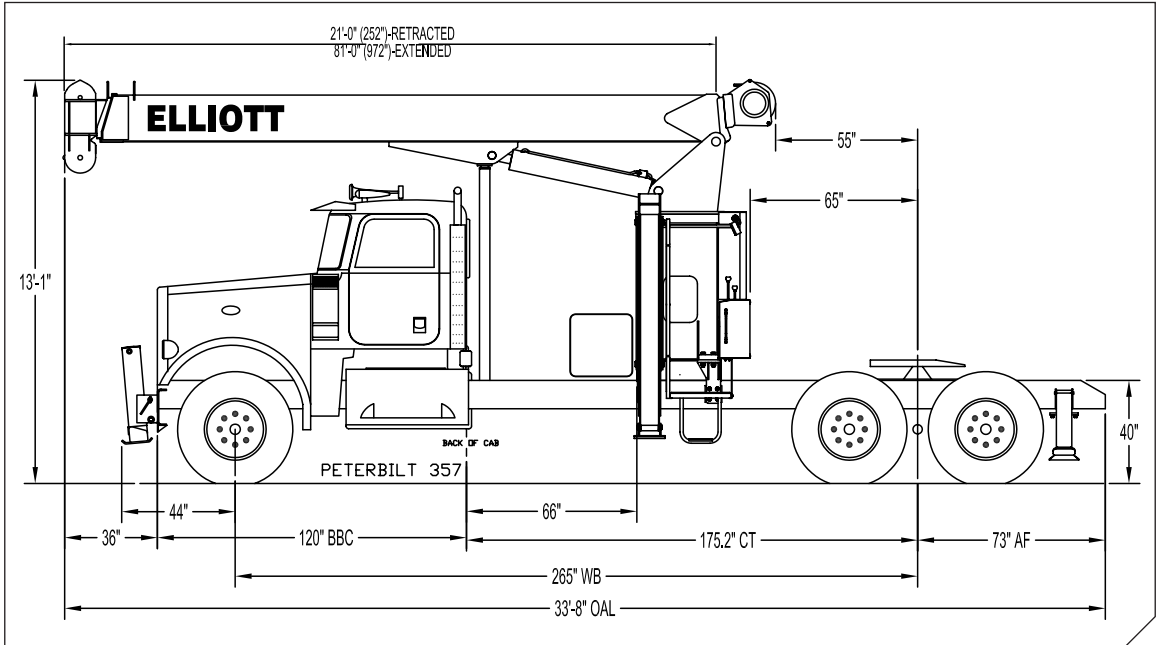


BoomTruck™ 1881 TM



General Unit Description

BoomTruck – When it comes to design and engineering, Elliott’s BoomTruck is generations apart from the traditional crane—making it ideal for the exacting demands of today’s job sites. With an industry-leading 18-ton capacity and 5-section 81’ boom, the BoomTruck delivers high performance with increased efficiency--from its high-speed outrigger set-up, boom extension and retraction to its high-pull winch. Plus our BoomTruck requires very little maintenance thanks to its layaway hoist, 10 percent fewer fittings than competitor models and the industry’s best warranty. That gives you time to enjoy operator amenities like the built-in cup holders and 12-volt charger on the operator console.

Basic unit includes base assembly supporting front mounted rotating turret, hydraulically powered rotation mechanism, oil reservoir, oil, and dual operator console with levers linked to manual hydraulic control valve mounted to pedestal. Base mounted "A" frame link type outriggers hydraulically powered, individually controlled main outriggers. Under frame mounted outriggers for rear stabilization. High strength steel five section hydraulic and cable telescoping boom with one double acting 7" lift cylinder. Load Moment Limiter System with display and hydraulic function lockout for load capacities. Power take off and pump drive, pressure gauge, three-section gear pump and holding valves on all cylinders. Control console is equipped with radio Anti-2-Block system, engine start/stop, variable speed foot throttle, horn, winch burst of speed, and outrigger motion alarm. Additional equipment includes triangle reflector kit, backup alarm, and fire extinguisher. Paint BoomTruck white, outriggers red and bed and boxes black. Installed on chassis, tested and ready to operate. Unit certified to ANSI B30.5 for Mobile and Locomotive cranes.

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Technical Specifications

Crane Capacity: 36,000 pounds at a five feet load radius.

Maximum Tip Height: 91' height

Control Console: Dual operator stations equipped with four single axis levers for the main crane controls with independent controls for all outriggers for precise leveling. The levers for the outriggers and stabilizers are offset and shorter than the main crane control levers for added safety. Each side includes a bubble level gauge, engine start/stop switch, signal horn button, variable speed foot throttle, lifting capacity chart, range diagram chart, and boom angle indicator. A system pressure gauge is located on the driver's side console.

Boom: Five-section fully proportional, high strength steel plated rectangular tube sections. A maximum boom tip height of 91 feet mounted on a truck. The boom nose contains two lower main sheaves and one idler sheave for three-part line. Assembly includes heavy-duty cylinder fittings, pivot pins, and replaceable wear pads.

Winch: Mounted at the base of the boom for a long fleet angle and flat level spooling of cable. Winch is driven by planetary reducer and powered by a hydraulic motor. Burst-of-speed winch provides increased line speed. The winch brake is spring applied, pressure release design. Supplied with 275 feet of 9/16" diameter wire rope with a single-line wire rope pull of 9,600 pounds, and a down-haul ball with swivel hook for single part line.

Load Moment Limiter (LML) System: LML System senses hoist cylinder pressures, boom length and boom angle with hydraulic function lockout. The display console is equipped with an integrated bar graph showing crane utilization, boom angle or boom length, a mode select controls for main boom and jib operation, and a radio anti-two block with an audio / visual warning and shut-off functions to limit hook-boom point contact. The display console can be positioned at both operator stations.

Outriggers: A-frame link type outriggers for a minimum of 20'-10" extended span. Additional stabilization provided by rear under frame mounted stabilizers.

Sub Frame: All welded rigid 4-plate design sub-frame spacer that bolts to the truck frame under the pedestal.

Turret: Turret is one-piece weldment. Turret rotates on large diameter ball bearing.

Rotation: Hydraulic motor drives turret through double reduction planetary swing drive for 372 degree non-continuous rotation. The swing drive system has a spring applied, pressure release brake.

Boom Extension: The boom sections extend proportionally utilizing a two -stage extension cylinder and cable crowd system.

Lift: One double-acting 7" full displacement, long stroke cylinders provide smooth and stable boom elevation. Holding valve prevent boom from lowering in event of hose failure.

Cylinders: All cylinders use microhoned cylinder tubing, chrome shafts, top grade packing and protective rod wipers. Cylinder-mounted holding valves provided on all load-holding cylinders.

Hoses: All high pressure hose is wire braid reinforced with a minimum safety factor of 4 to 1.

Oil Tank Capacity: 70 gallon mounted to truck frame.

Hydraulic System: Equipped with cable-shift PTO, gear type 3-section pump, SAE O-ring face seals on pressure lines, a 10 micron return line filter and a shut-off ball valve. The control valve distributes all flow to obtain a 39 gpm for the hoist system, 9 gpm to the swing circuit and 23 gpm for the other crane functions. System is parallel open center type, and the operating pressure is approximately 3,000 PSI.

Cab Equipment: PTO cable and switch with indicator light installed in truck cab. U/L approved 5:BC dry chemical fire extinguisher installed in truck cab.

Operator Manual: One copy of operation, maintenance, safety and parts manual provided with each unit.

Installation: Unit installed on customer's truck, painted, system and tank filled with oil, tested, inspected, certified and ready to operate.

Standard Paint: Paint BoomTruck white, outriggers red, and bed and boxes black.

Weight: Approximately 16,000 lbs. less truck.

Truck Chassis Requirements: Approximately 175" C.A. RBM 3,300,000 in.-lb. per rail, 20,000 lb. front axle and 60,000 lb. GVWR required. Trucks must have extended rear frame, increased cooling, heavy-duty front and rear springs, 12V electrical system with high capacity alternator, cab clearance stop/tail/backup lights, and I.D. lamps. Additional equipment to consider: front tow hook, mud and snow tires for off highway use. Recommended GVWR is minimum for BoomTruck. Contact factory when additional equipment is to be added.

Options

FIFTH WHEEL: Air slide adjustable 5th wheel over rear tandem axle.

Hook Block for 2/3-part load line

Hook Block for 4-part load line

Tool Boxes

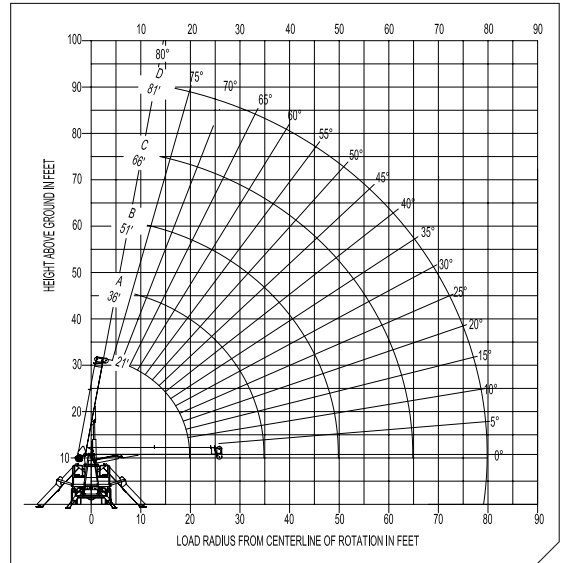
Front Jack for 360 degree crane operation

Pedestal Mounted Tool Circuit

Radio Remote Control Operation

Steel Gravity Level Platform

Miscellaneous Options...Contact factory for details



THIS AERIAL DEVICE IS NON-INSULATING. IT PROVIDES NO ELECTRICAL PROTECTION. CONTACT WITH OR INADEQUATE CLEARANCE TO AN ENERGIZED LINE OR APPARATUS IS AN ELECTROCUTION HAZARD.

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