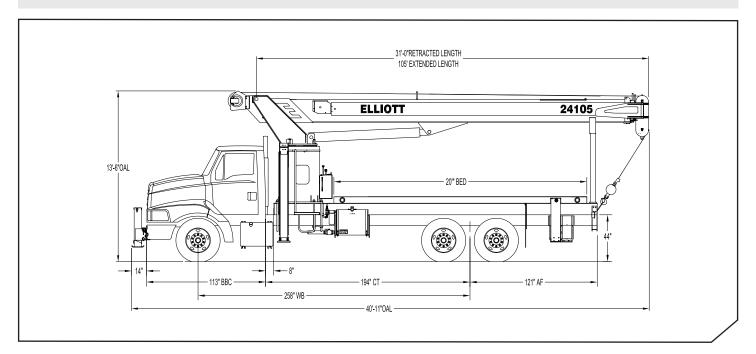
BoomTruck[™]24105



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 demands of today's job sites. With a 24-ton capacity and boom length of 105', the Elliott 24105F delivers high performance with increased efficiency – from its high speed winch and frictionfree jib extension to its optional Superlink outriggers which allow for reduced span operation in a restricted area. Plus, our BoomTruck requires very little maintenance and offers the industry's best warranty. These combined features improve efficiency, safety, control, and performance - to save you time and money.

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. Underframe mounted rear stabilizers for rear stabilization. High strength steel three-section hydraulic and cable telescoping boom. Load Moment Indicator 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 anti-two-block system, engine start/stop switch, variable speed foot throttle, burst of speed winch, and outrigger motion alarm. Additional equipment includes triangle reflector kit, backup alarm, and fire extinguisher. Paint BoomTruck white, outriggers, stabilizers, and boom rest red, and bed, reservoir, and subbase black. Installed on chassis, tested and ready to operate. Unit certified to ANSI B30.5 for Mobile and Locomotive cranes.



TECHNICAL SPECIFICATIONS BOOMTRUCK 24/05

Technical Specifications

Crane Capacity: 48,000 pounds at five feet load radius.

Maximum Tip Height: 117' height (162' with optional 45' jib)

Control Console: Dual operator control stations equipped with four single axis control 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, boom angle indicator, 12V DC power source, and cup holder. A system pressure gauge is located on the driver side console.

Boom: Four-section fully proportional, high strength steel plated rectangular tube sections. A maximum boom tip height of 117 feet mounted on a truck. The boom nose contains one floating upper sheave and three lower sheaves. 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 a planetary reducer and powered by a hydraulic motor. Burst-of-speed winch provides increased line speed. The winch brake is a spring applied, pressure release design. Supplied with 425' of 9/16" diameter rotation resistant wire rope with a single line pull of 9,060 pounds, and a down-haul ball with hook for single part line.

Load Moment Indicator System: LMI 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, mode select controls for main boom and jib operation, and an anti-two block with an audio/visual warning and shut-off functions to limit hook-boom point contact.

Outriggers: "A" frame link type outriggers for a minimum of 20'10" extended span. Additional stabilization provided by out-and-down rear stabilizers with 18'2" extended span.

Frame: Full length, all welded rigid 4-plate design sub-frame for 20' bed 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: Incorporates a 2-stage hydraulic extension cylinder, attached to the largest boom section, with a proportional cable extension driving the outermost sections.

Lift: One double-acting full displacement, long stroke cylinder provides smooth and stable boom elevation. Holding valve prevents 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: 120 gallon mounted to truck frame on roadside.

Hydraulic System: Equipped with cable-shift PTO, gear pump, SAE Oring face seals on pressure lines, a 10-micron return line filter, and shutoff valve on suction line. The control valve distributes all flow to the hoist system, swing circuit, and other crane functions. System is parallel open center type.

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 hard copy and one CD copy of operation, maintenance, safety and parts manual provided with each unit.

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

Standard Paint: Crane frame, boom, and above bed Elliott white. Main outriggers, rear stabilizers, operator platform, and boom rest red. Crane subbase, bed, and reservoir to be black.

Bumper: Bureau of Motor Carrier Safety rear bumper.

Weight: Approximately 25,840 lbs. without bed, less truck.

Truck Chassis Requirements: Approximately 192" C.T., 120" A.F., 18,000 lb. front axle, 34,000 lb. rear axle, and 52,000 lb. GVWR required. 15.9" cubed section modulus @ 110,000 psi (1,749,000 RBM). 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, pintle hook, mud and snow tires for highway use. Recommended GVWR is minimum for BoomTruck with flatbed only. Integral extended front frame rails are required for front bumper stabilizer. Contact factory when additional equipment is to be added.

Options

45' telescopic jib

26' telescopic jib

Superlink "short jack" for "A" style main outriggers

Radio remote control crane operation

Hook block for 2/3-part line load

Hook block for 4-part line load

Rear mount

Tool boxes

24" steel bulkhead

Front jack for 360-degree crane operation

Steel gravity leveled 2-person platform

Continuous rotation

Oil cooler

Boom mounted hose reel

Miscellaneous options: Contact factory for details



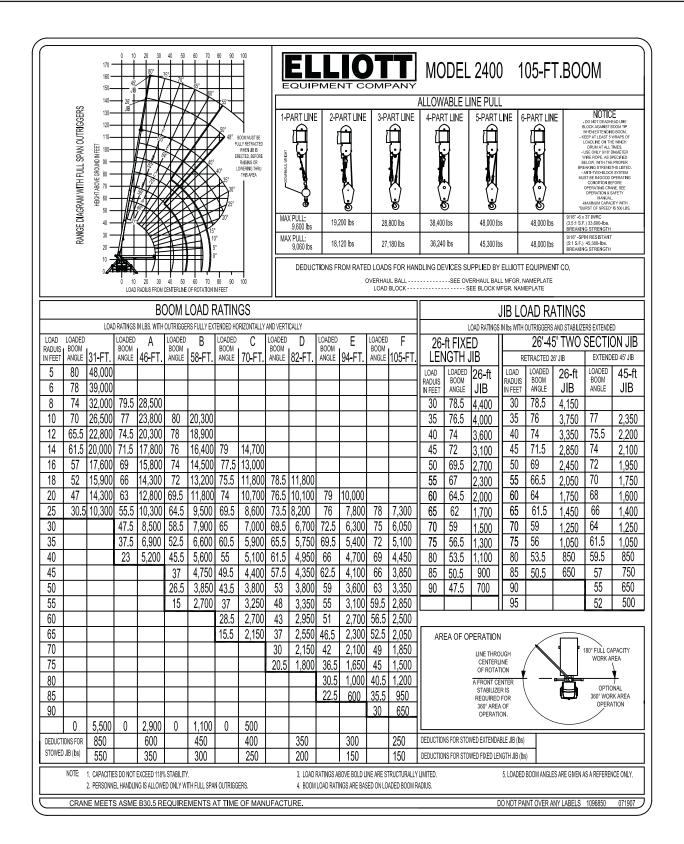
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TECHNICAL SPECIFICATIONS BOOMTRUCK 24/05



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.