

[INCH-POUND]
 A-A-60004
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 SUPERSEDING
 MIL-T-29218A(YD)
 29 August 1989

COMMERCIAL ITEM DESCRIPTION

TRUCK, LIFT, PLATFORM, GASOLINE-ENGINE-DRIVEN, TELESCOPING BOOM

The General Services Administration has authorized the use of this commercial item description for all Federal agencies.

1. **SCOPE.** This commercial item description (CID) covers self-propelled personnel, telescopic boom type, aerial work platforms (hereinafter referred to as the work platform). The work platform is used for various types of overhead construction and maintenance work.
2. **CLASSIFICATION.** The units are of the following types, as specified (see 7.2):

TYPE

- Type I - 40 foot (12.2 metre (m)) boom.
- Type II - 60 foot (18.3 m) boom.
- Type III - 80 foot (24.4 m) boom.
- Type IV - 90 foot (27.4 m) boom.
- Type V - 100 foot (30.5 m) boom.

3. SALIENT CHARACTERISTICS.

3.1 Description. The work platform shall be hydrostatic drive (see 3.10 and 7.2), gasoline-engine- or diesel-engine-driven, four wheels and two axles, two-wheel-driven type. The work platform shall consist of a telescopic boom, with a basket type enclosed platform. The platform shall be capable of rotating 360 degrees with a 500-pound (lb) 227 kilogram (kg)) rated work load at maximum boom reach, and a chassis. The work platform shall be provided with, but not limited to: a swing brake, chassis brakes, alternating power supply, two-wheel steering, horn, ground work area controls for all platform functions, and forward and reverse speeds.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data which may improve this document should be sent to: Commanding Officer (Code 15E2), Naval Construction Battalion Center, 1000 23rd Avenue, Port Hueneme, CA 93043-4301, by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

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3.2 Standard commercial product. The work platform shall, as a minimum, be in accordance with the requirements of this CID and shall be the manufacturer's standard commercial product. Additional or better features which are not specifically prohibited by this CID, but which are a part of the manufacturer's standard commercial product, shall be included in the work platform being furnished. A standard commercial product is a product which has been sold or is being currently offered for sale on the commercial market through advertisements or manufacturer's catalogs, or brochures, and represents the latest production model.

3.3 Interchangeability. All units of the same classification furnished with similar options under a specific contract shall be identical to the extent necessary to ensure interchangeability of component parts, assemblies, accessories, and spare parts.

3.4 Safety. An emergency engine shutdown shall be provided for the operator. An electric-driven pump shall be provided to allow emergency use of hydraulic system. All moving parts and all parts subject to high operational temperatures that are of such a nature or so located as to become a hazard to the operating personnel shall be insulated, enclosed, or guarded to the extent necessary to eliminate the hazard. When incorporated by the manufacturer's design, a manual descent valve shall be provided for lowering and retracting boom simultaneously and shall be in easy reach of the ground. All safety and warning devices shall comply with ANSI A92.5 requirements. An alarm shall be installed at the work platform which will be activated automatically when the machine base is more than 5 degrees out of level in any direction. Pilot-operated holding valves shall be provided in the lift cylinders to prevent uncontrolled descent in the event of hose or hydraulic failure.

3.5 Engine. The manufacturer's standard commercial, gasoline or diesel engine shall be furnished. The engine shall be complete with a 12-volt (V) starting and charging system. An air cleaner shall be provided. The power and speed rating of the engine shall be such that the operation of the work platform under any of the requirements or conditions specified herein will not be greater than the engine manufacturer's published maximum horsepower. A spark arresting muffler shall be provided. The muffler shall direct noise and exhaust fumes away from the operator, however, exhaust noise and fumes shall not effect or interfere with an operator at the ground control panel. The manufacturer's standard commercial storage battery normally furnished to make a complete electrical system shall be furnished. When specified (see 7.2), batteries furnished shall be dry charged and moisture sealed to prevent intrusion of atmospheric moisture. Electrolyte shall not be furnished.

3.6 Fuel tank. The fuel tank shall have sufficient capacity to operate the work platform for not less than eight hours.

3.7 Steering. The steering shall be of the two-wheel type and shall be controlled from the work platform.

3.8 Chassis brakes. The work platform shall be provided with automatic spring-applied, hydraulically released brakes on not less than two wheels. The brakes shall be designed to hold the work platform in the maximum grade for which the platform was designed to negotiate.

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3.9 Ground controls. A control panel shall be located at the base work platform for ground control operation for all powered functions of the work platform. Ground controls shall be provided for lift, telescopic boom swing, rotation of basket work area, engine off and start, platform/ground control selector switch, and platform leveling or tilting control.

3.10 Chassis drive. Unless otherwise specified (see 7.2), the chassis shall be hydrostatically driven. When specified (see 7.2), the chassis shall be hydraulically driven. The chassis shall be capable of forward and reverse movement. Type I work platforms shall be self-propelled up to 3 miles per hour (4.83 kilometre per hour (km/h) travel speed. Types II, III, IV, and V shall be self-propelled from 2.5 to 4 miles per hour (4.02 km/h to 6.44 km/h) travel speed.

3.11 Hydraulic system. The main pump shall have a filter and shall be engine driven with an operating pressure as specified by the manufacturer for the type work platform furnished.

3.12 Electrical system. When specified (see 7.2), an electrical system for work platform electrification shall be provided. An electrical materials shall bear the Underwriters Laboratories (UL) listing mark and be listed in the UL Electrical Construction Materials Directory. All electrical equipment and receptacles shall be connected to a 120V, 60 Hertz, 2-pole, 3-wire, ground, single phase power provided by the manufacturer's standard generator. All wiring and equipment shall be provided with over-current circuit breaker protection. All duplex receptacles shall be hospital grade. All distribution wiring shall be adequately supported and protected with grommets wherever passing through sheet metal, supports, or framework. All receptacles provided with the work platform shall be weatherproof and shall have ground-fault protection. A receptacle shall be provided in the work platform area.

3.13 Outriggers. Outriggers or powered extendible axles may be provided to meet the stability requirements specified herein.

3.14 Wheels and tires. The work platform shall be mounted on four wheels of the manufacturer's current standard type and size. The tires shall be pneumatic or polyurethane-filled, as specified (see 7.2). The tires shall have individual rated load capacities equal to the maximum tire loading imposed by the operation. When tube type tires are furnished, tubes shall be of heavy-duty type and shall be of proper size for tires.

3.15 Horn. The work platform shall be equipped with an electrical horn with push button located in the work platform. The horn shall be protected against moisture and adverse weather conditions.

3.16 Platform. The platform shall be hydraulically controlled and shall be elevated by a telescoping boom. The platform shall be automatically self-leveling and shall be able to rotate not less than 160 degrees. The platform shall contain all operating controls to allow the operator to perform all functions. These shall include work platform drive (forward, reverse movement, and braking), platform lift and lower, boom extension and retraction; 360 degrees continuous turntable swings (either direction), and start and stop engine. The platform area shall be provided

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with emergency shutdown devices, and deadman control that must be depressed before operator control can be activated.

3.17 Boom. The boom shall be of the telescoping type with a swing of 360 degrees. Rated work load shall be not greater than 500 lb (227 kg). Work loads are rated with work platform positioned on level ground and boom at maximum reach. The boom, when fully extended, shall be capable of reaching a platform height of 40 feet (12.2 m) for type I, 60 feet (18.3 m) for type II, 80 feet (24.4 m) for type III, 90 feet (27.4 m) for type IV, and 100 feet (30.5 m) for type V. The boom shall be provided with a swing brake and shall operate smoothly. The boom shall have 360 degrees continuous turntable swing in either direction. When the rated work load varies according to multiple configurations of the work platform, the manufacturer shall clearly describe these configurations, including the rated work load of each on the work platform.

3.18 Cleaning, treatment, and painting. Surfaces normally painted in good commercial practice shall be cleaned, treated, and painted as specified herein. Surfaces to be painted shall be cleaned and dried to ensure that they are free from contaminants such as oil, grease, welding slag and spatter, loose mill scale, water, dirt corrosion product, or any other contaminating substances. As soon as practicable after cleaning and before any corrosion product or other contamination can result, the surfaces shall be prepared or treated to ensure the adhesion of the coating system. The painting shall consist of at least one coat or primer and one finish coat of acrylic-based or polyurethane enamel. The primer shall be applied to a clean, dry surface as soon as practicable after cleaning and treating. Painting shall be with manufacturer's current materials according to manufacturer's current processes and the total dry film thickness shall be not less than 2.5 mils over the entire surface. The paint shall be free from runs, sags, orange peel, or other defects. The end item, allied equipment, and attachments shall be the same color.

3.19 Nameplate. A nameplate will be furnished by the contracting officer for each work platform. The contractor shall stamp all necessary data in the blank spaces provided for that purpose and securely affix it to each work platform in a conspicuous place with nonferrous metal screws, bolts, or rivets not less than 0.125-inch (3 millimetre (mm)) in diameter shall be used to affix the plate to the equipment.

3.20 Instruction plates. The unit shall be equipped with instructions plates suitably located, describing any special or important procedures to be followed in operating and servicing the equipment. Plates shall be of a material which will last and remain legible for the life of the equipment. Plates shall be securely affixed to the equipment with nonferrous screws or bolts or not less than 0.125-inch (3 mm) in diameter.

3.21 Identification marking. Identification shall be permanently and legibly marked directly on the unit or on a corrosion-resisting metal plate securely attached to the unit at the source of manufacture. Identification shall include the manufacturer's model and serial number, name and trademark to be readily identifiable to the manufacturer.

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3.22 Workmanship.

3.22.1 Steel fabrication. The steel used in fabrication shall be free from kinks, sharp bends, and other conditions which would be deleterious to the finished product. Manufacturing processes shall not reduce the strength of the steel to a value less than intended by the design.

Manufacturing processes shall be done neatly and accurately. All bends shall be made by controlled means to ensure uniformity of size and shape.

3.22.2 Castings. All castings shall be sound and free from patching, misplaced coring, warping, or any other defect which reduces the casting's ability to perform its intended function.

3.22.3 Bolted connections. Bolt holes shall be accurately punched or drilled and shall have the burrs removed. Washers or lockwashers shall be provided in accordance with good commercial practice, and all bolts, nuts, and screws shall be tight.

3.22.4 Riveted connections. Rivet holes shall be accurately punched or drilled and shall have the burrs removed. Rivets shall be driven with pressure tools and shall completely fill the holes. Rivet heads, when not countersunk or flattened, shall be of approved shape and uniform size for the same diameter or rivet. Rivet heads shall be full, neatly made, concentric with the rivet holes, and in full contact with the surface of the member.

3.22.5 Welding. Welding procedures shall be in accordance with a nationally recognized welding code. The surface of parts to be welded shall be free from rust, scale, paint, grease, or other foreign matter. Welds shall be of sufficient size and shape to develop the full strength of the parts connected by the welds. Welds shall transmit stress without permanent deformation or failure when the parts connected by the weld are subjected to proof and service loadings. Copies of welder qualification record shall be made available to authorized Government inspectors.

4. REGULATORY REQUIREMENTS.

4.1 Materials. The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR). Unless otherwise specified herein, all equipment, material, and articles incorporated in the work covered by this commercial item description are to be new and fabricated using materials produced from recovered materials to the maximum extent possible without jeopardizing the intended use. The term "recovered materials" means materials which have been collected or recovered from solid waste and reprocessed to become a source of raw materials, as opposed to virgin raw materials. Unless otherwise specified, none of the above shall be interpreted to mean that the use of used or rebuilt products are allowed under this commercial item description.

4.2 Metric products. Products manufactured to metric dimensions will be considered on an equal basis with those manufactured using inch-pound units, provided they fall within specified tolerances using conversion tables contained in the latest version of ASTM E 380, and all other requirements of this commercial item description including form, fit, and function are met. If a

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product is manufactured to metric dimensions and these dimensions exceed the tolerances specified in the inch-pound units, a request should be made to the contracting officer to determine if the product is acceptable. The contracting officer has the option of accepting or rejecting the product.

5. QUALITY ASSURANCE PROVISIONS.

5.1 Product conformance. The products provided shall meet the salient characteristics of this commercial item description, conform to the producer's own drawings, specifications, standards, and quality assurance practices, and be the same product offered for sale in the commercial market. The government reserves the right to require proof of such conformance.

6. PACKAGING. The preservation, packing, and marking shall be as specified in the contract or order.

7. NOTES.

7.1 Source of documents.

7.1.1 The Federal Acquisition Regulation (FAR) and Code of Regulations (CFR) may be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

7.1.2 ANSI Standards are available from the American National Standards Institute, 11 West 42nd Street, New York, NY 10036.

7.1.3 ASME Standards are available from the American Society of Mechanical Engineers, 345 East 47th Street, New York, NY 10017.

7.1.4 ASTM Standards are available from the American Society of Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

7.1.5 UL Electrical Construction Materials Directory is available from Underwriters Laboratories, Inc., 333 Pfingsten Road, Northbrook, IL 60062-2096.

7.2 Ordering data. Acquisition documents should specify the following:

- a. Title, number, and date of this CID.
- b. Type or work platform required (see 2.).
- c. When batteries furnished are to be shipped dry charged and moisture sealed (see 3.5).
- d. When a chassis is other than hydrostatically driven (see 3.10).
- e. When a hydraulic drive chassis is required (see 3.10).
- f. When an electrical system for electrification of work platform is required (see 3.12).
- g. Types of tires to be furnished (see 3.14).

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7.3 Supersession data. This CID replaces Military Specification MIL-T-29218A(YD), dated 29 August 1989.

7.4 Classification cross reference. Classifications used in this CID (see 2.) are identical to those found in superseded Military Specification MIL-T-29218A(YD).

7.5 Part Identification Number (PIN). The following part identification numbering procedure is for government purposes and does not constitute a requirement for the contractor. The PIN to be used for items acquired to this description are created as follows:

	AA60004	-	XXX
CID number	_____		_____
Type (see 2.)	_____		_____

7.6 Subject term (key word) listing.

Chassis
Electrical system
Work platform

MILITARY INTERESTS:

Custodians:

Army - AT
Navy - YD1
Air Force - 99

Review Activities:

Navy - SH
Air Force - 84
DLA - CS

CIVIL AGENCY COORDINATING ACTIVITY:

GSA-FSS

Preparing Activity:

Navy - YD1

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