

INCH – POUND

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SUPERSEDING
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COMMERCIAL ITEM DESCRIPTION

TRUCK, LIFT, FORK, ELECTRIC, NARROW AISLE REACH, STAND-UP OPERATOR,
3,000 POUNDS CAPACITY AT 24 INCH LOAD CENTER, 205 INCH MINIMUM LIFT

The General Services Administration has authorized the use of this Commercial Item Description (CID) for all federal agencies as a replacement for MIL-T-87998.

1. SCOPE.

1.1 Scope. This commercial item description covers the general requirements for a battery powered, industrial type, narrow aisle reach, stand-up operator forklift truck.

2. CLASSIFICATION.

2.1 Classification. The operator driven vehicle covered by this CID shall be commercially available and may be modified to the extent necessary to meet this description.

3. SALIENT CHARACTERISTICS.

3.1 Safety. The operator driven vehicle shall be capable of operation within the accuracies, limits, and specifications herein. The forklift shall comply with ANSI/ITSDF B56.1, OSHA, and all other applicable standards in effect at the time of manufacture. A means for securing the operator, conforming to ANSI/ITSDF B56.1, and restraint devices designed to ensure the operator's upper body remains entirely within the protection of the overhead guard in the event of tip-over shall be provided. Unless otherwise specified in the contract, the final color shall be yellow for safe operation in an indoor environment.

3.2 Environmental requirements. The forklift shall be capable of continuous operation as specified herein at any ambient temperature up to 120° F.

3.3 Maintainability. All maintenance and serving functions shall be capable of being performed using common hand tools.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any other data that may improve this document should be sent to 642 CBSG/GBEC, 460 Richard Ray Blvd, Suite 200, Robins AFB, GA 31098-1813. Since contact information can change, you may want to verify the currency of this address information using the ASSIST Online database at <https://assist.daps.dla.mil/online/>.

FSC 3930

A-A-58087B

3.4 Lubrication. Lubrication means shall be provided for all moving parts that require periodic lubrication.

3.5 Fluid level indicator. All fluid level indicators shall be located where they are accessible without danger of burns or injury to the operator. The indicators shall be in an open area, or covered by a hinged panel that can be opened and closed without the need for tools.

3.6 Hydraulic System. A pressure relief protection device is required along with pump(s), cylinders, control valves, filter(s), reservoir, hoses, and all other components necessary to make a complete hydraulic system(s).

3.7 Electric motors. Motors shall be industrial type. The insulation for motors shall be class B, F, or H as defined in NEMA standards.

3.8 Battery. The battery shall have adequate capacity to provide not less than 8.0 hours of continuous operation under normal industrial use. The battery mounted half connector shall be the "SB" type.

3.9 Forks. The fork and fork carrier shall conform to ANSI/ITSDF B56.1. Fork dimensions shall be 2.0 inches maximum thickness, 4.5 inches maximum width, and 42.0 (± 0.5) inches in length. Fork thickness shall not exceed 0.5 inch at the tip, and there shall be a taper on the underside of the forks of not less than 14 inches long.

3.10 Fork Positioner. Manually (operator) adjusted fork positioning shall be furnished. The forks shall have spacing of 15.0 inches (or less) when in most closed position, and 28.0 inches (or more) when in most spread position. These dimensions shall be measured to the outside edges of the forks.

3.11 Load Backrest. The load backrest, in conjunction with the forks and carriage, shall provide a vertical rear load guard of at least 48 inches high, measured from the load horizontally carrying surfaces of the forks.

3.12 Fork extension. Forks and load backrest shall be able to extend forward at least 23 inches from the rearmost position.

3.13 Steering. Power steering shall be furnished.

3.14 Service Brakes. Service brakes conforming to ANSI/ITSDF B56.1 shall be furnished.

3.15 Parking Brakes. Parking brakes shall conform to ANSI/ITSDF B56.1.

3.16 Operator's overhead guard. The guard shall be in accordance with ANSI/ITSDF B56.1, including the falling-object-protective-structure (FOPS) requirements. Overhead guard height from ground to top of guard shall be 95.0 inches maximum.

3.17 Horn. A horn shall be furnished, with the horn actuator located within reach of the operator.

A-A-58087B

3.18 Controls and instrumentation markings. All controls and instrumentation shall be provided with position markings conforming to ISO 3287:1999.

3.19 Speed and direction controls. Speed and direction controls shall be in accordance with ANSI/ITSDF B56.1. All load motion controls shall be self-centering, that is they shall return to the neutral position when released.

3.20 Indicators. The truck shall be equipped with a battery discharge indicator and an hour meter, both visible to the operator.

3.21 External lights. There shall be at least two sealed beam, 25 watts minimum, floodlights. One shall be facing forward, mounted on the upright or overhead guard, and one mounted in the rear, facing rearward.

3.22 Painting. The forklift shall be primed and painted using standard commercial practices. The final color shall be yellow, unless otherwise specified.

3.23 Walkway coating. Floor plates and step surfaces shall be coated with a non-slip coating compound or be furnished with a non-slip metal surface in accordance with ANSI/ITSDF B56.1.

3.24 Electromagnetic interference (EMI) suppression. The forklift shall comply with the EMI requirements shown in table I.

Table I. Electromagnetic Interference (EMI)

Name	Description	Parameters
SAE J551-1	Compatibility	N/A
CISPR 12 & CISPR 25	Emissions	(Frequency Range: 30 to 1000 MHz)
SAE J551-11	Susceptibility	(Frequency Range: 100 kHz to 18 GHz 20 V/m 100 kHz to 200 MHz 50 V/m (above 200 MHz))

3.25 Information aids. All stencils, decals, plates, or other similar items, that are provided on the manufacturer's standard product shall be included on the forklift. This shall include, but not be limited to: rated capacity, all cautions and warnings, and all references to safety related items.

3.26 Tie-down provisions. There shall be permanently installed tie-down devices that enable the truck to be tied-down to the floor of the transportation media. All devices shall be capable of accepting a chain and hook with an outside diameter of 3.0 inches and shall have a structural safety factor of at least 2.0 to 1, based on static load. The notation "TIE DOWN" shall be stenciled, in black letters, near each tie-down device.

3.27 Performance. The truck shall be capable of meeting the following performance requirements:

- (1) Rated load. Capability to safely handle the rated load, defined as a 3,000 pound, 48

A-A-58087B

inch-per-side cube, with the center of gravity at the center of the cube. The truck shall be able to safely handle this rated load at all lift heights that it is capable of attaining.

- (2) Load lifting speed: Shall be capable of raising rated load at least 30 feet per minute with rated load on forks.
- (3) Load lowering speed: With rated load of forks and not more than 80 feet per minute. With unloaded forks, not less than 40 feet per minute.
- (4) Right angle turn: The truck with rated load shall be capable to backing through a turn in either direction between two parallel walls not more than 130 inches apart.
- (5) Travel speed: Shall be capable of traveling at least four miles per hour, in both forward and reverse directions, while carrying rated load on the forks.
- (6) Service brake. With rated load, the truck shall be capable of meeting the stopping distance requirements of ANSI/ITSDF B56.1.
- (7) Parking brake. The parking brake shall be capable of holding the truck with rated load in a 15 percent grade in both forward and reverse directions.
- (8) Slope ascension. With rated load on the forks it shall be able to accelerate up a 15 percent slope from a dead stop in the forward direction.
- (9) Upright tilt. With no load on the forks, the mast shall have a minimum forward tilt of two degrees and a minimum rearward tilt of four degrees. Positive means shall be furnished to prevent cavitation of the tilt cylinders.
- (10) Collapsed mast height. Lowest upright height shall be 95.0 inches maximum with no load on the forks.
- (11) Lift height: The minimum lift height, with truck bearing rated capacity load and the uprights fully extended and vertical, shall be 205 inches.
- (12) Free lift height. With no load on the forks and the mast vertical, the vertical distance from the ground to the horizontal load carrying surfaces of the forks, without increasing the specified collapsed mast height, shall be not less than 40 inches.
- (13) Drift of load. With hydraulic fluid at normal operating temperature, lift assembly shall hold rated load at maximum lift height for at least 10.0 minutes with not more than 1.00 inch of vertical drift.
- (14) Stability. The forklift shall meet the ANSI/ITSDF B56.1 “forward stacking”, “forward travel”, “lateral stacking”, and “lateral travel” stability requirements.
- (15) Tire loading. Under all fork loading conditions, form empty forks up to rated load,

A-A-58087B

the weight on any tire shall not exceed the maximum allowed by the Tire and Rim Association Yearbook.

3.28 Identification Plate. A corrosion resistant identification plate shall be permanently installed at an easily accessible place on the truck. It shall contain the following:

NOMENCLATURE:

MANUFACTURE'S NAME:

MANUFACTURER'S ADDRESS:

MANUFACTURER'S SERVICE PHONE NUMBER:

MANUFACTURER'S MODEL NUMBER:

MANUFACTURER'S SERIAL NUMBER:

DATE OF MANUFACTURER:

CONTRACT NUMBER:

NATIONAL STOCK NUMBER:

REGISTRATION NUMBER:

4. REGULATORY REQUIREMENTS

4.1 Recycled, recovered, or environmentally preferable materials. Recycled, recovered, or environmentally preferable materials should be used to the maximum extent possible provided that the material meets or exceeds the operational and maintenance requirements, and promotes economically advantageous life cycle costs. 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). However, used, rebuilt, or remanufactured components, pieces, and parts shall not be incorporated.

4.2 Green Procurement Program. Green Procurement Program. Green Procurement Program (GPP) is a mandatory federal acquisition program that focuses on the purchase and use of environmentally preferable products and services. GPP requirements apply to all acquisitions using appropriated funds, including services and new requirements. FAR 23.404(b) applies and states the GPP requires 100% of EPA designated product purchase that are included in the Comprehensive Procurement Guidelines list that contains recovered materials, unless the item cannot be acquired: a) competitively within a reasonable timeframe; b) meet appropriate performance standards, or c) at a reasonable price. The prime contractor is responsible for ensuring that all subcontractors comply with this requirement.

5. PRODUCT CONFORMANCE PROVISIONS

5.1 Product conformance. The products provided shall conform to the producer's own drawings, specifications, standards, and quality assurance practices and shall be the same product offered for sale in the commercial market. The Government reserves the right to require proof of such conformance prior to first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

5.2 Market Acceptability. The following market acceptability criteria are necessary to

A-A-58087B

document the quality of the product to be provided under this CID.

5.2.1 Commercial. The vehicle furnished shall be, as of the date of award, the latest model (with minor modifications, as that term is defined in DoD FAR Supplement 252.211-7012, Paragraph K-85 of the solicitation) of an established product previously produced and sold in substantial commercial quantities (exceeding the criteria at FAR 15.804-3(f)(2)(ii)(A)) for at least three years. The vehicle furnished, or earlier models of it, absent minor modifications, shall have routinely been supported with spare/repair parts which were produced or sold in the normal course of business. At the time of delivery, the contractor shall furnish the Administrative Contracting Officer with verification of compliance with these requirements. Offers shall provide, as part of their proposals, the following information on the vehicle (or its earlier models) being offered as a commercial item:

- (1) Total sales to the U.S. Government or to contractors for U.S. Government use during the three years.
- (2) Total sales of the item to the general public during the three years.
- (3) Length of time the item has been sold in the commercial market place.

6. PACKAGING

6.1 Packaging. Preservation, packing, and marking shall be as specified in the contract. Unless otherwise specified in the contract, the items shall be packaged according to normal commercial practice and packed to assure acceptance by common carrier and provide product protection against loss and damage during multiple shipment, handling, and storage. Shipping containers shall be properly marked and in compliance with both national and uniform motor freight classifications.

7. NOTES

7.1 Intended use. The vehicle is intended for use in handling cargo in and around warehouses, loading platforms, and docks; on paved or other hard surfaces.

7.2 Source of documents.

Military Specifications, Standards, and Handbooks referenced herein may be obtained online at <https://assist.daps.dla.mil/online> or from the Standardization Document Order Desk, Building 4, Section D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

The Society of Automotive Engineers (SAE) documents may be obtained online at <http://www.sae.org/> or from SAE, 400 Commonwealth Drive, Warrendale, PA 15096.

Industrial Truck Standards Development Foundation (ITSDF) documents may be obtained online at <http://www.itsdf.org/>.

A-A-58087B

Occupational Safety and Health Association (OSHA) documents may be obtained online at <http://www.osha.gov/> .

Comité International Spécial des Perturbations Radioélectriques (CISPR) document may be obtained online at http://www.iec.ch/zone/emc/emc_cis.htm.

The International Organization for Standards (ISO) documents may be obtained online at <http://www.iso.org/> .

FAR and DFARS may be obtained from the Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954. Electronic copies of the FAR may be obtained from <https://www.acquisition.gov/far/> . Electronic copies of the DFARS may be obtained from <http://www.acq.osd.mil/dpap/dars/dfars/index.htm> .

ANSI/EIA standards may be obtained at <http://www.ansi.org> or <http://www.eia.org> or available from the Electronics Industry Association, Engineering Department, 2001 Pennsylvania Ave., N.W., Washington, D.C., 20006. Phone: 1-800-854-7179 (USA and Canada).

National Electrical Manufacturers Association (NEMA) standards may be obtained from National Electrical Manufacturers Association, 1300 North 17th Street, Suite 1752, Rosslyn, Virginia 22209. Electronic copies of NEMA standards may be obtained from <http://www.nema.org/stds/> .

7.3 Key Words.

- Battery powered
- Class B motor
- Class F motor
- Class H motor

A-A-58087B

MILITARY INTERESTS:

Civil Agency and
Coordinating Activity:
GSA-FSS

Custodians:
Air Force – 84
Army – AT
Navy – SA

Preparing Activity:
Air Force – 84

Reviewers:
Air Force – 99
DLA - IS

Agent:
Air Force – 99

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