

INCH-POUND

A-A-58083B  
 April 22, 2019  
 SUPERSEDING  
 A-A-58083A  
 January 08, 2007

## COMMERCIAL ITEM DESCRIPTION

### TRUCK, LIFT, FORK, DIESEL-ENGINE-DRIVEN, PNEUMATIC-TIRED, 4-WHEEL DRIVE, ROUGH TERRAIN, 6,000 POUNDS CAPACITY AT 24 INCH LOAD CENTER

The General Services Administration has authorized the use of this Commercial Item Description (CID) for all federal agencies.

1. **SCOPE.** This CID covers the general requirements for a 114 inch lift height, diesel engine driven, rough terrain, four wheel drive, pneumatic tired, 6,000 pound at 24 inch load-center capacity, forklift truck. It will be used for handling cargo on paved, mud, or snow covered surfaces.

#### 2. SALIENT CHARACTERISTICS

2.1 Safety. The forklift shall comply with ANSI/ITSDF B56.6 – Safety Standards for Rough Terrain Forklift Trucks, and OSHA standards in effect at the time of manufacture. A seatbelt conforming to SAE J386 – Operator Restraint System for Off-Road Work Machines, a restraint device 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.

2.2 Environmental requirements. The engine shall start without preheating within 5 minutes in any ambient temperature, and with the truck stabilized at ambient temperature, from 0 to 120 degrees F. The forklift shall be capable of continuous operation as specified herein at any ambient temperature up to 120 degrees F.

2.3 Engine. A liquid cooled diesel engine shall be provided. The engine shall be capable of operating on JP-8 fuel conforming to MIL-DTL-83133 – Turbine Fuel, Aviation, Kerosene Type, JP-8 (NATO F-34), NATO F-35, and JP-8+100 (NATO F-37), during normal commercial or military situations, without detrimental effect on the engine.

2.4 Fuel system. All necessary filters, water separators, and other components required for diesel fuel operation shall be provided. It shall have a fuel tank of sufficient capacity to allow at least 8 hours of continuous operation.

2.5 Starting system. The engine starter motor shall not be capable of energizing while the engine is running or while the transmission is in any forward or reverse gear.

2.6 Transmission. A torque converter and a power shift type of transmission shall be furnished. The transmission shall provide for positive inching control, or declutch control, that permits lifting of rated load at maximum lifting speed while the transmission control is in either forward or reverse direction, without vehicle movement. This inching/declutch control shall also apply the service brakes.

Beneficial comments, recommendations, additions, deletions, clarifications, and any data which may improve this document should be sent to:  
 U.S. AIR FORCE, AFLCMC/WN-SEV, 295 Byron Street, Robins AFB, GA 31098  
 or emailed to [SPEC99@us.af.mil](mailto:SPEC99@us.af.mil) .

AMSC N/A

FSC 3930

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2.7 Drive system. The truck shall have all wheels driven (4-wheel drive).

2.8 Hydraulic system. A pressure relief protection device shall be provided along with pump(s), cylinders, control valves, filter(s), reservoir, hoses, and other components necessary to make a complete hydraulic system.

2.9 Fork visibility. With no load on the forks, the seated operator shall be able to see at least one fork tip at all lift heights and fork positions.

2.10 Forks. Fork dimensions shall be 2.60 inches maximum thickness, 5.06 inch maximum width, and 42.0 (+ or - 0.5 inch) long. Fork thickness at the tip shall be not more than 0.5 inch, and there shall be a taper on the underside of the forks of not less than 14 inches in length.

2.11 Fork positioner. A hydraulically powered adjustable fork positioner shall be furnished. The forks shall have spacing of 20.0 inches (or less) when in most closed position, and 69.0 inches (or more) when in most spread position. These dimensions shall be measured to the outside edges of the forks.

2.12 Side shift. Hydraulically powered side shifting shall be furnished. It shall be controlled by seated operator, with at least 4.0 inches side shift each side of center (8.0 inches minimum total travel) with rated load on the forks.

2.13 Fork oscillation. When specified ([see 6.3](#)), hydraulically powered oscillation of the forks shall be furnished. The oscillation shall not be less than 6.0 degrees clockwise and 6.0 degrees counterclockwise from horizontal, for a total oscillation of 12.0 degrees. This oscillation shall occur at all side shift positions that the forklift is capable of achieving. With rated load on the forks, the time to oscillate the total 12 degrees shall be not more than 7 seconds, with the engine operating at idle speed.

2.14 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 horizontal carrying surfaces of the forks.

2.15 Steering. Power steering shall be furnished. Emergency steering in accordance with ISO 5010 – Earth-moving Machinery – Steering Requirements, shall be provided.

2.16 Service brakes. Power assisted service brakes shall be furnished. They shall conform to the performance requirements of ANSI/ITSDF B56.6, except the maximum brake pedal force during stopping distance and drawbar drag tests shall be not more than 80 pounds.

2.17 Parking brake. The parking brake shall conform to ANSI/ITSDF B56.6.

2.18 Electrical system. All components necessary to make a complete electrical system, including the capability to charge the battery when the engine is operating, shall be furnished.

2.19 Instruments. The instruments, gauges or warning indicator lights that are on the manufacturer's standard commercial model shall be furnished. In addition, an unlighted hour meter capable of totaling at least 9999 hours shall be included.

2.20 External lights. Minimum of two floodlights shall be furnished. One in front, facing forward, and one mounted in the rear, facing rearward.

2.21 Taillight. One combination stoplight and taillight shall be provided.

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

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2.23 Ground clearance. The ground clearance of the truck with rated load, as defined in ISO 6746-1 – Earth-moving Machinery – Definitions of Dimensions, shall be not less than 12.0 inches. The truck both with and without rated load, shall be capable of traveling from a horizontal surface, up a 30 degree ramp, and unto another horizontal surface with no contact, except the tires.

2.24 Operator's overhead guard. An overhead guard shall be provided. The guard shall be a roll-over-protective structure (ROPS) and falling-object-protective-structure (FOPS) conforming to ISO 3471 – Earth-moving Machinery – Roll-Over Protective Structures and ISO 3449 – Earth-moving Machinery – Falling-Object Protective Structures. The clearance from operator's seat to underside of the guard shall be in accordance with ANSI/ITSDF B56.6. Maximum overall ROPS and FOPS height shall be 100.0 inches.

2.25 Cab. When specified ([see 6.3](#)), a cab shall be furnished. It shall have ROPS and FOPS capability in accordance with paragraph 2.24. It shall have two opening doors, or one door and one window that meet the emergency exit requirements of SAE J185 – Access Systems for Off-Road Machines, and at least one fan for ventilation. The door(s) shall be capable of being securely retained when in the open position. There shall be sufficient window area to permit at least 250 degrees of horizontal visibility by the seated operator. The clearance from the operator's seat to the underside of the cab shall be in accordance with ANSI/ITSDF B56.6. The most heavy duty heater and defroster supplied on the manufacturer's standard forklift shall be provided. When specified ([see 6.3](#)), the forklift shall be equipped with cab air conditioning.

2.26 Painting. The forklift shall be primed and painted using standard commercial practices unless otherwise specified by the Procuring Activity ([see 6.3](#)). Unless otherwise specified ([see 6.3](#)), the final color shall be contractor's commercial color.

2.26.1 Green. When specified ([see 6.3](#)), the final paint shall be Forest Green, color number 24052 of SAE AMS-STD-595 or as specified by the Procuring Activity.

2.26.2 Desert sand. When specified ([see 6.3](#)), the final paint shall be no-gloss tan, color number 30313 of SAE AMS-STD-595 or as specified by the Procuring Activity.

2.27 Walkway coating. Step surfaces shall be made of, or covered with, a non-slip material.

2.28 Lifting and tie-down provisions. There shall be permanently installed lifting devices that enable the truck to be lifted in its normal travel position, and 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 "LIFT HERE" or "TIE DOWN" shall be stenciled, in black letters, near each lifting and tie-down device as referenced in MIL-STD-209.

2.29 Marking. All stencils, decals, plates, etc. normally provided on the manufacturer's standard forklift shall be included. This shall include, as a minimum, the forklift's capacity in pounds, and all information, cautions and warnings normally provided.

2.30 Identification plate. The successful bidder shall provide a Vehicle Data Plate on each and every vehicle delivered in accordance with MIL-HDBK-1223 and with the addition of two new fields "ship to" and "mark for." The data plate shall be permanently attached to the vehicle under the hood, if possible. If not, place inside the door or in the glove box. The following information, at a minimum, shall be included on the data plate:

- NOMENCLATURE \_\_\_\_\_
- MAKE AND MODEL \_\_\_\_\_
- MANUFACTURER'S SERIAL NUMBER (VIN) \_\_\_\_\_
- REGISTRATION NUMBER (Provided to GSA upon contract award) \_\_\_\_\_
- NSN (ASSET) NUMBER \_\_\_\_\_

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- VEHICLE CURB WEIGHT \_\_\_\_\_ LBS
- PAYLOAD, MAXIMUM \_\_\_\_\_ LBS
- GROSS WEIGHT, MAXIMUM \_\_\_\_\_ LBS
- GROSS WEIGHT, COMBINED MAXIMUM \_\_\_\_\_ LBS
- DATE OF DELIVERY \_\_\_\_\_
- WARRANTY \_\_\_\_\_ MO \_\_\_\_\_ MILES
- CONTRACT NUMBER \_\_\_\_\_
- SHIP TO \_\_\_\_\_ MARK FOR \_\_\_\_\_
- US PROPERTY \_\_\_\_\_

2.31 Axle spacing. Axle spacing for the truck shall not be less than 96 inches.

2.32 Tires. The tires shall be pneumatic, off road type, and all tires shall be the same size, type and tread pattern. Tire loadings shall not exceed those specified in the Tire and Rim Association Yearbook.

2.33 Wheel guards. Wheel guards shall be provided on all wheels to prevent the operator from being hit with material thrown radially from the tires.

2.34 Width. The width of the truck, as defined in ISO 6746-1, including tire bulge at manufacturer's recommended tire pressure, shall be not more than 102 inches, even with the forks fully side shifted.

2.35 Towing devices. At least two devices to allow the truck to be towed from the rear shall be provided. The devices shall be capable of accepting common chains and hooks of 3 inches in diameter. The devices shall withstand a force of at least 3 times the gross vehicle weight. The forklift shall be capable of being towed at a speed of not less than 15 miles per hour, for a distance of at least three miles, with no damage to any components of the truck.

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

(1) Capability to safely handle a 6,000 pound, 48 inch per side cube with the center of gravity at the center of the cube. This shall be defined, and referred to in this document, as the rated load. The forklift shall be able to safely handle this rated load at all lift heights and fork side shift positions that it is capable of attaining.

(2) Load lifting speed: Shall be capable of raising rated load at a speed of at least 55 feet per minute.

(3) Load lowering speed: Not more than 80 feet per minute with rated load of forks and not less than 30 feet per minute with no load on the forks.

(4) Curb circle clearance. The curb circle clearance, as defined in SAE J695 shall be 34.5 feet maximum.

(5) Travel speed: 12 miles per hour minimum, in both forward and reverse, while carrying rated load on the forks.

(6) Slope ascension: With the truck facing up the slope and with rated load on the forks, it shall be able to accelerate up a 30 degree slope from a dead stop.

(7) Upright tilt: With no load on the truck, the forks shall have at least 20.0 degrees forward tilt, and at least 20.0 degrees of rear tilt.

(8) Side slope operation. The truck shall be capable of being driven in a full circle on a 20 percent slope, both with and without rated load on the forks. This shall be accomplished at maximum steering angle, in both directions, without any tire leaving the ground.

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(9) Maximum fork lift height. When measured from ground to top surfaces of the forks, the maximum fork lift height should be at least 114.0 inches with rated load on forks and forks being horizontal.

(10) Low engagement height: With no load on the forks and the forks horizontal, the upper surfaces of the forks shall be capable of lowering at least 6.0 inches below ground level.

(11) Drift of load. With hydraulic fluid at ambient temperature, lift assembly shall hold rated load at maximum lift height for at least 10.0 minutes with not more than 1-3/4 inch of vertical drift, and not more than 1.0 degree of rotational drift.

(12) Stability. The forklift shall meet the ANSI/ITSDF B56.6 "forward stacking", "forward travel", "lateral stacking", and "lateral travel" stability requirements.

(13) Noise limits. The maximum allowable noise level shall not exceed 84dB(A) at the operator's ear. If the noise level at the operator's ear is between 85 to 92dB(A), a permanent warning decal or placard shall be installed inside the cab clearly visible to the operator. Noise level shall not exceed 92dB(A).

(14) Electromagnetic radiation. The forklift shall not exceed the limits of electromagnetic radiation specified in MIL-STD-461 RE 102 and RS 103.

(15) Lowest upright height (collapsed mast height): The dimension from ground to top surface of the uprights, with uprights vertical, shall not exceed 100.0 inches maximum with no load on the forks.

### 2.37 Winterization.

2.37.1 Type A winterization. When specified ([see 6.3](#)), the truck shall be furnished with Type A winterization that shall protect to -65 degrees F and shall consist of the following:

- a. Power plant heaters. Engine coolant, engine oil and battery heaters shall be provided. All heaters shall operate on 110 volt, alternating current. A three wire, 25 feet long weatherproof cable of adequate capacity for all heaters being used simultaneously shall be provided. A stowage place shall be provided on the truck to keep the cable when not in use. The heaters shall be as follows:
  1. The coolant heater shall be installed in the engine block or lower coolant inlet hose. A coolant circulating pump, driven by a 110 volt alternating current motor shall be provided when a coolant inlet hose heater is furnished. The heater shall have adequate capacity to maintain engine coolant at a temperature of 10 degrees F in an ambient temperature of -65 degrees F. It shall be controlled to limit engine coolant to not more than 150 degrees F.
  2. An engine oil heater with adequate capacity to maintain engine oil at a temperature of at least +10 degrees F in an ambient temperature of -65 degrees F shall be furnished. It shall be controlled to limit engine oil temperature to not more than 150 degrees F.
  3. A battery heater shall be provided. It shall have adequate capacity to maintain battery electrolyte at a temperature of at least +10 degrees F in an ambient temperature of -65 degrees F, and shall have a thermostat to limit temperature of the electrolyte to not more than +80 degrees F.
- b. Cab. The cab shall meet the requirements of 2.25, and shall also contain thermal insulation, if necessary, to meet the heating requirements of 2.37.1.c.

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- c. Heater and defroster. The heater shall be of sufficient capacity to maintain a temperature of +40 degrees F at cab floor level in an ambient temperature of -40 degrees F.
- d. Cold starting aid. A measured shot ether system or glow plug(s) shall be provided to assist in engine cold temperature starting.
- e. Antifreeze. Engine coolant shall be protected to -65 degrees F.

2.37.2 Type C winterization. When specified ([see 6.3](#)), the truck shall be furnished with Type C winterization that shall protect to -25 degrees F and shall consist of the following:

- a. Starting aid. Glow plug(s) or a measure shot ether injection system shall be furnished.
- b. Cab. The cab shall meet the requirements of 2.25, and shall also contain thermal insulation, if necessary, to meet the heating requirements of 2.37.2.c.
- c. Cab heater and defroster. The heater shall have sufficient capacity to maintain a temperature of at least +40 degrees F at cab floor level in an ambient temperature of -20 degrees F.
- d. Antifreeze. Engine coolant shall be protected to -25 degrees F with antifreeze.

2.38 Backup alarm. The truck shall be equipped with a backup alarm.

2.39 Odometer. When specified ([see 6.3](#)), the truck shall be equipped with an odometer. The ordering data shall specify either metric or English unit of measure.

2.40 Fire extinguisher. A commercial fire extinguisher shall be mounted on the truck in an easily accessible location. The fire extinguisher shall be a minimum 2-1/2 pound capacity ABC type, or equivalent. The fire extinguisher shall be UL listed.

2.41 Air transportability. The forklift shall be designed for air transport in C-130, C-5 and C-17 aircraft, in accordance with MIL-STD-1791. The forklift shall be capable of being driven on and off the aircraft and shall not exceed maximum axle weight requirements without removal of any component of the vehicle. The forklift shall be furnished with sufficient tie-down provisions for securing the vehicle for air transport. All tie-down locations shall be properly marked and maximum capacity indicated ([see 2.28](#)). The center of gravity (CG) of the forklift shall be marked on both sides of the vehicle. The manuals shall list the dimension from the front axle rearward to the CG.

### 3. REGULATORY REQUIREMENTS

3.1 Recycled, recovered, or environmentally preferable materials. The offer/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 in the forklift.

3.2 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.

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#### 4. PRODUCT CONFORMANCE PROVISIONS

4.1 Contractor certification. The contractor shall certify and maintain substantiating evidence that the product offered meets the salient characteristics of this CID, and that the product conforms to the producer's own drawings, specifications, standards, and quality assurance practices. The Government reserves the right to require proof of such conformance prior to first delivery and therefore as may be otherwise provided for under the provisions of the contract.

4.2 Market acceptability.

4.2.1 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 must have been sold to the government or commercial market. This product must have been offered for at least two 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 (ACO) 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 sale 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.

(4) Other pertinent information necessary to determine that the item is an established commercial item.

#### 5. PACKAGING

5.1 Preservation, Packing, and Marking. Preservation, packing and marking shall be as specified in the contract or order. Unless otherwise specified ([see 6.3](#)), the forklift 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.

#### 6. NOTES

6.1 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.

6.2 Source of documents.

6.2.1 Military Specifications, Standards, and Handbooks referenced herein may be obtained online at <http://quicksearch.dla.mil/> or from the DLA Document Services, Building 4/D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

6.2.2 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.

6.2.3 Industrial Truck Standards Development Foundation (ITSDF) documents may be obtained online at <http://www.itsdf.org/> or from ITSDF, Suite 460, 1750 K Street NW, Washington, DC 20006.

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6.2.4 Occupational Safety and Health Association (OSHA) documents may be obtained online at <http://www.osha.gov/> or from OSHA, 200 Constitution Ave., Washington, DC 20210.

6.2.5 Federal Acquisition Regulation (FAR) references may be obtained online at <https://www.acquisition.gov/far/> or from the Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954.

6.2.6 International Organization for Standardization (ISO) standards can be obtained online at <http://www.iso.org/> or from ISO, 1214 Vernier, Geneva, Switzerland.

6.2.7 The Tire and Rim Association (TRA) standards can be obtained online at <http://www.us.tra.org/> or from TRA, 175 Montrose West Ave., Suite 150, Copley, OH 44321.

6.3 Ordering data. When specified the following shall be furnished:

- a. Fork oscillation ([see 2.13](#)).
- b. Cab ([see 2.25](#)).
- c. Final color other than commercial color ([see 2.26](#)).
- d. Winterization ([see 2.37](#)).
- e. Odometer ([see 2.39](#)).

6.4 Subject term (key word) listing.

Air-filled-Tired  
Diesel-powered  
Lift height, 114 inch's  
Uneven terrain

6.5 Changes from previous issue. The margins of this CID are marked with vertical lines to indicate where changes from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the previous issue.



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**Concluding material:**

Custodians:

Army - AT  
Navy - SA  
Air Force - 184

Preparing Activity:

Air Force - 184

Reviewer:

DLA - CQ

Agent:

Air Force – 99  
(Project 3930-2018-003)

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil/> .