[INCH-POUND]
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28 June 96

COMMERCIAL ITEM DESCRIPTION

TRUCK, LIFT, FORK, ELECTRIC, SIT DOWN, SOLID TIRES, 6,000 POUND CAPACITY AT 24 INCH LOAD CENTER, 180 INCH MINIMUM LIFT HEIGHT

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

1. SCOPE. This commercial item description covers the general requirements for an electric, front wheel drive, rear wheel steer, sit down operator, solid tired, 6,000 pound at 24 inch load center capacity, forklift truck. It shall be Type EE, unless otherwise specified as Type E, in accordance with ANSI/UL 583. It shall be capable of handling cargo in and around warehouses, loading platforms, and docks; on paved or other hard surfaces.

2. SALIENT CHARACTERISTICS.

2.1 Safety. The forklift shall comply with ASME/ANSI B56.1, ANSI/UL 583, and OSHA standards in effect at the time of manufacture. A seatbelt conforming to SAE J386, 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.

2.2 Battery. The battery shall have adequate capacity to provide not less than 7.0 hours of continuous operation under normal industrial use. The battery mounted half connector shall be the "SB" type.

2.3 Hydraulic system(s). 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).

2.4 Uprights and carriage. 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.

2.5 Fork positioner. The forks shall be capable of being laterally positioned manually without the need of tools. The fork spacing shall be not more than 14 inches when the forks are at their most closed position, and not less than 40 inches when the forks are at their most spread position. These dimensions shall be measured to the outside edges of the forks.

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and any data which may improve this document should be sent to:
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AMSC N/A FSC 3930

2.6 Forks. Fork dimensions shall be 2.06 inches maximum thickness x 6.06 inches maximum width x 40.0 (+ or - 1.0) inches in length.

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

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

2.9 Steering. Power steering shall be furnished.

2.10 Service brakes. Service brakes conforming to ASME/ANSI B56.1 shall be furnished.

2.11 Parking brake. Parking brake shall conform to ASME/ANSI B56.1.

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

2.13 Controls. All controls shall be in accordance with ASME/ANSI B56.1. All load motion controls shall be self centering, that is they shall return to the neutral position when released.

2.14 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.

2.15 Taillight. One combination stoplight and taillight shall be installed.

2.16 Horn. The horn button shall be mounted in the center of the steering wheel.

2.17 Operator's overhead guard. The guard shall be in accordance with ASME/ANSI B56.1, including the falling-object-protective-structure (FOPS) requirements. Overhead guard height from ground to top of guard shall be 91 inches maximum.

2.18 Towing. A pin type towing device shall be recessed in the center rear of the truck.

2.19 Electromagnetic interference (EMI) suppression. The truck shall control EMI to meet the requirements of SAE J551.

2.20 Painting. The forklift shall be primed and painted using standard commercial practices. Unless otherwise specified in the contract, the final color shall be yellow. All stenciled words, symbols or other markings (for example "6000 POUND CAPACITY" or "LIFT HERE"), shall be black.

2.21 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.

2.22 Slinging provisions. Slinging devices that provide a means of attaching a shackle or ring to the forklift for safe lifting shall be furnished to allow the truck to be lifted by a crane in its normal operating position. Each device shall be not more than 1.0 inch thick. The opening in the device shall be at least 3.0 inches in diameter. Each slinging device, when loaded as the truck will be picked up, shall withstand a load of 2.3 times the static load on each device. The words "LIFT HERE" shall be stenciled near each slinging device. If possible, the slinging devices may also be used as the tiedown devices (see paragraph 2.23).

2.23 Tiedown provisions. Tiedown devices shall be furnished that withstand the following loads: 3.0 times the unloaded truck weight in the forward and aft directions, 2.0 times the unloaded truck weight in the downward direction, and 1.5 times the unloaded truck weight in both lateral directions. Each device shall withstand at least 1.5 times the loads in the previous sentence without breaking or rupturing. The devices shall be not more than 1.0 inch thick, and the opening in the device shall be at least 3.0 inches in diameter. The word "TIEDOWN" shall be stenciled near each tiedown device. If possible, the tiedown devices may also be used as the slinging devices (see paragraph 2.22).

2.24 Performance.

(1) Shall be capable of safely handling a rated load of 6,000 pound, 48 inches per side cube, with the center of gravity at the center of the cube. It shall be able to safely handle this rated load at all lift heights and fork side shift that the forklift is capable of attaining.

(2) Lifting speed. Shall be at least 18 feet per minute with rated load on the forks.

(3) Lowering speed. Shall be not less than 27, nor more than 80 feet per minute, with rated load on the forks.

(4) Right angle turn. With rated load on the forks and forklift positioned perpendicular to a wall, and with the front of the load against the wall, the truck shall be able to back up and make a complete right angle turn (ending up parallel to the wall) within 156 inches.

(5) Travel speed. Shall be capable of traveling at least 5 miles per hour, in both forward and reverse directions, 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 15 percent (8.5 degrees) slope from a dead stop.

(7) Upright tilt. With no load on the truck the upright (or mast) shall have at least 2.0 degrees forward tilt, and at least 6.0 degrees of rear tilt.

(8) Upright height with forks on the ground (collapsed mast height). With no load on forks, the measurement from ground to uppermost projection of the upright assembly shall be not more than 91 inches.

(9) Maximum fork lift height. With rated load on forks and forks horizontal, the forks shall be capable of raising at least 180 inches. This shall be measured from ground to the horizontal, lifting surfaces of the forks.

(10) Free lift height. With rated load on forks, and with the inner mast or carriage assembly just beginning to exceed the specified collapsed mast height, the distance from the ground to the top surfaces of the forks shall be not less than 53.0 inches.

(11) Under clearance. With rated load on the forks and mast vertical, underclearance between the ground and the mast shall be at least 2.75 inches.

(12) 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 2.00 inch of vertical drift, and not more than 1.5 degree of rotational drift.

(13) Stability. The forklift shall meet the ASME/ANSI B56.1 "forward stacking", "forward travel", "lateral stacking", and "lateral travel" stability requirements.

2.25 An identification plate made of a corrosion resistive material shall be permanently installed at an easily accessible location. It shall contain the following information:

NOMENCLATURE
MANUFACTURER'S NAME
MANUFACTURER'S ADDRESS
MANUFACTURER'S SERVICE TELEPHONE NUMBER
MANUFACTURER'S MODEL NUMBER
MANUFACTURER'S SERIAL NUMBER
DATE OF MANUFACTURE
CONTRACT NUMBER
NATIONAL STOCK NUMBER
REGISTRATION NUMBER

2.26 Markings. 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.

2.27 Tires. Tire loading shall not exceed those specified in the Tire and Rim Association Yearbook.

3. REGULATORY REQUIREMENTS.

3.1 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 in the forklift.

4. QUALITY ASSURANCE PROVISIONS.

4.1 Product Conformance. The products provided shall 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 prior to first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

4.2 Market Acceptability. The following market acceptability criteria are necessary to document the quality of the product to be provided under this CID.

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.

4.2.2 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.

4.2.3 At the time of delivery, the contractor shall furnish the Administrative Contracting Officer with verification of compliance with these requirements.

4.2.4 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. Preservation, packing, and marking shall be as specified in the contract or order.

MILITARY INTERESTS:

CUSTODIAN:
Air Force - 84
Army-AT
Navy-SA

PREPARING ACTIVITY:
Air Force-84

AGENT-99

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