

A-A-50742
15 OCTOBER 1987

COMMERCIAL ITEM DESCRIPTION

AIRCRAFT MOVER, ELECTRICALLY POWERED

The General Services Administration has authorized the use of this Commercial Item Description.

Scope. This CID describes an electrically powered aircraft towing unit. The unit is designed to tow/steer a single aircraft by one person in a walking position. This equipment is intended to be used for moving and positioning the F-16 aircraft.

Salient characteristics.

1. PHYSICAL

- a. Size. The aircraft mover will be of the following dimensions, excluding the steering lever. Length: 7 feet minimum, 9 feet maximum. Height: 3 feet minimum, 4 1/2 feet maximum. Width: 2 1/2 feet minimum, 4 feet maximum.
- b. Weight. The complete unit shall weigh between 800 and 1000 lbs.
- c. Finish. The surface finish on the aircraft mover will conform with MIL-STD-808, F100 ES, supplemental AF Drawing 7545352.
- d. Identification.

(1) Plates.

- (a) Warnings, cautions, or restrictions for safe operation shall be identified in the color red.
- (b) Make, model, serial number, manufacturer's name and address, rated load, and gross weight shall be identified in the color blue or black.
- (c) An instruction placard on each control panel shall be installed.

(2) Stencils. The following information shall be stenciled in the color black: Fluid types near fill points, tire pressure near air fill points, maximum towing speed on a visible area on the aircraft mover, nominal voltage rating of batteries near terminals and the words "center gravity" at the center of gravity of the aircraft mover.

AMSC N/A

FSC 1740

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

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2. Design.

- a. Motor. The electric motor shall be explosive proof in accordance with the national electric code unit U4NF PA70, article 500.
- b. Braking system. The braking system must brake the aircraft mover within 2 feet of travel while towing an aircraft traveling on a level surface or on an incline/decline on 0.5 degrees.
- c. Parking brake system. In the parked position, the aircraft mover must not move while loaded or unloaded on a level or 0.5 degree incline/decline surface.
- d. Controls. All controls shall be weatherproof and operable by personnel wearing heavy gloves, mittens and bulky clothing.
- e. Control panel. The control panel on the unit must be fabricated to prevent moisture intrusion.
- f. Accessibility. All parts requiring maintenance shall be easily accessible.
- g. Towing connection. During the aircraft towing procedure, the aircraft mover will be connected to the nose landing gear and will cause no alterations/damages to any section(s) of the aircraft.

3. Function/performance.

The average towing speed of the aircraft mover while towing an unloaded (i.e. without fuel) aircraft on a level surface with an incline/decline range of 0 to 0.5 degrees shall be 1-1/4 mph. It shall have variable speed, will properly operate and perform its intended use without battery recharging for a minimum of 40 minutes, and it must be capable of turning 15 degrees from either side of its longitudinal axis. For transportation purposes, the steering lever shall be detachable and the aircraft mover shall tow an aircraft in the forward and reverse directions.

Manuals. The aircraft mover shall be delivered with a complete set of parts manuals, maintenance manuals and operating instructions,

Certification. The contractor shall certify that the product offered meets the salient characteristics of this description and that the product conforms to the producer's own drawings, specifications, standards and quality assurance practices and is the same product offered for sale in the commercial marketplace. Small businesses that cannot offer products with established commercial market acceptability, may compete by submission of bid samples. (The Government reserves the rights to require proof of such conformance before first delivery and thereafter as may be otherwise provided for under the provisions of the contract,

Predelivery, packaging, labeling and marking. The preservation, packaging, packing, labeling and marking shall be as specified in the contract or purchase order.

Custodian:
Force -99
Army - AV
Navy - AS

Preparing Activity:
Air Force - 82

Agent:
Air Force - 99
(Project 1740F158)