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INCH-POUND

A-A-59706
13 February 2002

COMMERCIAL ITEM DESCRIPTION

BEAD BREAKER, PNEUMATIC TIRE

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

1 SCOPE

1.1 Scope. This commercial item description covers a pneumatic tire bead breaker rated at 30 tons. It is hydraulic in operation and is powered by an explosion proof electric motor. It is intended to be used to break the beads of divided aircraft wheels with tires ranging in size from 15-72 inches in diameter, 4-25 inches wide and with a rim size of 12-34 inches.

2 SALIENT CHARACTERISTICS

2.1 Functional requirements. The bead breaker shall provide a means of breaking the beads of tires from divided wheel aircraft rims using a spider plate assembly. It shall be capable of being operated by one person. The machine shall break both beads of the tire with one actuation without damage to either tire or wheel. An instructional panel shall be affixed to the bead breaker. Instructions shall be clear, concise, and sufficient to enable operation of the machine without damage or injury to the operator. The panel shall be readily visible from the operators position. The bead breaker shall be finished to protect against corrosion normally found in a shop/hanger environment. The shipping weight shall not exceed 2,000 pounds.

2.2 Hydraulic system. The hydraulic system shall consist of an electrically powered pump and all components and fittings necessary for safe, reliable operation and shall be compatible with fluid conforming to MIL-H-5606. All controls shall be permanently marked as to operation and shall be capable of being operated by a person wearing heavy gloves. Controls shall be smooth and non erratic.

Beneficial comments, recommendations, additions, deletions, clarifications, etc and any other data which may improve this document should be sent to: WR-ALC/TILCC, 420 Second Street, Suite 100, Robins AFB, GA 31098-1640

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2.3 Electrical requirements. Electrical equipment and wiring provided shall conform to the National Electrical Code, NFPA 70. The explosion proof electric motor shall conform to Underwriters Laboratories Class I, Group D, designed for connection to 220/440 volts, 3 phase, 60 hertz electrical power unless otherwise specified in the contract or purchase order.

2.4 Spider plate assembly. The bead breaker shall be provided with a spider plate assembly on both sides that will allow for adjustable spades on each side. A minimum of four (4) spades shall be provided on each spider assembly.

3 PRODUCT CONFORMANCE PROVISIONS

3.1 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 marketplace. The government reserves the right to require proof of such conformance.

3.2. Bid sample. When specified in the contract or purchase order, a bid sample shall be provided for government verification of compliance with the following inspection(s).

3.2.1 Examination. The bead breaker shall be visually examined to assure that it meets the requirements of this CID.

3.2.2 Static proof load. The bead breaker shall be capable of exerting a 30 ton force between the cylinder and the stationary ram.

4 PACKAGING

4.1 Preservation. Packing. and Marking. Preservation, packing and marking shall be as specified in the contract or purchase order.

5 NOTES

5.1 Source of documents.

5.1.1 Military specifications. Military specifications are available from, DAPS, Bldg 4D (DMP-DODSSP), 700 Robbins Avenue, Philadelphia, PA 19111-5094, or online through the ASSIST.

5.1.2 NFPA 70. NFPA 70 may be obtained from the National Fire Protection Association, 1 Batterymarch Park P.O. Box 9101 Quincy, Massachusetts 02269-9101.

5.3 National Stock Number. The following NSN corresponds to this CID. The NSN may not be indicative of all possible NSNs associated with this CID.

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5.4 Key words.

Bead breaker, pneumatic tire
Divided wheel, pneumatic aircraft tire
Tire, pneumatic, bead breaker

MILITARY INTERESTS

Custodians:
Air Force - 99

Review activity:
DLA – CC

Civil Agency Coordinating Activity:
GSA - FSS

Preparing Activity:
Air Force - 84

Agent Activity:
Air Force -99

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