[INCH-POUND]
A-A-3036
November 4, 1996

COMMERCIAL ITEM DESCRIPTION

VISE, WOODWORKER'S (QUICK ACTING)

The General Services Administration has authorized the use of this Commercial Item Description for the procurement of the type I, class 2, vises specified in GGG-V-445A for all federal agencies.

1. SCOPE.

1.1 Scope. This Commercial Item Description covers a quick-acting woodworker's vise used to hold various sizes and shapes of wood. The woodworker's vise is suitable for bench or table mounting.

2. CLASSIFICATION.

2.1 Classification. Not applicable.

3. SALIENT CHARACTERISTICS.

3.1 Design. The quick-acting woodworker's vise shall consist of a body with a back jaw, front jaw, screw, nut, guide rods, screw-head, drag bar, handle, and shall have a continuous action screw and nut. The vise shall be similar to Figure 1 and conform to the dimensions and weight specified in Table I.

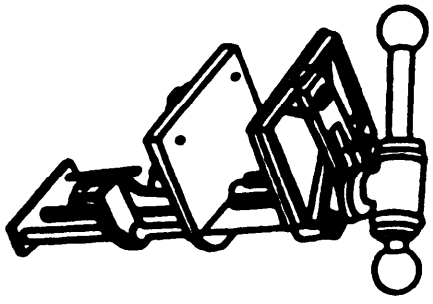

Figure 1. Vise, woodworker's, continuous screw and quick-acting.

TABLE I. Vise, woodworker's, continuous screw, and quick-acting.

Jaw size (nominal) (Inches)	Jaw dimensions (nominal)		Jaw opening (minimum) (Inches)	Weight (minimum) (Pounds)
	Width (Inches)	Depth (Inches)		
4 by 7	7	4	9	25
4 by 10	10	4	12	30

Beneficial comments, recommendations, additions, deletions, clarifications, etc., and any other data which may improve this document should be sent to: General Services Administration, Federal Supply Service, Tools and Appliances Commodity Center, Kansas City, MO 64131.

3.1.1 Body. The body shall be of solid cast iron construction, consisting of a back jaw bench mounting and rear bearing sections. The back jaw section shall have at least two holes in the upper portion of the jaw face for mounting of a wood facing. The lower portion of the back jaw shall have the front guide bar bearings and the vise nut mounting. The bench jaw mounting section shall be located on the rear side of the back jaw section and shall be square with the jaw face approximately 2 degrees in either direction. At least two bench mounting holes shall be provided. The rear bearing section shall be so located and have bearing holes of such fit as to permit opening the jaws to their complete capacity without binding.

3.1.2 Front jaw. The front jaw shall be of cast iron and shall be permitted to incline to a maximum of 1/16 inch from the vertical toward the top of the back jaw to compensate for any spring of parts in the clamping of work. The two guide bars shall be rigidly anchored to the bottom portion of the front jaw and the screw bearing shall be fastened between the guide rods. Four holes shall be provided for the mounting of a wood jaw facing. The front jaw shall be provided with at least one brass or soft steel dog or stop.

3.1.3 Screw. The vise screw shall be of steel with a minimum yield of 50,000 pounds per square inch (psi) and 65,000 psi tensile strength with a minimum diameter of 1 inch. The vise screw shall have a shoulder or collar and bearing to fit the front jaw and shall terminate in the screwhead on the front end and shall have a bearing in the drag bar on the other. The bearing surface on the screw shall be of such fit and the screwhead so located with reference to the shoulder or collar as to permit the screw to rotate freely. The continuous thread-type screw may be either single or double-thread, and shall be so designed that two revolutions of the double-thread screw or four complete revolutions of the single-thread screw, shall move the front jaw a minimum of 1 inch.

3.1.4 Nut. The nut shall be of malleable iron, cast iron, steel or bronze, threaded to engage the screw, and shall be renewable.

3.1.5 Guide rods. The rods shall be of steel, parallel to the axis of the screw, and securely fastened to the front jaw extending through the holes in the body. The minimum diameter of the guide bars shall be 7/8 inch.

3.1.6 Screwhead. The screwhead shall be of cast iron or malleable iron and shall be securely fastened to the screw. The screwhead shall be provided with a hole at right angles to the axis of the screw to receive the handle. The hole for the handle shall be chamfered or otherwise shaped at both ends to prevent accidental pinching of the hand or fingers. The screwhead shall have a tension spring to hold the handle at any desired location.

3.1.7 Drag bar. The drag bar shall be of cast iron, malleable iron, or steel with holes at both ends to fit the rear end of the guide rods and the holes shall be in alignment with those specified for the front jaw and body through which the guide rods are inserted. The hole in the center of the drag bar shall act as the rear bearing for the vise screw. The drag bar shall be fastened to the vise screw or the guide rods.

3.1.8 Handle. The handle shall be of straight grained hickory, solid aluminum, or steel and shall be capped to prevent sliding out of the screwhead. Steel handles may have machine-type handle grips securely mounted at right angles near each end. The overall length of the wood handle shall be not less than 9 inches, and not less than 7 inches for metal handles. The handle shall be of adequate strength and diameter to withstand the intended duty.

3.2 Identification marking. The tool shall be marked with the manufacturer's name or identifying symbol and the state or country of manufacture, unless otherwise specified. All identification markings shall be engraved, etched, molded, or indented directly on the item's surface in such a manner that it remains clearly legible throughout the life of the item.

3.3 Workmanship. Details of workmanship shall be in accordance with the best commercial practice. Paints, coatings, platings, and finishes shall be smooth, adherent, continuous, and not stained or discolored. External surfaces shall be free of tool and gouge marks, nicks, or other surface imperfections. The item shall be free from manufacturing workmanship defects (e.g., sharp or rough external edges, corners, or surfaces) and material workmanship defects (e.g., pits, rips, fins, burrs, tears, nodules, cracks, blisters) which may adversely impact the item's serviceability, durability, safety, or appearance.

4. REGULATORY REQUIREMENTS.

4.1 Recovered materials. 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).

4.2 Metric products. Products manufactured to metric dimensions will be considered on an equal basis with those manufactured using inch-pound units, provided they fall within the tolerances specified (using conversion tables contained in the latest revision of Federal Standard 376) and all other requirements of this document are met. If a product is manufactured to metric dimensions and those dimensions exceed the tolerances specified in the inch-pound units, a request should be made to the contracting officer to determine if the product is acceptable.

5. QUALITY ASSURANCE PROVISIONS.

5.1 Product conformance. The product provided to the Government shall conform to the contractually specified requirements. For product characteristics and requirements which are not contractually specified, the provided product shall conform to the producer's own drawings, standards, specifications, and quality assurance practices for the highest quality product commercially offered by the producer. If the product is not commercially offered by the producer, the best commercial practices shall apply. The Government reserves the right to require proof of such conformances prior to first delivery and thereafter as provided for under the provisions of the contract.

5.2 Responsibility for inspection. Unless otherwise specified, the contractor is responsible for the performance of all inspection requirements and may use any commercial facilities (including the contractor's own facilities) suitable for performance of the inspection requirements, unless disapproved by the Government. The Government reserves the right to perform any inspections deemed necessary to assure the item conforms to the specified requirements.

5.3 Bid sample(s). When a bid sample requirement is specified in the solicitation, the bid sample(s) shall be inspected for all salient characteristics by the Government. A failure of any bid sample to meet the salient characteristics shall be cause for rejection.

5.4 First article sample(s). When a first article requirement is specified in the contract, the first article sample(s) shall be inspected for all salient characteristics. A failure of any first article sample to meet the salient characteristics shall be cause for rejection.

6. PACKAGING.

6.1 Packaging. Requirements of preservation, packing, packaging, and marking of packages shall be as specified in the contract or order.

7. NOTES.

(This section contains information of a general or explanatory nature that is not mandatory.)

7.1 Addresses for obtaining copies of referenced documents:

Federal Specifications and Standards: Federal Supply Service Bureau, Specification Section, Suite 8100, 470 L'Enfant Plaza, SW, Washington, DC 20407.

Federal Acquisition Regulations (FAR): Government Printing Office, Superintendent of Documents, Washington, DC 20402-9371.

ANSI/ASQC Z1.4: American Society for Quality Control, P.O. Box 3005, 611 East Wisconsin Avenue, Milwaukee, WI 43201-4606.

7.2 Ordering data. Purchasers should select the preferred options permitted herein and should include the following information in procurement documents:

(a) Title, number, and date of this Commercial Item Description.
(b) When applicable, the appropriate NSN(s).
(c) If bid samples are required, the number of samples required, and the subjective inspection requirements.
(d) If first article samples are required and the number of samples required.
(e) If lot sampling inspection is required and the applicable lot sampling requirements. For example:

Sampling for inspection. Sampling for inspection (both examinations and testing) shall be in accordance with ANSI/ASQC Z1.4.

Inspection. Each sample tool shall be examined and tested for all salient characteristics. The Inspection Level shall be S-2 with an Acceptable Quality Level of 4.0, expressed in terms of defects per hundred units.

(f) What preservation, packing, packaging, and marking of packages are required.

7.3 National Stock Numbers (NSNs). The following list of NSNs corresponds to the vises specified in this CID. This list may not be indicative of all possible NSNs associated with this CID.

NSN	SIZE
5120-00-221-1114	10 inch x 4 inch jaw, 12 inch jaw opening

MILITARY INTERESTS:

NONE: DoD has no registered interest in revisions or notices to this Commercial Item Description until further notice.

PREPARING ACTIVITY:

GSA - FSS