

Issued	1968-11
Cancelled	2006-04

Superseding J370 MAY1998

**Bolt and Capscrew Sizes for Use in Construction and Industrial Machinery**

**1. Scope**—This SAE Recommended Practice covers the use of preferred bolt and capscrew sizes, wherever applicable, on construction and industrial machinery to ease serviceability.

**1.1 Purpose**—Designers, in their efforts to determine the proper fastener for heavy equipment, sometimes overlook the practical aspects of serviceability. When a particular component requires frequent service, it is much faster and easier for the serviceman to work with common size, easily distinguished bolts, and capscrews which require a minimum of tools.

Section 4 lists eight diameters of recommended bolts and capscrews, some of which can be found in any hardware store, require only standard tools, are easy to distinguish, and at the same time cover proof loads from 1043 kg (2300 lb) on up at convenient intervals.

While some applications may require other sizes and/or fine threaded fasteners for greater clamping forces and/or area restrictions, the convenience of UNC threads in the sizes indicated is preferred wherever possible.

**1.2 Rationale**—Recommend withdrawal of this recommended practice because the Scope and Purpose are not in unison with the content of the document. The reason for having this type of document is no longer valid.

**2. References**

**2.1 Related Publications**—The following publications are provided for information purposes only and are not a required part of this document. The latest issue of SAE publications shall apply.

**2.1.1 SAE PUBLICATIONS**—Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or 724-776-4970 (outside USA), [www.sae.org](http://www.sae.org).

SAE J429—Mechanical and Material Requirements for Externally Threaded Fasteners  
SAE J871—Hi Head Finished Hex Bolts

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