



JAPANESE
INDUSTRIAL
STANDARD

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Japanese Standards Association

JIS B 1058 : 1995
(ISO 898-7 : 1992)

**Mechanical properties of fasteners
Part 7 : Torsional test and minimum
torques for bolts and screws with
nominal diameters 1 mm to 10 mm**

ICS 21.060.10

Descriptors : screws (bolts), bolts, threads, torsional strength, torsion testing,
breaking load

Reference number : JIS B 1058 : 1995 (E)

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Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of International Trade and Industry through deliberations at Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law:

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In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

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Mechanical properties of fasteners

Part 7 : Torsional test and minimum torques for bolts and screws with nominal diameters 1 mm to 10 mm

Foreword for Japanese Industrial Standard

This Japanese Industrial Standard has been prepared based on **ISO 898-7** *Mechanical properties of fasteners—Part 7 : Torsional test and minimum torques for bolts and screws with nominal diameters 1 mm to 10 mm* issued in 1992 as the first edition without changing the technical contents.

The “Informative reference” underlined with dots in this Standard shows the matters not specified in the original International Standard.

1 Scope This Standard specifies a torsional test for the determination of the breaking torque of bolts and screws with nominal diameters 1 mm to 10 mm with property classes 8.8 to 12.9 in accordance with **ISO 898-1**. The test applies to bolts and screws with thread less than M3 for which no breaking and proof loads are indicated in **ISO 898-1**, as well as to short bolts and screws with nominal diameters 3 mm to 10 mm which cannot be subjected to a tensile test.

The minimum breaking torques are not valid for hexagon socket set screws.

Informative reference : **ISO 898-1** is equivalent to **JIS B 1051** *Mechanical properties of steel bolts and screws*.

2 Normative reference The following standard contains provisions which, through reference in this Standard, constitute provisions of this Standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this Standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of **IEC** and **ISO** maintain registers of currently valid International Standards.

ISO 898-1 : 1988 *Mechanical properties of fasteners—Part 1 : Bolts, screws and studs*

3 Torsional test

3.1 Principle Determination of the breaking torque by clamping the bolt or screw to be tested into a test device.

3.2 Apparatus

3.2.1 Test device for torsional test, such as is shown in Fig. 1.

3.2.2 Torquemeter, with a scale which shall not exceed the quintuple of the respective minimum breaking torque. The maximum inaccuracy of the torquemeter shall be $\pm 7\%$ of the minimum breaking torque to be tested.