
Mechanical and performance requirements of case hardened and tempered metric thread rolling screws

*Caractéristiques mécaniques et fonctionnelles des vis autotaraudeuses par
déformation, à filetage métrique, cémentées et revenues*



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 7085 was prepared by Technical Committee ISO/TC 2, *Fasteners*, Subcommittee 1, *Mechanical properties of fasteners*.

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1 Scope

This International Standard specifies the requirements for case hardened and tempered metric thread rolling screws. Thread rolling screws according to this International Standard produce female threads which fit ISO general purpose metric screw threads, in the range from 2 mm up to and including 12 mm nominal thread diameter, for use in general engineering applications.

ISO 898-1 is not applicable to screws made according to this International Standard.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 898-2:1992, *Mechanical properties of fasteners — Part 2: Nuts with specified proof load values — Coarse thread.*

ISO 965-3:1998, *ISO general purpose metric screw threads — Tolerances — Part 3: Deviations for constructional screw threads.*

ISO 4042:1999, *Fasteners — Electroplated coatings.*

ISO 5954:1998, *Cold-reduced carbon steel sheet according to hardness requirements.*

ISO 6507-1:1997, *Metallic materials — Vickers hardness test — Part 1: Test method.*

ISO 15330:1999, *Fasteners — Preloading test for the detection of hydrogen embrittlement — Parallel bearing surface method.*