



**International
Standard**

ISO 4028

**Fasteners — Hexagon socket set
screws with dog point**

Fixations — Vis sans tête à six pans creux, à téton

**Fourth edition
2026-02**

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 2, *Fasteners*, Subcommittee SC 11, *Fasteners with metric external thread*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 185, *Fasteners*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This fourth edition cancels and replaces the third edition (ISO 4028:2003), which has been technically revised.

The main changes are as follows:

- M30 has been added for steel hexagon socket set screws;
- for $d_{p,max} \leq 1,00$, the tolerance of d_p has been modified to h13 according to ISO 4753:2011, Table 1, Footnote b;
- for $z_{min} \leq 1,00$, the tolerance of z has been modified to $^{+IT13}_0$ according to ISO 4753:2011, Table 1, Footnote d;
- approximate masses have been deleted in [Table 2](#);
- non-ferrous metal screws have been deleted (as a consequence of the withdrawal of ISO 8839);
- for stainless steel fasteners, “Plain” has been changed to “Clean and bright”, and “Passivated” has been added in [Table 3](#);
- specifications for marking and labelling have been added as [Clause 6](#);
- [Annex A](#) has been added for cut-off slugs at machined set screws with dog point.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Fasteners — Hexagon socket set screws with dog point

1 Scope

This document specifies the characteristics of hexagon socket set screws with dog point, with metric coarse pitch threads M1,6 to M30 for steel and M1,6 to M24 for stainless steel, and with product grade A.

Set screws are not intended for use under tensile load.

If, in certain cases other specifications are requested, hardness classes and stainless steel grades can be selected from ISO 898-5 or ISO 3506-3, and dimensional options from ISO 888, ISO 965-1 or ISO 4753.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 225, *Fasteners — Bolts, screws, studs and nuts — Symbols and descriptions of dimensions*

ISO 724, *ISO general purpose metric screw threads — Basic dimensions*

ISO 888, *Fasteners — Bolts, screws and studs — Nominal lengths and thread lengths*

ISO 898-5, *Mechanical properties of fasteners made of carbon steel and alloy steel — Part 5: Set screws and similar threaded fasteners with specified hardness classes — Coarse thread and fine pitch thread*

ISO 965-1, *ISO general purpose metric screw threads — Tolerances — Part 1: Principles and basic data*

ISO 1891-4, *Fasteners — Vocabulary — Part 4: Control, inspection, delivery, acceptance and quality*

ISO 3269, *Fasteners — Acceptance inspection*

ISO 3506-3, *Fasteners — Mechanical properties of corrosion resistant stainless steel fasteners — Part 3: Set screws (and similar fasteners not under tensile stress) with specified grades and hardness classes*

ISO 4042, *Fasteners — Electroplated coating systems*

ISO 4753, *Fasteners — Ends of parts with external ISO metric thread*

ISO 4759-1, *Tolerances for fasteners — Part 1: Bolts, screws, studs and nuts — Product grades A, B and C*

ISO 6157-1, *Fasteners — Surface discontinuities — Part 1: Bolts, screws and studs for general requirements*

ISO 8991, *Designation system for fasteners*

ISO 8992, *Fasteners — General requirements for bolts, screws, studs and nuts*

ISO 10683, *Fasteners — Non-electrolytically applied zinc flake coating systems*

ISO 23429, *Gauging of hexagon sockets*

3 Terms and definitions

No terms and definitions are listed in this document.