

Button head screws - Part 1: Button head with hexagon socket (ISO 7380-1:2011)

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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English Version

Button head screws - Part 1: Hexagon socket button head
screws (ISO 7380-1:2011)

Vis à tête cylindrique bombée plate - Partie 1: Vis à tête
cylindrique bombée plate à six pans creux (ISO 7380-
1:2011)

Halbrundkopfschrauben (abgeflacht) - Teil 1: Abgeflachter
Halbrundkopf mit Innensechskant (ISO 7380-1:2011)

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN ISO 7380-1:2011) has been prepared by Technical Committee ISO/TC 2 "Fasteners" in collaboration with Technical Committee CEN/TC 185 "Fasteners" the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 2012, and conflicting national standards shall be withdrawn at the latest by February 2012.

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Endorsement notice

The text of ISO 7380-1:2011 has been approved by CEN as a EN ISO 7380-1:2011 without any modification.

Button head screws —

Part 1:

Hexagon socket button head screws

1 Scope

This International Standard specifies the characteristics of hexagon socket button head screws with threads from M3 up to and including M16, with product grade A and with reduced loadability according to Table 3.

If, in special cases, specifications other than those listed in this International Standard are required, they can be selected from existing International Standards, e.g. ISO 261, ISO 888, ISO 898-1, ISO 965-2, ISO 3506-1 and ISO 4759-1.

2 Normative references

The following referenced documents are indispensable for the application 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 261, *ISO general purpose metric screw threads — General plan*

ISO 898-1, *Mechanical properties of fasteners made of carbon steel and alloy steel — Part 1: Bolts, screws and studs with specified property classes — Coarse thread and fine pitch thread*

ISO 965-2, *ISO general purpose metric screw threads — Tolerances — Part 2: Limits of sizes for general purpose external and internal screw threads — Medium quality*

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

ISO 3269, *Fasteners — Acceptance inspection*

ISO 3506-1, *Mechanical properties of corrosion-resistant stainless steel fasteners — Part 1: Bolts, screws and studs*

ISO 4042, *Fasteners — Electroplated coatings*

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 6157-3, *Fasteners — Surface discontinuities — Part 3: Bolts, screws and studs for special requirements*

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

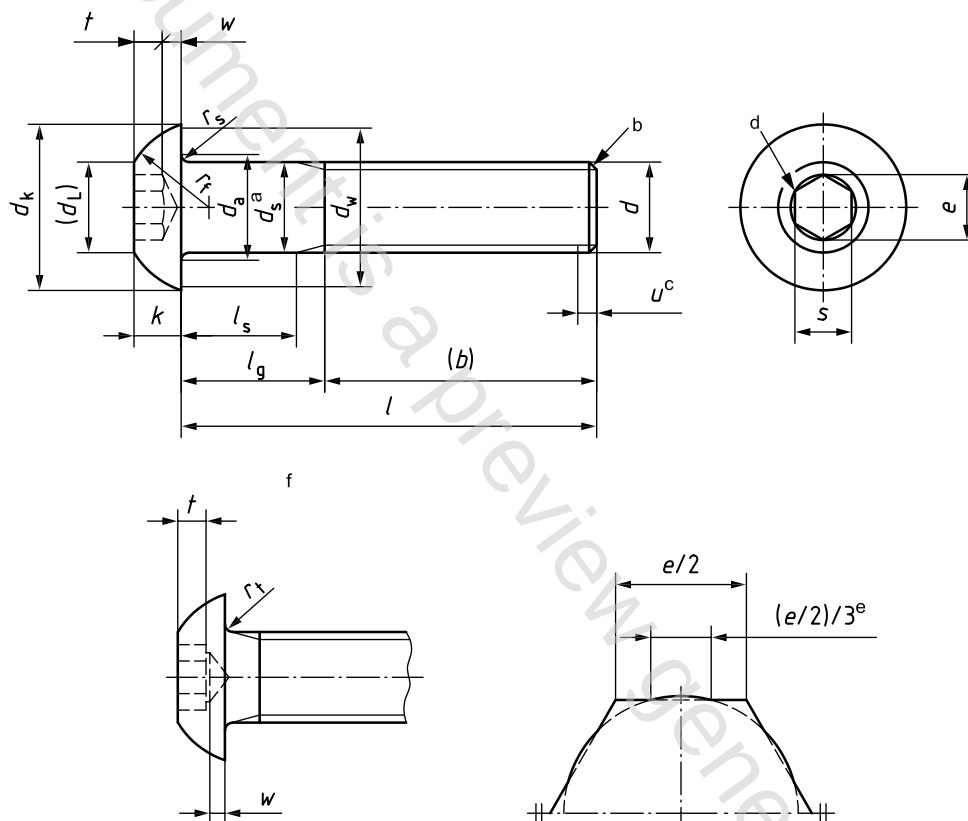
ISO 10683, *Fasteners — Non-electrolytically applied zinc flake coatings*

ISO 23429, *Gauging of hexagon sockets*

3 Dimensions

See Figure 1 and Table 1.

Symbols and descriptions of dimensions are specified in ISO 225.



Key

r_s underhead radius for a screw with unthreaded shank

r_t underhead radius for a fully threaded screw

^a d_s applies if values of $l_{s,min}$ are specified.

^b In accordance with ISO 4753, point chamfered or for sizes $\leq M4$ "as rolled".

^c Incomplete thread $u \leq 2P$.

^d A slight rounding or countersink at the mouth of the socket is permissible.

^e For broached sockets which are at the maximum limit of size, the overcut resulting from drilling shall not exceed one third of the length of any flat of the socket which is $e/2$.

^f Permissible alternative form of socket.

Figure 1 — Hexagon socket button head screw