WS A COIN SOME OF THE SOME OF Button head screws - Part 2: Hexagon socket button head screws with collar (ISO 7380-2:2011)



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NATIONAL FOREWORD

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Käesolev Eesti standard EVS-EN ISO 7380-	This Estonian standard EVS-EN ISO 7380-
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EUROPEAN STANDARD

EN ISO 7380-2

NORME EUROPÉENNE EUROPÄISCHE NORM

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English Version

Button head screws - Part 2: Hexagon socket button head screws with collar (ISO 7380-2:2011)

Vis à tête cylindrique bombée plate - Partie 2: Vis à tête cylindrique bombée plate à six pans creux à embase plate (ISO 7380-2:2011)

Halbrundkopfschrauben (abgeflacht) - Teil 2: Abgeflachter Halbrundkopf mit Bund und Innensechskant (ISO 7380-2:2011)

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Management Centre: Avenue Marnix 17, B-1000 Brussels

Foreword

This document (EN ISO 7380-2:2011) 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of an identical text or by endorsement, at the latest by February 2012, and conflicting national standards shall be withdrawn at the latest by February 2012.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 7380-2:2011 has been approved by CEN as a EN ISO 7380-2:2011 without any modification.

Button head screws —

Part 2:

Hexagon socket button head screws with collar

1 Scope

This International Standard specifies the characteristics of hexagon socket button head screws with collar 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 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 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 8992, Fasteners — General requirements for bolts, screws, studs and nuts

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

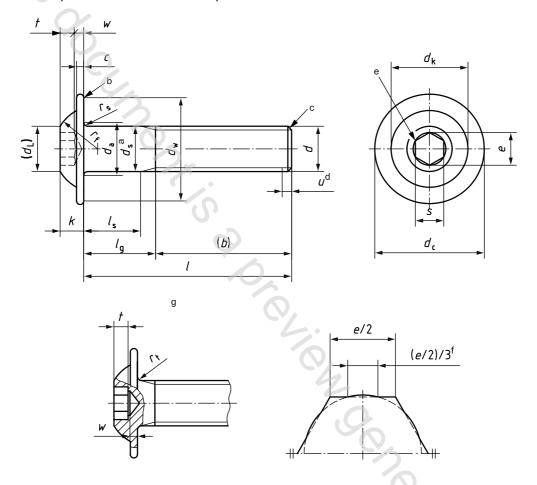
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ISO 23429, Gauging of hexagon sockets

3 Dimensions

See Figure 1 and Table 1.

Symbols and descriptions of dimensions are specified in ISO 225.



Key

- $r_{\rm s}$ underhead radius for a screw with unthreaded shank
- r, underhead radius for a fully threaded screw
- ^a d_s applies if values of $l_{s,min}$ are specified.
- b Contour at the discretion of the manufacturer.
- c In accordance with ISO 4753, point chamfered or for sizes ≤ M4 "as rolled".
- d Incomplete thread $u \le 2P$.
- ^e A slight rounding or countersink at the mouth of the socket is permissible.
- 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.
- ⁹ Permissible alternative form of socket.

Figure 1 — Hexagon socket button head screw with collar