INTERNATIONAL STANDARD

ISO 4229

Third edition 2017-04

Assembly tools for screws and nuts — Single-head engineer's wrenches for lower torque applications — Maximum outside dimensions of heads and test torques

Outils de manœuvre pour vis et écrous — Clés à fourche simples pour applications aux couples plus faibles — Dimensions extérieures maximales d'encombrement des têtes et couples d'essai





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ISO copyright office Ch. de Blandonnet 8 • CP 401 CH-1214 Vernier, Geneva, Switzerland Tel. +41 22 749 01 11 Fax +41 22 749 09 47 copyright@iso.org www.iso.org

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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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For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 29, *Small tools*, Subcommittee SC 10, *Assembly tools for screws and nuts, pliers and nippers*.

This third edition cancels and replaces the second edition (ISO 4229:2009), which has been technically revised with the following significant changes:

- revision of sizes covered in <u>Table 1</u>, with the addition of nominal widths across flats not covered by ISO 272;
- Table 2 was removed and the torque testing was substituted with a reference to ISO 1711-1.

Assembly tools for screws and nuts — Single-head engineer's wrenches for lower torque applications — Maximum outside dimensions of heads and test torques

1 Scope

This document specifies requirements of single-head engineer's wrenches with nominal width across flats from 3.2 to 120.

It specifies the maximum outside dimensions of heads and gives the test torque values. The "lower torque application" designation is in accordance with the smaller head dimensions.

NOTE The wrenches covered by this document are the ones identified in ISO 1703:2005 under reference Nos. $1\ 1\ 01\ 01\ 0$ and $1\ 1\ 01\ 01\ 1$.

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 691, Assembly tools for screws and nuts — Wrench and socket openings — Tolerances for general use

ISO 1711-1, Assembly tools for screws and nuts — Technical specifications — Part 1: Hand-operated wrenches and sockets

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp

4 Maximum outside dimensions of heads

The maximum outside dimensions of heads are given in <u>Figure 1</u> and <u>Table 1</u>. <u>Figure 1</u> does not necessarily indicate the shape of the wrench heads.