BS EN ISO 6789-2:2017

BSI Standards Publication

Assembly tools for screws and nuts — Hand torque tools

Part 2: Requirements for calibration and determination of measurement uncertainty (ISO 6789-2:2017)

bsi.

National foreword

This British Standard is the UK implementation of EN ISO 6789-2:2017. Together with BS EN ISO 6789-1:2017, it supersedes BS EN ISO 6789:2003 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee MTE/15, Hand tools.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Compliance with a British Standard cannot confer immunity from legal obligations.

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Assembly tools for screws and nuts - Hand torque tools - Part 2: Requirements for calibration and determination of measurement uncertainly (ISO 6789-2:2017)

Outils de manoeuvre pour vis et écrous - Outils dynamométriques à commande manuelle - Partie 2: Exigences d'étalonnage et détermination de l'incertitude de mesure (ISO 6789-2:2017)

Schraubwerkzeuge - Handbetätigte Drehmomentwerkzeuge - Teil 2: Anforderungen an die Kalibrierung und die Bestimmung der Messunsicherheit (ISO 6789-2:2017)

This European Standard was approved by CEN on 14 January 2017.

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European foreword

This document (EN ISO 6789-2:2017) has been prepared by Technical Committee ISO/TC 29 “Small tools”.

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of an identical text or by endorsement, at the latest by September 2017, and conflicting national standards shall be withdrawn at the latest by March 2018.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 6789:2003.

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Endorsement notice

The text of ISO 6789-2:2017 has been approved by CEN as EN ISO 6789-2:2017 without any modification.

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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 first edition of ISO 6789-2, together with ISO 6789-1, cancels and replaces ISO 6789:2003 which has been technically revised with changes as follows.

a) ISO 6789:2003 has been divided into two parts. ISO 6789:2003 has become ISO 6789-1 which specifies the requirements for design and manufacture including the content of a declaration of conformance. This document specifies the requirements for traceable certificates of calibration. It includes a method for calculation of uncertainties and provides a method for calibration of the torque measurement device used for calibrating hand torque tools.

b) This document includes detailed methods for calculation of the uncertainty budget which shall be performed for each individual tool.

c) This document includes example calculations that are provided for different types of torque tool.

d) Annex C provides requirements for calibrating the torque measurement device where the calibration laboratory does not utilize a national standard giving such requirements.

A list of all parts in the ISO 6789 series can be found on the ISO website.