

Geometrical Product Specifications (GPS) — Dimensional measuring equipment — Design and metrological characteristics of mechanical dial gauges

ICS 17.040.30

National foreword

This British Standard is the UK implementation of EN ISO 463:2006. It is identical to ISO 463:2006, incorporating corrigenda June 2007 and January 2009. It partially supersedes BS 907:2008.

The start and finish of text introduced or altered by corrigendum is indicated in the text by tags. Text altered by ISO corrigendum June 2007 is indicated in the text by AC1 AC1.

The UK participation in its preparation was entrusted by Technical Committee TDW/4, Technical Product Realization, to Subcommittee TDW/4/4, Technical Product Realization - Gauging and Measurement Equipment.

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

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English Version

Geometrical Product Specifications (GPS) - Dimensional
measuring equipment - Design and metrological characteristics
of mechanical dial gauges (ISO 463:2006)

Spécification géométrique des produits (GPS) -
Instruments de mesure dimensionnel: Comparateurs
mécaniques à cadran - Caractéristiques de conception et
caractéristiques métrologiques (ISO 463:2006)

Geometrische Produktspezifikation (GPS) -
Längenmessgeräte - Konstruktionsmerkmale und
messtechnische Merkmale für mechanische Messuhren
(ISO 463:2006)

This European Standard was approved by CEN on 23 January 2006.

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Foreword

This document (EN ISO 463:2006) has been prepared by Technical Committee ISO/TC 213 "Dimensional and geometrical product specifications and verification" in collaboration with Technical Committee CEN/TC 290 "Dimensional and geometrical product specification and verification", the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by September 2006, and conflicting national standards shall be withdrawn at the latest by September 2006.

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Endorsement notice

The text of ISO 463:2006 has been approved by CEN as EN ISO 463:2006 without any modifications.

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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.

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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ISO 463 was prepared by Technical Committee ISO/TC 213, *Dimensional and geometrical product specifications and verification*.

This first edition of ISO 463 cancels and replaces ISO/R 463:1965, which has been technically revised.

Introduction

This International Standard is a geometrical product specification (GPS) standard and is to be regarded as a general GPS standard (see ISO/TR 14638). It influences the chain link 5 of the chains of standards on size, distance, form of a line independent of datum, form of a line dependent of datum, form of a surface independent of datum, form of a surface independent of datum, orientation, location, circular run-out and total run-out in the general GPS matrix.

For more detailed information of the relation of the standard to other standards and the GPS matrix model see Annex D.

