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**Specifikacija geometrijskih veličin izdelka (GPS) - Oprema za merjenje dolžin - Konstrukcijske in meroslovne značilnosti mikrometrov za zunanje meritve (ISO 3611:2023)**

Geometrical product specifications (GPS) - Dimensional measuring equipment - Design and metrological characteristics of micrometers for external measurements (ISO 3611:2023)

Geometrische Produktspezifikation (GPS) - Längenmessgeräte - Konstruktionsmerkmale und messtechnische Merkmale von Bügelmessschrauben für die Außenmessung (ISO 3611:2023)

Spécification géométrique des produits (GPS) - Équipement de mesure dimensionnel - Caractéristiques de conception et caractéristiques métrologiques des micromètres d'extérieur (ISO 3611:2023)

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Geometrical product specifications (GPS) - Dimensional  
measuring equipment - Design and metrological  
characteristics of micrometers for external measurements  
(ISO 3611:2023)

Spécification géométrique des produits (GPS) -  
Équipement de mesurage dimensionnel -  
Caractéristiques de conception et caractéristiques  
métrologiques des micromètres d'extérieur (ISO  
3611:2023)

Geometrische Produktspezifikation (GPS) -  
Längenmessgeräte - Konstruktionsmerkmale und  
messtechnische Merkmale von Bügelmessschrauben  
für die Außenmessung (ISO 3611:2023)

This European Standard was approved by CEN on 5 May 2023.

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Contents	Page
European foreword.....	3

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## European foreword

This document (EN ISO 3611:2023) 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of an identical text or by endorsement, at the latest by November 2023, and conflicting national standards shall be withdrawn at the latest by November 2023.

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

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ISO  
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2023-05

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**Geometrical product specifications  
(GPS) — Dimensional measuring  
equipment — Design and metrological  
characteristics of micrometers for  
external measurements**

*Spécification géométrique des produits (GPS) — Équipement  
de mesurage dimensionnel — Caractéristiques de conception et  
caractéristiques métrologiques des micromètres d'extérieur*

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# Contents

Page

Foreword.....	iv
Introduction.....	v
<b>1 Scope.....</b>	<b>1</b>
<b>2 Normative references.....</b>	<b>1</b>
<b>3 Terms and definitions.....</b>	<b>1</b>
<b>4 Design characteristics.....</b>	<b>2</b>
4.1 General design and nomenclature.....	2
4.2 Dimensions.....	3
4.3 Types of indicating device.....	3
4.3.1 General.....	3
4.3.2 Analogue indicating devices.....	3
4.3.3 Digital indicating devices.....	4
4.4 Frame.....	5
4.5 Measuring force limiting device.....	5
<b>5 Metrological characteristics.....</b>	<b>5</b>
5.1 General.....	5
5.2 Rated operating conditions.....	5
5.3 Reference point.....	5
5.4 Test methods.....	5
5.5 Length measurement error, $E$ (limited by $E_{MPE}$ ).....	6
5.5.1 General.....	6
5.5.2 Test point selection.....	6
5.6 Variation in length measurement error, $V$ (limited by $V_{MPE}$ ).....	6
5.6.1 General.....	6
5.6.2 Number of tests.....	7
5.6.3 Testing with optical parallels.....	7
5.7 Measuring forces.....	7
5.8 Specifications.....	7
5.8.1 General.....	7
5.8.2 Classification system.....	7
<b>6 Determination of conformity to specifications.....</b>	<b>10</b>
6.1 General.....	10
6.2 Measurement uncertainty.....	10
6.3 Decision rule.....	10
<b>7 Marking.....</b>	<b>10</b>
<b>Annex A (informative) Calibration guidelines for metrological characteristics.....</b>	<b>11</b>
<b>Annex B (informative) Notes on use.....</b>	<b>12</b>
<b>Annex C (informative) Relation to the GPS matrix model.....</b>	<b>13</b>
<b>Bibliography.....</b>	<b>14</b>

## ISO 3611:2023(E)

## 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 document 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](http://www.iso.org/directives)).

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This document was prepared by Technical Committee ISO/TC 213, *Dimensional and geometrical product specifications and verification*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 290, *Dimensional and geometrical product specification and verification*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 3611:2010), which has been technically revised.

The main changes are as follows:

- general design characteristics have been removed and reference to ISO 14978:2018 has been included;
- metrological characteristics have been clarified and modified;
- requirements for test methods have been included;
- classification system of maximum permissible errors has been added.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

## Introduction

This document is a geometrical product specification (GPS) standard and is to be regarded as a general GPS standard (see ISO 14638). It influences the chain links for measuring equipment and calibration on size and distance in the general GPS matrix (see [Annex C](#)).

The ISO GPS Matrix Model given in ISO 14638 gives an overview of the ISO GPS system of which this document is a part. The fundamental rules of ISO GPS given in ISO 8015 apply to this document and the default decision rules given in ISO 14253-1 apply to specifications made in accordance with this document, unless otherwise indicated; see ISO/TR 14253-6 for additional information on the selection of alternative decision rules.

For more detailed information on the relation of this document to other standards and the GPS matrix model, see [Annex C](#).

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