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Geometrical product specifications (GPS) — Partition —

Part 3: Methods used for specification and verification

Spécification géométrique des produits (GPS) — Partition —

Partie 3: Méthodes utilisées pour la spécification et la vérification

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Foreword

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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 chain links B, C and E of the chains of standards on size, distance, form, orientation, location and run-out in the GPS matrix model.

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.

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

This document develops the concepts and methods for default partition of the skin model (in specification) and the sampled surface model (in verification) along with ISO 18183-1[1)] and ISO 18183-2.

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Geometrical product specifications (GPS) — Partition —

Part 3:
Methods used for specification and verification

1 Scope

This document specifies the procedure for the partition operation of geometrical product specification and verification.

This document does not apply to profile and areal surface texture.

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 18183-1[2)], *Geometrical product specifications (GPS) — Partition — Part 1: Vocabulary and basic concepts*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 18183-1 apply.

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

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

4 Default partition

4.1 General

If not otherwise indicated, the default partition shall be that which partitions the skin model (in specification), the nominal model and the sampled surface model (in verification) into single features (single surfaces or single lines). See Figure 1.

For the purposes of this document, a single feature is taken to be of maximum extent. The maximum extent is derived from any combination of length, area, curvature, invariance degree and point set characteristics.

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