Second edition
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Geometrical Product Specifications (GPS) — Length standards — Gauge blocks

Spécification géométrique des produits (GPS) — Étalons de longueur — Cales-étalons

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Contents

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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.

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.

International Standard ISO 3650 was prepared by Technical Committee ISO/TC 213, *Dimensional and geometrical product specifications and verification*.

This second edition cancels and replaces the first edition (ISO 3650:1978), which has been technically revised.

Annexes A, B and C of this International Standard are for information only.

Introduction

This International Standard is a geometrical product specification standard and is to be regarded as a general GPS standard (see ISO/TR 14638). It influences chain link 6 (Calibration requirements — Calibration standards) of the chain of standards on size and distance.

For more detailed information on the relation of this standard to the GPS matrix model, see annex B.

Gauge blocks are length standards representing specified fractions of the unit of length, the metre, of the international system of units SI. Depending on the kind of application and the required quality, gauge blocks are offered in several grades. The calibration of the gauge blocks, i.e. the measurement of the length value at a specified point of the measuring face and the evaluation of the measurement uncertainty, is the basis for the application of gauge blocks as length standards.