

**Implementation of
ISO 10110-5:1996**

Optics and optical instruments — Preparation of drawings for optical elements and systems —

Part 5: Surface form tolerances

ICS 37.020

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee CPW/172, Optics and optical instruments, upon which the following bodies were represented:

- AEA Technology
- Association of Industrial Laser Users
- British Computer Society
- British Measurement and Testing Association
- College of Optometrists
- Department of Trade and Industry (Eureka 643)
- Department of Trade and Industry (National Physical Laboratory)
- Engineering Equipment and Materials Users' Association
- Flat Glass Manufacturers' Association
- Institute of Physics
- Ministry of Defence
- Scottish Optoelectronics Association
- Sira Limited
- Society of British Aerospace Companies Limited
- United Kingdom Laser and Electro-optic Association

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National foreword

This British Standard reproduces verbatim ISO 10110-5:1996 and implements it as the UK national standard.

This British Standard is published under the direction of the Consumer Products and Services Sector Board whose Technical Committee CPW/172 has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international committee any enquiries on interpretation, or proposals for change, and keep UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the ISO title page, pages ii to iv, pages 1 to 14 and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

INTERNATIONAL
STANDARD

ISO
10110-5

First edition
1996-03-15

**Optics and optical instruments —
Preparation of drawings for optical
elements and systems —**

Part 5:
Surface form tolerances

*Optique et instruments d'optique — Indications sur les dessins pour
éléments et systèmes optiques —*

Partie 5: Tolérances de forme de surface



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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 10110-5 was prepared by Technical Committee ISO/TC 172, *Optics and optical instruments*, Subcommittee SC 1, *Fundamental standards*.

ISO 10110 consists of the following parts, under the general title *Optics and optical instruments — Preparation of drawings for optical elements and systems*:

- *Part 1: General;*
- *Part 2: Material imperfections — Stress birefringence;*
- *Part 3: Material imperfections — Bubbles and inclusions;*
- *Part 4: Material imperfections — Inhomogeneity and striae;*
- *Part 5: Surface form tolerances;*
- *Part 6: Centring tolerances;*
- *Part 7: Surface imperfection tolerances;*
- *Part 8: Surface texture;*
- *Part 9: Surface treatment and coating;*
- *Part 10: Table representing data of a lens element;*
- *Part 11: Non-toleranced data;*
- *Part 12: Aspheric surfaces;*
- *Part 13: Laser irradiation damage threshold.*

Annex A, Annex B, Annex C and Annex D of this part of ISO 10110 are for information only.

