

BUREAU OF INDIAN STANDARDS

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Doc No.: PGD 39 (23503)

IS 5920 (Part 3) : 2023

ISO 10110-6 : 2015

November 2023

भारतीय मानक मसौदा

प्रकाशिकी और फोटोनिक्स - प्रकाशीय तत्वों और प्रणालियों के लिए आरेखण तैयार करना -

भाग 3 केंद्रक सह्यता

Draft Indian Standard

**Optics and Photonics — Preparation of Drawings for Optical Elements and Systems
Part 3 Centring Tolerances**

ICS 01.100.20; 37.020

Optics and Photonics, PGD 39

NATIONAL FOREWORD

This draft Indian Standard (Part 3) which is identical with ISO 10110-6 : 2015 ‘Optics and photonics — Preparation of drawings for optical elements and systems — Part 6: Centring tolerances’ issued by the International Organization for Standardization (ISO) will be adopted by the Bureau of Indian Standards on the recommendation of the Optics and Photonics Sectional Committee and approval of the Production and General Engineering Division Council.

This standard specifies the presentation of design and functional requirements for optical elements and systems in technical drawings used for manufacturing and inspection. This document also specifies rules for indicating centring tolerances for optical elements, subassemblies, and assemblies.

This standard has been published in thirteen parts. Part 1 of this series supersedes the originally published Indian Standard IS 5920 : 1970 ‘Recommendation for the preparation of drawing for optical elements and system’. Other parts in this series are:

- Part 1 General
- Part 2 Surface form tolerances
- Part 4 Surface imperfections
- Part 5 Surface texture
- Part 6 Surface treatment and coating
- Part 7 Non-toleranced data
- Part 8 Aspheric surfaces

- Part 9 Wavefront deformation tolerance
- Part 10 Diffractive surfaces
- Part 11 Laser irradiation damage threshold
- Part 12 Stress birefringence, bubbles and inclusions, homogeneity, and striae
- Part 13 General description of surfaces and components

A list of all parts in the ISO 10110 series can be found on the ISO website.

The text of ISO standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are however not identical to those used in Indian Standards. Attention is particularly drawn to the following

- a) Wherever the words ‘International Standard’ appear referring to this standard, they should be read as ‘Indian Standard’.
- b) Comma (,) has been used as a decimal marker while in Indian Standards, the current-practice is to use a point (.) as the decimal marker.

In this adopted standard, references appear to the following International Standards for which Indian Standards also exists. The corresponding Indian Standards which are to be substituted in their respective places are listed below along with their degrees of equivalence for the editions indicated.

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
ISO 1101 Geometrical product specifications (GPS) — Geometrical tolerancing — Tolerances of form, orientation, location and run-out	IS 8000 (Part 1) : 2019/ ISO 1101 : 2017 Geometrical product specifications (GPS) — Geometrical tolerancing : Part 1 Tolerances of form, orientation, location and run-out (Second Revision)	Identical
ISO 5459 Geometrical product specifications (GPS) — Geometrical tolerancing — Datums and datum systems	IS 10721 : 2023/ ISO 5459 : 2011 Geometrical product specifications (GPS) — Datum and datum systems for, geometrical tolerancing on technical drawings	Identical
ISO 10110-1- Optics and photonics— Preparation of drawings for optical elements and systems— Part1: General ISO 10110-1- Optics and photonics— Preparation of drawings for optical elements and systems— Part1: General	IS 5920 (Part 1) : XXXX/ISO 10110-1 : 2019 — Optics and Photonics — Preparation of Drawings for Optical Elements and Systems : Part 1 General	Identical

NOTE: The technical content of draft standard is not available on website. For details, please refer to ISO 10110-6 : 2023 or contact:

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