BUREAU OF INDIAN STANDARDS
DRAFT FOR COMMENTS ONLY

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 सहनशीलता

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) was 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, reference appears to the following International Standard for which Indian Standard also exists. The corresponding Indian Standard which is to be substituted in its place is listed below along with its degree of equivalence for the edition indicated.

International Standard	*Corresponding Indian Standard*	*Degree of Equivalence*
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 : 1983/ ISO 5459 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: GeneralISO 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:

Head
Production and General Engineering Department
Bureau of Indian Standards
9 Bahadur Shah Zafar Marg New Delhi-110002
Email: pgd@bis.org.in
Telefax:011-23234819