INTERNATIONAL STANDARD

ISO 8040

Second edition
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Optics and optical instruments — Microscopes — Dimensions of tube slide and tube slot connections

Optique et instruments d'optique — Microscopes — Dimensions de liaison des tirettes et des logements de tirette

Reference number
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Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

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.

Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 8040 was prepared by Technical Committee ISO/TC 172, *Optics and optical instruments*, Subcommittee SC 5, *Microscopes and endoscopes*.

This second edition cancels and replaces the first edition (ISO 8040:1986), which has been technically revised.

Introduction

In order to produce different effects, it is common practice to use with microscopes many auxiliary devices, such as compensators and auxiliary preparations.

The dimensions of tube slides and tube slots are specified in this International Standard so that auxiliary devices can become interchangeable, thus opening up the possibility of using auxiliary devices designed for microscopes by all manufacturers.

Optics and optical instruments — Microscopes — Dimensions of tube slide and tube slot connections

1 Scope

This International Standard specifies the mechanical dimensions required for the interchange of auxiliary optics and compensators on microscopes made by all manufacturers.

2 Normative reference

The following normative document contains provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest editions of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 8576:1996, *Optics and optical instruments — Microscopes — Reference system of polarized light microscopy*.

3 Mechanical dimensions

3.1 General

The dimensions of tube slides shall be as specified in 3.2 and shown in Figure 1. The dimensions of tube slots shall be as specified in 3.3 and shown in Figure 2.

3.2 Tube slides

Contact springs shall be attached to the side of the tube slide, as shown in Figure 1, if the slide is equipped with optical elements requiring accurate positioning.

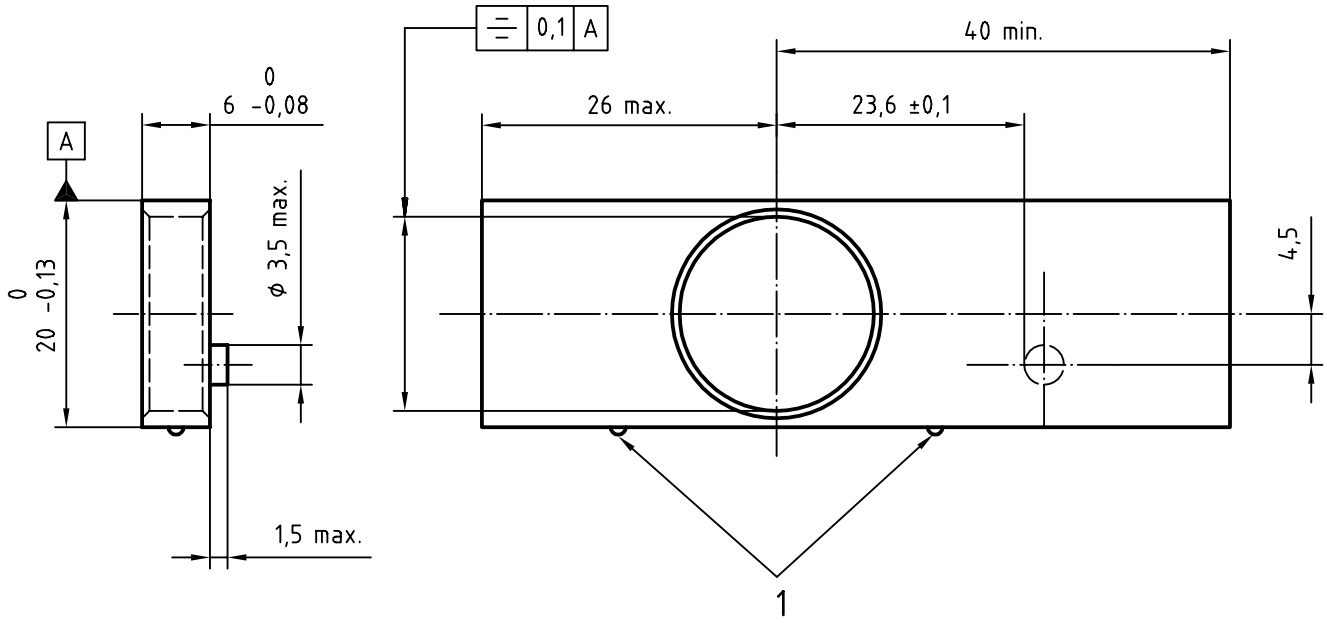
The contact springs shall be capable of being compressed within the confines of the slide.

3.3 Tube slots

Contact springs shall be attached at the top of the tube slot, as shown in Figure 2. The contact springs shall be capable of being compressed beyond the confines of the slot.

The orientation of the tube slots shall be in accordance with ISO 8576.

Dimensions in millimetres

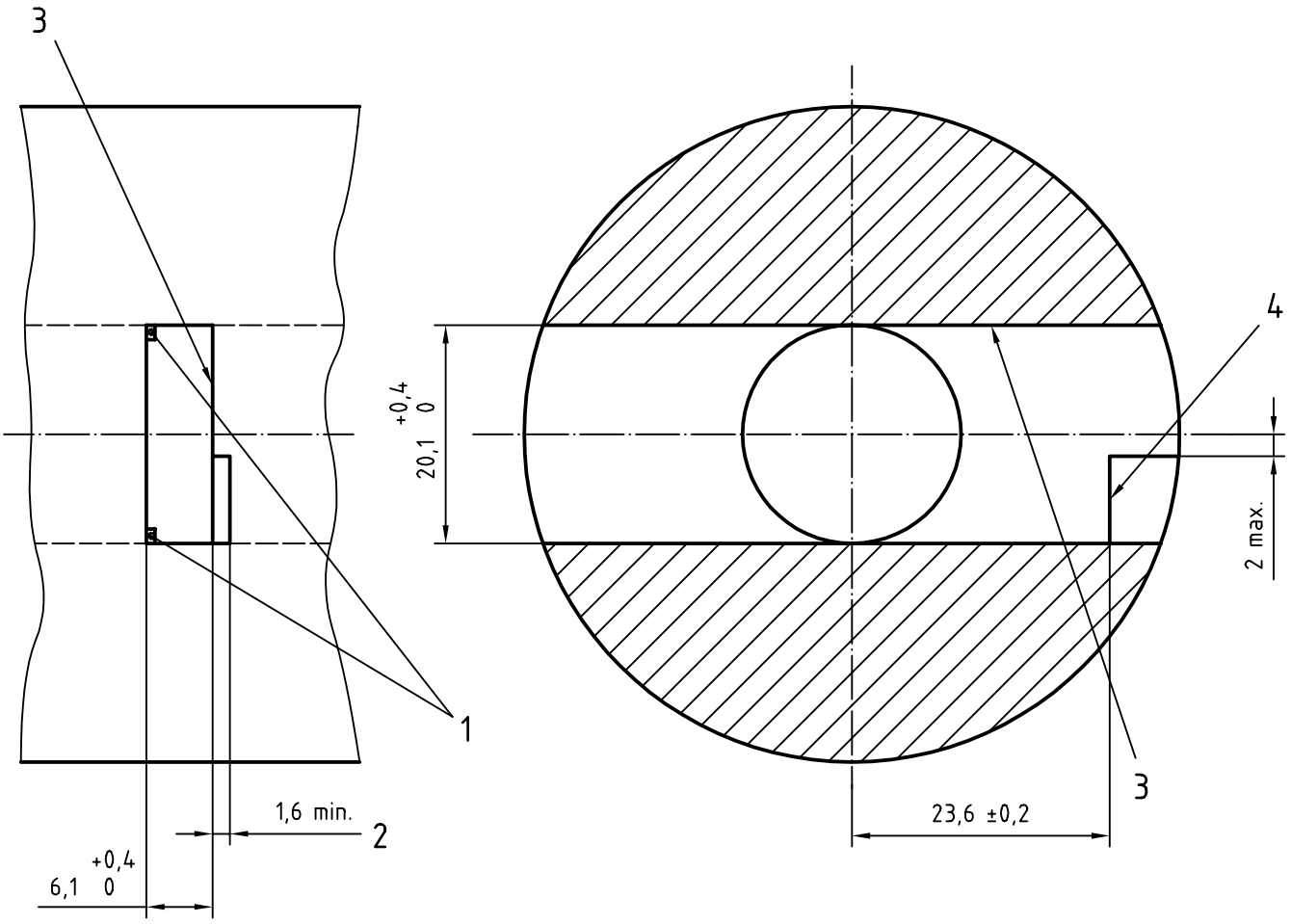


Key

1 Contact springs

Figure 1 — Dimensions of the tube slides

Dimensions in millimetres



Key

1 Contact springs
2 Depth of stop groove
3 Reference surface
4 Locating surface

Figure 2 — Dimensions of the tube slots

ICS 37.020

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