

---

---

**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*

STANDARDSISO.COM : Click to view the full PDF of ISO 8040:2001



**PDF disclaimer**

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

STANDARDSISO.COM : Click to view the full PDF of ISO 8040:2001

© ISO 2001

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Case postale 56 • CH-1211 Geneva 20  
Tel. + 41 22 749 01 11  
Fax + 41 22 749 09 47  
E-mail [copyright@iso.ch](mailto:copyright@iso.ch)  
Web [www.iso.ch](http://www.iso.ch)

Printed in Switzerland

## 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.

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.

STANDARDSISO.COM : Click to view the full PDF of ISO 8040:2001

## 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.

STANDARDSISO.COM : Click to view the full PDF of ISO 8040:2001

# 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.

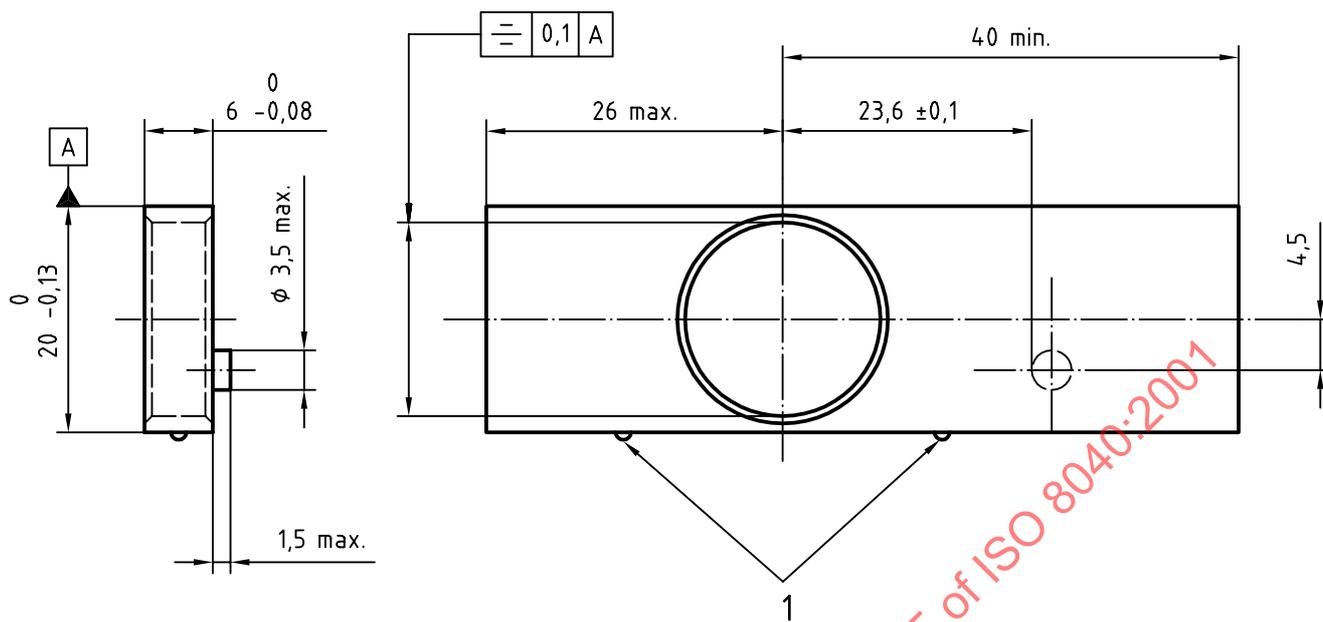
The contact springs shall be capable of being compressed within the confines of the slide.

### 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

STANDARDSISO.COM : Click to view the full PDF of ISO 8040:2001