
**Določanje velikosti obutve - Merjenje notranjosti čevlja - 1. del: Dolžina čevlja
(ISO/DIS 19410-1:2021)**

Footwear sizing - Inshoe measurement - Part 1: Shoe length (ISO/DIS 19410-1:2021)

Schuhgrößenbestimmung - Messung des Innenschuhs - Teil 1: Schuhlänge (ISO/DIS 19410-1:2021)

Chaussures - Pointures - Partie 1: Mesurage interne des chaussures (ISO/DIS 19410-1:2021)

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ICS:

61.060

Obuvala

Footwear

oSIST prEN ISO 19410-1:2022**en,fr,de**

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Footwear sizing — In-shoe measurement —

Part 1: Shoe length

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the

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Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

This document was prepared by Technical Committee ISO/TC 137, *Footwear sizing designations and marking systems*

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Introduction

The International Organization for Standardization (ISO) draw attention to the fact that it is claimed that compliance with this document may involve the use of a patent.

ISO takes no position concerning the evidence, validity and scope of this patent right.

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Footwear sizing — In-shoe measurement —

Part 1: Shoe length

1 Scope

This standard specifies a method to measure the effective shoe length to accommodate the foot. This standard is not applicable to heel and toe open shoes (example: sandals).

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/TS 19407, *Footwear — Sizing — Conversion of sizing systems*

ISO/TS 19408, *Footwear — Sizing — Vocabulary and terminology*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://standards.iteh.ai/catalog/standards/sist/bcc6e319-3159-4861-b17d-59756379268d/sist-pr-en-iso-19410-1-2022>
- IEC Electropedia: available at <https://www.electropedia.org/>

4 Principle

A toe sensor of specified dimensions is inserted into the toe of the footwear and a second sensor located against the inside of the maximum heel swell of the back curve. The distance between the two sensors measured along the insole surface, or close to it, is taken as the effective length of the footwear. The effective length value can be compared with ISO TS 19407 to determine the nominal shoe size.

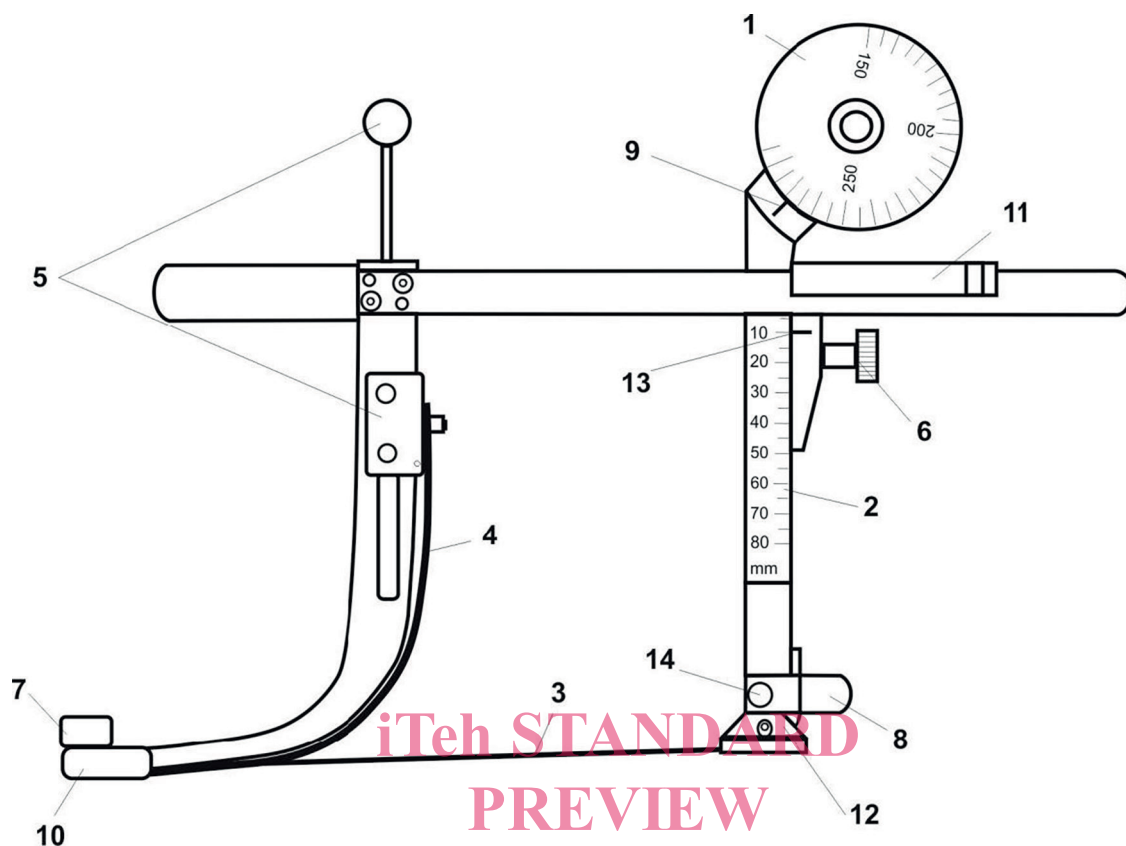
5 Apparatus

Dimensions given in the figures are in mm.

5.1 Length measurement

comprising a toe sensor, a heel sensor and a means of measuring the distance between them along the insole surface, as illustrated in [Figure 1\(a\)](#).

Note Depending on the size and design of the shoes, the appropriate device may be used.



Key

- | | |
|--|---|
| 1 length scale | 8 heel back curve sensor |
| 2 heel height scale | 9 reading mark calibrated to read effective length (mm) |
| 3 measuring wire | 10 toe sensor (to include height) |
| 4 feather to press the wire (3) down on insole | 11 mechanism to move the heel back curve sensor parts (1, 6, 2 and 8) |
| 5 mechanism to move part (4) down onto (3) | 12 heel seat sensor |
| 6 screw to fix part (2) | 13 reading mark of heel height |
| 7 replaceable toe height piece | 14 screw to fix heel back curve sensor (8) |

Note if the footwear to be measures has a heel height < 25 mm then the device may be simplified by removing the measuring wire (3) and fixing the heel height scale (2) to zero heel height (see example [Figure 1\(b\)](#)). At 25 mm the difference between a linear measure between the toe and heel will not be significantly different from one following the insole surface.

Figure 1(a) — Example of length measuring device