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Footwear sizing — Mondopoint system of sizing and marking

Pointure des chaussures — Système Mondopoint de mesure et de marquage

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ISO 9407:2019

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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.

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 editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

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

This second edition cancels and replaces the first edition (ISO 9407:1991), which has been technically revised. The main changes compared with the previous edition are as follows:

- references have been added and alignment has been made to ISO/TS 19407 and ISO/TS 19408;
- new pictograms have been added.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

Mondopoint offers a simple and universal solution to the problem of communicating footwear sizing to customers in the global market, overcoming the present confusion resulting from labelling with multiple size systems. Online and mail-order customers are commonly encouraged to measure and report their foot length as a guide to shoe size selection. Mondopoint lends itself directly to this approach.

The last maker will use whatever last dimensions they consider necessary to produce the required footwear fitting properties, taking into account factors such as footwear type and style, modulus/stretch characteristics of the upper materials being used, and the thickness of hose appropriate to the type of footwear.

Deleted: Of course, size (foot length) is not the only factor that influences customer choice.

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The length grading interval, which is the difference between adjacent whole shoe sizes (as defined in ISO/TS 19408:2015, 2.1.9), used by manufacturers aligning to the Mondopoint system, is normally 5 mm, although 7,5 mm is sometimes used in specialist footwear applications.

Some manufacturers, particularly in the Far East, use the Mondopoint sizing system but do not necessarily label it as Mondopoint, as shown in Table 1, for example.

Table 1 — Example of a sizing system

Shoe	mm	CN	JP	Korea
1	260	260	260	260
2	265	265	265	265

Some manufacturers express size in centimetres rather than millimetres (e.g. 26 in place of 260 or 26,5 in place of 265). Other manufacturers give size markings that relate to last length rather than foot length.

Neither of these expressions of size conform to this document.

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Regarding the linear width of the foot (or indeed, the joint girth of the foot or any other foot dimension):

- a) it is good commercial practice to design footwear to fit the average foot in a given market based on knowledge of foot morphology for the demographic or ethnic group, and on statistical average foot dimension values for each shoe size in the specific market;
- b) because the statistical distribution of the dimensions of the feet to be fitted differs from one country to another according to the characteristics of the population and because of the diversity of grading systems in different countries, it is not considered possible at present to define a width designation system at the international level, other than as given in this document;
- c) other sizing systems use various codes to indicate the joint girth of the foot fitting properties of footwear; usually each market decides which joint girth designation reflects the "average" population girth and what joint girth value to associate with each designation.

EXAMPLE China uses decimal notation: 2,0, 2,5, 3,0, 3,5...; the UK, US and Japan use letters: A, B, C, D...; the EU uses letters or whole numbers: 3, 4, 5, 6...; and Germany additionally uses WMS (weit-mittel-schmal or wide-medium-small/narrow) for children's footwear.

Footwear sizing — Mondopoint system of sizing and marking

1 Scope

This document specifies a method of designation and marking of footwear size called Mondopoint, based on defined measurements of the foot that the footwear is intended to fit.

This document is applicable to all types of footwear.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

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

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

3.1 footwear shoe

article(s) made of a sole (outsole) and an upper in different materials designed to protect or cover the foot

Note 1 to entry: This shall be interpreted to mean all types of footwear without restriction, including boots, slippers, sandals, etc.

[SOURCE: ISO 19952:2005, 68, modified — Note 1 to entry has been added.]

3.2 shoe size

designated size marking of a *shoe* (3.1) or last made for a given *foot length* (3.3) in any given shoe sizing system

[SOURCE: ISO/TS 19408:2015, 2.1.11]

3.3 foot length

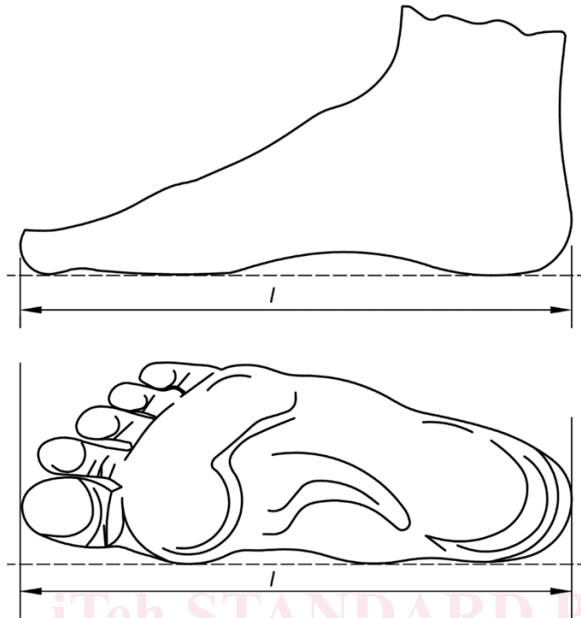
maximum horizontal distance from the centre of the back of the heel (maximum point of heel curve) to the end of the most prominent toe, with the subject standing with the weight of the body equally distributed on both feet, barefoot or wearing thin hose that does not significantly affect the dimensions of the foot

Note 1 to entry: Measure the foot length along the inside tangent. See Figure 1.

[SOURCE: ISO/TS 19408:2015, 2.1.4, modified — The second method has been removed from Note 1 to entry.]

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Key
 l length

Figure 1 — Foot length measured along the inside tangent

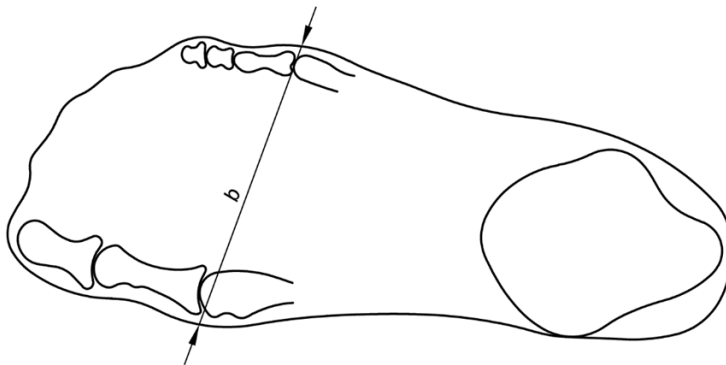
3.4

linear width of the foot standards.iteh.ai/catalog/standards/sist/18dea702-0874-4d22-b859-dbcd40cc2155/iso-9407-2019
 maximum horizontal distance, o , between the outside swell of the head of the first metatarsal and outside swell of the head of the fifth metatarsal of the foot measured under the same conditions as *foot length* (3.3)

Note 1 to entry: See [Figures 2 and 3](#).

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[SOURCE: ISO/TS 19408:2015, 2.1.10, modified — "measured under the same conditions as foot length" has replaced "or the corresponding points at the last" and Note 1 to entry has been replaced.]



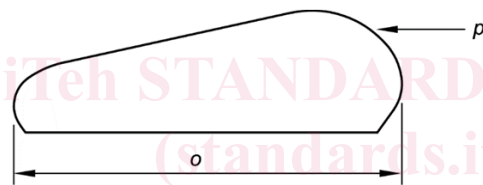
Key*b* linear width of foot**Figure 2 — Joint position of the foot****3.5****joint girth of the foot****anatomic ball girth of the foot**

circumference of the foot in a vertical plane around the heads of the first and fifth metatarsal bones

Note 1 to entry: See Figure 3.

Note 2 to entry: The measurement is made using a flexible inelastic tape approximately 8 mm to 10 mm wide, applying only a slight pressure that does not significantly affect the dimensions of the foot, and under the same conditions as *foot length* (3.3). The tape is positioned with one edge aligned with the metatarsophalangeal joints of the first and fifth metatarsals and the width of the tape laying behind (posterior) the metatarsophalangeal joint, as shown in Figure 2.

[SOURCE: ISO/TS 19408:2015, 2.1.8, modified — Notes 1 and 2 to entry have been replaced.]

**Key***o* linear width of foot*p* joint girth of the foot**Figure 3 — Linear width and joint girth of the foot at the joint position****3.6****Mondopoint***footwear* (3.1) sizing system based on the *foot length* (3.3) and *linear width of the foot* (3.4)

Note 1 to entry: Mondopoint is measured in millimetres.

4 Fundamental characteristics of the Mondopoint sizing system**4.1** The sizing system shall be based on the two measurements given in 4.2 and 4.3.**4.2** Length of the foot, which is the primary characteristic, measured in millimetres and expressed as an integer, that the footwear is intended to fit.**4.3** Linear width of the foot, which is the secondary characteristic, measured in millimetres and expressed as an integer, that the footwear is intended to fit.**NOTE** The above provisions do not preclude the use of the joint girth of the foot or other foot dimensions at other stages of the specification and manufacture of footwear.

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5 Method of expressing Mondopoint sizing

Mondopoint sizing shall be expressed using the measurement, in millimetres, corresponding to the length of the foot (see 4.2) and, if required, to the linear width of the foot (see 4.3), without mention of the measurement units.

NOTE The above provision does not preclude the use of codes as an additional means of expressing the linear width or joint girth of the foot.

6 Footwear marking

6.1 Format

The size marking shall be preceded by "MP" in upper-case lettering or "Mondo" and shall include the length of the foot (see 4.2) followed by, if required, the linear width of the foot (see 4.3) with the numbers separated by a dash, an oblique line or brackets. The characters used shall be clearly separated from any other information.

EXAMPLE	MP263	MP263/94	MP263-94	MP263(94)
	Mondo 263	Mondo 263/94	Mondo 263-94	Mondo 263(94)

6.2 Location of the marking

6.2.1 On the shoe

Mondopoint size shall be marked on each shoe, on an appropriate part of the shoe where the marking is clearly visible and legible.

6.2.2 On the packaging

When shoes are to be contained in a box or other form of packaging, the Mondopoint size shall also be given on this packaging.

6.3 Form of the marking

The form of the marking and the means by which it is to be applied (by punch, stamp, adhesive label, etc.) can be chosen by the manufacturer provided that the marking remains visible and legible on the shoe for as long as necessary.

7 Transition from other shoe size systems

Other shoe sizing systems shall be adapted to the corresponding Mondopoint size by converting each other size into the corresponding length of the foot (see 4.2) that is best accommodated by the footwear. A designation of the Mondopoint **linear** width of the foot (see 4.3) may also be included.

The relationship between Mondopoint and UK, US and European size systems should conform to ISO/TS 19407.