
**Reduction sleeves and extension
sockets for tools with Morse taper
shanks**

Douilles de réduction et allonges pour outils au cône Morse

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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 on 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 the following URL: www.iso.org/iso/foreword.html.

The committee responsible for this document is ISO/TC 29, *Small tools*, Subcommittee SC 2, *Holding tools, adaptive items and interfaces*.

This second edition cancels and replaces the first edition (ISO 238:1974), of which it constitutes a minor revision, notably with the addition of [Annex A](#), which gives the relationship between the designations of this document and the ISO 13399 series.

Reduction sleeves and extension sockets for tools with Morse taper shanks

1 Scope

This document specifies the dimensions of the following two pieces of equipment:

- a) reduction sleeves for tools with Morse taper shanks;
- b) extension sockets for tools with Morse taper shanks.

It comprises, for each of them, two tables giving the dimensions in millimetres and the corresponding dimensions in inches, respectively.

2 Normative references

There are no normative references in this document.

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:

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

4 Interchangeability

4.1 General

The numerical values given, whether in millimetres or in inches, automatically ensure interchangeability with the corresponding machines and tools, whatever the system of units employed.

The mating dimensions of the sleeves and sockets are in fact in accordance with those specified in ISO 296 for Morse taper shanks, which were determined so as to give the same guarantee of interchangeability.

4.2 Reduction sleeves

In the reduction sleeves in millimetres and in inches, the inside taper is always strictly the same as the standard Morse taper of the same number, even in its length.

The same applies to the outside taper, except for the length which is sometimes equal to or sometimes greater than that of the standard taper of the same number.

4.3 Extension sockets

The statements made above concerning the Morse taper dimensions of the reduction sleeves are equally applicable to the extension sockets, under the same conditions.