

# INTERNATIONAL STANDARD



# 4202

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

## Reduction sleeves with external 7/24 taper for tools with Morse taper shanks

*Douilles de réduction au cône extérieur 7/24 pour outils à queue cône Morse*

Second edition — 1978-08-15

STANDARDSISO.COM : Click to view the full PDF of ISO 4202:1978

UDC 621.9.06-229.2

Ref. No. ISO 4202-1978 (E)

**Descriptors :** tools, Morse taper shanks, chuck bushings, adapter sleeves, dimensions.

## FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 4202 was developed by Technical Committee ISO/TC 29, *Small tools*. This second edition incorporates Addendum 1 (reduction sleeves with external 7/24 taper No. 45), which was circulated to the member bodies in May 1977, and has been approved by the member bodies of the following countries :

|                |                       |                |
|----------------|-----------------------|----------------|
| Australia      | Hungary               | Spain          |
| Austria        | India                 | Sweden         |
| Belgium        | Israel                | Switzerland    |
| Brazil         | Italy                 | Turkey         |
| Bulgaria       | Japan                 | United Kingdom |
| Chile          | Mexico                | U.S.A.         |
| Czechoslovakia | Poland                | U.S.S.R.       |
| France         | Romania               | Yugoslavia     |
| Germany        | South Africa, Rep. of |                |

No member body expressed disapproval of Addendum 1.

This second edition cancels and replaces the first edition (i.e ISO 4202-1976), which had been approved by the member bodies of the following countries :

|                |                       |                |
|----------------|-----------------------|----------------|
| Australia      | India                 | Spain          |
| Austria        | Israel                | Sweden         |
| Belgium        | Italy                 | Switzerland    |
| Bulgaria       | Japan                 | Turkey         |
| Czechoslovakia | Mexico                | United Kingdom |
| France         | Poland                | U.S.S.R.       |
| Germany        | Romania               | Yugoslavia     |
| Hungary        | South Africa, Rep. of |                |

No Member Body had expressed disapproval of the document.

# Reduction sleeves with external 7/24 taper for tools with Morse taper shanks

## 1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the dimensions of reduction sleeves with external 7/24 taper (Nos. 30, 40, 45, 50 and 60) for tools with Morse taper shanks (Nos. 1 to 6).

All these sleeves allow driving of tools having Morse taper shanks which have a tenon at the small end of the shank; some sleeves allow driving of tools having Morse taper shanks which have an axially tapped hole in the shank :

- with the use of an incorporated screw for sleeves 30 × 1 — 40 × 1 — 40 × 2 — 45 × 1 — 45 × 2 — 45 × 3 — 50 × 2 — 50 × 3 — 50 × 4 — 60 × 3 — 60 × 4 — 60 × 5;

- with the use of a draw bar for sleeves 30 × 1 — 30 × 2 — 40 × 1 — 40 × 2 — 40 × 3 — 45 × 1 — 45 × 2 — 45 × 3 — 45 × 4 — 50 × 2 — 50 × 3 — 50 × 4 — 50 × 5 — 60 × 3 — 60 × 4 — 60 × 5 — 60 × 6.

Morse tapers conform to ISO 296 and 7/24 tapers are in accordance with ISO 297 and ISO 2583.

## 2 REFERENCES

ISO 296, *Machine tools — Self-holding tapers for tool shanks.*

ISO 297, *7/24 tapers for tool shanks.*<sup>1)</sup>

ISO 2583, *Tool shanks and equipment with 7/24 tapers — Collar dimensions.*

1) At present at the stage of draft. (Revision of ISO/R 297-1963 and addenda 1,2 and 3.)