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# International Standard



# 1180

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

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## Shanks for pneumatic tools and fitting dimensions of chuck bushings

*Queues d'outils pneumatiques et dimensions d'interchangeabilité des douilles porte-outil*

First edition — 1983-12-15

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UDC 621.9.02 : 621.542

Ref. No. 1180-1983 (E)

**Descriptors :** tools, shanks, interchangeability, dimensional tolerances, tolerance of position.

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (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 authorized 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 1180 was developed by Technical Committee ISO/TC 29, *Small tools*, and was circulated to the member bodies in November 1981.

It has been approved by the member bodies of the following countries :

Austria	India	South Africa, Rep. of
Belgium	Israel	Spain
China	Italy	Sweden
Czechoslovakia	Korea, Dem. P. Rep. of	Switzerland
Egypt, Arab Rep. of	Korea, Rep. of	United Kingdom
France	Mexico	USSR
Hungary	Romania	Yugoslavia

The member body of the following country expressed disapproval of the document on technical grounds :

Germany, F.R.

This International Standard cancels and replaces ISO Recommendation R 1180-1970 and ISO Recommendation R 1571-1970, of which it constitutes a technical revision.

# Shanks for pneumatic tools and fitting dimensions of chuck bushings

## 1 Scope and field of application

This International Standard relates to shanks for pneumatic tools and corresponding chuck bushings and deals with the following types :

- coal pick shanks;
- chisel shanks;
- rivet snap shanks, parallel;
- rivet snap shanks, tapered;
- breaker and spade shanks;
- concrete breaker shanks;
- rock drill shanks.

The types relate to the machine for which they are mainly designed, but this does not prevent the use of the shanks for other applications.

Other types of tools will be dealt with in further International Standards when the corresponding studies are completed.

Pneumatic hammers and their chuck bushings are not covered by this International Standard but those features of chuck bushings (dimensions and tolerances) which ensure interchangeability are specified.

For each tool mentioned above, this International Standard provides tables giving dimensions in millimetres.

Dimensions in inches are given in the annex which be valid for five years from the date when this International Standard is approved.

## 2 Reference

ISO 723 *Rock-drilling — Forged collared shanks and chuck bushings for hollow hexagonal drill steels.*

## 3 Interchangeability

The numerical values specified in this International Standard ensure interchangeability even if the shank and the corresponding chuck bushing are not manufactured in the same system of units.

## 4 Designation of shanks

The designation of shanks should be composed of

- the name of the type of shank;
- the shank size (first column in the tables);
- the length of the shank.

*Example :*

**Breaker shank 25 × 108**