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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION
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МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ

Tools for pressing — Guides for round punches

Outils de presse — Guides pour poinçons ronds

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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.

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. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 8978 was prepared by Technical Committee ISO/TC 29, *Small tools*.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

Tools for pressing — Guides for round punches

1 Scope and field of application

This International Standard lays down the basic dimensions and tolerances in millimetres of guides for round punches.

It gives examples of materials and hardness, and specifies a designation of guides for round punches which meet the requirements of this International Standard.

The main use of guides for round punches defined in this International Standard is for punching holes in steel sheet. They may also be used for punching holes in other materials.

2 References

ISO 4957, *Tool steels*.

ISO 6508, *Metallic materials — Hardness test — Rockwell test (scales A - B - C - D - E - F - G - H - K)*.

ISO 8021, *Round punches with cylindrical head and straight shank*.

3 Dimensions

See the figure and the table.

4 Material and hardness

The material is left to the manufacturer's discretion. The following hardness values are given as examples:

- a) Tool steel with 5 to 12 % Cr: 62 ± 2 HRC
- b) High-speed steel: 64 ± 2 HRC

5 Designation

A guide for round punches in accordance with this International Standard shall be designated by

- a) "Guide for round punches";
- b) reference to this International Standard;
- c) its external diameter, D ;
- d) its internal diameter, d .

Example:

The designation for a guide for round punches of external diameter $D = 5$ mm and internal diameter $d = 1$ mm is as follows:

Guide for round punches ISO 8978 - 5 × 1