
Tools for moulding — Angle pins

Outils de moulage — Doigts de démoulage



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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 29, *Small tools*, Subcommittee SC 8, *Tools for pressing and moulding*.

This fourth edition cancels and replaces the third edition (ISO 8404:2013) which has been technically revised.

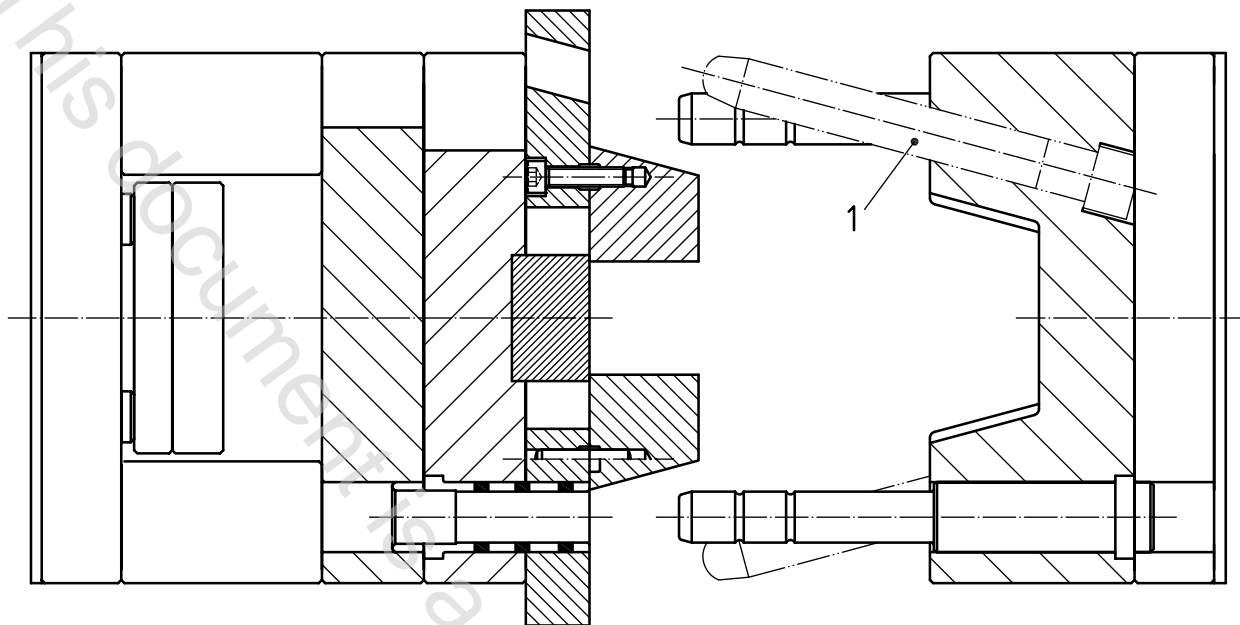
The main changes compared to the previous edition are as follows:

- addition of two new types of angle pins: angle pins mounted with external thread (type C) and angle pins mounted with hexagon socket head cap screw (type D);
- correction of [Figure 1](#);
- addition of an indication of surface roughness under the head of headed angle pins ([Figure 2](#));
- modification of the height of headed angle pins of diameter $D_1 = 40$.

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

An example of an application of this document is shown in [Figure 1](#).



Key

1 angle pin (type A)

Figure 1 — Application example of a headed angle pin, type A

Tools for moulding — Angle pins

1 Scope

This document specifies the basic dimensions, in millimetres, of headed angle pins (type A), straight angle pins (type B), angle pins mounted with external thread (type C) and angle pins mounted with hexagon socket head cap screw (type D), intended for use in diecasting dies and tools for moulding.

It also specifies the material hardness and designation of the angle pins (types A, B, C and D).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 2768-1, *General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications*

ISO 4957, *Tool steels*

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:

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

4 Dimensions

4.1 Type A — Headed angle pins

The dimensions of headed angle pins shall be in accordance with the indications of [Figure 2](#) and [Table 1](#).