

# INTERNATIONAL STANDARD

**ISO**  
**8406**

First edition  
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## **Mould bases — Locating elements**

*Éléments de moules — Plots de centrage*

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Reference number  
ISO 8406:1991(E)

## 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 8406 was prepared by Technical Committee ISO/TC 29, *Small tools*, Sub-Committee SC 8, *Tools for pressing and moulding*.

Annex A of this International Standard is for information only.

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## Mould bases — Locating elements

### 1 Scope

This International Standard specifies the basic dimensions, in millimetres, of locating elements intended for use in moulds for accurate location of two mould parts with respect to one another.

It also specifies the material and hardness, and designation of locating elements in accordance with this International Standard.

### 2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 4957:1980, *Tool steels*.

### 3 Dimensions

See figure 1 and table 1.

### 4 Material and hardness

Locating elements shall be made from tool steel in accordance with ISO 4957 and shall have hardness value of  $(62 \pm 2)$  HRC.

### 5 Designation

A locating element in accordance with this International Standard shall be designated by

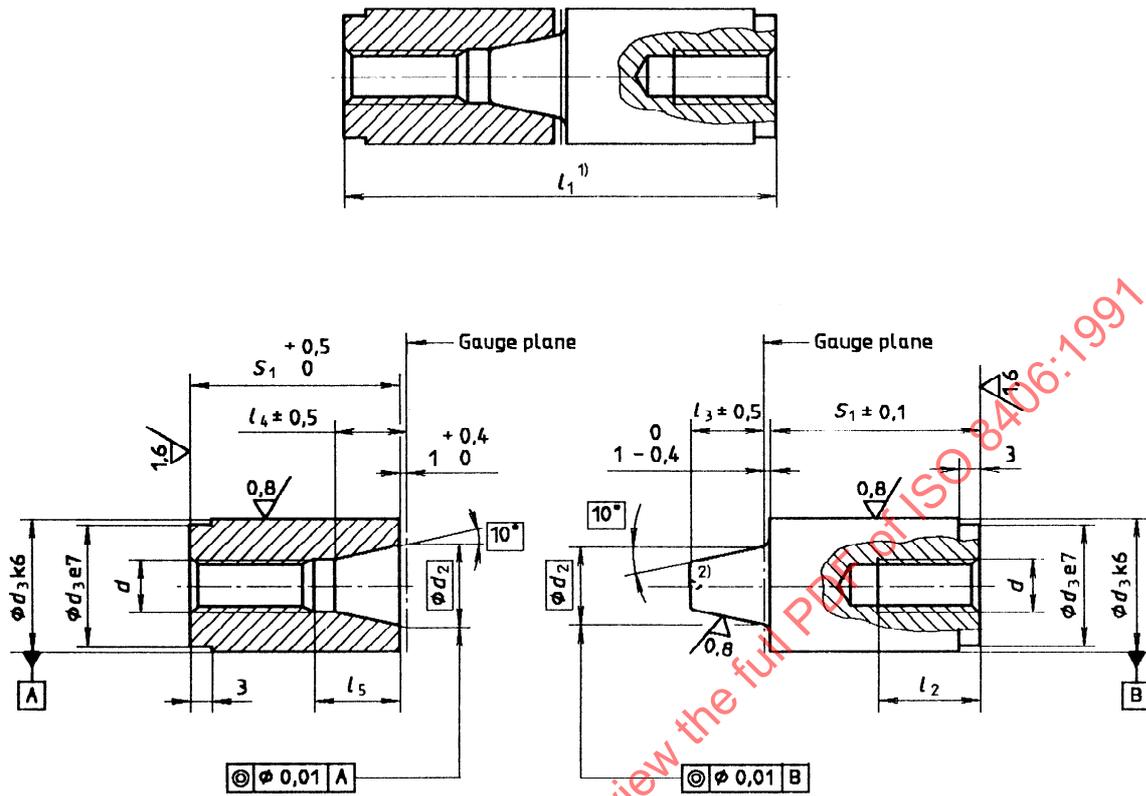
- a) "Locating element";
- b) reference to this International Standard;
- c) its diameter,  $d_2$ , in millimetres.

#### EXAMPLE

A locating element of diameter  $d_2 = 32$  mm is designated as follows:

**Locating element ISO 8406 - 32**

Surface roughness values in micrometres



- 1) The length is adjusted after mounting and the locating elements are supplied in pairs.
- 2) Centre hole for machining permitted.

Figure 1

Table 1

$d_2$	$l_1$ $\approx$	$l_2$	$l_3$	$l_4$	$l_5$	$d$	$d_3$	$S_1$
6	40	11	5	7	9	M4	12	19
10	50	11	6	8	10	M5	16	24
12	64	15	9	11	13	M8	20	31
16	64	15	10	12	14	M8	25	31
20	80	18	14	16	18	M10	32	39
25	100	18	18	20	22	M10	40	49
32	100	20	25	27	29	M12	50	49

**Annex A**  
(informative)

**Bibliography**

- [1] ISO 6508:1986, *Metallic materials — Hardness test — Rockwell test (scales A - B - C - D - E - F - G - H - K)*.

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