

INTERNATIONAL STANDARD

ISO
10073

First edition
1991-12-01

Tools for moulding — Support pillars

Outillage de moulage — Piliers d'entretoisement

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ISO 10073:1991

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Reference number
ISO 10073:1991(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 10073 was prepared by Technical Committee ISO/TC 29, *Small tools*, Sub-Committee SC 8, *Tools for pressing and moulding*.

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Annex A of this International Standard is for information only.

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Tools for moulding — Support pillars

1 Scope

This International Standard specifies the dimensions and tolerances, in millimetres, for support pillars intended for use in pressure die-cast dies, and plastics and rubber moulds.

It gives examples of materials and hardness, and specifies the designation of support pillars which meet the requirements of this International Standard.

2 Dimensions

See figure 1 and tables 1 and 2.

3 Material and hardness

The material shall be low carbon steel. This, as well as the hardness, shall be left to the manufacturers' discretion.

4 Designation

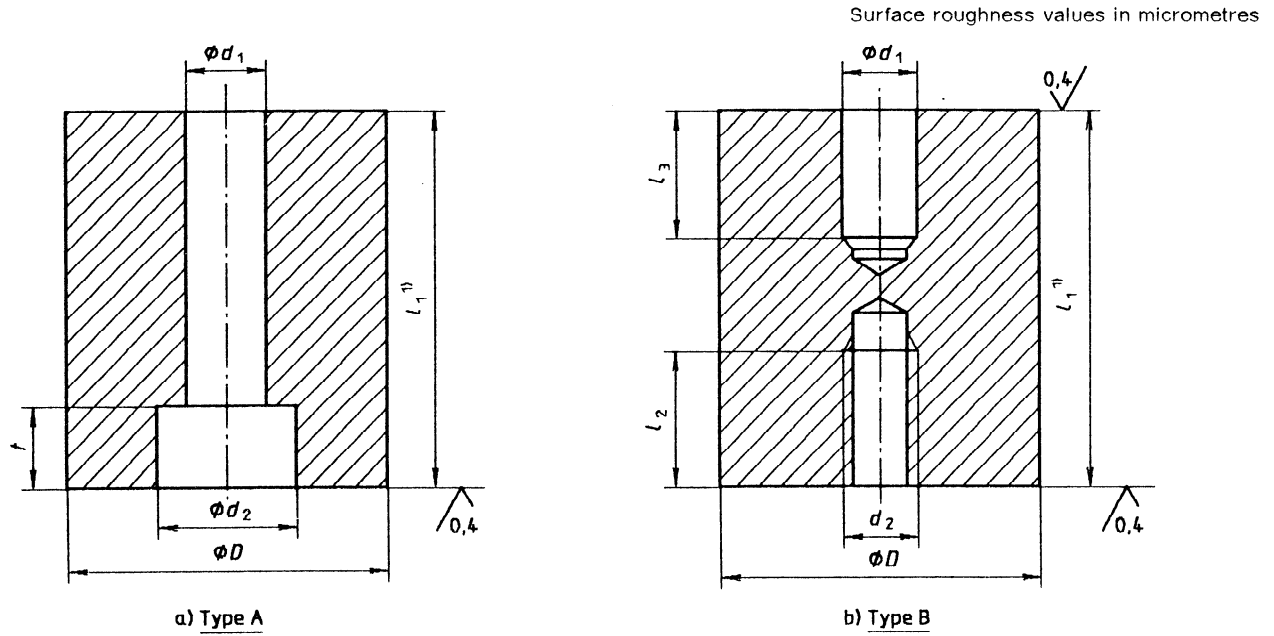
A support pillar in accordance with this International Standard shall be designated by

- a) "Support pillar";
- b) reference to this International Standard;
- c) type (A or B);
- d) exterior diameter, D , in millimetres;
- e) length, l_1 , in millimetres.

EXAMPLE

The designation for a support pillar, type A, of exterior diameter $D = 25$ mm and length $l_1 = 40$ mm is as follows:

Support pillar ISO 10073 - A - 25 × 40



1) The spacer blocks and the support pillars shall be ground to the same height when assembled in the completed moulds.

Figure 1 — Support pillars
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Table 1 — Support pillar, type A

D 0 -0,2	ISO 10073:1991 https://standards.iteh.ai/catalog/standards/sist/9099a6a8-528c-4271-9d58-bc6ee8ff442f/iso-10073-1991							d_1 ¹⁾	d_2	t	Thread size
	40	50	63	l_1 +0,15 +0,05	80	100	125				
25	x	x	x	x	x	x		9	15	9	M8
32	x	x	x	x	x	x		9	15	9	M8
40	x	x	x	x	x	x		11	18	11	M10
50		x	x	x	x	x		11	18	11	M10
63			x	x	x	x	x	13,5	20	13	M12
80			x	x	x	x	x	13,5	20	13	M12

1) In accordance with ISO 273, medium series.

Table 2 — Support pillar, type B

D 0 -0,2	l_1 +0,15 +0,05							d_1 H7	d_2	l_2	l_3
	40	50	63	80	100	125	160				
25	x	x	x	x	x	x		8	M8	15	15
32	x	x	x	x	x	x		8	M8	15	15
40	x	x	x	x	x	x		10	M10	18	18
50		x	x	x	x	x		10	M10	18	18
63			x	x	x	x	x	12	M12	20	20
80			x	x	x	x	x	12	M12	20	20

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Annex A
(informative)

Bibliography

[1] ISO 273:1979, *Fasteners — Clearance holes for bolts and screws.*

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Descriptors: tools, moulding equipment, moulds, supports, dimensions, designation.

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