

Second edition
2007-02-01

Corrected version
2007-03-15

**Tools for moulding — Guide pillars,
straight and shouldered, and locating
guide pillars, shouldered**

*Outils de moulage — Colonnes de guidage, droites et épaulées,
et épaulées avec plot de centrage*

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Reference number
ISO 8017:2007(E)

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Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

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.

ISO 8017 was prepared by Technical Committee ISO/TC 29, *Small tools*, Subcommittee SC 8, *Tools for pressing and moulding*.

This second edition cancels and replaces the first edition (ISO 8017:1985), of which it constitutes a minor revision. In particular, the references given in Clause 2, which are not mentioned in the text, have been listed in a Bibliography, and the indication of surface textures has been updated in accordance with ISO 1302:2002.

This corrected version incorporates the following correction:

- It corrects an error of reproduction in Figure 3, whereby the subscript became separated from the main symbol in dimension L_1 .

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Tools for moulding — Guide pillars, straight and shouldered, and locating guide pillars, shouldered

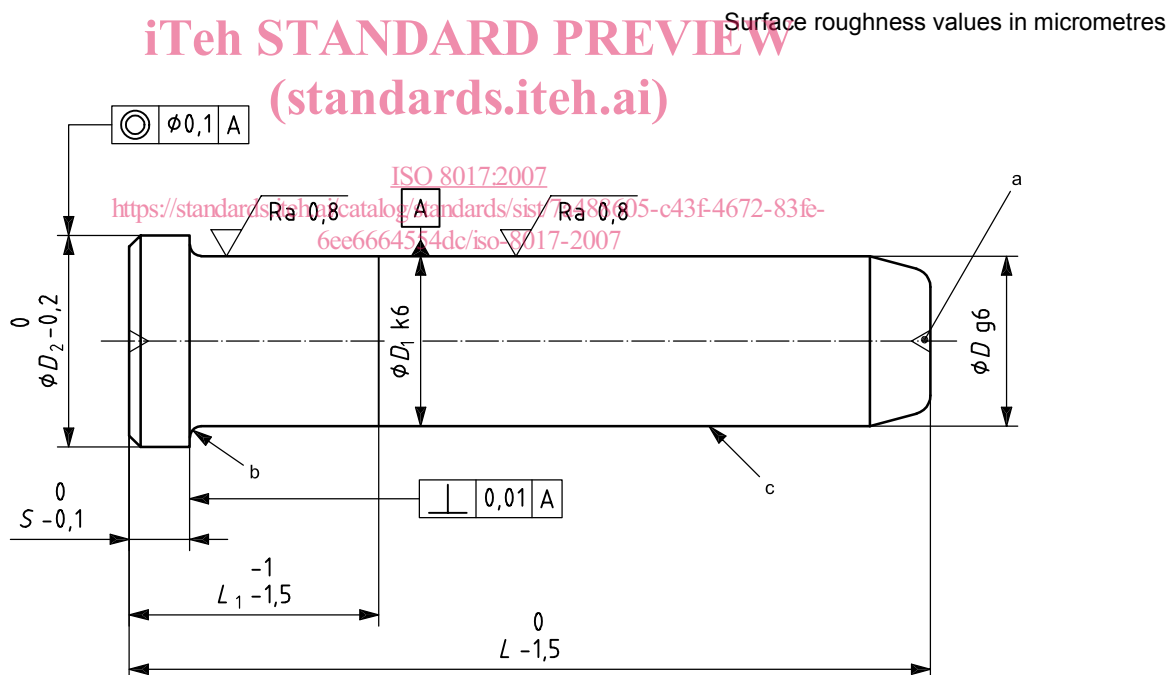
1 Scope

This International Standard specifies the dimensions and tolerances, in millimetres, for headed, straight and shouldered guide pillars and shouldered locating guide pillars intended for use in moulds.

2 Dimensions

2.1 Guide pillars, straight — Type A

The dimensions of straight guide pillars of type A shall conform to the indications of Figure 1 and Table 1.



NOTE The sketch is an example only.

Key

- a Optional centre holes.
- b Blending radius or a recess.
- c Recess if required.

Figure 1 — Guide pillars, straight — Type A

Table 1 — Dimensions of guide pillars, straight — Type A

D^a	12		16		20			25			32		40		50							
D_1^a	16		20		25			32			40		48		56							
S	4		6		6			6			8		8		8							
L	L_1																					
	20	25	32	25	32	40	25	32	40	50	25	32	40	50	40	50	50	63	80	63	80	100
40	x																					
50	x			x			x				x											
63	x			x			x				x											
80		x		x			x				x											
90		x		x			x					x			x							
100		x		x			x					x			x							
125			x		x			x					x		x							
160			x		x				x				x			x	x				x	
200						x			x				x		x	x					x	
250										x				x		x		x			x	
315																		x			x	
400																			x			x

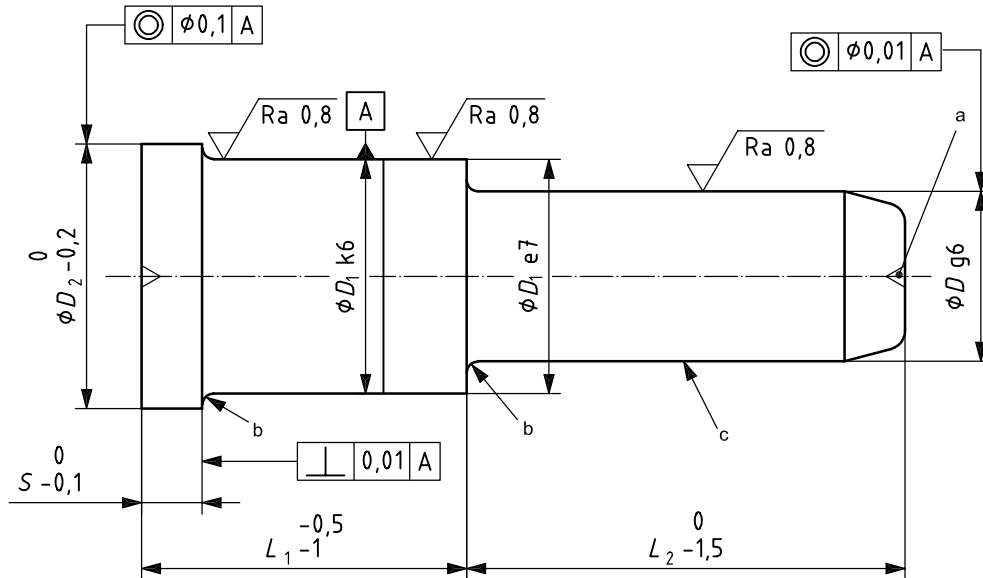
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^a For use in exceptional cases, for instance, to prevent incorrect assembly of the upper and lower plates of the mould in relation to each other, the following additional values for diameters D and D_1 are recommended: 11, 15, 19, 24, 30, 38 and 48.

2.2 Guide pillars, shouldered – Type B

The dimensions of shouldered guide pillars of type B shall conform to the indications of Figure 2 and Table 2.

Surface roughness values in micrometres



NOTE The sketch is an example only.

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Key

- a Optional centre holes.
- b Blending radius or a recess.
- c Recess if required.

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Figure 2 — Guide pillars, shouldered — Type B

Table 2 — Dimensions of guide pillars, shouldered — Type B

D^a	12					16					20					25									
D_1	18					22					28					32									
D_2	22					26					32					36									
S	4					6					6					6									
L_2	L_1																								
	16	20	25	32	40	50	25	32	40	50	63	80	32	40	50	63	80	100	32	40	50	63	80	100	125
25	x	x	x																						
32	x	x	x	x	x	x																			
40	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x				
50	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			x	x	x	x			
63	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
80							x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
100										x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
125																		x	x			x	x	x	x
160																									
200																									

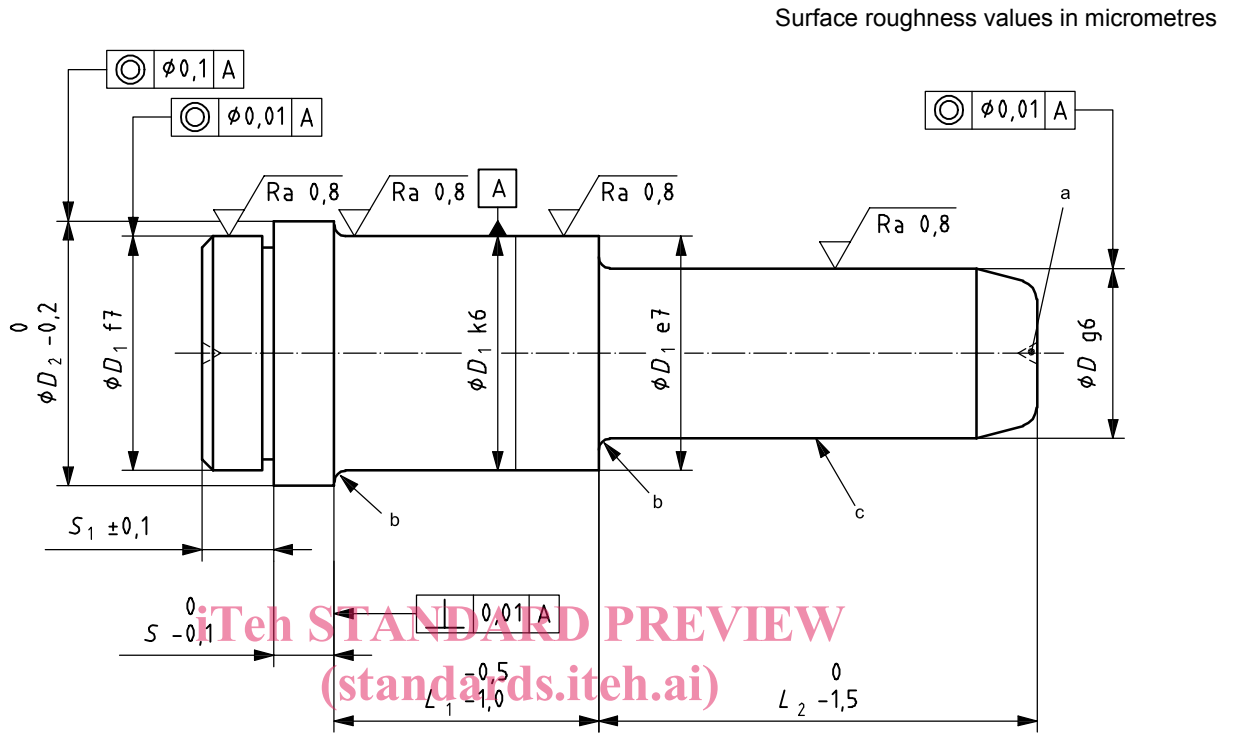
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D^a	32								40								50							
D_1	40								50								63							
D_2	45								56								71							
S	8								8								8							
L_2	L_1																							
	40	50	63	80	100	125	160	63	80	100	125	160	80	100	125	160	200							
25																								
32																								
40																								
50																								
63	x	x	x	x	x				x	x														
80	x	x	x	x	x	x			x	x								x						
100	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
125		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
160		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
200																		x	x	x	x	x	x	x

^a For use in exceptional cases, for instance, to prevent incorrect assembly of the upper and lower plates of the mould in relation to each other, the following additional values for diameter D are recommended: 11, 15, 19, 24, 30, 38 and 48.

2.3 Guide pillars, shouldered locating — Type C

The dimensions of shouldered locating guide pillars of type C, shall conform to the indications of Figure 3 and Table 3.



NOTE The sketch is an example only. <https://standards.iteh.ai/catalog/standards/sist/7a488605-c43f-4672-83fe-6ee6664554dc/iso-8017-2007>

Key

- a Optional centre holes.
- b Blending radius or a recess.
- c Recess if required.

Figure 3 — Guide pillars, shouldered locating — Type C