

# INTERNATIONAL STANDARD

# ISO 8018

Second edition  
2007-02-01

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## Tools for moulding — Guide bushes, headed, and locating guide bushes, headed

*Outils de moulage — Bagues de guidage, à collerette et à collerette  
avec plot de centrage*



Reference number  
ISO 8018:2007(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 8018 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 8018:1985), 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.



# Tools for moulding — Guide bushes, headed, and locating guide bushes, headed

## 1 Scope

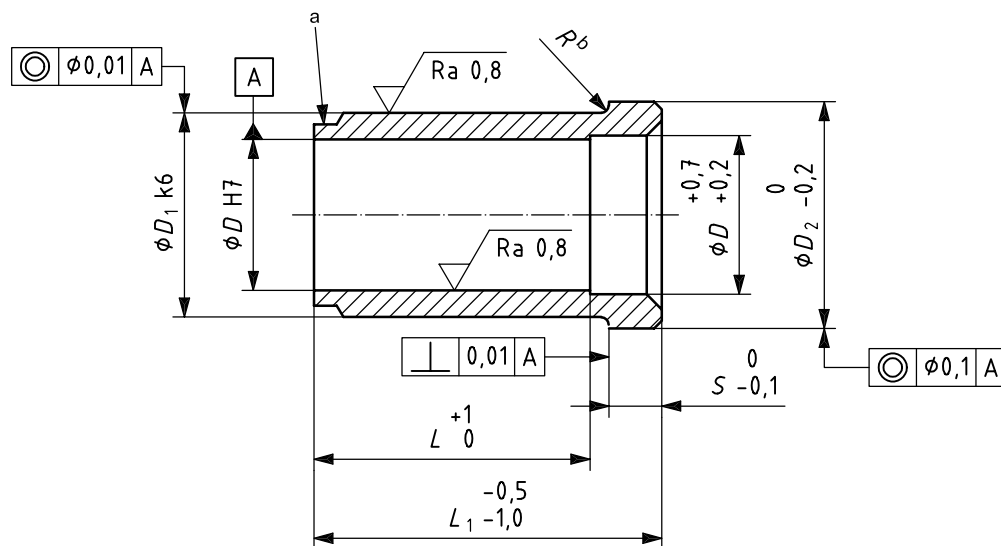
This International Standard specifies the dimensions and tolerances, in millimetres, for headed guide bushes and headed locating guide bushes intended for use in moulds.

## 2 Dimensions

### 2.1 Guide bushes, headed — Type A

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

Surface roughness values in micrometres



NOTE The sketch is an example only.

- a Chamfer and a cylindrical entry over  $\approx 3$  mm.  
 b  $R \leq 0,1S$ .

Figure 1 — Guide bushes, headed — Type A

**Table 1 — Dimensions of guide bushes, headed — Type A**

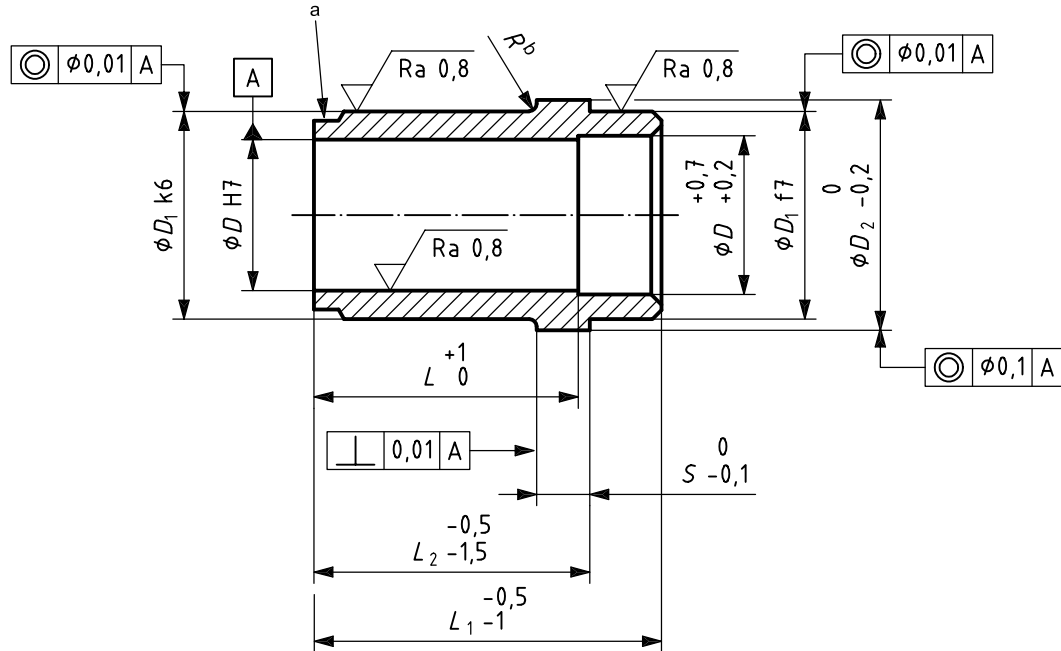
$D^a$	12	16	20	25	32	40	50
$D_1$	18	22	28	32	40	50	63
$D_2$	22	26	32	36	45	56	71
$S$	4	6	6	6	8	8	8
$L_1$	$L$						
16	16	16	16				
20	20	20	20	20			
25	25	25	25	25			
32	32	32	32	32	32		
40	32	40	40	40	40		
50	32	50	50	50	50		
63		63	63	63	63	63	
80		63	80	80	80	80	80
100			80	80	100	100	100
125					100	100	100
160						100	100
200						125	125

<sup>a</sup> 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

## 2.2 Locating guide bushes, headed — Type B

The dimensions of headed locating guide bushes 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.

- a Chamfer and a cylindrical entry over  $\approx 3$  mm.
- b  $R \leq 0,1S$ .

Figure 2 — Locating guide bushes, headed — Type B

**Table 2 — Dimensions of locating guide bushes, headed — Type B**

$D^a$		12	16	20	25	32	40	50
$D_1$		18	22	28	32	40	50	63
$D_2$		22	26	32	36	45	56	71
$S$		4	6	6	6	8	8	8
$L_1$	$L_2$	$L$						
20	16	20						
25	20	25	25	25	25			
32	25	32	32	32	32			
40	32	32	32	40	40			
50	40	32	32	40	40	50		
60	50		40	40	40	50		
71	63		40	40	40	50		
90	80		50	50	63	63		
112	100			63	63	63	80	100
132	125			63	80	80	100	100
170	160			63	80	80	100	100
210	200						125	125

<sup>a</sup> 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.

### 3 Designation

A guide bush in accordance with this International Standard shall be designated by:

- a) "guide bush";
- b) a reference to this International Standard;
- c) type of guide bush (A or B);
- d) its internal diameter ( $D$ );
- e) its length ( $L$ ).

EXAMPLE      **Guide bush ISO 8018 – A 12 × 20**

**Guide bush ISO 8018 – B 12 × 20**



## Bibliography

- [1] ISO 1302:2002, *Geometrical Product Specifications (GPS) — Indication of surface texture in technical product documentation*
- [2] ISO 4957:1999, *Tool steels*
- [3] ISO 6753-2:1998, *Tools for pressing and moulding — Machined plates — Part 2: Machined plates for moulds*
- [4] ISO 8017, *Tools for moulding — Guide pillars, straight and shouldered, and locating guide pillars, shouldered*

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