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# International Standard



# 8018

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

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## Mould guide bushes, headed, and locating guide bushes, headed

*Bagues de guidage pour moules, à collerette et à collerette avec plot de centrage*

First edition — 1985-08-15

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Ref. No. ISO 8018-1985 (E)

Descriptors : tools, moulds, components, bushings, guide bushings, dimensions, designation.

## 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 8018 was prepared by Technical Committee ISO/TC 29, *Small tools*.

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# Mould guide bushes, headed, and locating guide bushes, headed

## 1 Scope and field of application

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

## 2 References

ISO 4957, *Tool steels*.

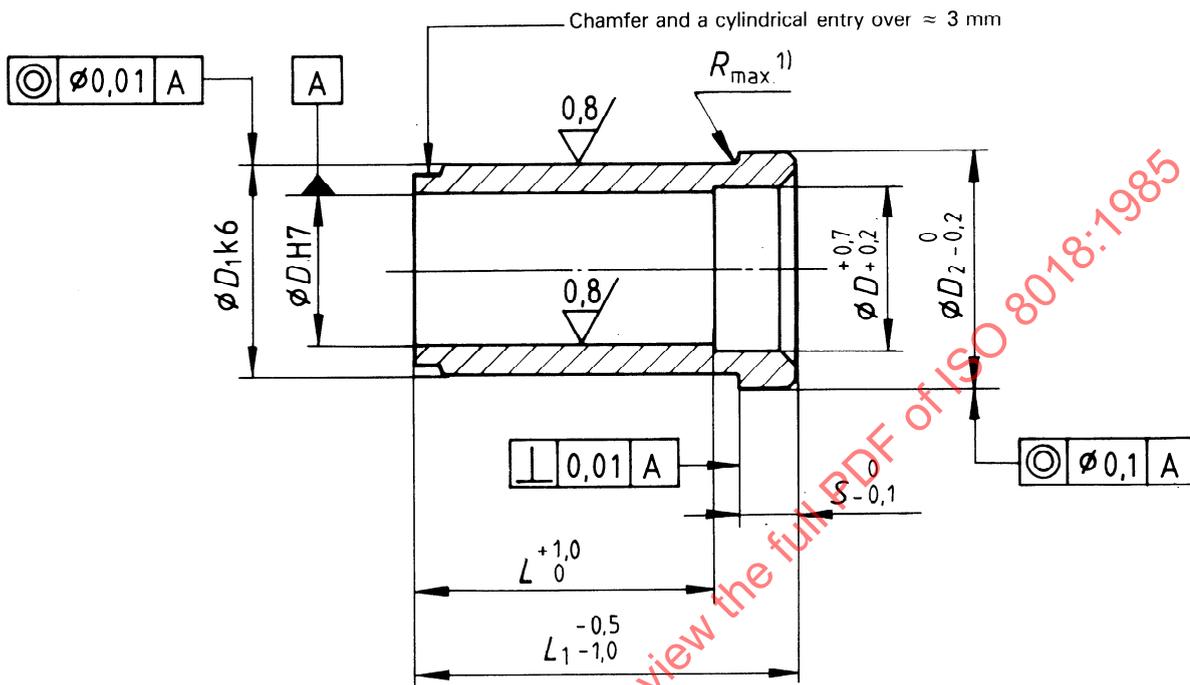
ISO 6753, *Machined plates for press tools, moulds, jigs and fixtures — Nominal dimensions*.

ISO 8017, *Mould guide pillars, straight and shouldered, and locating guide pillars, shouldered*.

3 Dimensions

3.1 Guide bushes, headed — Type A

Surface roughness values in micrometres



1)  $R_{max} = 0,1 S$

NOTE — The sketch is an example only.

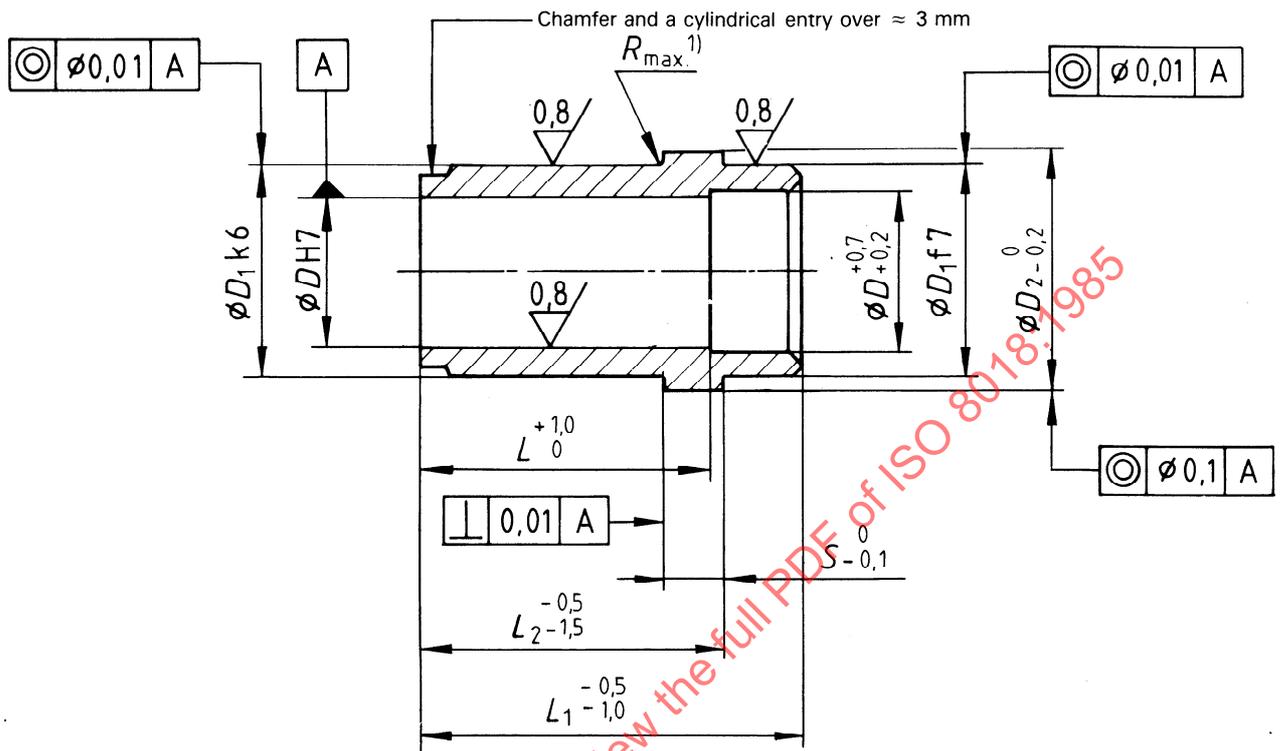
$D^*$	12	16	20	25	32	40	50
$D_1$	18	22	28	32	40	50	63
$D_2$	22	26	32	36	45	56	71
$S$	4	6	6	6	8	8	8
$L_1$	$L$						
16	16	16	16				
20	20	20	20	20			
25	25	25	25	25			
32	32	32	32	32	32		
40	32	40	40	40	40		
50	32	50	50	50	50		
63		63	63	63	63	63	
80		63	80	80	80	80	80
100			80	80	100	100	100
125				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

\* 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.

3.2 Locating guide bushes, headed – Type B

Surface roughness values in micrometres



1)  $R_{max} = 0,1 S$

NOTE – The sketch is an example only.

$D^*$	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	25	25		
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
170	160			63	80	80	100
210	200						125

\* 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.

#### 4 Designation

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

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

*Designation examples:*

**Guide bush ISO 8018 - A 12 × 20**

**Guide bush ISO 8018 - B 12 × 20**

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