
International Standard



8017

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

Mould guide pillars, straight and shouldered, and locating guide pillars, shouldered

Colonnes de guidage pour moules, droites et épaulées, et épaulées avec plot de centrage

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Descriptors : tools, moulds, components, pillars, 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 8017 was prepared by Technical Committee ISO/TC 29, *Small tools*.

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Mould guide pillars, straight and shouldered, and locating guide pillars, shouldered

1 Scope and field of application

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

2 References

ISO 4957, *Tool steels*.

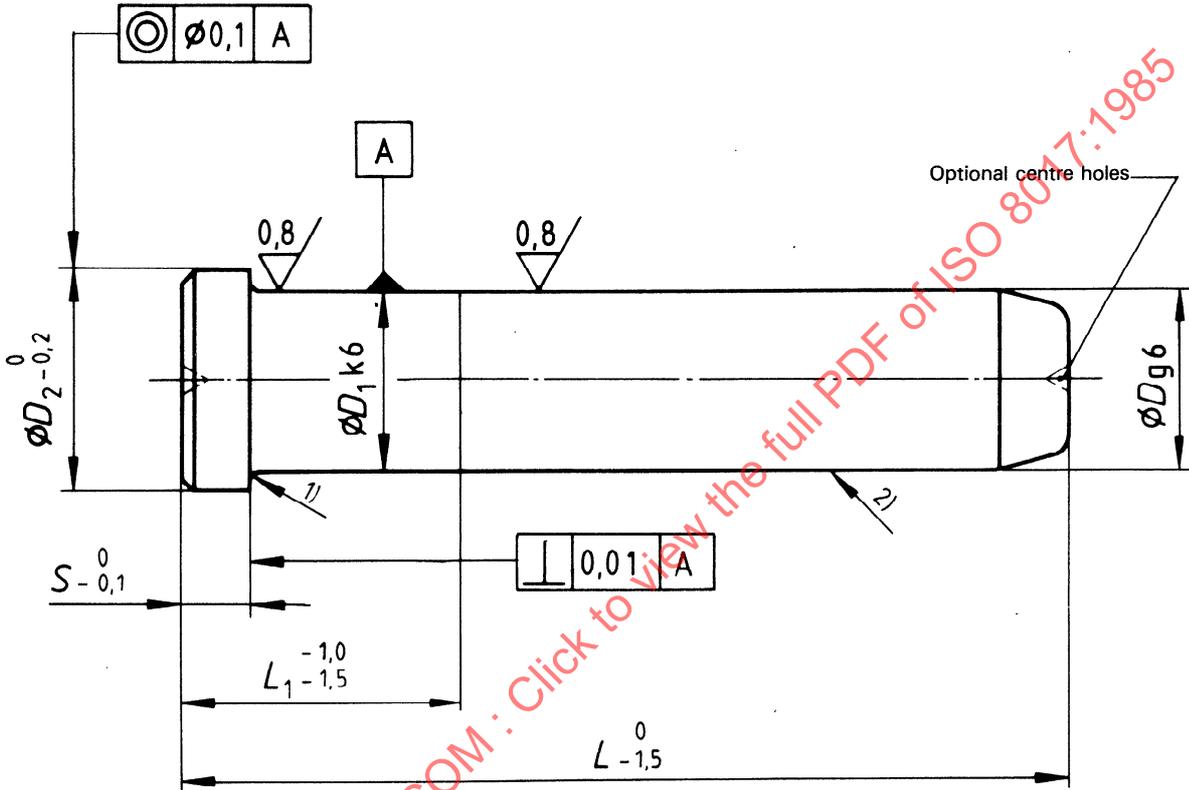
ISO 6753, *Machined plates for press tools, moulds, jigs and fixtures — Nominal dimensions*.

ISO 8018, *Mould guide bushes, headed, and locating guide bushes, headed*.

3 Dimensions

3.1 Guide pillars, straight — Type A

Surface roughness values in micrometres



- 1) Blending radius or a recess.
- 2) Recess if required.

NOTE — The sketch is an example only.

D^*	12	16	20	25	32	40	50
D_1							
D_2	16	20	25	32	40	48	56
S	4	6	6	6	8	8	8
L	L_1						
40	20						
50	20	25	25	25			
63	20	25	25	25			
80	25	25	25	25	25		
90	25	25	25	25	32	40	
100	25	25	25	25	32	40	
125	32	32	32	40	40		
160	32	32	40	40	40	50	50
200		40	40	40	50	50	50
250			50	50	50	63	80
315						63	80
400						80	100

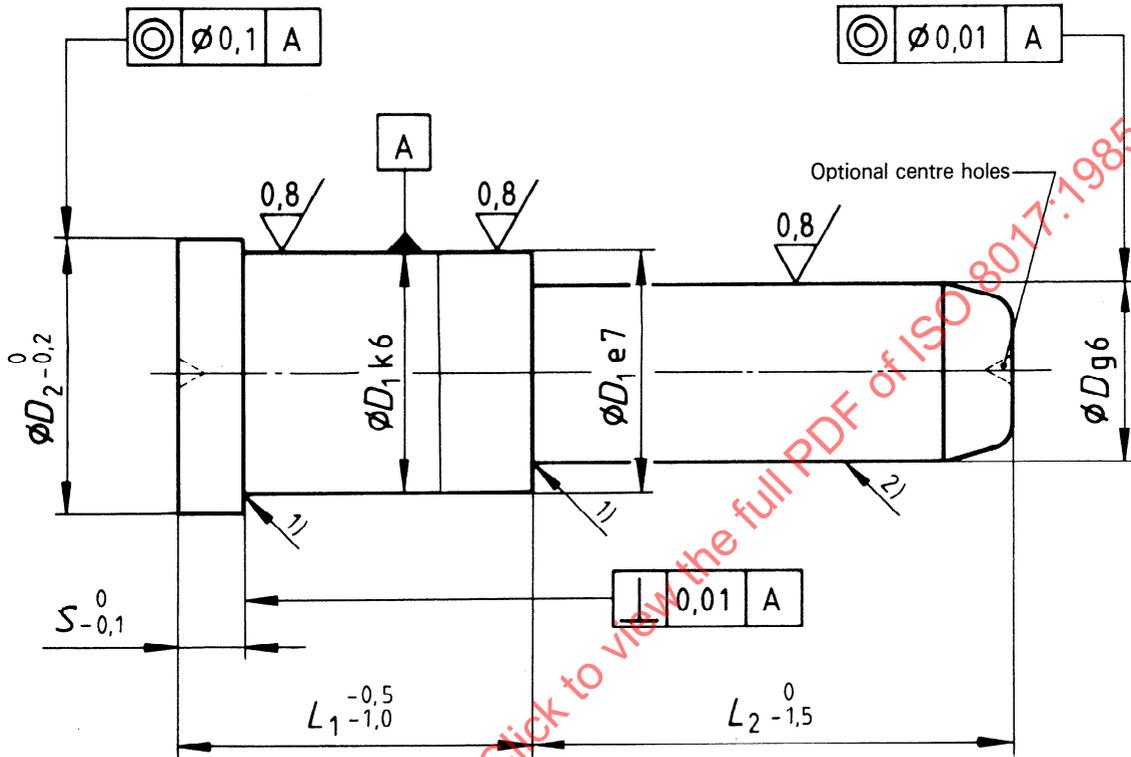
* For use in exceptional cases, for instance to prevent incorrect assembly of the upper and lower plates of the mould in relation to each other, the following additional values for diameters D and D_1 are recommended :

11, 15, 19, 24, 30, 38 and 48.

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3.2 Guide pillars, shouldered — Type B

Surface roughness values in micrometres



- 1) Blending radius or a recess.
- 2) Recess if required.

NOTE — The sketch is an example only.

D^*	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																									

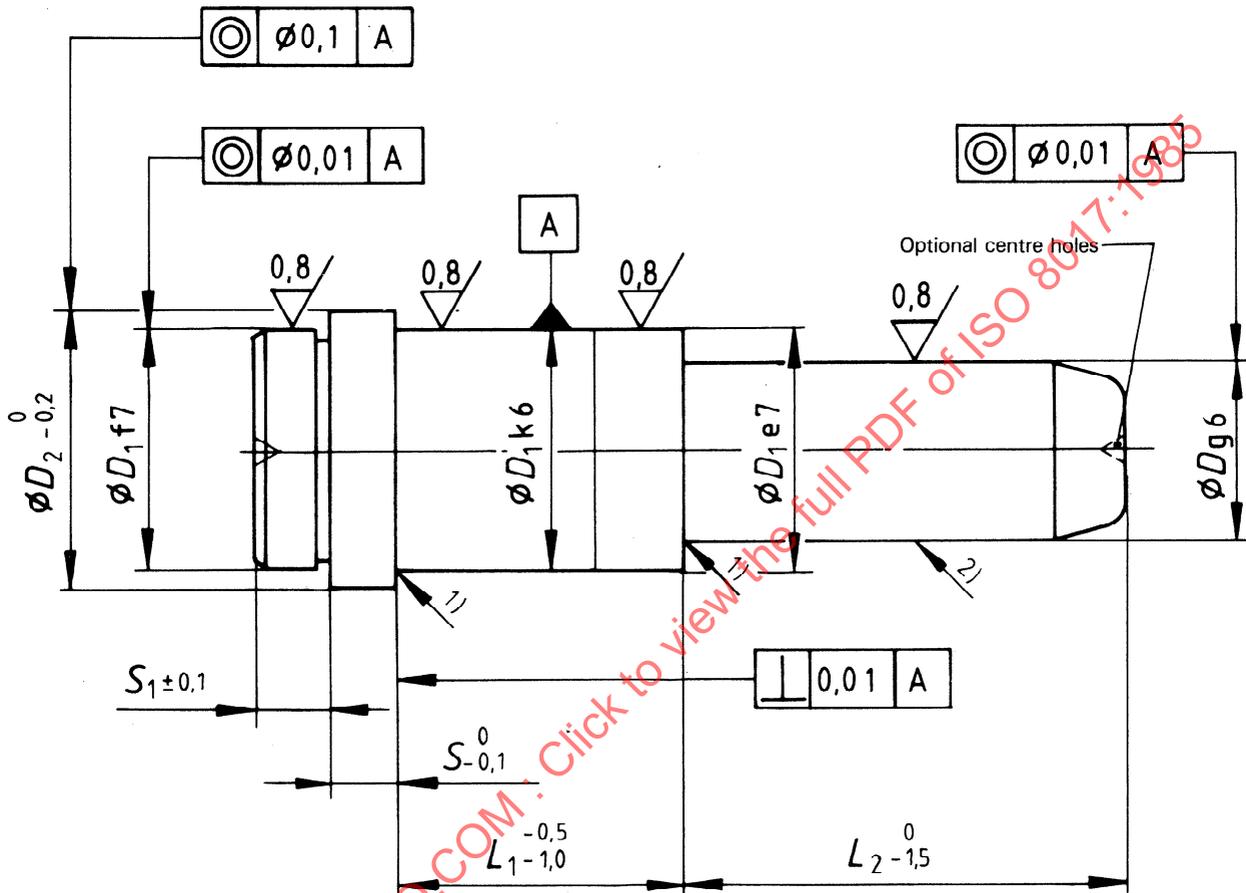
D^*	32					40					50						
D_1	40					50					63						
D_2	45					56					71						
S	8					8					8						
L_2	L_1																
	40	50	63	80	100	125	160	63	80	100	125	160	80	100	125	160	200
25																	
32																	
40																	
50																	
63	x	x	x	x	x			x	x								
80	x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

* 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.

3.3 Guide pillars, shouldered — Type C

Surface roughness values in micrometres



1) Blending radius or a recess.

2) Recess if required.

NOTE — The sketch is an example only.

D^*	12					16					20					25									
D_1	18					22					28					32									
D_2	22					26					32					36									
S	4					6					6					6									
S_1	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	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																									

D^*	32					40					50						
D_1	40					50					63						
D_2	45					56					71						
S	8					8					8						
S_1	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
125		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
200													x	x	x	x	x

* 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.