

INTERNATIONAL STANDARD

ISO
9182-5

First edition
1992-06-15

Tools for pressing — Guide pillars —

Part 5:

Type D, end-locking pillars with flange

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Outillage de presse — Colonnes de guidage —

Partie 5: Type D, colonnes à retenue inférieure, démontables

ISO 9182-5:1992

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Reference number
ISO 9182-5:1992(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 9182-5 was prepared by Technical Committee ISO/TC 29, *Small tools*, Sub-Committee SC 8, *Tools for pressing and moulding*.

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ISO 9182 consists of the following parts, under the general title *Tools for pressing — Guide pillars*:

- Part 1: *Types*
- Part 2: *Type A, straight pillars*
- Part 3: *Type B, end-locking pillars*
- Part 4: *Type C, pillars with taper lead and bush*
- Part 5: *Type D, end-locking pillars with flange*

Annex A of this part of ISO 9182 is for information only.

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International Organization for Standardization
Case Postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

Tools for pressing — Guide pillars —

Part 5:

Type D, end-locking pillars with flange

1 Scope

This part of ISO 9182 specifies the dimensions and tolerances, in millimetres, of guide pillars, type D, end-locking pillars with flange, intended for use in press tools.

It gives guidance on materials and specifies the hardness and the designation of guide pillars which meet the requirements of this part of ISO 9182.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this part of ISO 9182. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this part of ISO 9182 are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 6753:1982, *Machined plates for press tools, moulds, jigs and fixtures — Nominal dimensions.*

3 Dimensions

See figure 1 and table 1.

4 Material and hardness

The material is left to the manufacturer's discretion. The hardness shall be (62^{+2}_0) HRC.

5 Designation

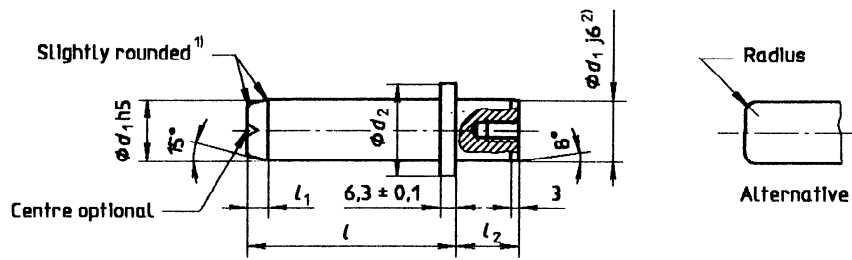
Guide pillars for press tools in accordance with this part of ISO 9182 shall be designated by

- a) "Guide pillar";
- b) reference to this part of ISO 9182;
- c) its type;
- d) its diameter, d_1 , in millimetres;
- e) its length, l_2 , in millimetres;
- f) its length, l , in millimetres.

EXAMPLE

The designation for a guide pillar, type D, of diameter $d_1 = 12$ mm, length $l_2 = 12$ mm and length $l = 63$ mm is as follows:

Guide pillar ISO 9182-5 - D - 12 × 12 × 63



- 1) The values of the radii are left to the manufacturer's discretion.
 2) The tolerance J6 may be reduced for a certain part of length l_2 to act as a pilot for fitting purposes.

Figure 1 — End-locking guide pillar with flange
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Table 1

d_1	12	16	20	25	32	40	50	63	80	100	
d_2	16	20	25	32	40	50	63	80	100	125	
l_1 min.	4	4	4	6	6	6	8	8	8	8	
l_2 min.	12	16	20	25	32	40	50	50	63	63	
l_1^0 l_1^{-1}	63	x									
	80	x	x	x	x						
	90	x	x	x	x	x					
	100	x	x	x	x	x					
	112	x	x	x	x	x					
	125	x	x	x	x	x	x	x			
	140		x	x	x	x	x	x			
	160		x	x	x	x	x	x	x		
	180		x	x	x	x	x	x	x		
	200			x	x	x	x	x	x		
	224				x	x	x	x	x		
	250				x	x	x	x	x	x	
	280					x	x	x	x	x	
	315						x	x	x	x	x
	355						x	x	x	x	x
400							x	x	x	x	
450							x	x	x	x	
500								x	x	x	

NOTES

1 x standardized dimensions.

2 Larger values of l_2 shall be chosen as a function of other dimensions such as the plate thickness in accordance with ISO 6753.

3 To prevent an incorrect assembly of the upper and lower plates of the die set in relation to each other, the following values for diameter d_1 are recommended: 11, 15, 19, 24, 30, 38, 48 and 60.

Annex A
(informative)

Bibliography

- [1] ISO 6508:1986, *Metallic materials — Hardness test — Rockwell test (scales A - B - C - D - E - F - G - H - K)*.
- [2] ISO 9182-1:1992, *Tools for pressing — Guide pillars — Part 1: Types*.

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UDC 621.979.07

Descriptors: presses, tools, pillars, dimensions, designation.

Price based on 4 pages
