INTERNATIONAL STANDARD

ISO 9448-2

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Tools for pressing — Guide bushes — Part 2: Form A, gliding bushes, plain, type 1

Outillage de presse — Bagues de guidage — Partie 2: Forme A, bagues lisses pour guidage lisse, type 1

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2. www.iso.org/directives

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

ISO 9448-2 was prepared by Technical Committee ISO/TC 29, Small tools, Subcommittee SC 8, Tools for pressing and moulding.

ISO 9448-2:2013

This second edition results from the reinstatement of ISO/9448-2:1991; which was withdrawn in 2006 and with which it is technically identical. b88f1762a52/iso-9448-2-2013

ISO 9448 consists of the following parts, under the general title *Tools for pressing — Guide bushes*:

- Part 1: Forms
- Part 2: Form A, gliding bushes, plain, type 1
- Part 3: Form B, ball cage bushes, plain, type 1
- Part 4: Form C, gliding bushes, headed, type 1
- Part 5: Form D, ball cage bushes, headed, type 1
- Part 6: Form E, gliding bushes, flanged, type 1
- Part 7: Form F, ball cage bushes, flanged, type 1
- Part 8: Form G, gliding bushes, stepped, type 1
- Part 9: Form B, ball cage bushes, plain, type 2
- Part 10: Form E, gliding bushes, flanged, type 2
- Part 11: Form F, ball cage bushes, flanged, type 2

Tools for pressing — Guide bushes —

Part 2:

Form A, gliding bushes, plain, type 1

1 Scope

This part of ISO 9448 specifies the main dimensions and tolerances, in millimetres, of guide bushes of form A, plain gliding bushes, type 1, intended for use in press tools and to be mounted in the clamp plate by means of interference fit.

It gives guidance on the materials, and specifies the hardness and the designation of bushes in accordance with this part of ISO 9448.

2 Dimensions

The dimensions of type 1 plain gliding bushes (form A) shall conform to the indications of Figure 1 and Table 1.

Details not stated, such as chamfers, radii and lubrication grooves, are left to the manufacturer's discretion.

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Surface roughness values in micrometres

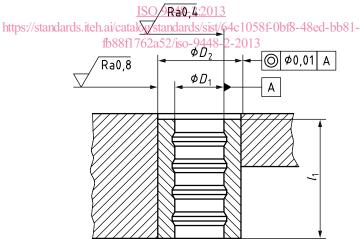


Figure 1 — Form A, plain gliding guide bushes, type 1

Table 1

l_1		D_1							
			G	66			G5		
		12	16	20	25	32	40	50	
					D_2				
		n6a							
nom.	tol.	22	28	32	40	48	58	70	
25	-2,0 -2,5	×	×						
32		×	×	×					
40	-3 -4	×	×	×	×				
50		×	×	×	×	×			
63			×	×	×	×	×		
80				×	×	×	×	×	
100	-3 -5					×	×	×	
125							×	×	
160								×	

[×] standardized dimension

To prevent incorrect assembly of the upper and lower plates of the die set in relation to each other, the following values of D_1 are recommended: 11,15,19,24,30,38 and 48.

3 Material

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The material is left to the manufacturer's discretion and the hardness shall be 60^{+2}_{0} HRC.

4 Designation

A guide bush in accordance with this part of ISO 9448 shall be designated by:

- a) "Guide bush";
- b) a reference to this part of ISO 9448, i.e ISO 9448-2;
- c) its form;
- d) its guiding diameter, D_1 , in millimetres;
- e) its length, l_1 , in millimetres.

EXAMPLE A guide bush of form A, plain gliding bush, type 1 of guiding diameter D_1 = 12 mm and of length l_1 = 25 mm is designated as follows:

Guide bush ISO 9448-2 A - 12 × 25

Intended to fit into a hole having a tolerance of H7. When the bushes are glued, tolerance j6 is permitted.

Bibliography

[1] ISO 6508-1, Metallic materials — Rockwell hardness test — Part 1: Test method

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