INTERNATIONAL STANDARD



First edition 1992-06-01

Tools for pressing - Guide bushes -

Part 9: Form B, ball cage bushes, plain, type 2 iTeh STANDARD PREVIEW

Gutillage de presse it Bagueside guidage -

Partie 9: Forme B, bagues lisses pour guidage à billes, type 2

https://standards.iteh.ai/catalog/standards/sist/9c6832d6-b2ce-44d8-a6a3-00d63c6a77ff/iso-9448-9-1992



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 a least 75% of the member VIEW bodies casting a vote.

International Standard ISO 9448-9 was prepared by Technical Committee ISO/TC 29, Small tools, Sub-Committee SC 8, Tools for pressing and moulding. ISO 9448-9:1992

https://standards.iteh.ai/catalog/standards/sist/9c6832d6-b2ce-44d8-a6a3-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

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- Part 11: Form F, ball cage bushes, flanged, type 2 Annex A of this part of ISO 9448 is for information only.

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Tools for pressing — Guide bushes —

Part 9:

Form B, ball cage bushes, plain, type 2

1 Scope

and tolerances, in millimetres, of guide bushes of form B, plain ball cage bushes, type 2, intended for A guide bush in accordance with this part of use in press tools and to be mounted in the clamp RDSO 9448 shall be designated by plate by means of interference fit.

4

It gives guidance on the materials, and specifies the hardness and the designation of bushes in accordance with this part of ISO 9448. ISO 9448-9:1992 a reference to this part of ISO 9448;

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2 Dimensions

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See figure 1 and table 1.

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

This part of ISO 9448 specifies the main dimensions

3 Material and corresponding hardness

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

- d) its guiding diameter, D_1 , in millimetres;
- e) its length, l_1 , in millimetres.

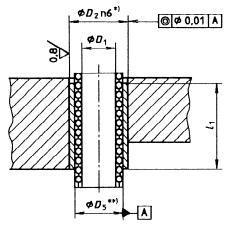
Designation

EXAMPLE

A guide bush of form B, plain ball cage bush, type 2, of guiding diameter $D_1 = 25$ mm and of length $l_1 = 50$ mm is designated as follows:

Guide bush ISO 9448-9 B - 25 \times 50

Surface roughness values in micrometres



*) Intended to fit in a hole having a tolerance H7.

******) The manufacturer shall determine the internal diameter D_5 of the bush, using the tolerance M5. This diameter is intended to be lapped or ground to ensure the proper preloading of the balls between the pillar and the bush, as determined by the manufacturer. This lapping or grinding operation shall be carried out to give a surface roughness $R_a = 0.05 \mu m$ and this diameter shall act as a reference diameter to the concentricity and perpendicularity tolerances.

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		D ₂ n6						
nom.	tol.	40	50	63	80	90	112	140
50		X	Х					
63	3 4	х	x	x				
80		x	x	x	X	······································		
100			x	×	X	X		
125				x	X	X	X	
160	3 5				X	X	X	×
200						X	X	x
250							X	х

I**Jable**48-9:1992

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 9448-1:1991, Tools for pressing Guide bushes Part 1: Forms.

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

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