

INTERNATIONAL STANDARD

ISO
9448-4

First edition
1991-11-01

Tools for pressing — Guide bushes —

Part 4:

Form C, gliding bushes, headed, type 1

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Outillage de presse — Bagues de guidage —

Partie 4: Forme C, bagues à collerette pour guidage lisse, type 1

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Reference number
ISO 9448-4:1991(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 9448-4 was prepared by Technical Committee ISO/TC 29, *Small tools*, Sub-Committee SC 8, *Tools for pressing and moulding*.

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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 4:

Form C, gliding bushes, headed, type 1

1 Scope

This part of ISO 9448 specifies the main dimensions and tolerances, in millimetres, of guide bushes of form C, headed gliding bushes, type 1, intended for use in press tools and to be mounted in the clamp plate with transition fit and fixed to the plate by means of screws.

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

See figure 1 and table 1.

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

3 Material and corresponding hardness

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

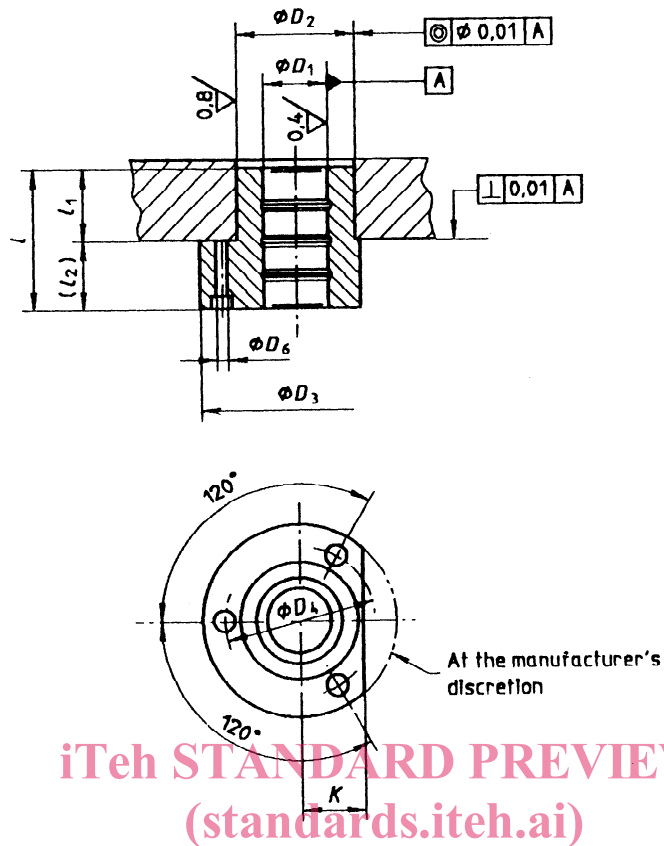
- a) "Guide bush";
- b) a reference to this part of ISO 9448;
- c) its form;
- d) its guiding diameter, D_1 , in millimetres;
- e) its length, l_1 , in millimetres.

EXAMPLE

A guide bush of form C, headed gliding bush, type 1, of guiding diameter $D_1 = 16$ mm and of length $l_1 = 25$ mm is designated as follows:

Guide bush ISO 9448-4 C - 16 × 25

Surface roughness values in micrometres



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Figure 1

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Table 1

D_1	nom.	16	20	25	32	40	50						
	tol.	G6				G5							
D_2 k5 ¹⁾		28	32	40	48	58	70						
D_3		45	50	63	72	85	104						
D_4		35	40	50	58	70	86						
Clearance hole D_6		4,5	4,5	5,5	5,5	6,6	9						
for screw		M4	M4	M5	M5	M6	M8						
K		15	18	23	28	33	38						
nom.	l_1 tol.	l	(l_2)	l	(l_2)	l	(l_2)	l	(l_2)	l	(l_2)	l	(l_2)
25	-2,0 -2,5	31	6	40	15								
32		38	6	47	15	57	25						
40	-3 -4			55	15	65	25	65	25	70	30		
50								75	25	80	30	92	42
63												105	42
<p>NOTE -- To prevent an 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: 15, 19, 24, 30, 38 and 48.</p> <p>1) Intended to fit in a hole having a tolerance H7.</p>													

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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