INTERNATIONAL STANDARD

ISO 9448-6

> First edition 1991-11-01

Tools for pressing — Guide bushes —

Part 6:

Form E, gliding bushes, flanged, type 1

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Outiliage de presse Lagues de guidage —

Partie 6: Forme E, bagues à collerette à brider pour guidage lisse, type 1 ISO 9448-6:1991

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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 VIEW bodies casting a vote.

International Standard ISO 9448-6 was prepared by Technical Committee ISO/TC 29, Small tools, Sub-Committee SC 8, Tools for pressing and moulding.

ISO 9448-6:1991

https://standards.iteh.ai/catalog/standards/sist/58fe9059-6ce9-4e9c-b5c5-ollowing parts, underothe-general-title-J-ools-for

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 6:

Form E, gliding bushes, flanged, type 1

Scope

This part of ISO 9448 specifies the main dimensions and tolerances, in millimetres, of guide bushes of form E, flanged 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 guide clamps. standards it a reference to this part of ISO 9448;

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

a) P'Guide bush'';

Designation

It gives guidance on the materials, and specifies the

c) its form;

hardness and the designation of bushes in accorded ance with this part of ISO 9448 tandards itch ai/catalog/standards/sist/58 fts of ording drameter, D_1 , in millimetres;

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Dimensions

See figure 1 and table 1.

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

Material and corresponding hardness

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

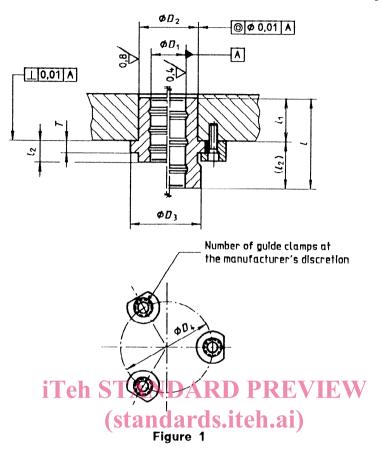
- e) its length, l_1 , in millimetres;
- f) its length, I, in millimetres.

EXAMPLE

A guide bush of form E, flanged gliding bush, type 1, of guiding diameter $D_1 = 12$ mm, of length $l_1 = 20 \text{ mm}$ and of length l = 30 mm is designated as follows:

Guide bush ISO 9448-6 E - 12 \times 20 \times 30

Surface roughness values in micrometres



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Table 1

D_1	nom.	12 16				20		2	25		32		40		50	
	tol.	G6								G5						
D ₂ k5 ¹⁾		22		28		32		40		48		58		70		
D_3		30		36		40		48		56		66		80		
D_4		47		53		57		65		73		83		97		
T	±0,1	6,3		6,3		6,3		6,3		6,3		6,3		6,3		
nom.	l ₁ tol.	1	(12)	1	(12)	1	(/2)	1	(/2)	1	(12)	I	(/2)	1	(12)	
20	and the state of t	30	10													
		45	25													
25	-2,0 -2,5	35	10	35	10	37	12	37	12							
		50	25	57	32	45	20	61	36							
						61	36	81	56							
32		42	1.0	42 Ph 5	1,0	44	13 1	57	25	44	12					
				64	32	68	36	82	50	77	45					
					(State	nua	us.		ai)	95	63					
40			lettre av/lat	50	10	<u>[52]</u>	11-/-	99 <u>1</u> 52	12	72 0.4000.1	32	55	15			
			nups7/80	andarus.	b70e	0d512d	100arcis/s 10/iso-94	48-6-19	91 ⁴⁰	96	56	85	45			
												111	71			
63	-3 -4					62	12	62	12	65	15	82	32	68	18	
								90	40	95	45	113	63	100	50	
														130	80	
								75	12	78	15	78	15	99	36	
										108	45	113	50	134	71	
80												95	15	98	18	
												130	50	143	63	
100	-3 -5													118	18	
														163	63	

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

¹⁾ Intended to fit in a hole having a tolerance H7.

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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