# INTERNATIONAL STANDARD



Second edition 2013-12-15

# Tools for pressing — Guide bushes —

### Part 6: Form E, gliding bushes, flanged, type 1

Outillage de presse — Bagues de guidage —

Partie 6: Forme E, bagues à collerette à brider pour guidage lisse, type

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<u>ISO 9448-6:2013</u> https://standards.iteh.ai/catalog/standards/sist/50f1249b-ee54-4632-9fae-9e1aee9274b6/iso-9448-6-2013



Reference number ISO 9448-6:2013(E)

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Published in Switzerland

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### Foreword

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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

The committee responsible for this document is ISO/TC 29, *Small tools*, Subcommittee SC 8, *Tools for pressing and moulding*.

#### <u>ISO 9448-6:2013</u>

This second edition results from the reinstatement of ISO/9448-6-1991; which was withdrawn in 2006 and with which it is technically identical. 9e1aee9274b6/iso-9448-6-2013

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 6: Form E, gliding bushes, flanged, type 1

#### 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.

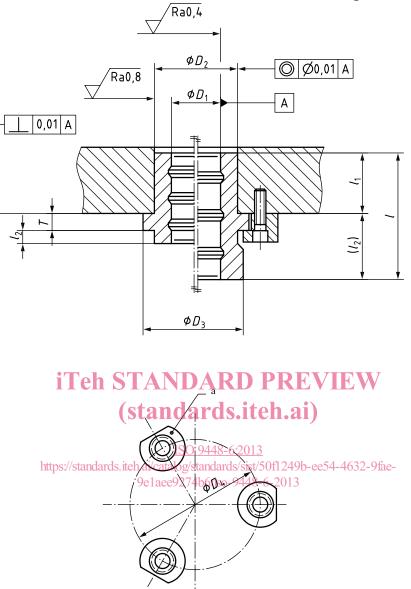
It gives guidance on the materials, and specifies the hardness and the designation of bushes in accordance with this part of ISO 9448.

#### 2 Dimensions

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

Details not stated, such as chamfers, radii, lubrication grooves, are left to the manufacturer's discretion. (standards.iteh.ai)

Surface roughness values in micrometres



a Number of guide clamps at the manufacturer's discretion.

Figure 1 — Form E, flanged gliding bushes, type 1

D <sub>1</sub>	nom.	1	2	16 20			25		32		40		50		
<i>D</i> <sub>1</sub>	tol.	G6								G5					
D <sub>2</sub> k5 <sup>a</sup>		22		28		32		40		48		58		70	
D <sub>3</sub>		30		36		40		48		56		66		80	
D4		47		53		57		65		73		83		97	
r ± 0,1		6,3		6,3		6,3		6,3		6,3		6,3		6,3	
l <sub>1</sub> nom.	nom.	1	(l2)	l	(l2)	1	(l <sub>2</sub> )	l	(l <sub>2</sub> )	1	(l <sub>2</sub> )	1	(l <sub>2</sub> )	1	(12)
	-2,0 -2,5	30	10												
20		45	25												
		35	10	35	10	37	12	37	12						
25		50	25	57	32	45	20	61	36						
						61	36	81	56						
		42	10	42	10	44	12	57	25	44	12				
32				64	32	68	36	82	50	77	45				
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63								75	12	78	15	78	15	99	36
05										108	45	113	50	134	71
80												95	15	98	18
00												130	50	143	63
100	-3 -5													118	18
100														163	63

Table 1

#### 3 Material

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 9448-6;
- c) its form;

#### ISO 9448-6:2013(E)

- d) its guiding diameter, *D*<sub>1</sub>, in millimetres;
- e) its length, *l*<sub>1</sub>, in millimetres.
- f) its length, *l*, in millimetres.

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

Guide bush ISO 9448-6 E - 12 × 20 × 30

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### **Bibliography**

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

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