INTERNATIONAL STANDARD

ISO
10242-3

Second edition
2008-10-01

Tools for pressing — Punch holder shanks —

Part 3:
Type D

Outillage de presse — Nez de presse —
Partie 3: Type D

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Foreword

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ISO 10242-3 was prepared by Technical Committee ISO/TC 29, *Small tools*, Subcommittee SC 8, *Tools for pressing and moulding*.

This second edition cancels and replaces the first edition (ISO 10242-3:1991), of which it constitutes a minor revision. In particular, the indication of surface textures has been updated in accordance with ISO 1302:2002.

ISO 10242 consists of the following parts, under the general title *Tools for pressing — Punch holder shanks*:

— *Part 1: Type A*

— *Part 2: Type C*

— *Part 3: Type D*

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Tools for pressing — Punch holder shanks —

Part 3:
Type D

1   Scope

This part of ISO 10242 specifies the interchangeability dimensions and tolerances, in millimetres, of punch holder shanks type D, intended for use in press tools.

It gives guidance on the materials, and specifies the hardness and designation of punch holder shanks in accordance with this part of ISO 10242.

2   Dimensions

The dimensions of punch holder shank type D shall be in accordance with Figure 1 and Table 1.
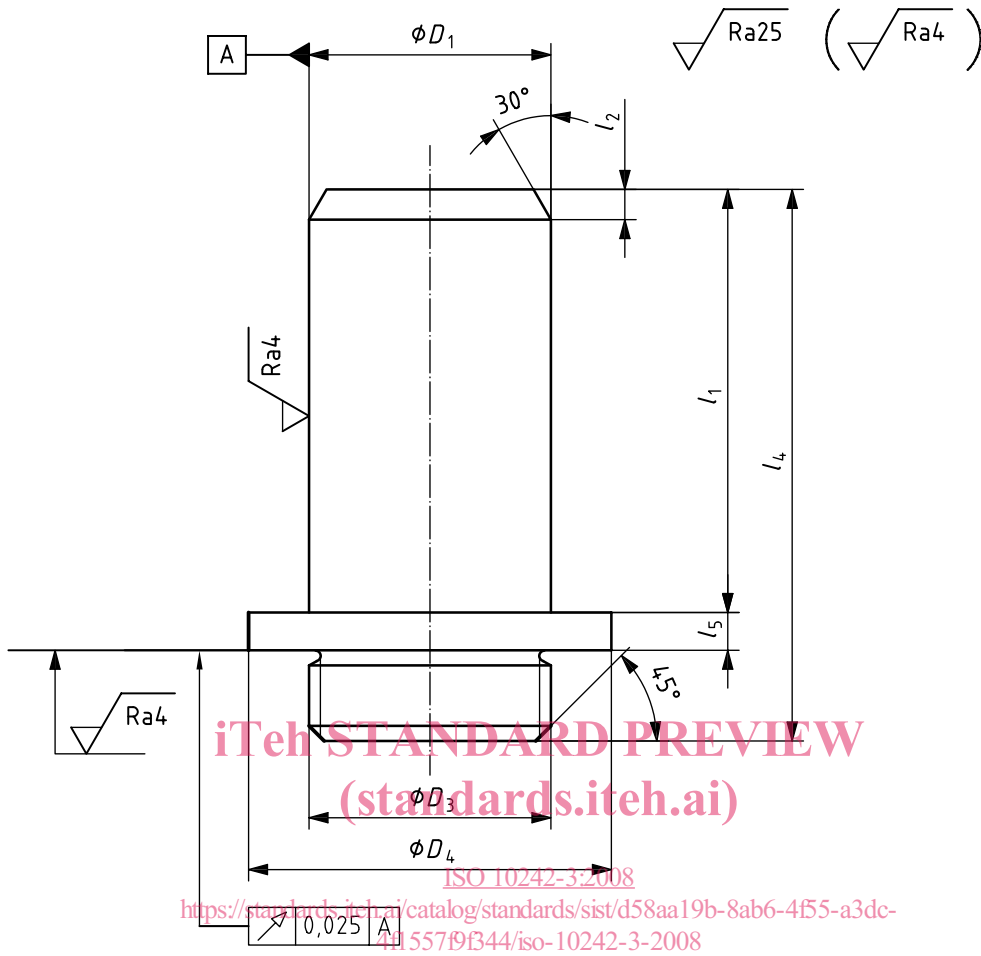
Surface roughness values in micrometres

Figure 1 — Punch holder shank type D

Table 1 — Dimensions of punch holder shank type D

D_1 d10	$D_3 \times P$ [a] 6g	D_4 h12	l_1	l_2	l_4	l_5 h12
32	M32 × 1,5	48	56	4	73	5
40	M32 × 1,5	48	71	5	88	5
	M40 × 3	58			93	6
50	M40 × 3	58	80	6	102	6
	M50 × 3				108	8
[a] P is the pitch of thread.						

3   Material and corresponding hardness

The choice of material is left to the manufacturer's discretion and the hardness shall be at least 140 HB.

4   Designation

A punch holder shank in accordance with this part of ISO 10242 shall be designated by the following:

a)   "Punch holder shank";

b)   reference to this part of ISO 10242;

c)   its type;

d)   its body diameter, D_1, in millimetres;

e)   its nominal thread diameter, D_3.

EXAMPLE   A punch holder shank of type D, of body diameter D_1 = 32 mm and of nominal thread diameter D_3 = M32 is designated as follows:

Punch holder shank ISO 10242-3 D-32 $\times$ M32

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Bibliography

[1]   ISO 6506 (all parts), *Metallic materials — Brinell hardness test*

[2]   ISO 1302:2002, *Geometrical Product Specifications (GPS) — Indication of surface texture in technical product documentation*

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