

BS ISO 10242-1:2011



BSI Standards Publication

Tools for pressing — Punch holder shanks

Part 1: Type A

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National foreword

This British Standard is the UK implementation of ISO 10242-1:2011. It supersedes BS ISO 10242-1:1998 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee MTE/12, Tools for pressing and moulding.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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**Tools for pressing — Punch holder
shanks —**

Part 1:
Type A

Outillage de presse — Nez de presse —

Partie 1: Type A



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Foreword

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Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 10242-1 was prepared by Technical Committee ISO/TC 29, *Small tools*, Subcommittee SC 8, *Tools for pressing and moulding*.

This third edition cancels and replaces the second edition (ISO 10242-1:1998), 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*

Tools for pressing — Punch holder shanks —

Part 1: Type A

1 Scope

This part of ISO 10242 specifies the interchangeability dimensions and tolerances, in millimetres, of punch holder shanks with neck and flats, type A, 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 type A shank shall be in accordance with the indications of Figure 1 and Table 1.

Surface roughness values in micrometres

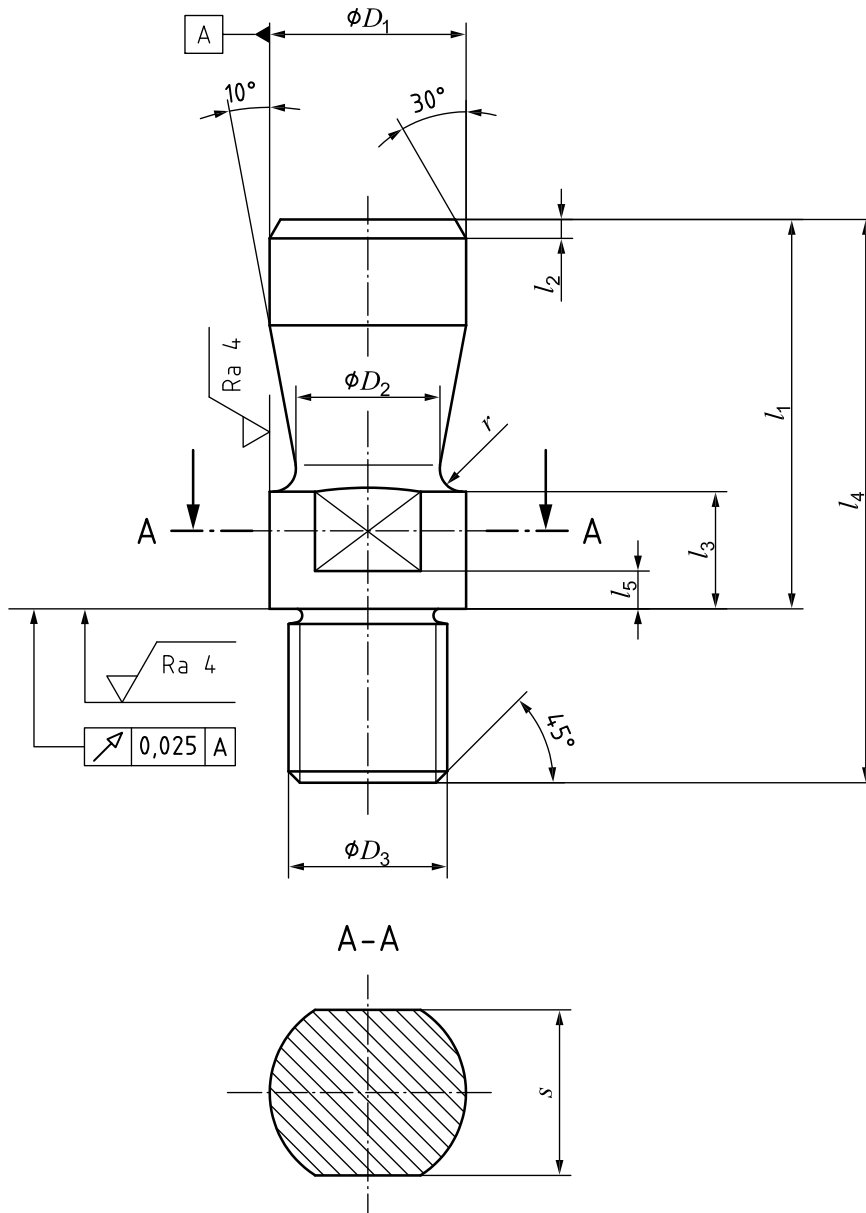
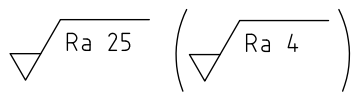


Figure 1 — Punch holder shank type A

Table 1 — Dimensions of punch holder shank type A

Dimensions in millimetres

D_1 f9	D_2	$D_3 \times P$ 6g	l_1	l_2	l_3	l_4	l_5 ± 1	r	s
20	15	M16 \times 1,5	40	2	12	58	4	2,5	17
25	20	M16 \times 1,5	45	2,5	16	68	6	2,5	21
		M20 \times 1,5							
32	25	M20 \times 1,5	56	3	16	79	6	2,5	27
		M24 \times 1,5							
40	32	M24 \times 1,5	70	4	26	93	12	4	36
		M27 \times 2							
		M30 \times 2							
50	42	M30 \times 2	80	5	26	108	12	4	41

3 Material and corresponding hardness

The material is left to the manufacturer's discretion, but 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:

- "Punch holder shank";
- reference to this part of ISO 10242, i.e. ISO 10242-1;
- its type;
- its body diameter, D_1 , in millimetres;
- its nominal thread diameter, D_3 .

EXAMPLE A punch holder shank of type A, of body diameter $D_1 = 20$ mm and of nominal thread diameter $D_3 = M16$ is designated as follows:

Punch holder shank ISO 10242-1 A-20 \times M16

Bibliography

- [1] ISO 1302:2002, *Geometrical Product Specifications (GPS) — Indication of surface texture in technical product documentation*
- [2] ISO 6506 (all parts), *Metallic materials — Brinell hardness test*

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