

भारतीय मानक
Indian Standard

IS 16794 (Part 1) : 2019
ISO 10242-1 : 2011

दाबन के औज़ार — पंच धारक शैंक

भाग 1 टाइप ए

Tools for Pressing — Punch Holder Shanks

Part 1 Type A

ICS 25.120.10

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भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDARDS
मानक भवन, 9 बहादुरशाह ज़फर मार्ग, नई दिल्ली-110002
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI-110002
www.bis.gov.in www.standardsbis.in

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Price Group 3

NATIONAL FOREWORD

This Indian Standard (Part 1) which is identical with ISO 10242-1 : 2011 'Tools for pressing — Punch holder shanks — Part 1: Type A' issued by the International Organization for Standardization (ISO) was adopted by the Bureau of Indian Standards on the recommendation of the Metal Forming Machines Sectional Committee and approval of the Production and General Engineering Division Council.

This standard has been published in three parts. Other parts of this standard are:

- Part 2 Type C
- Part 3 Type D

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'.
- b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

This standard also makes a reference to the BIS Certification Marking of the product. Details of which are given in National Annex A.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard
**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

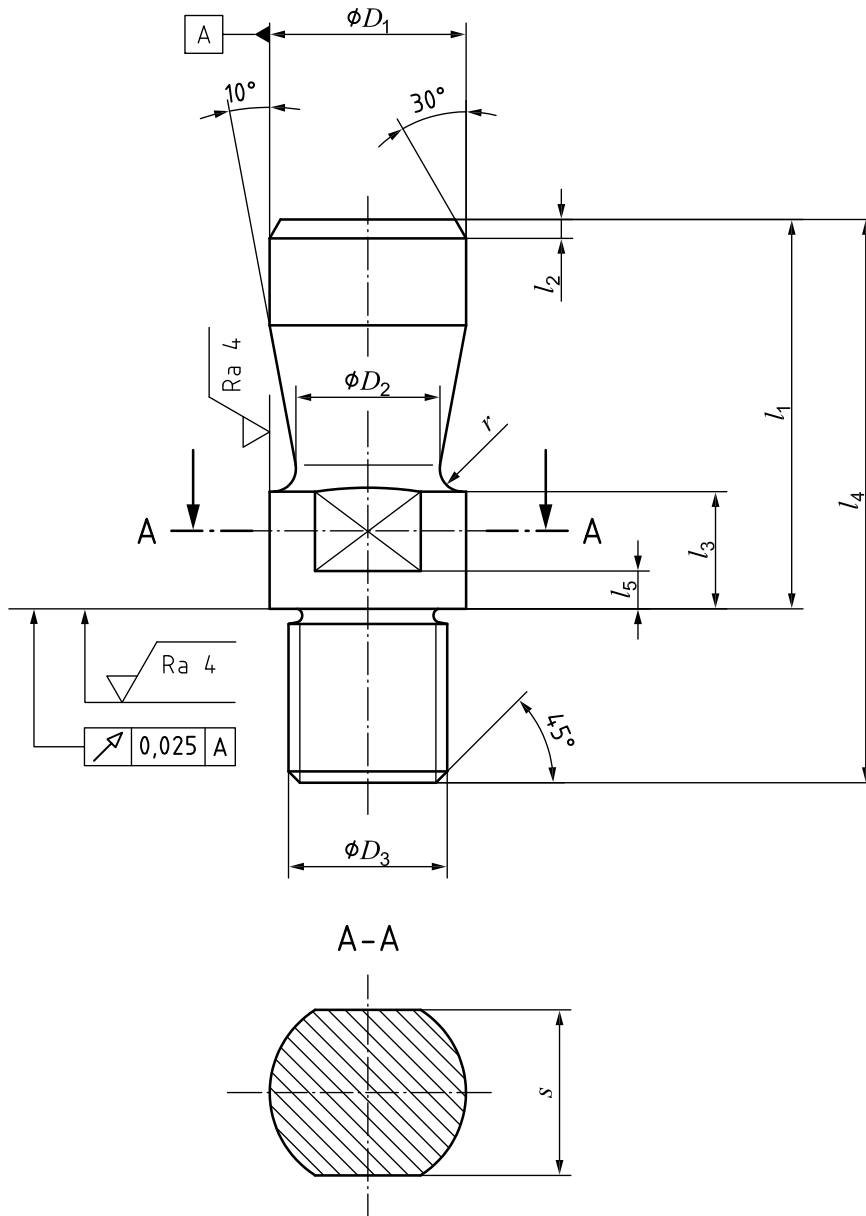
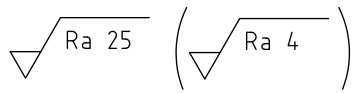


Figure 1 — Punch holder shank type A

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*

NATIONAL ANNEX A
(National Foreword)

A-1 BIS CERTIFICATION MARKING

The product may also be marked with the Standard Mark.

A-1.1 The use of the Standard Mark is governed by the provisions of the *Bureau of Indian Standards Act, 2016* and the Rules and Regulations made thereunder. The details of conditions under which the licence for the use of the Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.

Bureau of Indian Standards

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Review of Indian Standards

Amendments are issued to standards as the need arises on the basis of comments. Standards are also reviewed periodically; a standard along with amendments is reaffirmed when such review indicates that no changes are needed; if the review indicates that changes are needed, it is taken up for revision. Users of Indian Standards should ascertain that they are in possession of the latest amendments or edition by referring to the latest issue of 'BIS Catalogue' and 'Standards : Monthly Additions'.

This Indian Standard has been developed from Doc No.: PGD 04 (10179).

Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

BUREAU OF INDIAN STANDARDS

Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 110002
Telephones : 2323 0131, 2323 3375, 2323 9402 *Website*: www.bis.org.in

Regional Offices:

Telephones

Central : Manak Bhavan, 9 Bahadur Shah Zafar Marg NEW DELHI 110002	{ 2323 7617 2323 3841
Eastern : 1/14 C.I.T. Scheme VII M, V. I. P. Road, Kankurgachi KOLKATA 700054	{ 2337 8499, 2337 8561 2337 8626, 2337 9120
Northern : Plot No. 4-A, Sector 27-B, Madhya Marg, CHANDIGARH 160019	{ 26 50206 265 0290
Southern : C.I.T. Campus, IV Cross Road, CHENNAI 600113	{ 2254 1216, 2254 1442 2254 2519, 2254 2315
Western : Manakalaya, E9 MIDC, Marol, Andheri (East) MUMBAI 400093	{ 2832 9295, 2832 7858 2832 7891, 2832 7892

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