
Tool holders with cylindrical shank —

Part 3:

Type B with rectangular radial seat

Porte-outil à queue cylindrique —

Partie 3: Porte-outil radial de type B

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ISO 10889-3:1997

<https://standards.iteh.ai/catalog/standards/sist/1b216bd9-6d82-42a3-9d6e-4874b406d81e/iso-10889-3-1997>



Small tools.

ISO 10889 consists of the following parts, under the general title *Tool holders with cylindrical shank*:

- Part 1: Cylindrical shank, location bore — Technical delivery conditions
- Part 2: Type A, shanks for tool holders of special designs
- Part 3: Type B with rectangular radial seat
- Part 4: Type C with rectangular axial seat
- Part 5: Type D with more than one rectangular seat
- Part 6: Type E with cylindrical seat
- Part 7: Type F with taper seat
- Part 8: Type Z, accessories

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Tool holders with cylindrical shank —

Part 3:

Type B with rectangular radial seat

1 Scope

ISO 10889 applies to tool holders with cylindrical shank for machine tools with non-rotating tools, preferably for turning machines.

This part of ISO 10889 specifies dimensions, designations and complementary technical delivery conditions for tool holders with rectangular radial seat of types B1 to B8 with cylindrical shank in accordance with ISO 10889-1. For non-standardized tool holders with rectangular radial seat such as tool holders as shown in the drawings, it is recommended to apply the corresponding specifications of this part of ISO 10889.

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2 Normative references

[ISO 10889-3:1997](#)

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 10889. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 10889 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 2768-1:1989, *General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications.*

ISO 10889-1:1997, *Tool holders with cylindrical shank — Part 1: Cylindrical shank, location bore — Technical delivery conditions.*

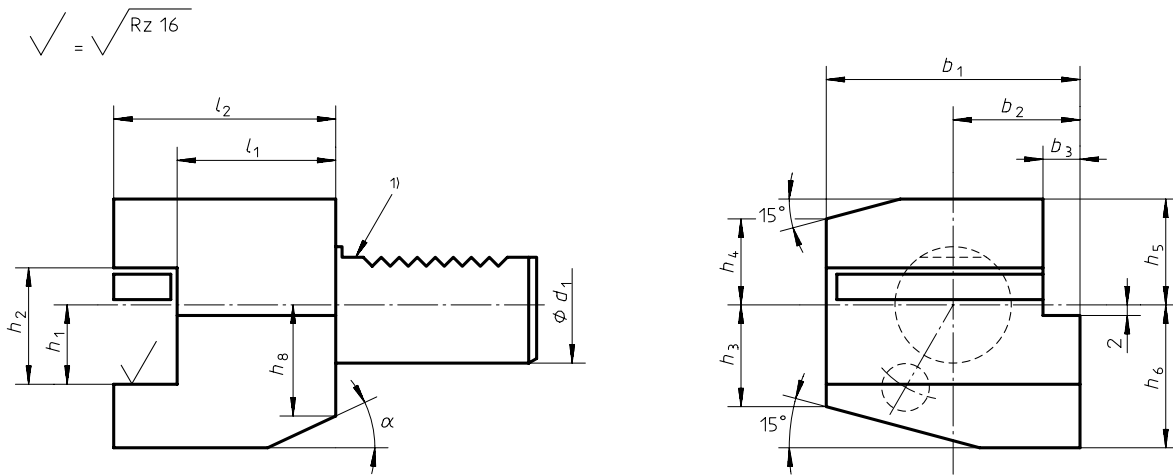
3 Dimensions

See figures 1 to 8 and table 1.

Unspecified details shall be chosen appropriately.

General tolerances: ISO 2768-1 - mB

Dimensions in millimetres,
surface roughness in micrometres

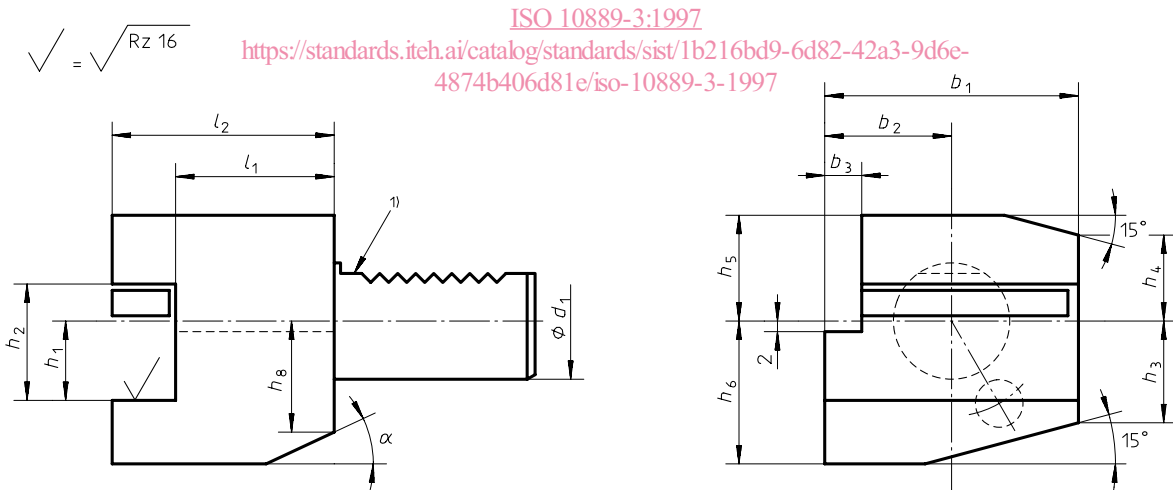


1) Cylindrical shank in accordance with ISO 10889-1.

Figure 1 — Type B1 tool holder, right-hand, short

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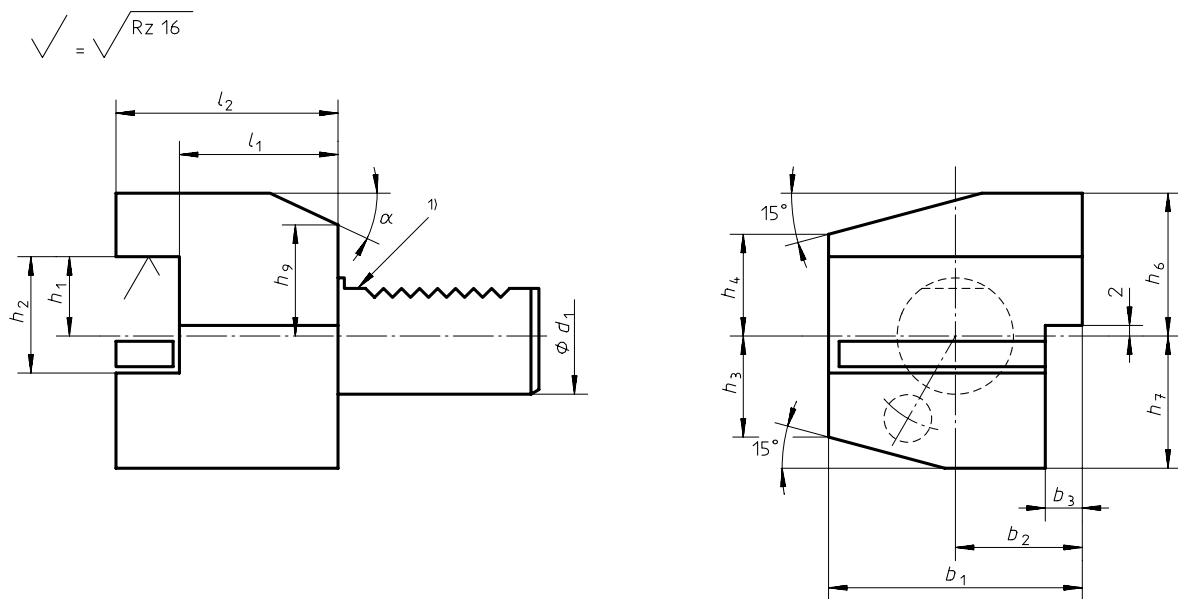
Dimensions in millimetres,
surface roughness in micrometres



1) Cylindrical shank in accordance with ISO 10889-1.

Figure 2 — Type B2 tool holder, left-hand, short

Dimensions in millimetres,
surface roughness in micrometres



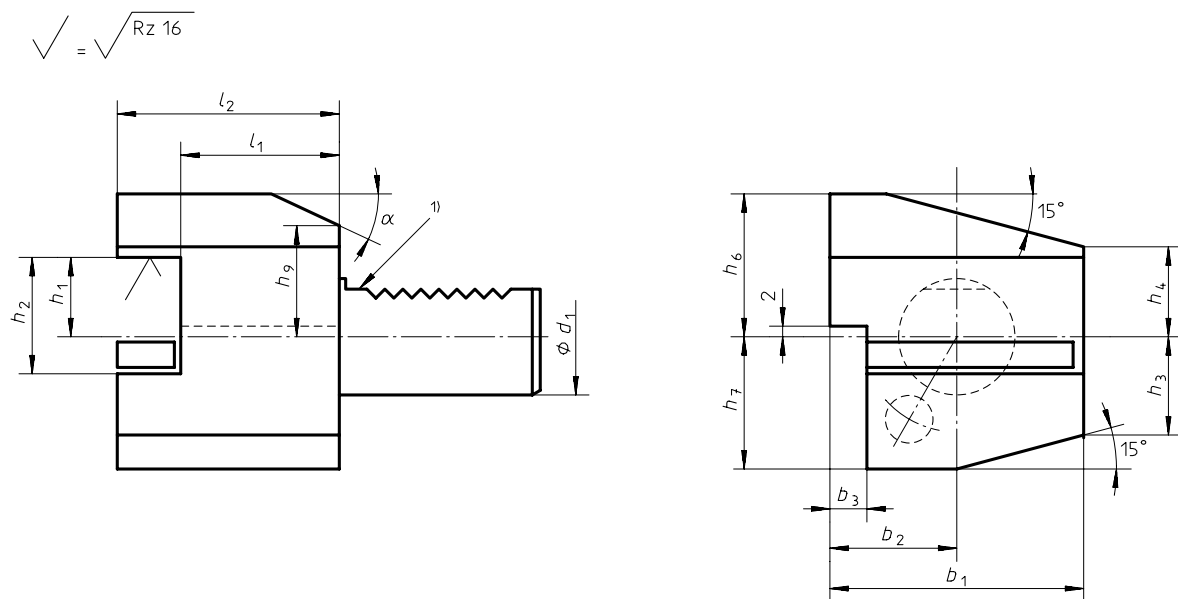
1) Cylindrical shank in accordance with ISO 10889-1.

Figure 3 — Type B3 tool holder, overhead, right-hand, short
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Dimensions in millimetres,
surface roughness in micrometres

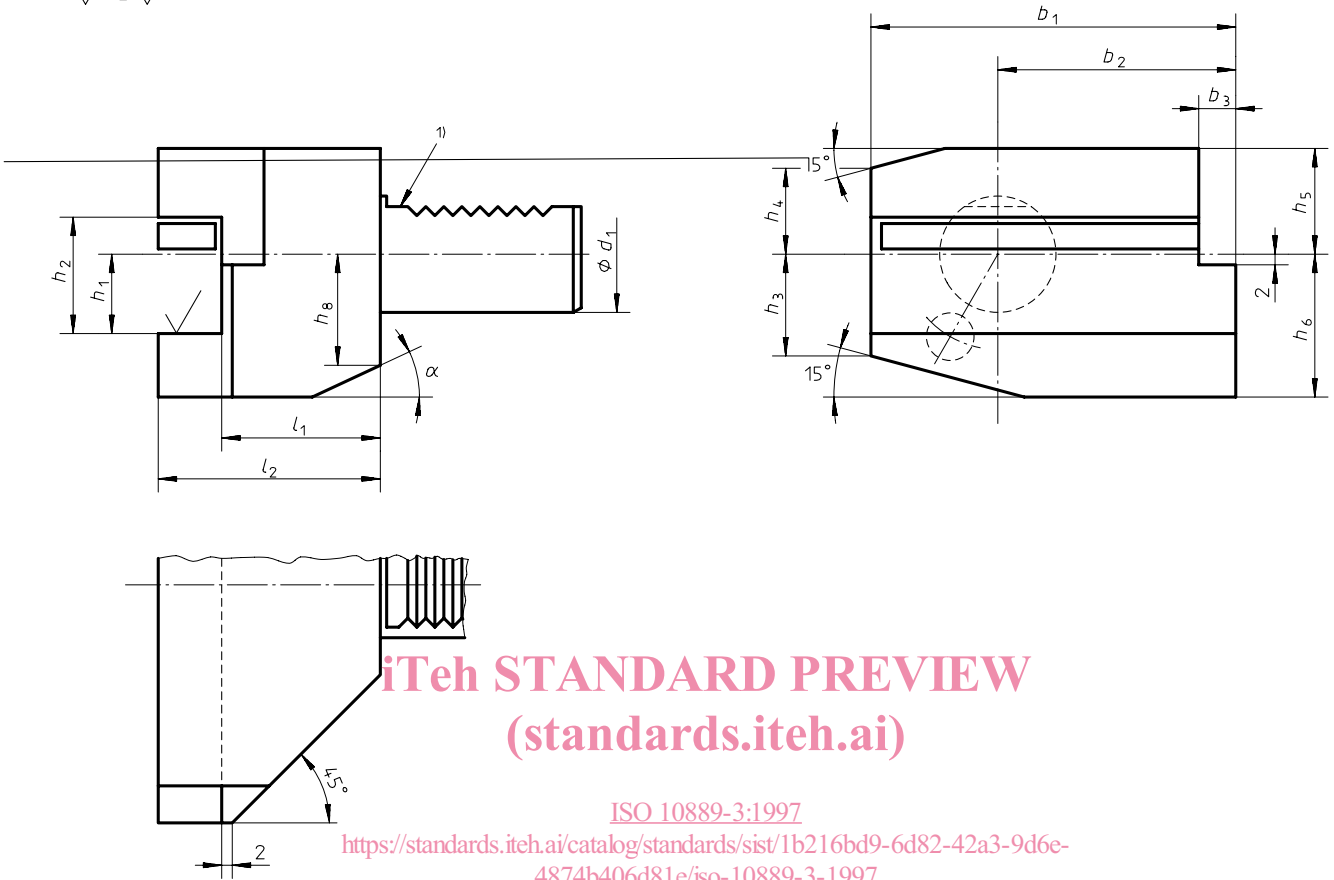


1) Cylindrical shank in accordance with ISO 10889-1.

Figure 4 — Type B4 tool holder, overhead, left-hand, short

Dimensions in millimetres,
surface roughness in micrometres

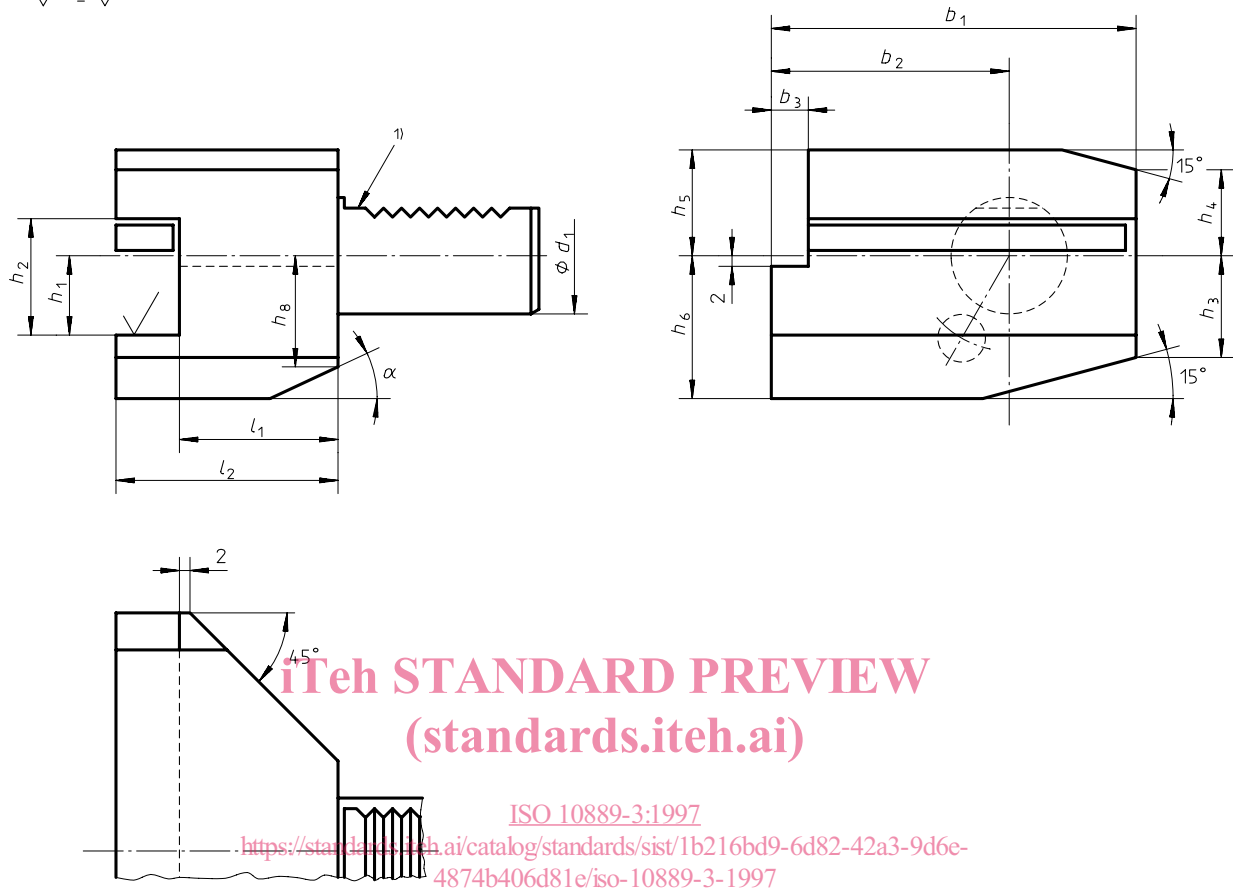
$$\sqrt{\quad} = \sqrt{Rz\ 16}$$



1) Cylindrical shank in accordance with ISO 10889-1.

Dimensions in millimetres,
surface roughness in micrometres

$$\sqrt{\quad} = \sqrt{Rz\ 16}$$

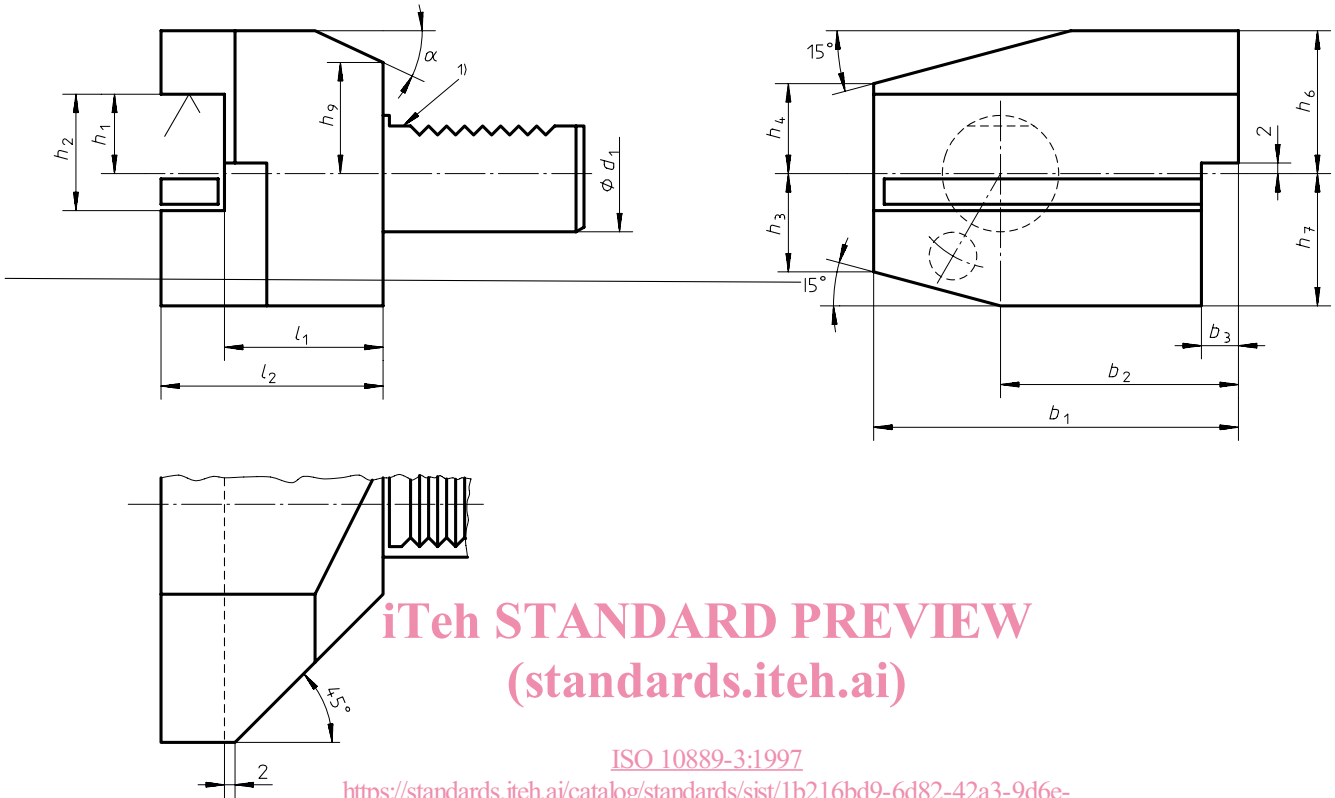


1) Cylindrical shank in accordance with ISO 10889-1.

Figure 6 — Type B6 tool holder, left-hand, long

Dimensions in millimetres,
surface roughness in micrometres

$$\sqrt{\quad} = \sqrt{Rz 16}$$



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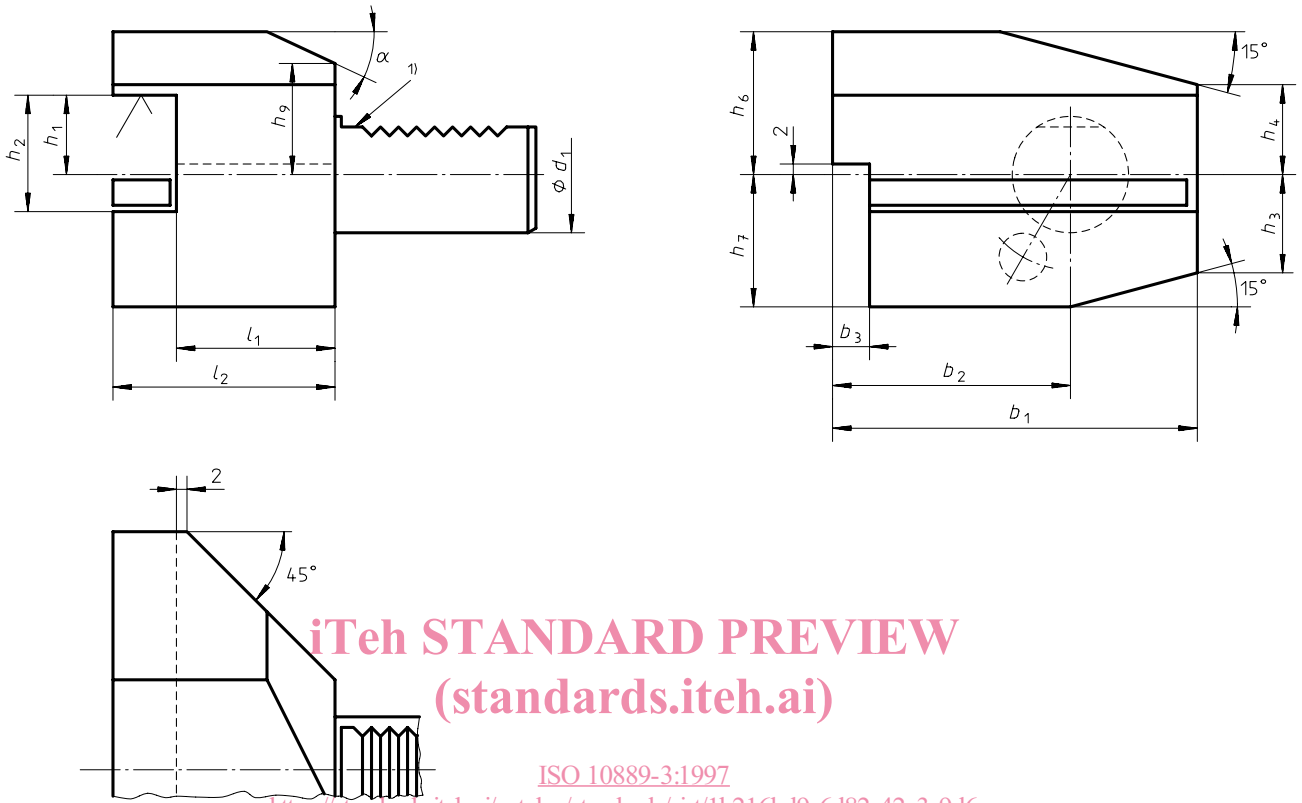
<https://standards.iteh.ai/catalog/standards/sist/1b216bd9-6d82-42a3-9d6e-4874b406d81e/iso-10889-3-1997>

1) Cylindrical shank in accordance with ISO 10889-1.

Figure 7 — Type B7 tool holder, overhead, right-hand, long

Dimensions in millimetres,
surface roughness in micrometres

$$\sqrt{\quad} = \sqrt{Rz\ 16}$$



1) Cylindrical shank in accordance with ISO 10889-1.

Figure 8 — Type B8 tool holder, overhead, left-hand, long

Table 1

Dimensions in millimetres

| d_1 | b_1 Type B | | b_2 Type B | | b_3 | h_1 0 -0,1 | h_2 max. | h_3 | h_4 | h_5 | h_6 | h_7 | h_8 | h_9 | l_1 +0,5 0 | l_2 | α |
|-------|-----------------|--------|-----------------|--------|-------|--------------------|---------------|-------|-------|-------|-------|-------|-------|-------|--------------------|-------|----------|
| | 1 to 4 | 5 to 8 | 1 to 4 | 5 to 8 | | | | | | | | | | | | | |
| 16 | 42 | 58 | 23 | 39 | 5 | 12 | 17 | 15 | 15 | 20 | 22 | 20 | 19 | 19 | 13 | 24 | 30° |
| | | | | | | | | | | | | | | | 23 | 34 | |
| 20 | 55 | 75 | 30 | 50 | 7 | 16 | 22 | 19 | 19 | 25 | 30 | 25 | 23 | 23 | 16 | 30 | 30° |
| | | | | | | | | | | | | | | | 26 | 40 | |
| 25 | 55 | 75 | 30 | 50 | 7 | 16 | 22 | 22,5 | 22,5 | 25 | 30 | 25 | 25 | 25 | 16 | 30 | 30° |
| | | | | | | | | | | | | | | | 26 | 40 | |
| 30 | 70 | 100 | 35 | 65 | 10 | 20 | 29 | 26 | 22 | 28 | 38 | 35 | 30 | 28 | 22 | 40 | 25° |
| | | | | | | | | | | | | | | | 42 | 60 | |
| 40 | 85 | 118 | 42,5 | 75,5 | 12,5 | 25 | 34 | 35 | 30 | 32,5 | 48 | 42,5 | — | — | 22 | 44 | — |
| 50 | 100 | 130 | 50 | 80 | 16 | 32 | 41 | 42 | 35 | 35 | 60 | 50 | — | — | 30 | 50 | — |
| 60 | 125 | 145 | 62,5 | 82,5 | 16 | 32 | 41 | 46 | 42,5 | 42,5 | 62,5 | 62,5 | — | — | 30 | 60 | — |
| 80 | 160 | 190 | 80 | 110 | 20 | 40 | 53 | 60 | 55 | 55 | 80 | 80 | — | — | 40 | 75 | — |