INTERNATIONAL STANDARD

ISO 10889-3

Second edition
2004-11-15

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

Reference number
ISO 10889-3:2004(E)

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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 10889-3 was prepared by Technical Committee ISO/TC 29, *Small tools*.

This second edition cancels and replaces the first edition (ISO 10889-3:1997), Table 1 of which has been technically revised.

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*

Tool holders with cylindrical shank —

Part 3:
Type B with rectangular radial seat

1 Scope

ISO 10889 is applicable 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 a rectangular radial seat of types B1 to B8 with cylindrical shank in accordance with ISO 10889-1. For non-standardized tool holders with a rectangular radial seat such as the tool holders shown in the figures, it is advisable to apply the corresponding specifications of this part of ISO 10889.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

ISO 2768-2, *General tolerances — Part 2: Geometrical tolerances for features without individual tolerance indications*

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

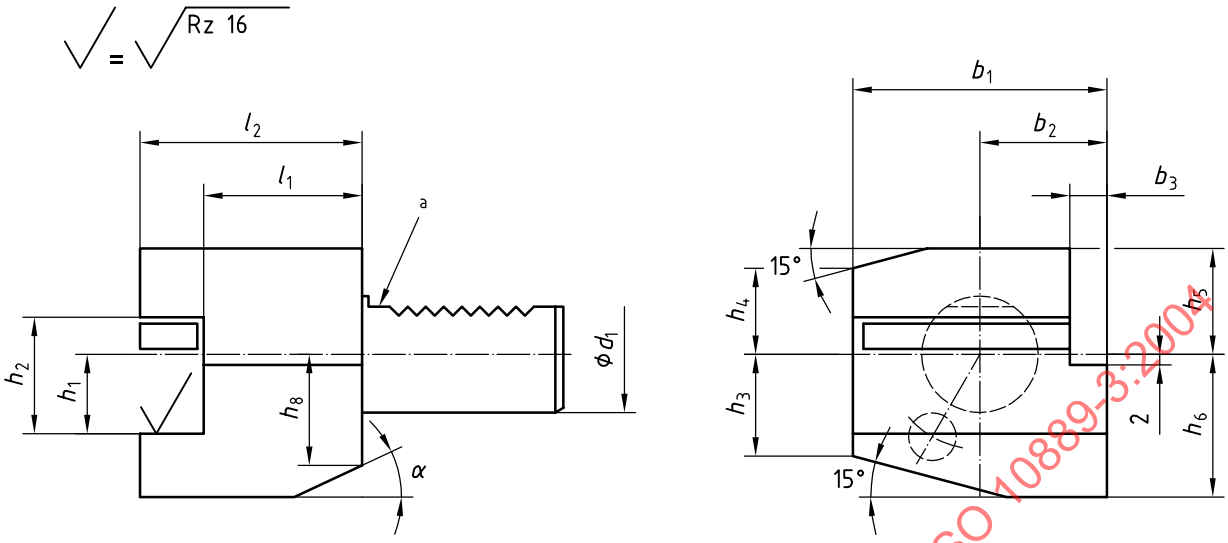
3 Dimensions

See Figures 1 to 8 and Table 1.

Unspecified details shall be chosen appropriately.

General tolerances: ISO 2768-mH.

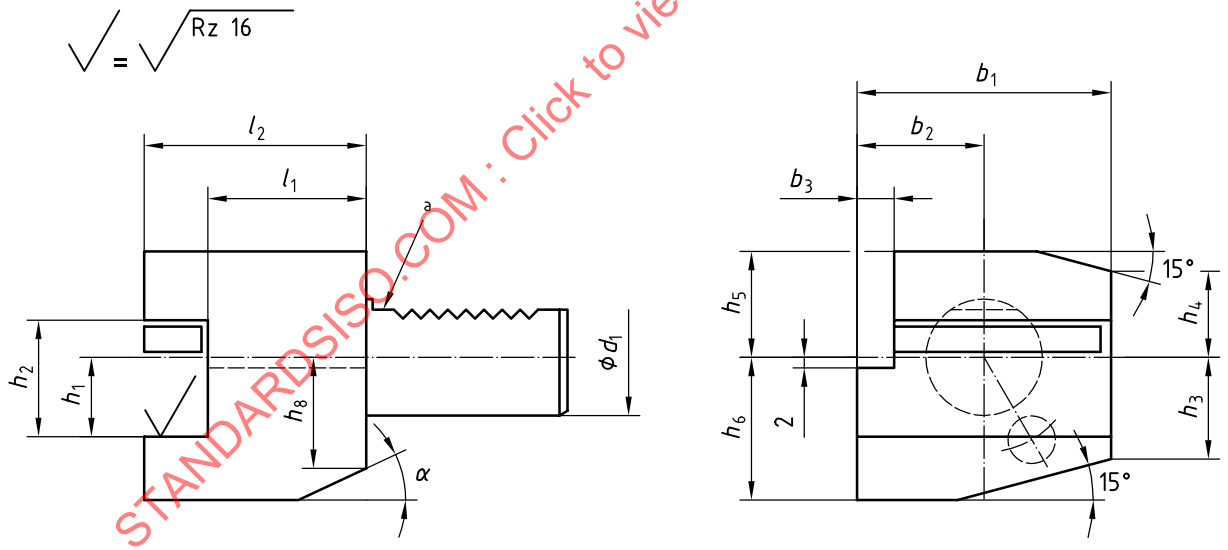
Dimensions in millimetres,
surface roughness in micrometres



a Cylindrical shank in accordance with ISO 10889-1.

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

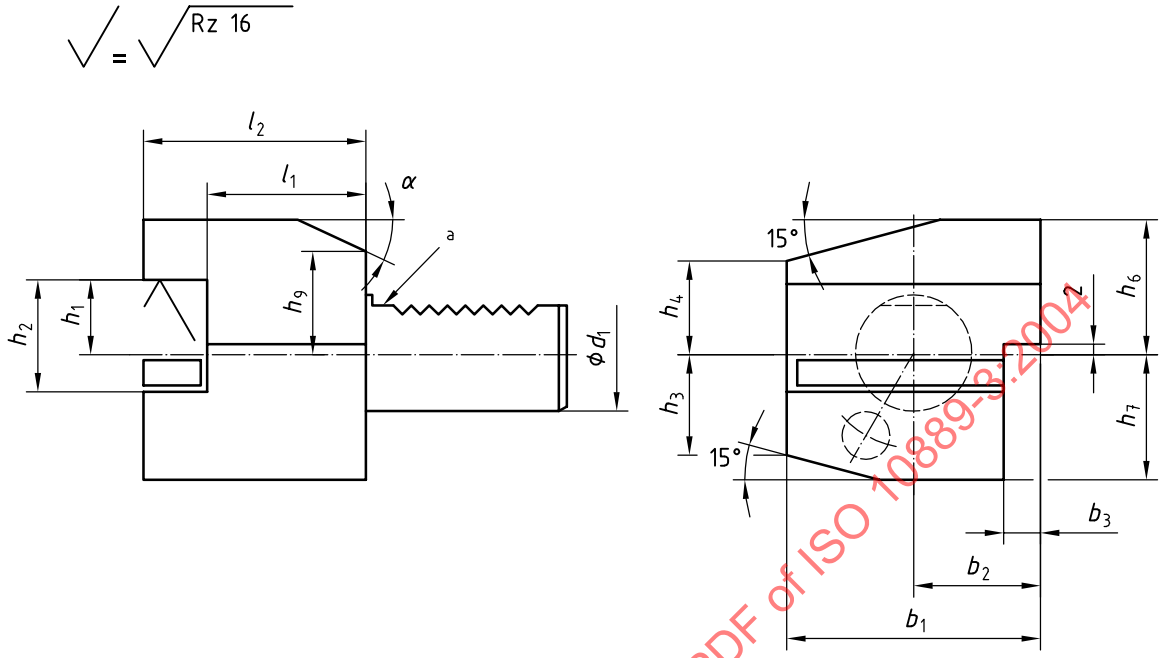
Dimensions in millimetres,
surface roughness in micrometres



a Cylindrical shank in accordance with ISO 10889-1.

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

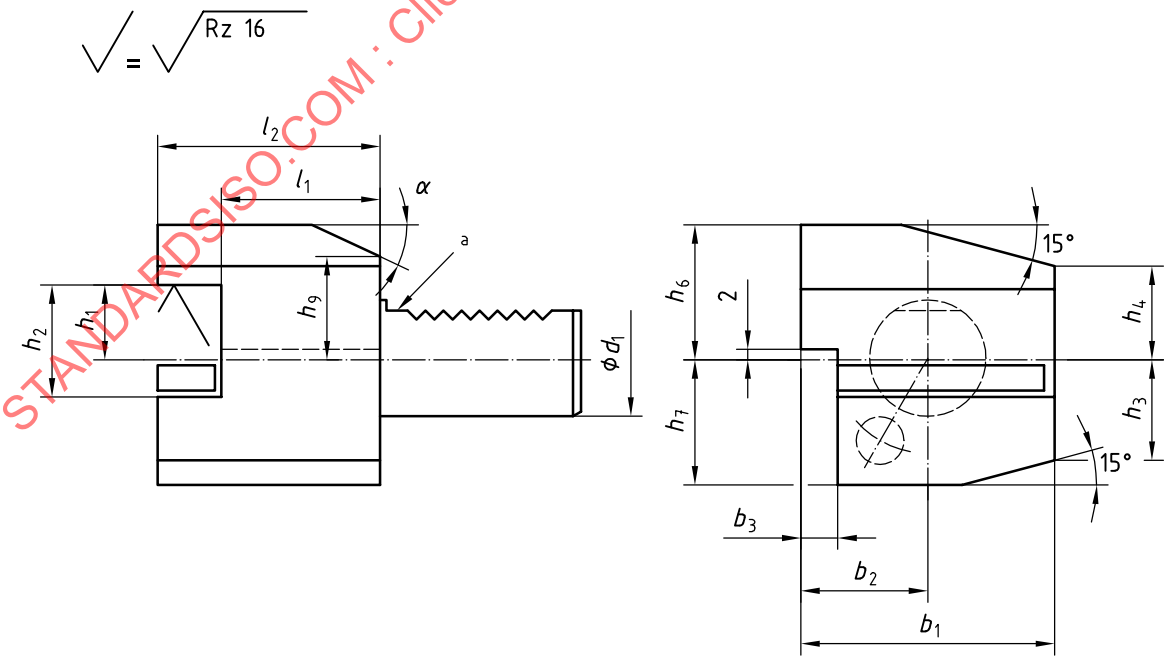
Dimensions in millimetres,
surface roughness in micrometres



a Cylindrical shank in accordance with ISO 10889-1.

Figure 3 — Type B3 tool holder, overhead, right-hand, short

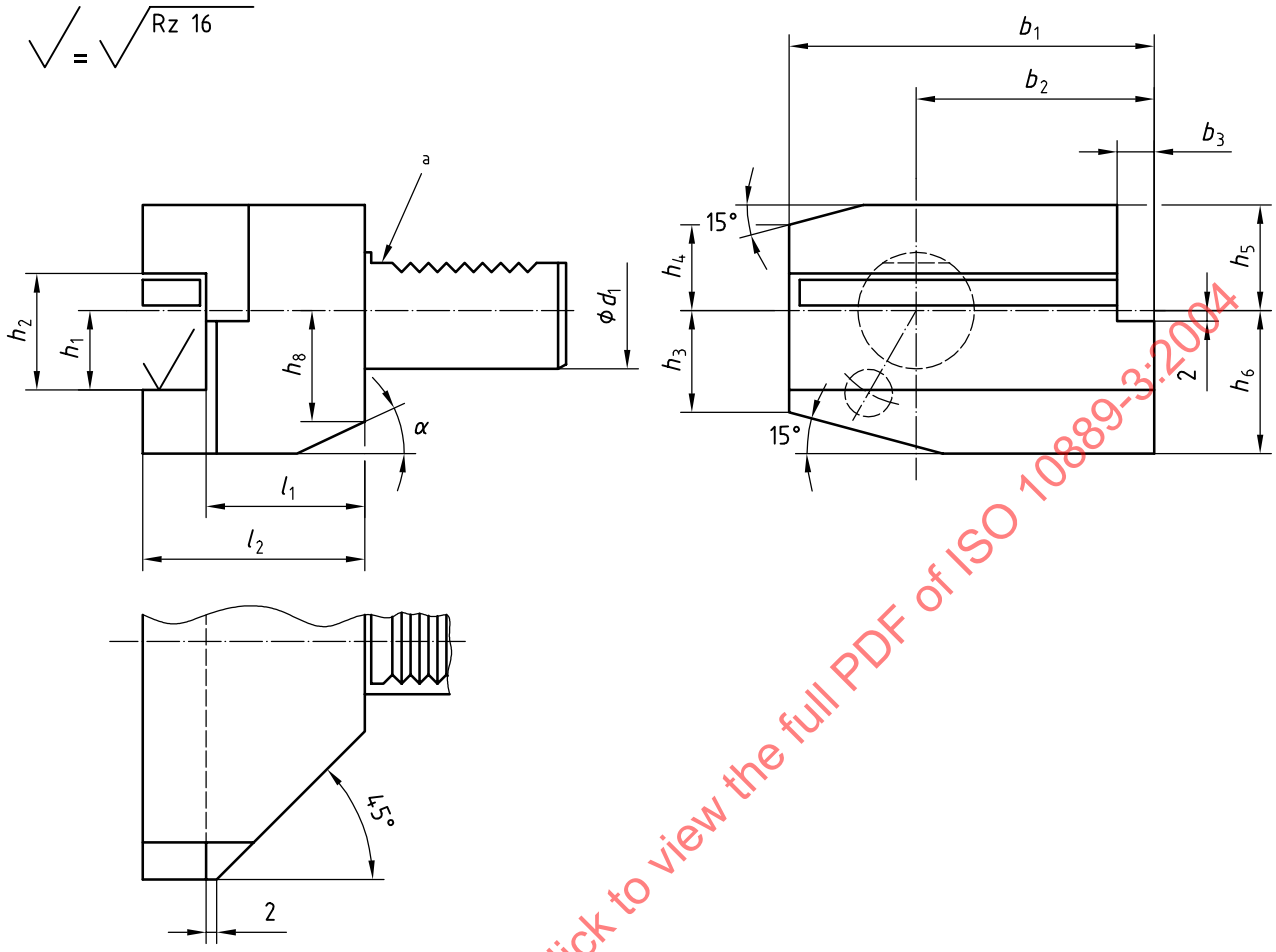
Dimensions in millimetres,
surface roughness in micrometres



a Cylindrical shank in accordance with ISO 10889-1.

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

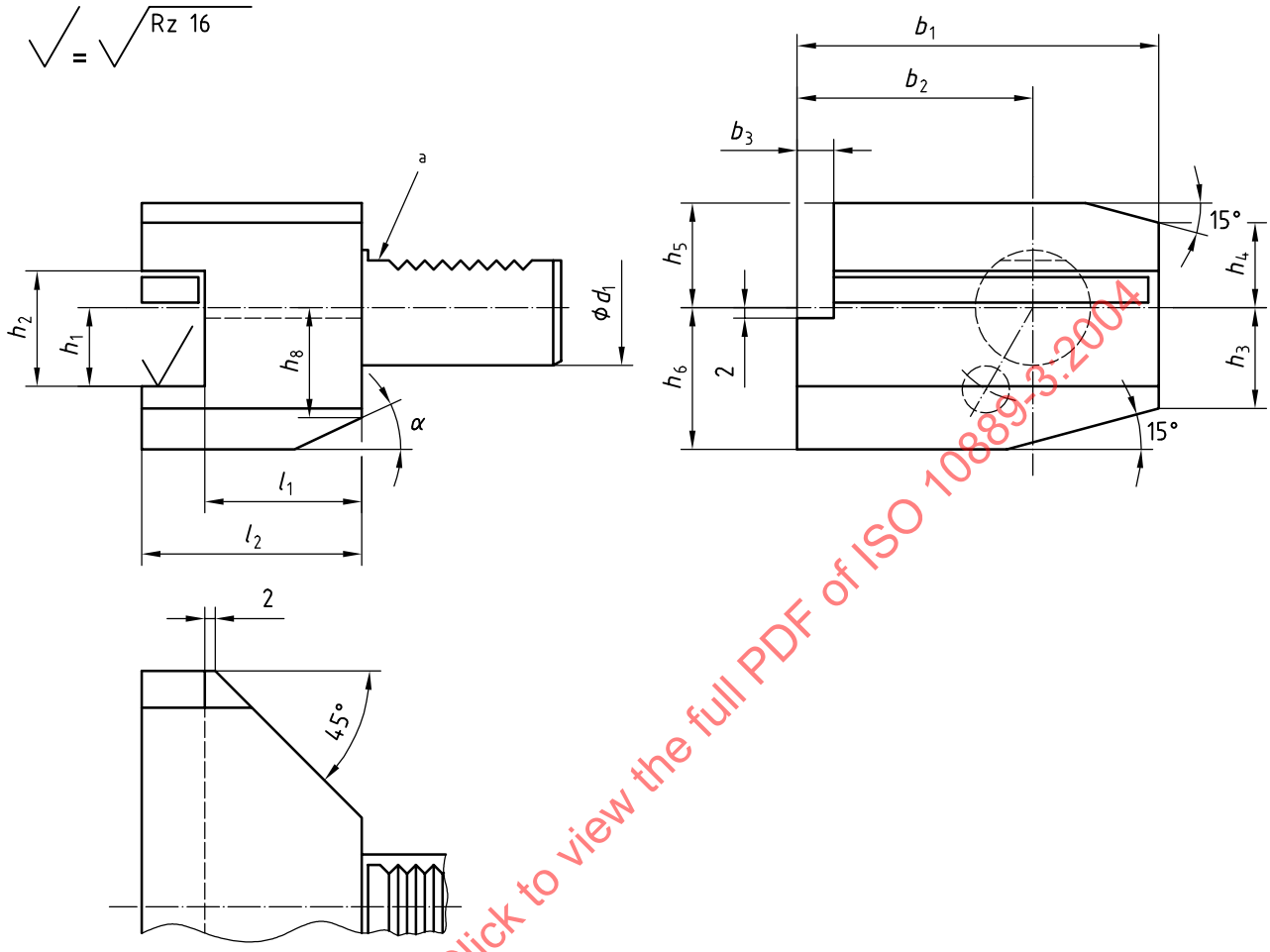
Dimensions in millimetres,
surface roughness in micrometres



a Cylindrical shank in accordance with ISO 10889-1.

Figure 5 — Type B5 tool holder, right-hand, long

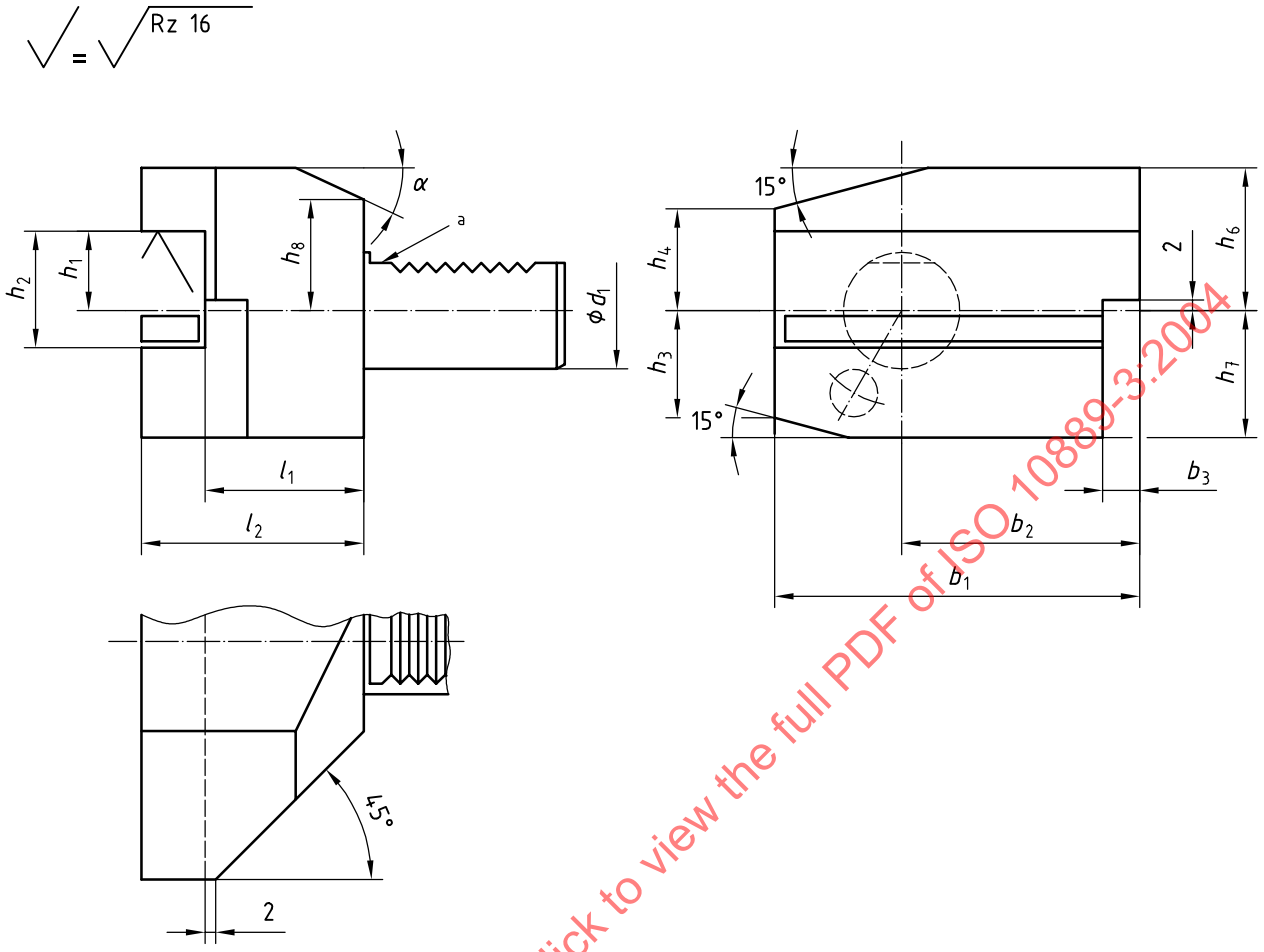
Dimensions in millimetres,
surface roughness in micrometres



a Cylindrical shank in accordance with ISO 10889-1.

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

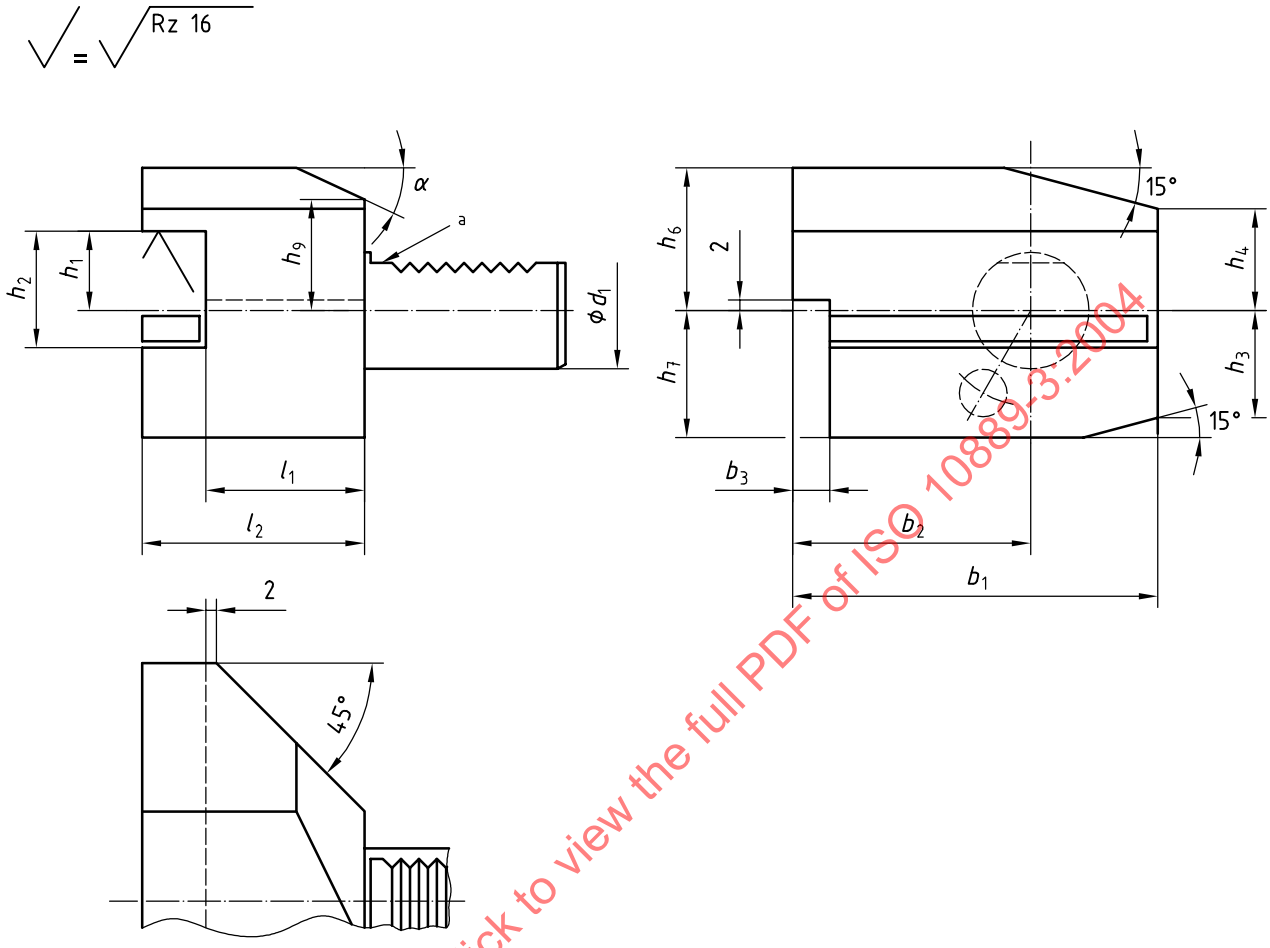
Dimensions in millimetres,
surface roughness in micrometres



a 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



a Cylindrical shank in accordance with ISO 10889-1.

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

Table 1 — Type B tool holder dimensions

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	55	—
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	—

4 Geometrical tolerances

See Figure 9.

Dimensions in millimetres

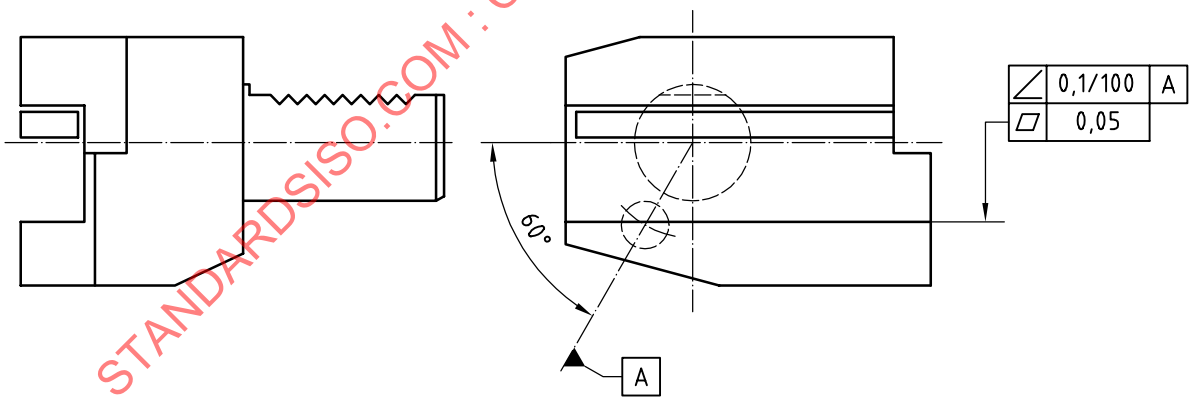


Figure 9 — Geometrical tolerances