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Tools for pressing — L-shaped guides

Outillage de presse — Glissières de guidage en L

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Foreword

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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 16366 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 16366:2001), Clause 3 of which has been technically revised.

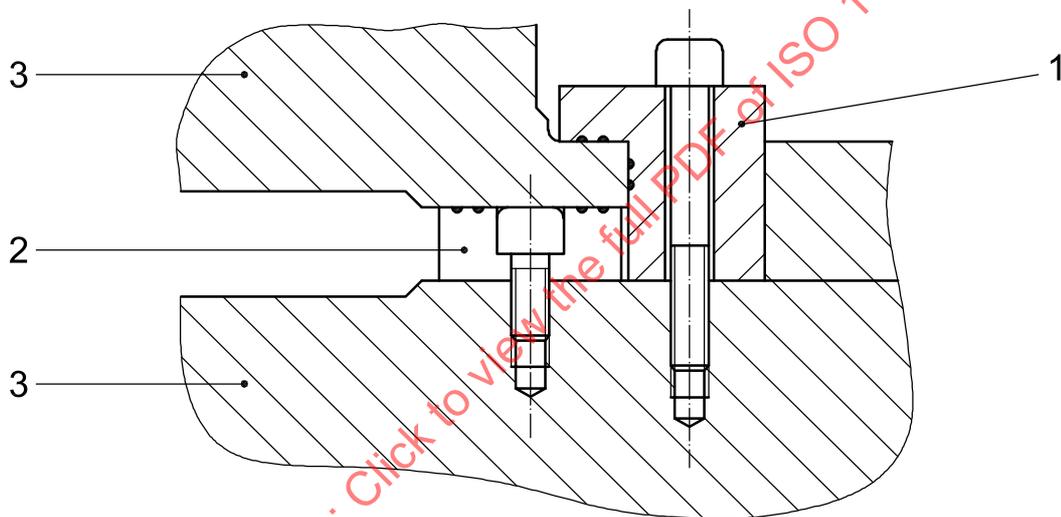
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Tools for pressing — L-shaped guides

1 Scope

This International Standard specifies the main dimensions and tolerances of L-shaped guiding bars, to be used in press tools (an application example is shown in Figure 1).

It also specifies the designation of L-shaped guiding bars.



Key

- 1 L-shaped guiding bars
- 2 sliding plates
- 3 press tool

Figure 1 — Application example of L-shaped guiding bars

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 4762, *Hexagon socket head cap screws*

ISO 8733, *Parallel pins with internal thread, of unhardened steel and austenitic stainless steel*

ISO 13715, *Technical drawings — Edges of undefined shape — Vocabulary and indications*

3 Dimensions

The dimensions of L-shaped guiding bars shall conform to the indications in Figure 2 and Table 1.

All edges of undefined shape shall be in accordance with ISO 13715.

General tolerance: ISO 2768m
 dimensions in millimetres
 surface roughness values in micrometers

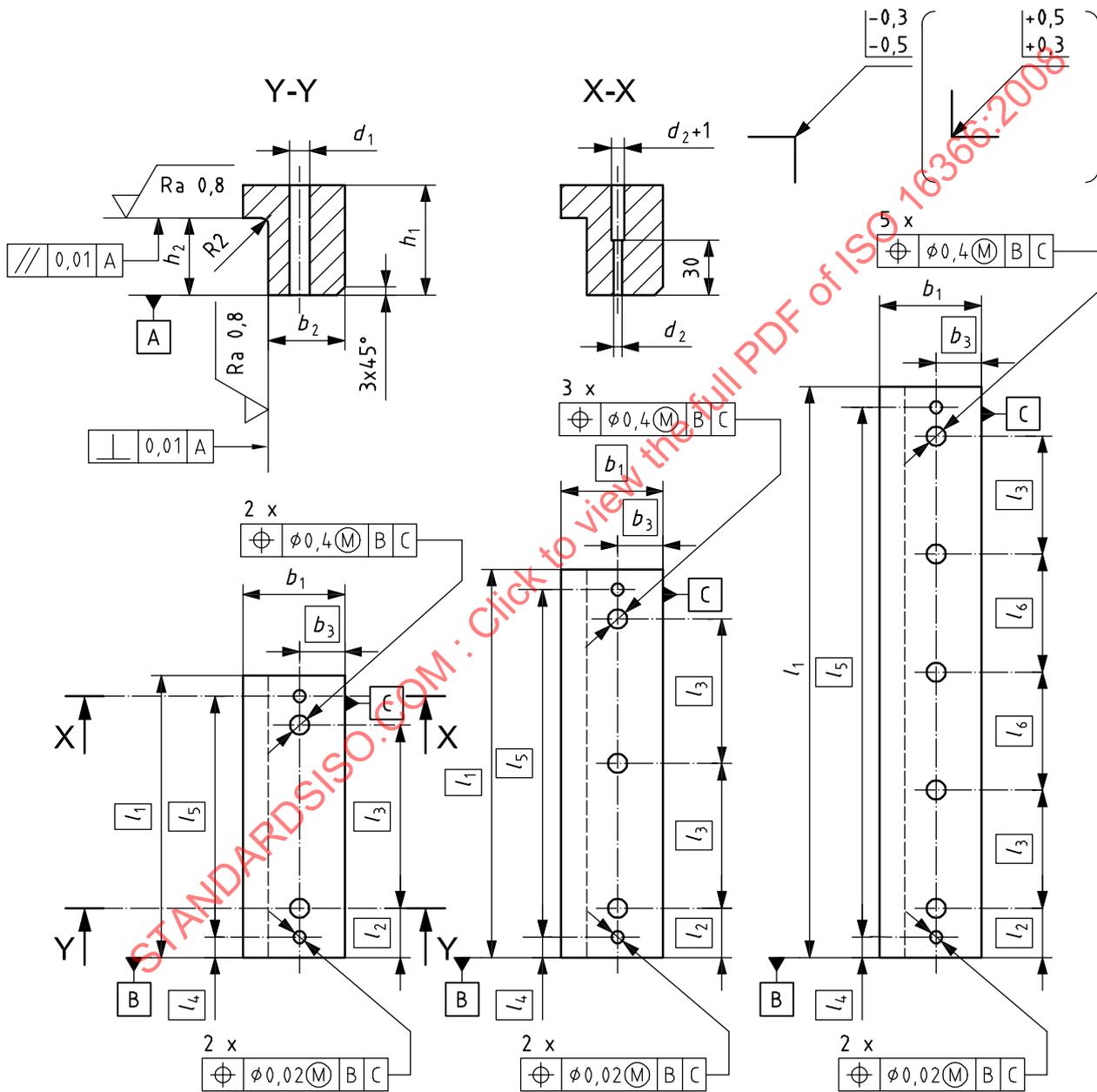


Figure 2 — L-shaped guiding bars

Table 1 — Dimensions of L-shaped guiding bars

Dimensions in millimetres

b_1	h_1	l_1	b_2	b_3	h_2	l_2	l_3	l_6	l_4	l_5	d_1	d_2	Hexagon socket		Parallel pin	
													ISO 4762	pieces	ISO 8733	pieces
$\pm 0,2$	$\pm 0,2$	$\begin{matrix} 0 \\ -0,2 \end{matrix}$	$\begin{matrix} 0 \\ -0,02 \end{matrix}$		$\begin{matrix} +0,02 \\ 0 \end{matrix}$						H13	$\varnothing H7$				
55	55	100	37	20	39	27,5	45	—	10	80	13,5	10	M12 × 80	2	10 × 60	2
		160					105	140								
70	75	160	50	30	55	35	90	—	12,5	135	17,5	12	M16 × 100	2	12 × 70	2
		200					130	175								
		250					90	225								
		400					90	75		375						
85	90	160	63	38	65	42,5	75	—	15	130	22	16	M20 × 120	2	16 × 70	2
		200					115	170								
		250					82,5	220								
		400					82,5	75		370						

4 Material

The choice of material is left to the manufacturer's discretion.

EXAMPLE Bronze with embedded solid lubricant.

5 Designation

L-shaped guiding bars in accordance with this International Standard shall be designated by:

- a) "L-shaped guiding bar";
- b) reference to this International Standard, i.e. ISO 16366;
- c) the length, l_1 , in millimetres;
- d) the height, h_1 , in millimetres.

EXAMPLE An L-shaped guiding bar of length $l_1 = 100$ mm and of height $h_1 = 55$ mm, is designated as follows:

L-shaped guiding bar ISO 16366 — 100 × 55

Bibliography

- [1] ISO 23480, *Tools for pressing — Sliding plates*

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