

BS ISO 23480:2013



BSI Standards Publication

## Tools for pressing — Sliding plates

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**National foreword**

This British Standard is the UK implementation of ISO 23480:2013. It supersedes BS ISO 23480:2008 which is withdrawn.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.

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**Tools for pressing — Sliding plates**

*Outillage de presse — Plaques de retenue*



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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.

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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 23480 was prepared by Technical Committee ISO/TC 29, *Small tools*, Subcommittee SC 8, *Tools for pressing and moulding*.

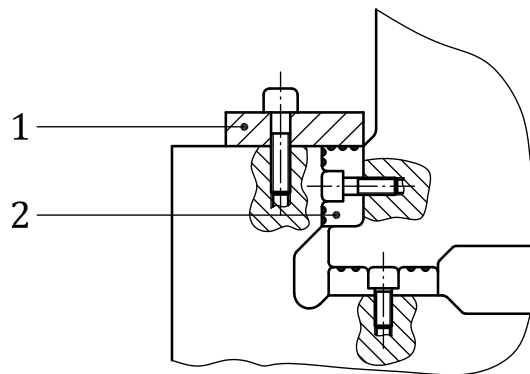
This second edition cancels and replaces the first edition (ISO 23480:2008), [Figures 1, 2 and 3](#) of which have been technically revised.

# Tools for pressing — Sliding plates

## 1 Scope

This International Standard specifies the main dimensions and tolerances of sliding plates, to be used in press tools (an application example is shown in [Figure 1](#)).

It also specifies the designation of sliding plates.



### Key

- 1 sliding plates, type A
- 2 sliding plates, type B

**Figure 1 — Application example of sliding plates**

## 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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 13715, *Technical drawings — Edges of undefined shape — Vocabulary and indications*

## 3 Dimensions

### 3.1 Type A, one-face sliding plates

The dimensions of one-face sliding plates, type A, 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 2768-m  
 Dimensions in millimetres  
 Surface roughness values in micrometres

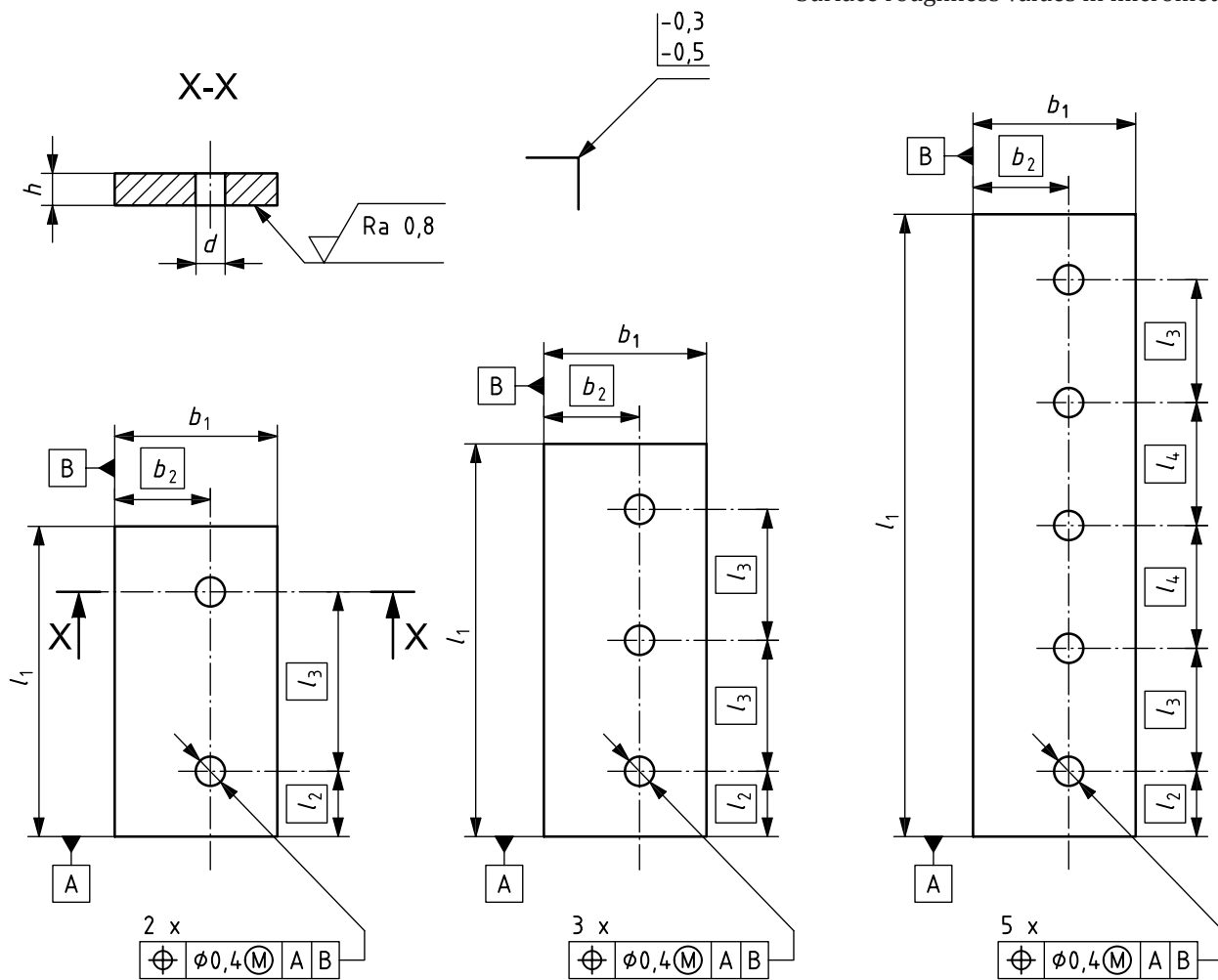


Figure 2 — Type A, one-face sliding plates



**Table 1 — Dimensions of one-face sliding plates, type A**

Dimensions in millimetres

$b_1$ 0 -0,2	$h$ $\pm 0,2$	$l_1$ $\pm 0,2$	$b_2$	$l_2$	$l_3$	$l_4$	$\varnothing d$	Hexagon socket	
								ISO 4762	pieces
35	10	160	20	45	70	-	11	M10 × 30	2
		200			110	-			3
		250			80	-			
45	15	160	30	45	70	-	13,5	M12 × 40	2
		200			110	-			3
		250			80	-			
55	15	160	35	45	70	-	17,5	M16 × 50	2
		200			110	-			3
		250			80	-			
75	25	160	40	45	70	-	17,5	M16 × 60	2
		200			110	-			3
		250			80	-			
100	25	160	60	45	70	-	17,5	M16 × 60	2
		200			110	-			3
		250			80	-			5
		400			80	75			
100	30	160	60	45	70	-	22	M20 × 70	2
		200			110	-			3
		250			80	-			5
		400			80	75			
125	25	160	75	45	70	-	17,5	M16 × 60	2
		200			110	-			3
		250			80	-			5
		400			80	75			
125	30	160	75	45	70	-	22	M20 × 70	2
		200			110	-			3
		250			80	-			5
		400			80	75			



**Table 2 — Dimensions of two-face sliding plates, type B**

Dimensions in millimetres

$b_1$ 0 -0,2	$h$ 0 -0,2	$l_1$	$l_2$	$l_3$	$b_2$	$d_1$ H13	$d_2$ H13	$h_1$ +0,5 0	Hexagon socket	
									ISO 4762	pieces
25	12	110	25	60	12,5	9	15	8,5	M8 × 20	2
		120		70						
25	15	110	25	60	12,5	11	18	10,5	M10 × 25	2
		120		70						
60	30	125	25	75	30	13,5	20	13	M12 × 35	2
		160		110						
		200		75	30	13,5	20	13	M12 × 35	3
60	40	125	25	75	30	13,5	20	13	M12 × 45	2
		160		110						2
		200		75						3

## 4 Material

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

EXAMPLE Steel for type A sliding plate and bronze with embedded solid lubricant for type B sliding plate.

## 5 Designation

Sliding plates in accordance with this International Standard shall be designated by:

- "Sliding plate";
- a reference to this International Standard (i.e. ISO 23480);
- the type, A or B;
- the width,  $b_1$ , in millimetres;
- the height,  $h$ , in millimetres;
- the length,  $l_1$ , in millimetres.

EXAMPLE 1 A sliding plate of type A with width  $b_1 = 100$  mm, height  $h = 25$  mm, and length  $l_1 = 250$  mm is designated as follows:

**Sliding plate ISO 23480 - A 100 × 25 × 250**

EXAMPLE 2 A sliding plate of type B with width  $b_1 = 60$  mm, height  $h = 30$  mm, and length  $l_1 = 125$  mm is designated as follows:

**Sliding plate ISO 23480 - B 60 × 30 × 125**





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