
**Tools for pressing — Wear plates
for press dies —**

Part 1:
Type A

*Outils de presse — Plaques de frottement —
Partie 1: Type A*

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Reference number
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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

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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 9183-1 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 9183-1:1990), Clause 3 of which has been technically revised.

ISO 9183 consists of the following parts, under the general title *Tools for pressing — Wear plates for press dies*:

- *Part 1: Type A*
- *Part 2: Type B*

Tools for pressing — Wear plates for press dies —

Part 1: Type A

1 Scope

This part of ISO 9183 specifies the basic dimensions and tolerances in millimetres of wear for press dies, type A, intended for use mainly in large press dies. It also specifies the size and positions of the clearance holes for attachment.

It gives material indications, and specifies the designation of wear plates for press dies, type A, which meet the requirements of this part of ISO 9183.

Two thicknesses of this type of wear plate are specified: type A1, with a thickness, t , of 20 mm, and type A2, with a thickness, t , of 12 mm.

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.

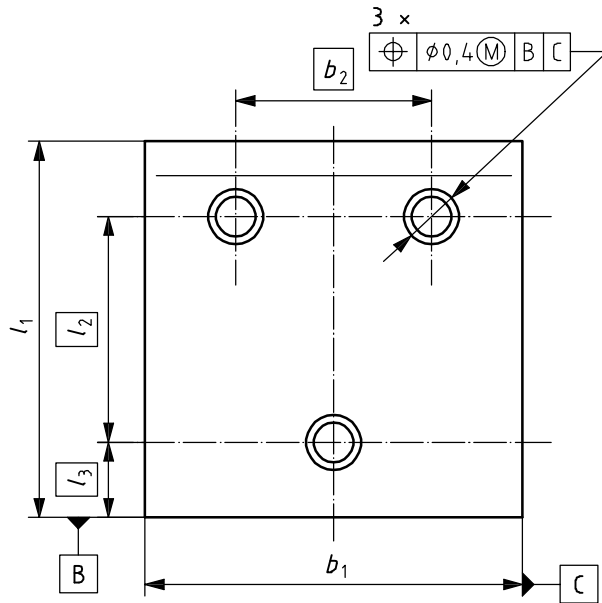
ISO 2768-1, *General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications*

ISO 4762, *Hexagon socket head cap screws*

3 Types and dimensions

3.1 Type A1

The dimensions of type A1 wear plates shall conform to the indications in Figure 1, Figure 2 and Table 1.



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

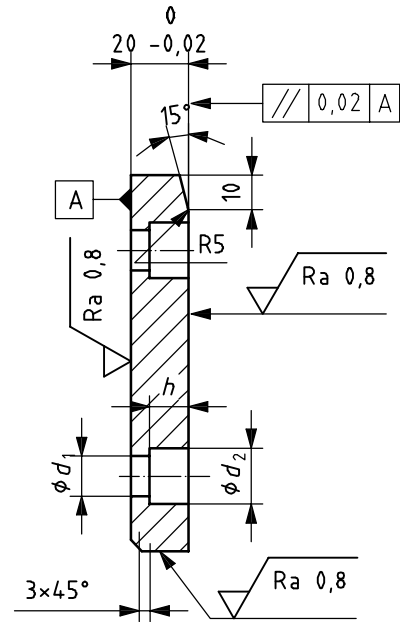


Figure 1 — Type A1

Table 1 — Dimensions for type A1

Dimensions in millimetres

b_1 0 -0,2	l_1 0 -0,2	b_2	l_2	l_3	d_1 H13	d_2 H13	h $\begin{matrix} +0,5 \\ 0 \end{matrix}$	Hexagonal socket	
								ISO 4762	pieces
50	80	—	30	25	9	15	9	M8 × 25	2
	100	—	50	25	13,5	20	13	M12 × 25	2
	125	—	75	25					
	160	—	110	25					
	200	—	150	25					
80	50	30	—	25	9	15	9	M8 × 25	2
	80	—	30	25	13,5	20	13	M12 × 25	2
	100	—	50	25					
	125	—	75	25					
	160	—	110	25					
	200	—	150	25					
100	50	50	—	25	13,5	20	13	M12 × 25	2
	80	50	—	40					
	100	—	50	25					
	125	—	75	25					
	160	—	110	25					
	200	—	150	25					
125	50	75	—	25	13,5	20	13	M12 × 25	2
	80	75	—	40	13,5	20	13	M12 × 25	3
	100	75	50	25					
	125	75	75	25					
	160	75	110	25					
	200	75	150	25					
160	50	110	—	25	13,5	20	13	M12 × 25	2
	80	110	—	40	13,5	20	13	M12 × 25	3
	100	110	50	25					
	125	110	75	25					
	160	110	110	25					
	200	110	150	25					

General tolerance: ISO 2768-m
 dimensions in millimetres

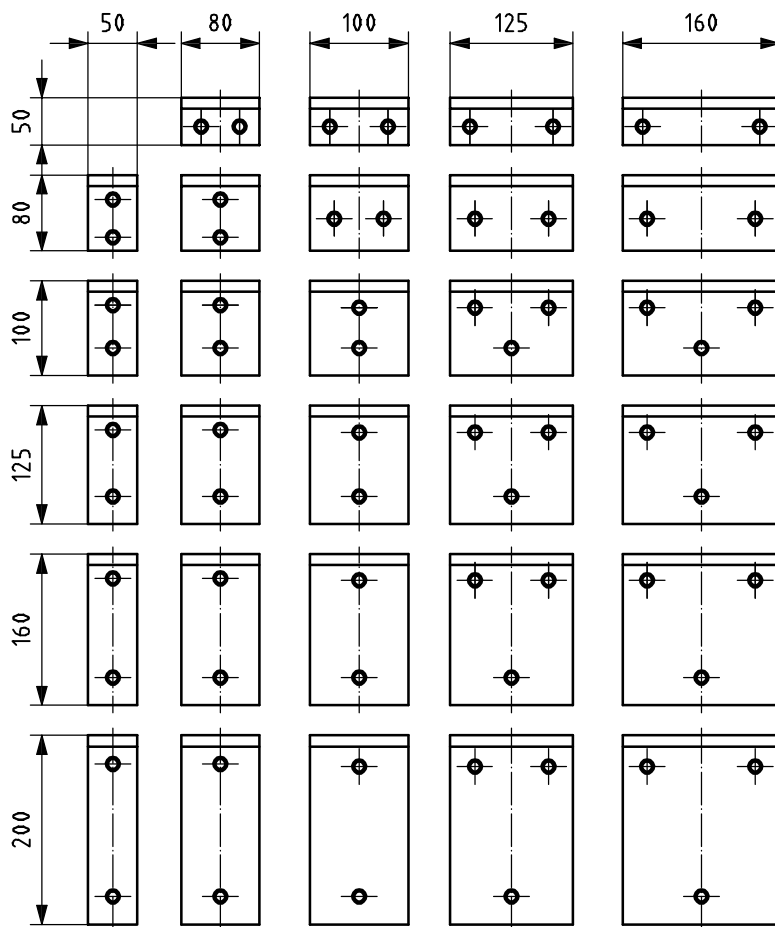


Figure 2 — Clearance hole patterns for type A1

3.2 Type A2

The dimensions of type A2 wear plates shall conform to the indications of Figure 3, Figure 4 and Table 2.

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

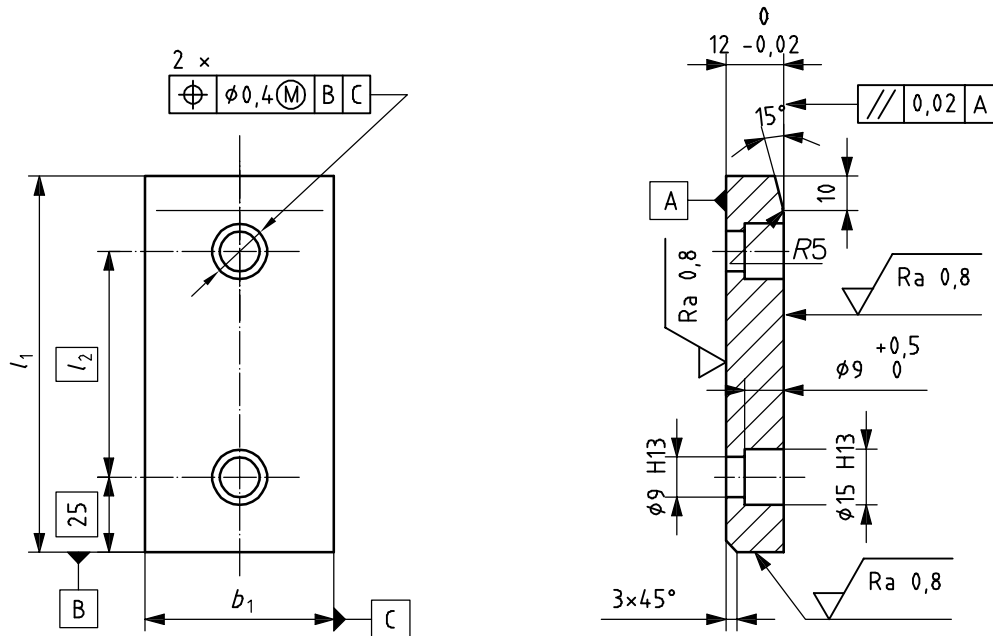


Figure 3 — Type A2

Table 2 — Dimensions for type A2

Dimensions in millimetres

b_1 0 -0,2	l_1 0 -0,2	l_2	Hexagonal socket	
			ISO 4762	pieces
20	80	30	M8 × 20	2
	100	50		
	125	75		
	160	110		
	200	150		
30	80	30	M8 × 20	2
	100	50		
	125	75		
	160	110		
	200	150		
40	80	30	M8 × 20	2
	100	50		
	125	75		
	160	110		
	200	150		
50	80	30	M8 × 20	2
	100	50		
	125	75		
	160	110		
	200	150		
60	80	30	M8 × 20	2
	100	50		
	125	75		
	160	110		
	200	150		
80	80	30	M8 × 20	2
	100	50		
	125	75		
	160	110		
	200	150		

General tolerance: ISO 2768-m
 Dimensions in millimetres

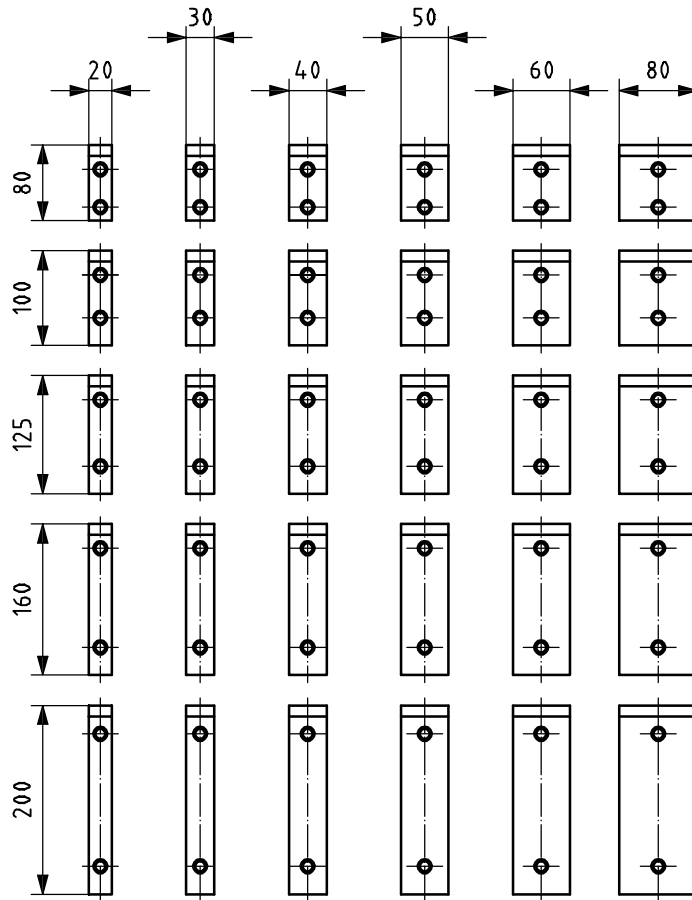


Figure 4 — Clearance hole patterns for type A2

4 Material

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

5 Designation

Wear plates in accordance with this part of ISO 9183 shall be designated by:

- a) "Wear plate";
- b) reference to this part of ISO 9183, i.e. ISO 9183-1;
- c) its type (A1 or A2);
- d) its width, b_1 , in millimetres;
- e) its length, l_1 , in millimetres.

EXAMPLE The designation for a wear plate for press dies, type A1 with a width of $b_1 = 80$ mm and a length $l_1 = 100$ mm is designated as follows:

Wear plate ISO 9183-1 A1 — 80 × 100



ICS 25.120.10

Price based on 8 pages