INTERNATIONAL STANDARD

ISO 8977

Second edition 2003-01-15

Tools for pressing — Matrixes

Outillage de presse — Matrices

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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 3.

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 International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 8977 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 8977:1987), clause 3 of which has been technically revised.

Annex A of this International Standard is for information only.

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Tools for pressing — Matrixes

1 Scope

This International Standard lays down the basic dimensions and tolerances in millimetres for headless and headed matrixes, in the outside diameter range of 5 mm to 50 mm.

It gives examples of material and hardness, and specifies a designation for matrixes that meet the requirements of this International Standard.

The dimensions and tolerances of the matrixes specified in this International Standard are adapted to conform to those for punches specified in ISO 8020.

2 Normative reference

The following normative document contains provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the normative document indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 8020:2002, Tools for pressing — Punches with cylindrical head and straight or reduced shank

ISO 8977:2003

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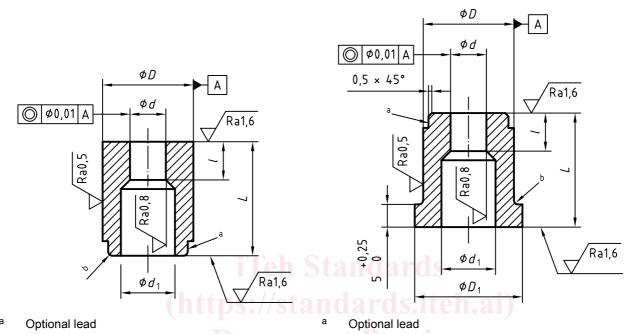
3 Dimensions

3.1 Matrixes with round cutting shapes

See Figures 1 and 2 and Table 1.

Surface roughness values in micrometres

Surface roughness values in micrometres



b Chamfer left to the manufacturer's discretion

Execution left to the manufacturer's discretion

Figure 1 — Type A — Headless matrix with round cutting shape

Figure 2 — Type B — Headed matrix
with round cutting shape

Table 1 — Dimensions

Dimensions in millimetres

D		d	D_1	L			l		d_1	
Type A	Type B	+ 0,02 0	0 - 0,25		+0,5 0					
n5 ^a	m5 ^a			20	25	32	min.	max.	max.	
5	5	1 <i>≤ d ≤</i> 2,4	8	×			2		2,8	
6	3	1,6 <i>≤ d ≤</i> 3	9	×	×		3		3,5	
8	3	$2 \leqslant d \leqslant 3,5$	11	×	×		4		4	
1	0	2,5 <i>≤ d ≤</i> 5	13	×	×	×	4	8	5,8	
1	3	4 ≤ <i>d</i> ≤ 7	16	×	×	×	5	8	8	
1	6	6 <i>≤ d ≤</i> 9	19	×	×	×	5	8	9,5	
2	0	8 <i>≤ d ≤</i> 11	23	×	×	×	8	20	12	
2	5	10,7 <i>≤ d ≤</i> 16	28	×	×	×	8	20	17,3	
3	2	15 <i>≤ d ≤</i> 20	35	×	×	×	8	20	20,7	
4	0	19 <i>≤ d ≤</i> 27	43		×	×	8	20	27,7	
5	0	26 <i>≤ d ≤</i> 36	53			×	8	20	37	
a h5 on special request.										

2