

INTERNATIONAL STANDARD

ISO
11900-1

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Tools for pressing — Ball-lock punch retainers —

Part 1:

Types A and B, rectangular and square for light
duty

*Outillage de presse — Porte-poinçons pour poinçons à bille —
Partie 1: Types A et B, rectangulaire et carré pour tôles minces*



Reference number
ISO 11900-1:1994(E)

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.

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.

International Standard ISO 11900-1 was prepared by Technical Committee ISO/TC 29, *Small tools*, Subcommittee SC 8, *Tools for pressing and moulding*.

ISO 11900 consists of the following parts, under the general title *Tools for pressing — Ball-lock punch retainers*:

- Part 1: *Types A and B, rectangular and square for light duty*
- Part 2: *Type C, reduced for light duty*

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Tools for pressing — Ball-lock punch retainers —

Part 1:

Types A and B, rectangular and square for light duty

1 Scope

This part of ISO 11900 specifies the dimensions and tolerances, in millimetres, of ball-lock punch retainers, type A (rectangular) and type B (square) for light duty, and of their backing plates, the main use being retention of ball-lock punches in accordance with ISO 10071, when punching holes in steel sheets.

It also gives material guidelines and hardness requirements, and specifies the designation of ball-lock punch retainers in accordance with this part of ISO 11900.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 11900. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 11900 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 273:1979, *Fasteners — Clearance holes for bolts and screws.*

ISO 4762:1989, *Hexagon socket head cap screws — Product grade A.*

ISO 8735:1987, *Parallel pins with internal thread, hardened.*

ISO 10071:1991, *Tools for pressing — Ball-lock punches.*

3 Dimensions

The general tolerance for all dimensions not individually tolerated is $\pm 0,25$ mm.

3.1 Type A ball-lock punch retainers (rectangular)

See figure 1 and table 1.

3.2 Type B ball-lock punch retainers (square)

See figure 2 and table 2.