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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 44533.3-2024

**Tools for pressing - Ball-lock punch retainers - Part 3: Type E,
reduced for heavy duty
(English Translation)**

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document is part 3 of GB/T 44533 "Die ball locking punch retainer plate". GB/T 44533 has been published for the following part.

- Part 1: Type A and B light-duty rectangular and square;
- Part 2: Type C and D light load simple type;
- Part 3: Type E heavy-duty simplified type.

This document is equivalent to ISO 11900-3:2004 "Die ball lock punch retainer plate Part 3: Type E heavy duty simple type".

A new chapter "Terms and Definitions" has been added to this document.

Introduction

GB/T 44533 adopts the ISO 11900 series of international standards, and each part is consistent with the international standards. It consists of three parts.

- Part 1: Type A and B light-duty rectangular and square. The purpose is to unify the common light-duty ball locking punch fixing plate Size specifications.
- Part 2: Type C and D light-duty simple types. The purpose is to unify the dimensions of the fixing plate of the light-duty simple ball locking punch Specification.
- Part 3: E-type heavy-duty simple type. The purpose is to unify the dimensions of

heavy-duty simple ball locking punch fixing plates.

Die ball locking punch fixing plate Part 3: Type E Heavy Duty Simple

1 Scope

This document specifies the dimensions and tolerances of the E-type heavy-duty simple ball locking punch fixing plate and its backing plate in millimeters.

The plate and its backing plate are mainly used in the process of punching steel plates to fix the ball locking punch that complies with ISO 10071-2.

This document also specifies the material, hardness and marking of the retaining plate of the E-type ball locking punch.

2 Normative references

The contents of the following documents constitute essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to this document.

Note: GB/T 5277-1985 Fasteners Bolts and Screws Through Holes (ISO 273:1979, EQV) ISO 3290:2001 Ball bearings - Ball dimensions and tolerances Note. GB/T 70.1-2008 Hexagon socket head screws (ISO 4762:2004, MOD) Note. GB/T 120.2-2000 Internal thread cylindrical pins hardened steel and martensitic stainless steel (ISO 8735:1997, EQV) ISO 10071-2 Tools for pressing-Bal-lock punches Part 2: Heavy-duty ball-lock punches

3 Terms and definitions

There are no terms or definitions that require definition in this document.

4.1 General tolerances

The limit deviation value of all un-indicated tolerance dimensions is $\pm 0.25\text{mm}$.

4.2 E-type ball locking punch fixing plate

The dimensions of the E-type heavy-duty simple ball locking punch fixing plate shall comply with the requirements of Figure 1 and Table 1.