

ICS 01.040.25; 25.120.30
CCS J 46



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

GB/T 45454-2025

**Compression and injection moulds - Components for gating
systems**

压缩模和注射模 浇注系统零件

(English Translation)

Issued on: March 28, 2025

Implemented on: March 28, 2025

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

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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 equivalent to ISO 28238:2010 "Components of gating systems for compression and injection moulds".

1 Scope

This document specifies the characteristics of parts of injection mould gating systems for the moulding of thermoplastics, thermosets and elastomers.

Hot runner system, internal hot runner system and cold runner gating system.

The purpose of this document is to establish uniform terminology for different gating systems.

Note 1: See Figures 1 to 12 for the gating system parts and some installation examples. All parameters in the figures are for example only and do not need to be considered when designing the mold.

Note 2: For terms and symbols for parts of compression moulds, injection moulds and die-casting moulds, see ISO 12165.

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 67-2016 Slotted pan head screws (ISO 1580:2011, MOD)

Note: GB/T 70.1-2008 Hexagon socket head screws (ISO 4762:2004, MOD)

ISO 6753-2 Tools for pressing and forming dies - Part 2: Machined plates for forming dies

Note: GB/T 45382-2025 Straight guide pins, shouldered guide pins and shouldered positioning guide pins for forming moulds (ISO 8017:2007, IDT)

Note: GB/T 119.2-2000 Cylindrical pin hardened steel and martensitic stainless steel (eqvISO 8734.1997)

Note: GB/T 120.2-2000 Internal thread cylindrical pin hardened steel and martensitic stainless steel (eqvISO 8735.1997)

ISO 9449 Tools forming - Centring sleeves

Note: GB/T 39170-2020 Hollow locating pins for forming moulds (ISO 9449:2007, MOD)

ISO 10072 Tools forming-Spruebushes-Dimensions

Note: GB/T 70.3-2023 Hexagon socket countersunk screws with reduced load capacity (ISO 10642:2019, MOD)

ISO 10907-1 Mould retaining rings - Part 1: Small and medium-sized mould retaining rings without heat shields - Types A and B