

ICS 49.030.20
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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 45572-2025

**Ribbed cruciform recess for aerospace
(English Translation)**

Issued on: April 25, 2025

Implemented on: November 1, 2025

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

Table of Contents

Foreword
1 Scope
2 Normative references
3 Terms and definitions
4 Type and size

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 modified to adopt ISO 12256:2002 "Aerospace drive slots, internal, cross, ribbed metric series".

This document has the following structural adjustments compared to ISO 12256:2002.

- Added a chapter on "Terms and Definitions" (see Chapter 3);
- Chapter 4 corresponds to Figures 1 to 4 and Tables 1 to 4 of Chapters 3 and 4 of ISO 12256:2002;
- Chapter 5 corresponds to the first paragraph of Chapter 4 in ISO 12256:2002.

The technical differences between this document and ISO 12256:2002 and their reasons are as follows.

- The informative reference ISO 1101 (see Chapter 4) is replaced by the normative reference GB/T 1182 to adapt to the technical requirements of my country.

parts, increasing operability;

- Added symbol J1, representing the insertion depth (see Figure 2 to Figure 4), for ease of use.

The following editorial changes were made to this document.

- In order to coordinate with the existing standards, the name of the standard is changed to "Ribbed Cross Slots for Aerospace Use";
- The year numbers of normative references in Chapter 2 have been deleted to keep consistent with the main text;

- Changed the representation in Figure 1;
- Deleted the English size comparison column in Table 1;
- Deleted the R before the slot number (see Table 1 to Table 4);
- Changed the letter representation method of structural dimensions in figures and tables.

1 Scope

This document specifies the types and dimensions of ribbed cross slots for aerospace applications.

This document applies to bolts and screws with a nominal thread diameter of 3mm~20mm.

NOTE: For screwdrivers and gauges matching this document, see ISO 14280 and ISO 14281.

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.

GB/T 1182 Product Geometric Specification (GPS) Geometric Tolerances Shape, Direction, Position and Runout Tolerances ISO 3202 Aerospace strength grade less than or equal to 1100MPa, coated or uncoated, made of metal material, ribbed eccentric Dimensions of pan head screws with cross recess or without rib groove and MJ thread (Aerospace-Screws, panhead, internal offset ISO 5856 Aerospace strength grade less than or equal to 1100MPa, made of metal materials, coated or uncoated, short or medium Length MJ thread, standard shank, 100° common countersunk screws with ribbed eccentric cross groove or without rib groove (Aerospace-ISO 7913 Aerospace-Bolts and screws, shape and position tolerances ISO 13921 Aerospace strength grade less than or equal to 1100MPa, made of metal material, coated or uncoated, short or medium Length MJ thread, standard rod, internal cross slot or no slot 100° small countersunk screw size (Aerospace-Screws, 100

3 Terms and definitions

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

4 Type and size

The types of ribbed cross grooves are shown in Figures 1 to 4, and the dimensions are shown in Tables 1 to 4.

The marking of position tolerance shall comply with the provisions of GB/T 1182.