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

GB/T 67-2016

**Slotted pan head screws
(English Translation)**

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Table of Contents

Foreword...	3
1 Scope...	6
2 Normative References...	6
3 Dimension...	7
4 Technical Conditions and Reference Standards...	10
5 Markings...	10

Foreword

This Standard is one of the serial national standards of "Slotted Screws and Cross Recessed Screws", which include.

- GB/T 65 Slotted Cheese Head Screws;
- GB/T 67 Slotted Pan Head Screws;
- GB/T 68 Slotted Countersunk Head Screws;
- GB/T 69 Slotted Raised Countersunk Head Screws;
- GB/T 818 Cross Recessed Pan Head Screws;
- GB/T 819.1 Cross Recessed Countersunk Head Screws - Part 1. Class 4.8;
- GB/T 819.2 Cross Recessed Countersunk Head Screws - Part 2. Steel of Property Class 8.8, Stainless Steel Screws and Non-ferrous Metal Screws;
- GB/T 820 Cross Recessed Raised Countersunk Head Screws;
- GB/T 822 Cross Recessed Cheese Head Screws;
- GB/T 823 Cross Recessed Small Pan Head Screws;
- GB/T 13806.1 Fasteners for Fine Mechanics - Cross Recessed Screws.

This Standard was drafted as per the rules specified in GB/T 1.1-2009.

This Standard replaced GB/T 67-2008 Slotted Pan Head Screws; compared with GB/T 67-2008, this Standard has the major technical changes as follows.

- Delete "if other technical requirements are needed,... the selection in GB/T

3098.10 and GB/T 3103.1." (Chapter 1 of Edition 2000);

- Unify the reference screw standards to be GB/T 193, GB/T 9145 (see Chapter 2);
- Increase the property class of steel and non-ferrous metal screws of "d< 3mm, as per agreement" (see Table 2);
- Increase the steel screws non-electrolytically applied zinc flake coating technical requirements as per GB/T 5267.2 (see Table 2);
- Increase the stainless steel screws passivation treatment technical requirements as per GB/T 5267.4 (see Table 2);
- Increase the non-ferrous metal screws electroplating technical requirements as per GB/T 5267.1 (see Table 2).

This Standard adopts re-drafting method to modify and use ISO 1580.2011 Slotted Pan Head Screws - Product Grade A (English Edition).

The technical differences and causes between this Standard and ISO 1580.2011 are as follows.

- Delete the provision of ISO 1580. "if other technical requirements are needed,... the selections in ISO 3506-1, ISO 4759-1." (Chapter 1), which don't belong to the contents specified in this Standard;
- In the normative references, use national standards to replace the international standards (Chapter 2); add the reference of GB/T 90.2 (Table 2), GB/T 5267.4 (Table 2) and GB/T 1237 (5.1); so that conform to China's fastener basic standard;
- Increase the property class of steel and non-ferrous metal screws of "d< 3mm, as per agreement" (Table 2); expand the applicable scope of this Standard;
- Increase the property class of non-ferrous metal screws (Table 2), expand the applicable scope of this Standard;
- Increase the stainless steel screw passivation treatment technical requirements (Table 2), expand the applicable scope of the product;

- Increase the non-ferrous metal screw electroplating technical requirements (Table 2), expand the applicable scope of the product;
- Increase the packaging technical requirements (Table 2); so that conform to China's fastener basic standard;
- Modify the marking examples into simplified marking examples (5.2); so that conform to the provisions of GB/T 1237.

This Standard also has the following editorial changes.

- Modify the standard name;
- Delete the bibliography of ISO 1580.

This Standard was proposed by China Machinery Industry Federation.

This Standard shall be under the jurisdiction of National Technical Committee for Standardization of Fastener (SAC/TC 85).

Drafting organizations of this Standard. China Productivity Center for Machinery.

Slotted Pan Head Screws

1 Scope

This Standard specifies the type and dimension, technical conditions and markings of slotted pan head screws.

This Standard is applicable to the slotted pan head screws with thread specification M1.6 ~ M10, Property Class 4.8, 5.8, A2-50, A2-70, CU2, CU3 and AL4, Product Grade A.

2 Normative References

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this document.

GB/T 90.1 Fasteners - Acceptance Inspection (GB/T 90.1-2002, ISO 3269.2000, IDT)

GB/T 90.2 Fasteners - Marking and Packaging

GB/T 193 General Purpose Screw Threads - Diameters and Pitches (GB/T 193-2003, ISO 261.1998, MOD)

GB/T 1237 Designation System for Fasteners (GB/T 1237-2000, eqv ISO 8991.1986)

GB/T 3098.1 Mechanical Properties of Fasteners - Bolts, Screws and Studs (GB/T 3098.1-2010, ISO 898-1.2009, MOD)

GB/T 3098.6 Mechanical Properties of Fasteners - Stainless Steel Bolts, Screws and Studs (GB/T 3098.6-2014, ISO 3506-1.2009, MOD)

GB/T 3098.10 Mechanical Properties of Fasteners -Bolts, Screws and Studs Made of Non-Ferrous Metals (GB/T 3908.10-1993, eqv ISO 8839.1986)

GB/T 3103.1 Tolerances for Fasteners - Bolts, Screws and Nuts (GB/T 3103.1-2002, idt ISO 4759-1.2000)

GB/T 5267.1 Fasteners - Electroplated Coatings (GB/T 5267.1-2002, ISO

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