

ICS 21.060.10
CCS J 13



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

GB/T 69-2016

Replacing GB/T 69-2000

Slotted raised countersunk head screws

开槽半沉头螺钉

(English Translation)

Issued on: February 24, 2016

Implemented on: June 1, 2016

Issued by: Standardization Administration of China

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Foreword

The standard is "slotted screws and Phillips head screws," one national standard series, the series includes.

- 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 countersunk head screw;
- GB/T 818 Cross recessed pan head screws;
- GB/T 819.1 Cross recessed countersunk head screws - Part 1. 4.8;
- GB/T 819.2 Cross recessed countersunk head screws - Part 2. 8.8, stainless steel and non-ferrous metal screws;
- GB/T 820 Cross recessed countersunk head screw;
- GB/T 822 Cross recessed cheese head screws;
- GB/T 823 Cross recessed small pan head screws;
- GB/T 13806.1 Precision Mechanics Cross recessed screw fasteners.

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard replaces GB/T 69-2000 "Slotted countersunk head screw", compared with the GB/T 69-2000, mainly to replace as follows.

- Delete "For other technical requirements, in ... GB/T 3098.10 and GB/T 3103.1 choose." (Chapter 1 of the 2000 edition);
- Reference standard unified thread GB/T 193, GB/T 9145 (see Chapter 2);
- Screw steel and nonferrous metals increased performance level " $d < 3\text{mm}$, according to the agreement" (see Table 2);

--- Increase steel screws. non-electrolytic zinc flake coating technology required by the GB/T 5267.2 (see Table 2);

--- Increase stainless steel screw. Passivation technical requirements according to GB/T 5267.4 (see Table 2);

--- Increase in non-ferrous metal screw. electroplating technology required by the GB/T 5267.1 (see Table 2).

This standard uses redrafted law revision using ISO 2010:2011 "Slotted head screws product grade A" (in English).

This standard and ISO 2010:2011 technical differences and their reasons are as follows.

--- Delete ISO 2010 states. "For other technical requirements, ... ISO 965-2 and ISO 3506-1 selection in." (Chapter 1), not part of this standard;

--- In the reference file, instead of using our standards with international standards (Chapter 2), increase the reference GB/T 5279 (Table 1), GB/T 90.2 (Table 2) and GB/T 1237 (5.1), to comply with our basic standard fasteners;

--- Screw steel and nonferrous metals increased performance level "d < 3mm. According to the agreement" (Table 2), to expand the scope of the standard;

--- Increase in non-ferrous metal screw performance level (see Table 2), raise the standard scope of application;

--- Increase in packaging technology requirements (Table 2), in order to comply with our basic standard fasteners;

--- Modify tag example is a simplified markup example (5.2), to comply with the provisions of GB/T 1237's.

This standard also made the following editorial changes.

--- To modify the standard name;

--- Delete references the ISO 2010.

The standard proposed by China Machinery Industry Federation.

This standard by the National Standardization Technical Committee fasteners (SAC/TC85) centralized.

1 Scope

This standard specifies the Slotted countersunk head screw type size, technical requirements and marking.

This standard applies to thread sizes of M1.6 ~ M10, property class 4.8,5.8, A2-50, A2-70,

CU2, CU3 and AL4, product grade A grade Slotted countersunk head screws.

2 Normative references

The following documents for the application of this document is essential. For cited documents with dates, only the dated edition applies to this document. For undated references, the latest edition (including any amendments) applies 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 series ordinary thread diameter and pitch (GB/T 193-2003, ISO 261:1998, MOD) GB/T 1237 fasteners labeling method (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, IDT) 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 non-ferrous metal manufacturing bolts, screws, studs and nuts (GB/T 3098.10-1993, eqv ISO 8839. 1986) GB/T 3103.1 Tolerances for fasteners - Bolts, screws, studs and nuts (GB/T 3103.1-2002, idt ISO 4759-1:2000) GB/T 5267.1 fasteners plating layer (GB/T 5267.1-2002, ISO 4042:1999, IDT) GB/T 5267.2 fasteners non-electrolytic zinc flake coating (GB/T 5267.2-2002, ISO 10683:2000, IDT) GB/T 5267.4 fastener surface treatment corrosion resistant stainless steel passivation (GB/T 5267.4-2009, ISO 16048:2003, IDT) GB/T 5276 Fasteners Bolts, screws, studs and nuts - Symbols and designations size (GB/T 5276-2015, ISO 225:2010, MOD) GB/T 5279 countersunk screw head shape and measurement (GB/T 5279-1985, idt ISO 7721. 1983) GB/T 5779.1 Fasteners - Surface discontinuities - Bolts, screws and studs for general requirements (GB/T 5779.1-2000, idt ISO 6157-1. 1988) GB/T 9145 common thread moderate accuracy, preferably series limit size (GB/T 9145-2003, ISO 965-2:1998, MOD) GB/T 16938 Fasteners Bolts, screws, studs and nuts - General technical conditions (GB/T 16938-2008, ISO 8992:2005, IDT)

3 Dimensions

Screw type dimensions shown in Figure 1 and Table 1.

Size code and labeling in line with GB/T 5276.