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

GB/T 923-2009

Replacing GB/T 923-1988

Acorn hexagon nuts

六角盖形螺母

(English Translation)

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Foreword

This standard is the national standard of "cap nut" product family standard. The series includes.

- a) GB/T 802.1 domed cap nut;
- b) GB/T 802.2 hex cap nut welded;
- c) GB/T 802.3 hex flange cap nut welded;
- d) GB/T 802.4 Hexagon low spherical cap nut welded;
- e) GB/T 802.5 metallic insert hexagon cap nut welded;
- f) GB/T 923 Hexagon cap nut.

This revised standard adopts DIN1587:2000 "hex cap nut-high" (in German), the main changes are as follows.

- Normative reference document, with instead of equivalent or modify our standard German or international standards adopted (Chapter 2);
- " $D \leq 16$ mm A grade; $D > 16$ mm B grade" tolerances (Table 1);
- DIN1587 unspecified packaging technology requirements, the standard to be prescribed (Table 2);
- DIN1587 unspecified simplified mark, according to the present standard GB/T 1237 presents a simplified markup example (see 5.2).

This standard replaces GB/T 923-1988 "cap nut." this standard and GB/T 923-1988 compared to the main changes are as follows.

- Modify using DIN1587:2000 "hex cap nut-high";
- Standard name changed. Hexagon cap nut;
- Cancel Thread Size M3 (see Table 1);

- Increasing the fine thread specifications Series (series 2, series 3) (see Table 1);
- Adjustment cap nut
- Increase the quality of steel nuts per 1000 (see Table 1);
- Cancel five steel nuts (see Table 2);
- Increase stainless steel nuts and non-ferrous materials (see Table 2);
- Nuts on the increase in non-electrolytic zinc steel sheet and hot-dip galvanized coating layer surface treatment (see Table 2).

The standard proposed by China Machinery Industry Federation.

This standard by the National Standardization Technical Committee fasteners.

1 Scope

This standard specifies the thread size is M4 ~ M24, property class 6, A1-50, CU3 or CU6 level, product class A and class B Grade hex cap nut. A grade for $D \leq 16\text{mm}$; class B for $D > 16\text{mm}$ nut.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

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 196 common thread basic size (GB/T 196-2003, ISO 724:1993, ISO generalpurposemetric screwthreads-Basicdimensions, MOD) GB/T 197 common thread tolerance (GB/T 197-2003, ISO 965-1:1998, ISO generalpurposemetric screwthreads-Tolerances-Part 1. Principlesbasicdata, MOD) GB/T 1237 fasteners labeling method (GB/T 1237-2000, eqvISO 8991. 1986) GB/T 3098.2 Mechanical properties of fasteners - Nuts - Coarse thread (GB/T 3098.2-2000, idtISO 898-2.1992) GB/T 3098.4 Mechanical properties of fasteners fine thread (GB/T 3098.4-2000, idtISO 898-6.1994) GB/T 3098.10 Mechanical properties of fasteners non-ferrous metal manufacturing bolts, screws, studs and nuts (GB/T 3098.10-1993, eqvISO 8839. 1986) GB/T 3098.15 mechanical properties of stainless steel fasteners nuts (GB/T 3098.15-2000, idtISO 3506-2.1997) GB/T 3103.1 Tolerances for fasteners - Bolts, screws and nuts (GB/T 3103.1-2002, ISO 4759-1:2000, IDT) 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 5267.3 fasteners hot-dip

galvanizing layer (GB/T 5267.3-2008, ISO 10684:2004, IDT) GB/T 5276 Fasteners Bolts, screws, studs and nuts - Symbols and designations size (GB/T 5276-1985, eqv ISO 225. 1983) GB/T 16938 Fasteners Bolts, screws, studs and nuts - General technical conditions (GB/T 16938-2008, ISO 8992.

2005, IDT)

3 Dimensions

Nut pattern dimensions shown in Figure 1, Figure 2 and Table 1.

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