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CCS J41



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

GB/T 14348-2007

Replacing GB/T 14348.1-1993

hobs for double-circular-arc gear

双圆弧齿轮滚刀

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Foreword

This standard replaces GB/T 14348.1-1993 "double arc gear hob types and dimensions" and GB/T 14348.2-1993 "double round Arc gear hob technical conditions. " 14348.2-1993 major changes compared to the present standard and GB/T 14348.1 ~ as follows:

- Canceled the B-level precision;
- Canceled modulus greater than 10mm Hob accuracy requirements;
- Cylindrical radial runout measured by the length of a turn to the full-length;
- Modify the material provisions;
- Removed the material microstructure and carbide uniformity provisions;
- Abolition of the "performance test" chapter. The Standard Appendix A, Appendix B are normative appendix. The standard proposed by China Machinery Industry Federation. This standard tool by the National Standardization Technical Committee (SAC/TC91) centralized. This standard was drafted. Taiyuan Tools Factory. The main drafters of this standard. Wang Jianzhong, Xin Jiayi, Yao Yonghong, Guoli Yun. This standard replaces the standards previously issued as follows:
 - GB/T 14348.1-1993;
 - GB/T 14348.2-1993. Double arc gear hob

1 Scope

GB/T 14348-2007 is the Chinese national standard on hobs for double-circular-arc gear, in the field of manufacturing engineering. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 26 July 2007 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 December 2007. Classification: ICS 25.100.99, CCS J41. This page is published from the official record of the standard held by

the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the double arc gear hob basic types and dimensions, technical requirements, marking and packaging the basic requirements. This standard applies to normal module 1.5mm ~ 10mm overall double arc gear hob. Manufactured according to the standards used in the manufacture of basic hob tooth profile in line with the double circular cylindrical gear GB/T 12759 requirements.

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 6132 cutters and cutter arbor swap size

GB/T 12759 basic double arc cylindrical gear tooth profile

3 Type and size

3.1 Hob type and size should meet the requirements of Figure 1 and Table 1.

3.2 Hob made before the zero angle, the first single, right-handed, the chip grooves are straight grooves parallel to its axis. According to user requirements, the hob can be made left-handed.

3.3 Hob-axis table diameter is determined by the manufacturer, its size as much as possible get bigger. Keyway dimensions and tolerances shall comply with hob

3.4 GB/T 6132's.

3.5 Calculation of the size of the hob should comply with the provisions of Appendix A, hob axial tooth should meet the requirements in Appendix B. Tooth thickness of

3.6 Theory at the initial point of contact should meet the requirements in Appendix B.

3.7 tag example Modulus m_1 = type II double arc gear hob 5 marked. Double arc gear hob m_5 II GB/T 14348-2007 Figure 1