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

GB/T 6083-2016

Replacing GB/T 6083-2001

**Gear hobs -- The basic types and dimensions
(English Translation)**

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Foreword

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

This standard replaces GB/T 6083-2001 "Hob basic types and dimensions." this standard compared with GB/T 6083-2001, the main technical changes are as follows.

--- Modify the range, modulus adjusted to 0.5mm ~ 40mm (see Chapter 1, Chapter 1, 2001 edition);

--- Adjust the outer diameter D, pore diameter d, length L, the length of the minor axis table, the number of common chip flutes (see Chapter 3);

--- Increased hob end key (see 3.1);

--- An increase of small pore size hob (see 3.1);

--- Remove the hob type I, type II classification;

--- Modify the markup example (see Chapter 4, Chapter 4, 2001 edition);

--- Delete the original appendix (see the 2001 edition of Appendix A, Appendix B);

--- Added new appendix (Appendix A).

This standard uses redrafted law revision using ISO 2490:2007 "with a key or axial end key modulus is 0.5mm ~ 40mm gear hob overall nominal size" (in English).

This standard and ISO 2490:2007 technical differences are as follows.

--- International Standard normative references replaced by our respective standard;

--- Combined with hob actual situation, increasing the rotation of the provisions of the hob;

--- Combined with the actual situation of the hob, the hob can be tapered to increase provisions;

--- Combined with the actual situation hob, marking an increase of example.

For ease of use, this standard also made the following editorial changes.

- Modify the standard name;
- Remove the International Standards and preface, it added a new preface;
- Use the decimal symbol. "" Instead of the symbol "." the standard proposed by China Machinery Industry Federation.

This standard tool by the National Standardization Technical Committee (SAC/TC91) centralized.

1 Scope

This standard specifies the modulus 0.5mm ~ 40mm shaft with key or key end single-headed and long overall gear hob basic types and dimensions.

This standard applies to the processing module according to GB/T 1357, according to the basic tooth profile hob GB/T 1356, 20 ° pressure angle of the gear.

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 with amendments) apply to this document.

GB/T 1356 general and heavy machinery cylindrical gear standard basic rack tooth profile (GB/T 1356-2001, idt ISO 53:1998) GB/T 1357 General machinery and heavy machinery gear module with a cylinder (GB/T 1357-2008, ISO 54:1996, IDT) GB/T 1804 General tolerances for linear and angular dimensions without individual tolerance (GB/T 1804-2000, eqv ISO 2768-1. 1989) GB/T 6132 cutters and cutter arbor swap Size (GB/T 6132-2006, ISO 240:1994, IDT) GB/T 20329 end key drive arbor for milling cutters and tool holders swap Size (GB/T 20329-2006, ISO 2780. 1986, IDT)

3 Type and size

3.1

Hob basic types and dimensions according to Figure 1 and Table 1, Table 2, the provisions of Appendix A gives a long Hob dimensions.

3.2

Hob made right-handed (according to user requirements can be made left-handed).

3.3

keyway sizes and deviation according to the provisions GB/T 6132, the tool holder according to the size and deviation GB/T 20329 requirements.

3.4

Hob can be made conical, when the outer diameter of the big end size.