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CCS J19



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

GB/T 10107.2-2012

Replacing GB/T 10107.2-1988

Cycloidal drives - Part 2: Representation of drawings

摆线针轮行星传动 第2部分：图示方法

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Foreword

GB/T 10107 "cycloid planetary transmission" includes the following three parts.

--- Part 1. Basic terminology;

--- Part 2. graphical method;

--- Part 3. Symbols of geometrical data. This is Part 2 GB/T 10107 in. Rules in this section in accordance with GB/T 1.1-2009 given draft. This Part replaces GB/T 10107.2-1988 "Cycloid drive mapping methods." This part of GB/T 10107.2- Compared to 1988, in addition to editorial amendments, the main changes are the following.

--- Adjusted Chapter 3 of title and content; Appendix

--- Added "Format pattern sample needle teeth shell (Figure A.2)";

--- Adjustment Appendix name (see Appendix A). This section is proposed and managed by the China Machinery Industry Federation. This part of the main drafting unit. Hebei University, Tianjin Petrochemical General Machinery Research Institute. Participated in the drafting of this section. Tianjin reducer Plant Co., Ltd., Shanghai slowdown Machinery Co., Ltd., Jiangsu Stallone reducer shares Parts Limited, Thai-reducer Co., Ltd., Shandong Obo reducer Ltd., Zhangjiagang Second Textile Machinery Co., Ltd. The main drafters of this section. Dai Tianwei, Xuan Ping, Liu Zhixin, Ma Xiaojuan, Yan Aiguo, Zhang Mingrong. This part of the standard replaces the previous editions are.

--- GB/T 10107.2-1988. Cycloid drive - Part 2. Method icon

1 Scope

GB/T 10107.2-2012 is the Chinese national standard on cycloidal drives - part 2: representation of drawings, in the field of mechanical systems and components. 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 3 September 2012 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

March 2013. Classification: ICS 21.120, CCS J19. 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 section GB/T 10107 requirements in mechanical drawing painting cycloid, cycloid pin gear wheel and engaging painting and cycloid Graphic symbols planetary transmission mechanism by. This section applies to Cycloid Drive.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated edition applies to this article Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 4457.2-2003 the basic provisions of technical drawings - guidelines and guide lines of

GB/T 4457.4-2002 Mechanical drawings Fatou line

GB/T 4458.1-2002 Mechanical drawings - General view

GB/T 4458.2-2003 Mechanical drawings assembly drawings of parts and components references and its arrangement

GB/T 4458.4-2003 Mechanical drawings - Dimensioning

GB/T 4458.5-2003 Mechanical drawings with dimensional tolerances and injection method Sectional

GB/T 4458.6-2002 Mechanical drawings - view and a sectional view

GB/T 4460-1984 mechanical drawing kinematic diagram symbols

3 Cycloid pin wheel engages with its painting

3.1 General Cycloid painting and cycloidal needle wheel engaging painting should be consistent with GB/T 4457.2, GB/T 4457.4, GB/T 4458.1, GB/T 4458.2, GB/T 4458.4, GB/T 4458.5, the provisions of GB/T 4458.6, GB/T 4460's.

3.2 cycloid painting

3.2.1 addendum circle and the addendum line drawn by a thick solid line.

3.2.2 root circle and the tooth root lines with a thin solid line drawing, painting may be omitted; in cross-section, the tooth root lines drawn by a thick solid line.

3.2.3 expressed cycloid ships with two views (see Figure 1).

3.2.4 To demonstrate tooth, it can be used to draw a thick solid line or two teeth; or with an

appropriate ratio shows a partial enlarged view (see FIG. 1, FIG. 2).

3.2.5 In the cross-sectional view, when the cutting plane through the wheel axis cycloid, the tooth is not generally based on cross-sectional process (Figure 1, Figure 2); slew of odd teeth Wire wheels, cut their teeth can also be treated.

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