

ICS 21.120
CCS J19



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

GB/T 10107.3-2012

Replacing GB/T 10107.3-1988

Cycloidal drives - Part 3: Symbols of geometrical data

摆线针轮行星传动 第3部分：几何要素代号

Issued on: September 3, 2012

Implemented on: March 1, 2013

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China;
Standardization Administration of China**

Table of Contents

Foreword

1 Scope

About this edition

Classification and status

How a Chinese national standard is set out

About this English translation

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 3 GB/T 10107 in. Rules in this section in accordance with GB/T 1.1-2009 given draft. This Part replaces GB/T 10107.3-1988 "cycloid planetary gearing geometrical code." This portion GB/T 10107.3-1988 compared, in addition to editorial amendments, the main changes are the following.

--- Revised and increased by d_p , r_p , synonyms D_w and R_w (see Chapter 3);

--- Adds new geometrical data symbols D_0 , Δt_{arp} , Δt_{arrr} , $\Delta t_{ar\gamma}$, Δt_{ae} , Δt_{ao} and Δt_{ai} (see Chapter 3). 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, Houzhou Ming, Liu Si thick. This part of the standard replaces the previous editions are.

--- GB/T 10107.3-1988. Cycloid drive Part 3. Symbols of geometrical

1 Scope

GB/T 10107.3-2012 is the Chinese national standard on cycloidal drives - part 3: symbols of geometrical data, 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 provisions of the cycloid, planetary drive wheel and geometrical data symbols. 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 10107.1 cycloid planetary transmission - Part 1. Basic terminology Code

3 Symbols of geometrical data shall comply with

GB/T 10107.1 and expressed by the following Lie Lading or Greek letters and other symbols. a

- center distance [offset] bc
- cycloid tooth width bp
- wheel effective tooth width dac
- cycloid tip diameter dbc
- cycloid base diameter dc
- cycloid circle diameter dc '
- cycloid pitch diameter dfc
- cycloid root diameter dg
- occurred circle diameter [rounded diameter] dp
- needle teeth center circle diameter [center circle diameter needle teeth] dp '