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

GB/T 11361-2018

Replacing GB/T 11361-2008

**Synchronous belt drives -- Trapezoidal toothed pulleys with
pitch code MXL, XXL, XL, L, H, XH and XXH**

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Table of Contents

Foreword

1 Scope

2 Normative references

3 models and markings

3.1 Model

3.2 mark

4 wheel groove size

4.1 Involute cogging

Foreword

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

This standard replaces GB/T 11361-2008 "Synchronous belt drive trapezoidal toothed pulley". Compared with GB/T 11361-2008, except editing

The main technical differences outside the sexual modification are as follows.

- Added pulley model and marking (see Chapter 3);
- Modified the limit deviation of the tool pitch (see Table 1, Table 1 of the.2008 edition);
- Increased the width and illustration of the width of the single side retaining ring (see 5.1);
- Increased the minimum thickness of the wheel retaining ring (see Table 7);
- Modified the diameter of the bend of the retaining ring (see 5.3, 4.3 of the.2008 edition);
- Revised the end face circular runout tolerance of the pulley with an outer diameter of 50.8mm or less (see 6.2, 5.1 of the.2008 edition);
- Modified the radial runout tolerance of the pulley with an outer diameter of 101.6mm or less (see 6.2, 5.2 of the.2008 edition);
- Modified the cylindricity and parallelism of the pulley, and increased the classification according to the wheel width (see 6.1, 6.3, 5.3, 5.4 of the.2008 edition);
- Increased pulley material, surface roughness and balance (see Chapter 7).

This standard uses the redrafting method to modify the use of ISO 5294.2012 "synchronous belt drive pulley".

This standard has more structural adjustments than ISO 5294.2012. Appendix A lists this

standard and ISO 5294.2012.

The chapter number is compared to the list.

There are technical differences between this standard and ISO 5294.2012, and the terms involved in these differences have been passed through the margins on the outer side of the page.

The vertical single line (|) is marked, and a list of the corresponding technical differences and their causes is given in Appendix B.

This standard has made the following editorial changes.

--- Changed the standard name to harmonize with existing standards in China;

--- Removed parameters and tolerances in inches.

This standard was proposed by the China Machinery Industry Federation.

This standard is under the jurisdiction of the National Technical Committee for Pulley and Belt Standardization (SAC/TC428).

This standard was drafted. Shijiazhuang Kaipu Power Transmission Machinery Co., Ltd., Sichuan Deen Precision Technology Co., Ltd., machine

Mechanical Science Research Institute Group Co., Ltd., China Machine Productivity Promotion Center, Ningbo Fengmao Far East Rubber Co., Ltd., Ningbo Kaichi Tape Co., Ltd.

the company.

1 Scope

This standard specifies the type and marking of the trapezoidal toothed pulley (hereinafter referred to as the pulley), the groove size, the pulley size, the pulley geometric tolerance and the belt

Wheel material, surface roughness and balance.

This standard applies to general industrial timing belt drives.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only the dated version applies to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

Material, surface roughness and balance of GB/T 11357 pulley (GB/T 11357-2008, ISO

254.1998, MOD)

3.1 Model

The pulleys are divided into seven types according to the pitch. MXL, XXL, XL, L, H, XH and XXH.

3.2 mark

The pulley mark consists of the pulley code P, the number of slots, the model number and the wheel width code.

Wheel code

Number of slots

model

Wheel width code

Example. Number of slots 20, model XL, wheel width code 025 pulley marked. P20XL025

4.1 Involute cogging

The dimensions and limit deviations of the rack tool for machining involute cogging are shown in Figure 1 and Table 1.