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

GB/T 37203-2018

**Synchronous belt drives -- Belts with AT trapezoidal profile
system**

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Table of Contents

Foreword

1 Scope

2 Normative references

3 models and markings

3.1 Model

3.2 mark

4 size

4.1 toothed

Foreword

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

This standard uses the redrafting method to modify the ISO 17396.2014 "synchronous belt drive meter pitch, T and AT trapezoidal tooth belts and

Belt wheel.

This standard has more structural adjustments than ISO 17396.2014. This standard and ISO 17396.2014 are listed in Appendix A.

The chapter number is compared to the list.

There are technical differences between this standard and ISO 17396.2014. The terms involved in these differences have been passed on the outer margins of the margins.

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.

--- Revised the standard name to coordinate with our existing standards.

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. Ningbo Fulong Synchronous Belt Co., Ltd., Ningbo Kaichi Tape Co., Ltd., Ningbo Jaguar Group Co., Ltd., Zhongji

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1 Scope

This standard specifies the type, marking, size and length of the wire core rope polyurethane type AT trapezoidal toothed belt (hereinafter referred to as belt).

measuring.

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.

GB/T 37205-2018 Timing belt drive type AT trapezoidal toothed belt pulley (ISO 17396:2014, MOD)

3.1 Model

The pitch of the AT type trapezoidal tooth synchronous belt can be divided into four types. AT3, AT5, AT10 and AT20; according to the distribution of the teeth, it can be divided.

Single-sided and double-sided toothed timing belts.

Single-faced timing belt. refers to a timing belt with teeth on one side.

Double-sided toothed timing belt. refers to a double-sided toothed timing belt. According to the relative position of the teeth, they are further divided into symmetric teeth and staggered teeth. Symmetrical teeth are synchronized on both sides.

The belt form code is DA, and the staggered tooth double-sided timing belt is coded as DB.

3.2 mark

The mark of the tape consists of the length of the pitch, the model, and the bandwidth. For double-sided toothed belts, the letter DA or DB should be added before the length of the line.

The open sync band adds the letter M after the bandwidth. Connect the ring timing belt and add the letter V after the bandwidth.

Example. single face toothed belt, 500-AT5-20;

Double-sided toothed timing belt, DA-1320-AT10-50;

Open timing belt, 5000-AT10-50-M;

Connect the ring timing belt, 1400-AT10-50-V.

4.1 toothed

The toothed section dimensions are shown in Figure 1 and Table 1.