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NATIONAL STANDARD OF THE
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GB/T 10414-2017

Replacing GB/T 10414.2-2002

Synchronous Belt Drives – Automotive Synchronous Pulleys

(ISO 9011:1997, Synchronous

Belt Drives – Automotive Pulleys, MOD)

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Foreword

This Standard was drafted as per the rules specified in GB/T 1.1-2009.

This Standard replaces GB/T 10414.2-2002 *Belt Drives – Synchronous Belt Drives – Automotive Pulleys*. Compared with GB/T 10414.2-2002, besides editorial modifications, this Standard has the major technical differences as follows:

- Add RU, YU model automotive synchronous belt and pulleys; specify the corresponding technical parameters (see Clause 3 and 5.5).

This Standard adopts re-drafting method to modify and use ISO 9011:1997 *Synchronous Belt Drives – Automotive Pulleys*.

Compared with ISO 9011-1997, this Standard has more structural adjustment; the Appendix A lists the clause number comparison list between this Standard and ISO 9011:1997.

The clauses involved the technical differences of this Standard from ISO 9011:1997 are marked by a single vertical line (|) in the margin as follows:

- On normative references, this Standard made the adjustment as per the technical differences, so that adapt to China's technical conditions; the adjustment was centrally reflected in Clause 2 "Normative References"; the specific adjustment is as follows:

- Use GB/T 11357 that adopts international standard to replace ISO 254 through modification;
- Delete ISO 9010:1997.

- Add the Marking Diagram for Geometric Tolerance of Pulleys (see Figure 10).

- Add RU, YU model automotive synchronous belt and pulleys; specify the corresponding technical parameters (see Clause 3 and 5.5).

This Standard makes the following editorial modifications:

- Modify the standard name;
- Adjust the pulley geometric tolerance order (see 6.5);
- Modify the title of Clause 7 (see Clause 7).

This Standard was proposed by China Machinery Industry Federation.

This Standard shall be under the jurisdiction of National Technical Committee for

Standardization of Pulley and Belt (SAC/TC 428).

Drafting organizations of this Standard: Ningbo Yujiang Special Rubber Belt Co., Ltd., Mechanics Technology Research General Institute, China Productivity Center for Machinery, Sichuan Dawn Precision Technology Co., Ltd., Ningbo Fulong Synchronous Belt Co., Ltd., Wuxi Belt Co., Ltd., Ningbo Fengmao Yuandong Rubber Co., Ltd., Zhejiang Sunte Technology Co., Ltd., and Ningbo Gul Tz Rubber Co., Ltd.

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The historical editions replaced by this Standard are as follows:

--- GB/T 10414.2-1989;

--- GB/T 10414.2-2002.

Synchronous Belt Drives – Automotive Synchronous Pulleys

1 Scope

This Standard specifies the model, marking, tooth size, pulley size, pulley material, surface roughness and balance of automotive synchronous pulleys¹⁾ (hereinafter referred to as pulleys).

This Standard is applicable to the automotive synchronous belt drives²⁾.

2 Normative References

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this document.

GB/T 11357 Quality, Surface Roughness and Balance of Transmission Pulleys
(GB/T 11357-2008, ISO 254:1998, MOD)

3 Pulley Size

Trapezoidal tooth: ZA model, ZB model

Curve tooth: H series: ZH model, YH model

R series: ZR model, YR model

S series: ZS model, YS model

U series: RU model, YU model

4 Marking

The marking of automotive synchronous pulleys consists of pulley code, number of

¹⁾ Automotive synchronous pulleys are also called automotive time pulleys.

²⁾ Automotive synchronous belt drives are also called automotive timing belt drives.

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