



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

GB/T 11362-2021

**Synchronous belt drives - Calculation of power rating and drive
center distance with belts pitch codes MXL, XXL, XL, L, H, XH
and XXH**

Issued on: May 21, 2021

Implemented on: December 1, 2021

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

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Foreword

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

This standard replaces GB/T 11362-2008 "Calculation of Rated Power and Transmission Center Distance of Trapezoidal Tooth Synchronous Belt Driven by Synchronous Belts", and Compared with GB/T 11362-2008, the main technical changes except for editorial changes are as follows.

---Modified the code of the center distance of the pulley (see Table 1, Table 1 of the.2008 edition);

Power meter (see Appendix B).

This standard uses the redrafting method to amend and adopt ISO 5295.2017 "Calculation of Rated Power of Synchronous Belt and Transmission Center Distance".

Compared with ISO 5295.2017, this standard adds appendix A, appendix B and references in structure.

Compared with ISO 5295.2017, this standard has technical differences.

The set vertical single line (I) is marked, and a list of the corresponding technical differences and their reasons is given in Appendix A.

This standard also made the following editorial changes.

---The name of the standard has been changed to harmonize with our country's existing standards.

This standard was proposed by the China Machinery Industry Federation.

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

Drafting organizations of this standard. Wuxi City Belt Adhesive Co., Ltd., China Machinery

Productivity Promotion Center, Zhejiang Fengmao Technology Co., Ltd.,
Ningbo Karcher Tape Co., Ltd., Zhejiang Samsung Tape Co., Ltd., Sichuan Deen Precision
Technology Co., Ltd.

1 Scope

Calculating formula.

The material and structure of the belt should be proposed by the belt manufacturer.

2 Normative references

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

Pieces. For undated reference documents, the latest version (including all amendments) is applicable to this document.

GB/T 6931.3 Terminology for Belt Transmission Part 3.Synchronous Belt Transmission
(GB/T 6931.3-2020, ISO 5288.2017,

MOD)

3 Terms and definitions

The following terms and definitions defined in GB/T 6931.3 apply to this document.

3.1

Powerrating

Under the conditions of correct installation and maintenance of the transmission, according to the specified geometric dimensions and environmental conditions, the normal work within the specified time period

The power that the synchronous belt can transmit.

Note. The rated power depends on.

- Pitch between belt and pulley teeth;
- The width of the belt;
- The quality of the belt per meter length;
- Allowable working tension of the belt;
- Angular speed of small pulley;
- Number of teeth of small belt wheel;

---Number of meshing teeth of small pulley.

4 Code

The code number is shown in Table 1.

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