

INTERNATIONAL STANDARD

ISO
5296-2

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Synchronous belt drives — Belts —

Part 2:

Pitch codes MXL and XXL — Metric dimensions

Transmissions synchrones par courroies — Courroies —

Partie 2: Symboles de pas MXL et XXL — Dimensions métriques



Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 5296-2 was prepared by Technical Committee ISO/TC 41, *Pulleys and belts (including veebelts)*.

ISO 5296 consists of the following parts, under the general title *Synchronous belt drives — Belts*:

- *Part 1: Pitch codes MXL, XL, L, H, XH and XXH — Metric and inch dimensions*
- *Part 2: Pitch codes MXL and XXL — Metric dimensions*

Annex A of this part of ISO 5296 is for information only.

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Synchronous belt drives — Belts —

Part 2:

Pitch codes MXL and XXL — Metric dimensions

1 Scope

This part of ISO 5296 specifies the principal characteristics of synchronous endless belts for use in synchronous belt drives¹⁾ for mechanical power transmission and where positive indexing or synchronization may be required.

The principal characteristics include

- a) nominal tooth dimensions;
- b) length and width dimensions;
- c) tolerances on these dimensions;
- d) length measuring specifications.

This part of ISO 5296 applies to synchronous belt drives having a pitch equal to 2,032 mm or 3,175 mm designated by the symbols MXL and XXL.

As far as the dimensions are concerned, belts with pitch code MXL are interchangeable with those of pitch code MXL in ISO 5296-1.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this part of ISO 5296. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this part of ISO 5296 are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 5296-1 : 1989, *Synchronous belt drives — Belts — Part 1: Pitch codes MXL, XL, L, H, XH and XXH — Metric and inch dimensions*

3 Pitch codes

The pitch code and corresponding belt pitch are given in table 1.

Table 1 — Pitch codes

Pitch code	Belt pitch ^{*)} mm
MXL	2,032
XXL	3,175
^{*)} Carried to the third decimal place because belt pitch is a defined value.	

4 Dimensions and tolerances

4.1 Tooth dimensions

The nominal belt tooth dimensions (see figure 1) are given in table 2.

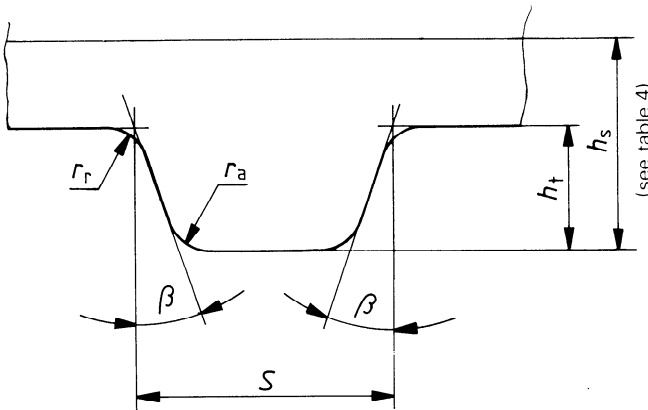


Figure 1 — Tooth profile

1) Synchronous belt drives have been known by various titles in the past: for example, timing belt drives, positive belt drives, gear belt drives.