



BSI Standards Publication

Belt drives — Pulleys for V-belts (system based on datum width) — Geometrical inspection of grooves

National foreword

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Belt drives — Pulleys for V-belts (system based on datum width) — Geometrical inspection of grooves

*Transmissions par courroies — Poulies à gorges pour courroies
trapézoïdales (système basé sur la largeur de référence) — Contrôle
géométrique des gorges*



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ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 41, *Pulleys and belts (including veebelts)*, Subcommittee SC 1, *Friction*.

This third edition cancels and replaces the second edition (ISO 255:1990), which has been technically revised.

The main changes are as follows:

- the normative references list has been updated, including adding of [ISO 1081](http://www.iso.org/iso/1081) (vocabulary);
- in [Clause 2](#) and Bibliography, normative references are no longer dated;
- modifications made for clarification and to be in line with ISO drafting rules.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

In drives using V-belts, the dimensions of the pulley grooves can be defined either on the basis of the datum width or on the basis of the effective width. As a result, two systems for definition and description of the dimensions of pulleys and belts have been developed. The two systems are independent of each other.

For the geometrical inspection of grooves defined on the basis of the datum width, necessary tests to ensure by mechanical means the conformity of a grooved pulley with standard specifications were specified, but modern quick or serial checking procedures for grooved pulley production control were not.

For user clarification, the interaction of this document with other relevant documents developed by ISO/TC 41/SC 1 and ISO/TC 213 “Dimensional and geometrical product specifications and verification” is given in [Figure 1](#).

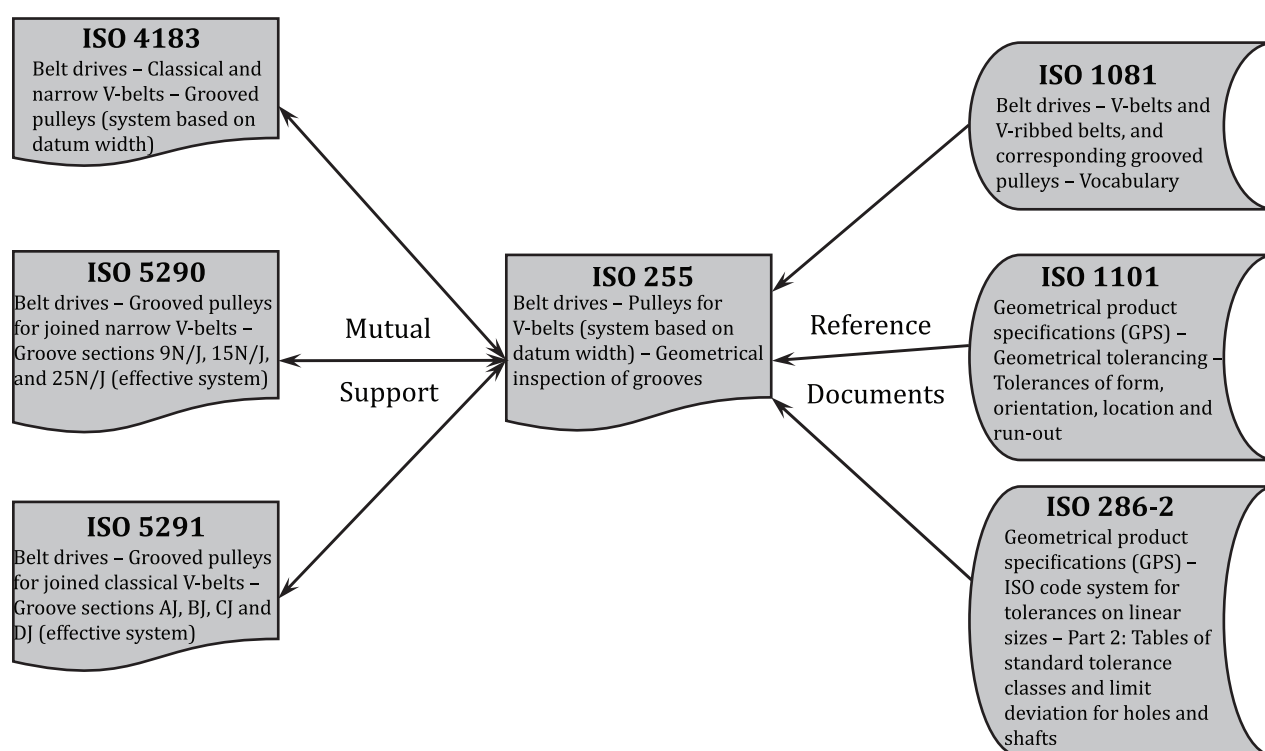


Figure 1 — Interaction of this document with other relevant documents developed by ISO/TC 41/SC 1 and ISO/TC 213