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V-belts and V-ribbed belts — Uniformity of belts — Test method for determination of centre distance variation

Courroies trapézoïdales et courroies striées — Uniformité des courroies — Méthode d'essai permettant de déterminer les variations d'entraxe



Reference number ISO 9608:2022(E)



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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 9608:1994), which has been technically revised.

The main changes are as follows:

- modification of the title and the scope to add V-ribbed belts;
- modification of the scope to specify that the document does not apply to elastic belts;
- addition in the document of the test report, the definition of centre distance, the rotation speed of pulley, the accuracy of Δ*E* measurement, V-ribbed belt and references to ISO 1081, ISO 9981 and ISO 9982.

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 <u>www.iso.org/members.html</u>.

Introduction

An irregular running of V-belt and V-ribbed belt drives can arise from non-uniformities in the V-belt and V-ribbed belt sections because force variations induced by the non-uniformities add to the initial force at constant centre distance.

When testing the V-belt and V-ribbed belt length under constant measuring force, these force variations appear as centre distance variations.

V-belts and V-ribbed belts — Uniformity of belts — Test method for determination of centre distance variation

1 Scope

This document specifies a test method for determining the centre distance variation of V-belt and V-ribbed belt drives as a criterion for the uniformity of V-belts and V-ribbed belts.

This document does not apply to elastic V-ribbed belts.

2 Normatives references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <u>https://www.iso.org/obp</u>
- IEC Electropedia: available at <u>https://www.electropedia.org/</u>

3.1 centre distance

E

distance between the centres of two pulleys measured in length measuring device

3.2

centre distance variation

 ΔE

difference between maximum and minimum *centre distance* (<u>3.1</u>) measured on a standardized measuring fixture

4 Symbols

For the purpose of this document, the symbols given in <u>Table 1</u> apply.

Table 1 — Symbols

Symbol	Definition	Unit
Ε	centre distance	mm
F	force	N
ΔE	centre distance variation	mm