
**Belt drives — V-belts for the automotive
industry and corresponding pulleys —
Dimensions**

*Transmissions par courroies — Courroies trapézoïdales pour la
construction automobile et poulies correspondantes — Dimensions*



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Foreword

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 2790 was prepared by Technical Committee ISO/TC 41, *Pulleys and belts (including veebelts)*, Subcommittee SC 1, *Friction*.

This fourth edition cancels and replaces the third edition (ISO 2790:1989), subclauses 4.1, 4.2 and 5.1, Tables 1, 2, 4 and 5, of which have been technically revised and a new Figure 5 added.

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1 Scope

This International Standard specifies the requirements for belts and pulleys for V-belt drives used for driving auxiliaries of internal combustion engines for the automotive industry.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 1081, *Belt drives — V-belts and V-ribbed belts, and corresponding grooved pulleys — Vocabulary*

ISO 8370-1:1993, *Belt drives — Dynamic test to determine pitch zone location — Part 1: V-belts*

ISO 9608, *V-belts — Uniformity of belts — Test method for determination of centre distance variation*

3 Terms, definitions and symbols

For the purposes of this document, the terms, definitions and symbols relating to drives using V-belts (i.e. belts and grooved pulleys) defined in ISO 1081 apply.

4 Belts

4.1 General

A belt is defined by its cross-section (groove profile AV 10 to AV 17) and by its effective length, in millimetres, measured under specified conditions.

4.2 Cross-section and pitch zone

A cross-section of a belt is defined by the nominal top width, w (see Figure 1 and Table 1).

The position of the belt pitch zone in the pulley groove is defined by the effective line differential, b_e (see Figure 4 and Table 1).

The nominal belt included angle is 40° unless agreed otherwise between customer and belt manufacturer.