INTERNATIONAL STANDARD

ISO 5290

Fourth edition
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Belt drives — Grooved pulleys for narrow V-belts — Groove sections 9N/J, 15N/J and 25N/J (effective system)

Transmissions par courroies — Poulies à gorges pour courroies trapézoïdales étroites — Sections de gorge 9N/J, 15N/J et 25N/J (système effectif)

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

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 International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 5290 was prepared by Technical Committee ISO/TC 41, *Pulleys and belts (including veebelts)*, Subcommittee SC 1, *Friction belt drives*.

This fourth edition cancels and replaces the third edition (ISO 5290:1993), which has been technically revised.

Annex A of this International Standard is for information only.

Belt drives — Grooved pulleys for narrow V-belts — Groove sections 9N/J, 15N/J and 25N/J (effective system)

1 Scope

This International Standard specifies the principal characteristics of grooved pulleys (for groove sections 9N/J, 15N/J and 25N/J) intended to take both single and joined narrow V-belts for industrial power transmission drives.

Some background information on the series of effective diameters is given in annex A.

NOTE The effective width of a groove is regarded as the basic dimension of standardization in the effective system for grooves and for the corresponding narrow V-belts considered as a whole.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 254:1998, *Belt drives — Pulleys — Quality, finish and balance*

ISO 1081:1995, *Belt drives — V-belts and V-ribbed belts, and corresponding grooved pulleys — Vocabulary*

ISO 9980:1990, *Belt drives — Grooved pulleys for V-belts (system based on effective width) — Geometrical inspection of grooves*

3 Terms and definitions

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

4 Specifications

4.1 Groove profiles

4.1.1 Groove angle, α

The groove angle (see Figure 1) shall have one of the following values:

— α = 36° (for groove section 9N/J only);

— α = 38°;