STANDARD

4183

Third edition
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ANSI Internat Doc Sec

Belt drives — Classical and narrow V-belts — Grooved pulleys (system based on datum width)

Transmissions par courroies — Courroies trapézoïdales classiques et étroites — Poulies à gorges (système basé sur la largeur de référence)

ISO

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 voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 4183 was prepared by Technical Committee ISO/TC 41, *Pulleys and belts (including veebelts)*, Subcommittee SC 1, *Veebelts and grooved pulleys*.

This third edition cancels and replaces the second edition (ISO 4183.1989), of which it constitutes a minor revision.

Belt drives — Classical and narrow V-belts — Grooved pulleys (system based on datum width)

1 Scope

This International Standard specifies the principal dimensions of grooved pulleys for classical V-belts (sections Y, Z, A, B, C, D and E) and narrow V-belts (sections SPZ, SPA, SPB and SPC) specified in the terminology system based on datum width.

It is important that narrow belts are not used with pulleys uniquely designed for classical belts, and, on the other hand, that multiple belt drives are not used with joined V-belts

2 Normative references

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

ISO 3:1973, *Preferred numbers — Series of preferred numbers.*

ISO 254:1990, *Belt drives — Pulleys — Quality, finish and balance.*

ISO 255:1990, *Belt drives — Pulleys for V-belts (system based on datum width) — Geometrical inspection of grooves.*

ISO 1081:1980, *Drives using V-belts and grooved pulleys — Terminology.*

ISO 1101:1983, *Technical drawings — Geometrical tolerancing — Tolerancing of form, orientation, location and run-out — Generalities, definitions, symbols, indications on drawings.*

3 Preliminary notes

3.1 The datum width is regarded as the basic dimension of standardization for the groove and for the corresponding classical and narrow V-belts considered as a whole.

3.2 Knowledge of the datum line position and of the datum width is essential for defining the groove profile, the datum diameter of the pulley and the location of the belt in the pulley groove