

# INTERNATIONAL STANDARD

# ISO 1604

Second edition  
1989-11-15

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## **Belt drives — Endless wide V-belts for industrial speed-changers and groove profiles for corresponding pulleys**

*Transmissions par courroies — Courroies trapézoïdales larges sans fin pour  
variateurs de vitesse industriels et profils de gorge des poulies correspondantes*



Reference number  
ISO 1604 : 1989 (E)

## 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 approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 1604 was prepared by Technical Committee ISO/TC 41, *Pulleys and belts (including veebelts)*.

This second edition cancels and replaces the first edition (ISO 1604:1976), of which it constitutes a technical revision.

Annex A of this International Standard is for information only.

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International Organization for Standardization

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# Belt drives — Endless wide V-belts for industrial speed-changers and groove profiles for corresponding pulleys

## 1 Scope

This International Standard specifies the principal dimensions of endless wide V-belts for industrial speed-changers, and the groove profiles of corresponding fixed or variable diameter pulleys.

It does not apply to speed-changer belts used either as parts of farm-machines (in particular harvesters), which are standardized in ISO 3410, or for the propulsion of self-propelled vehicles (motor-cycles, scooters, cars).

## 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 listed below. Members of IEC and ISO maintain registers of currently valid International Standards.

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

ISO 9608:1988, *V-belts — Uniformity of belts — Centre distance variation — Specifications and test method.*

## 3 Definitions and symbols

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

## 4 Belt designation

The belt designation consists of the letter W and the nominal pitch width of the belt.

The cross-sections are designated as follows:

W16 — W20 — W25 — W31,5 — W40 — W50 — W63 — W80 — W100

The values of the pitch widths,  $w_p$  (expressed in millimetres), are nine consecutive terms from the R10 series of preferred numbers. Should this series of values be considered insufficient, it may be completed

— outside the limits, with other terms from the R10 series of preferred numbers;

— inside the limits, with terms from the R20 series of preferred numbers.