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Agricultural machinery — Variable-speed V-belts and groove sections of pulleys (Datum system)

Machines agricoles — Courroies trapézoïdales pour variateurs de vitesse et profils de gorge des poulies (système de référence)

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Foreword

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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 3410:1989), which has been technically revised.

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The main changes are as follows:

— addition of a permission in 4.1.2;

— revision of Table 3.

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Agricultural machinery — Variable-speed V-belts and groove sections of pulleys (Datum system)

1 Scope

This document specifies the main dimensions of endless variable-speed V-belts intended for use on agricultural machinery (and, in particular, harvester-thresher machines), together with the groove section of the corresponding fixed- or variable-diameter pulleys.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 3, *Preferred numbers — Series of preferred numbers*

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

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

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3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 1081 apply.

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

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

4 Dimensions and tolerances

4.1 Belts

4.1.1 General

An endless variable-speed V-belt on agricultural machinery transmits a high degree of force per unit of section; when it approaches a groove pulley, its cross-section undergoes appreciable deformations. For this reason, the various dimensions which are defined hereunder shall be taken as being those of the belt placed on the device used for the measurement of its length, and subjected to the force F. The dimensions W_p, B, W and T are those relating to the parts of the belt when in contact with the measuring pulleys.

4.1.2 Cross-sections

Cross-sectional dimensions, as indicated in Figure 1, are given in Table 1. Cross-sections are characterized by a ratio of height T to pitch width W_p of approximately 0,5, and a pitch line at approximately one-third of the height below the top of the belt. The lower one-third of the trapezium can be notched.

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