

Specification for

Industrial belt drives — Dimensions of pulleys and V-ribbed belts of PH, PJ, PK, PL and PM profiles

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Machinery and Components Standards Policy Committee (MCE/-) to Technical Committee MCE/10, upon which the following bodies were represented:

- British Gear Association
- British Rubber Manufacturers' Association
- Society of Motor Manufacturers and Traders' Limited
- Coopted members

This British Standard, having been prepared under the direction of the Machinery and Components Standards Policy Committee, was published under the authority of the Standards Board and comes into effect on 15 January 1993

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National foreword

This British Standard has been prepared under the direction of the Machinery and Components Standards Policy Committee. It is identical with ISO 9982:1991 *Belt drives — Pulleys and V-ribbed belts for industrial applications — Dimensions — PH, PJ, PK, PL and PM profiles* published by the International Organization for Standardization (ISO).

ISO 9982 was prepared by Subcommittee SC1, Veebelts and grooved pulleys, of ISO Technical Committee 41, Pulleys and belts (including veebelts).

Cross-references

International Standard	Corresponding British Standard
ISO 254:1981	BS 3790:1981 <i>Specification for endless wedge belt drives and endless v-belt drives</i> (Technically equivalent)
	BS AU 218:1987 <i>Specification for automotive synchronous belt drives</i> (Technically equivalent)

The Technical Committee has reviewed the provisions of ISO 468, to which normative reference is made in the text, and has decided that they are acceptable for use in conjunction with this standard. The British Standard related to ISO 468 is BS 1134:1988.

The introduction to ISO 9982:1991 reads as follows:

“A V-ribbed belt drive is composed of an endless belt with a longitudinally ribbed traction surface which engages and grips, by friction, pulley grooves of similar shape. The belt ribbed surface fits the pulley grooves to make substantially total contact.”

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 8, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

1 Scope

This International Standard specifies the principal dimensional characteristics of V-ribbed pulley groove profiles, together with the corresponding endless V-ribbed belts, of PH, PJ, PK, PL and PM profile which are used for general industrial applications.

The PK belt was originally established for automotive accessory drive applications and ISO 9981 deals specifically with that particular field.

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 254:1981, *Quality, finish and balance of transmission pulleys*.

ISO 468:1982, *Surface roughness — Parameters, their values and general rules for specifying requirements*.

3 Pulleys

3.1 Groove dimensions and tolerances

The groove dimensions of PH, PJ, PK, PL and PM belts are shown on Figure 1 and Figure 2, and given in Table 1.