



SLOVENSKI STANDARD

SIST ISO 8419:2012

01-oktober-2012

Nadomešča:
SIST ISO 8419:1997

**Jermenski pogoni - Ozki klinasti jermeni - Sekcije žlebov vrste 9N/J, 15N/J in 25N/J
(dolžine v osnovnem sistemu)**

Belt drives - Narrow V-belts - Sections 9N/J, 15N/J and 25N/J (lengths in the effective system)

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Transmissions par courroies - Courroies trapézoïdales étroites - Sections 9N/J, 15N/J et 25N/J (longueurs dans le système effectif) **ISO 8419:2012**

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Ta slovenski standard je istoveten z: ISO 8419:2003

ICS:

21.220.10	Jermenski pogoni in njihovi deli	Belt drives and their components
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INTERNATIONAL STANDARD

**ISO
8419**

Third edition
2003-02-01

Belt drives — Narrow V-belts — Sections 9N/J, 15N/J and 25N/J (lengths in the effective system)

*Transmissions par courroies — Courroies trapézoïdales étroites —
Sections 9N/J, 15N/J et 25N/J (longueurs dans le système effectif)*

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Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

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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 2.

The main task of technical committees is to prepare International Standards. 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 document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 8419 was prepared by Technical Committee ISO/TC 41, *Pulleys and belts (including veebelts)*, Subcommittee SC 1, *Friction belt drives*.

This third edition cancels and replaces the second edition (ISO 8419:1994), of which it constitutes a technical revision.

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Belt drives — Narrow V-belts — Sections 9N/J, 15N/J and 25N/J (lengths in the effective system)

1 Scope

This International Standard specifies, for narrow V-belts of cross-sections 9N/J (for pulley grooves of effective width 8,9 mm), 15N/J (for pulley grooves of effective width 15,2 mm) and 25N/J (for pulley grooves of effective width 25,4 mm),

- the standard effective lengths,
- the tolerances on effective lengths,
- the centre distance variations,
- the conditions for measuring the effective length and the centre distance variation, and
- the designation and marking.

NOTE 1 The cross-section of a narrow V-belt is defined by a number (9, 15 or 25) followed by the letter N or J to denote single or joined belts.

NOTE 2 To define belts of raw-edge cogged construction, the letter "X" is added, i.e. NX or JX.

2 Normative references

The following referenced documents are indispensable for the application 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 1081, *Belt drives — V-belts and V-ribbed belts, and corresponding grooved pulleys — Vocabulary*

ISO 5290:2001, *Belt drives — Grooved pulleys for joined narrow V-belts — Groove sections 9N/J, 15N/J and 25N/J (effective system)*

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

3 Terms, definitions and symbols

For the purposes of this document, the terms, definitions and symbols relating to drives using V-belts (i.e. belt and grooved pulleys) given in ISO 1081 and ISO 9608 apply

4 Effective length, L_e

4.1 The standard effective lengths are the effective lengths under tension measured under the conditions specified in 7.1.

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4.2 The nominal values of the standard effective lengths of V-belts, expressed in millimetres, have been selected from the R 40 series of preferred numbers, in accordance with ISO 3.

4.3 Standard effective lengths are given in Table 1.

5 Tolerances on effective length**5.1 Manufacturing tolerances**

The permissible manufacturing tolerances for effective length of narrow V-belts are given in Table 2.

5.2 Belt-matching tolerances for narrow V-belts in same set

Values for the tolerances on the lengths of narrow V-belts of the same set in multiple V-belt drives are given in Table 3.

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Table 1 — Standard effective lengths

Dimensions in millimetres

Cross-sections		
9N, 9NX, 9J, 9JX	15N, 15NX, 15J, 15JX	25N, 25NX, 25J, 25JX
L_e		
630	1 270	2 540
670	1 345	2 690
710	1 420	2 840
760	1 525	3 000
800	1 600	3 180
850	1 700	3 350
900	1 800	3 550
950	1 900	3 810
1 015	2 030	4 060
1 080	2 160	4 320
1 145	2 290	4 570
1 205	2 410	4 830
1 270	2 540	5 080
1 345	2 690	5 380
1 420	2 840	5 690
1 525	3 000	6 000
1 600	3 180	6 350
1 700	3 350	6 730
1 800	3 550	7 100
1 900	3 810	7 620
2 030	4 060	8 000
2 160	4 320	8 500
2 290	4 570	9 000
2 410	4 830	9 500
2 540	5 080	10 160
2 690	5 380	10 800
2 840	5 690	11 430
3 000	6 000	12 060
3 180	6 350	12 700
3 350	6 730	
3 550	7 100	
	7 620	
	8 000	
	8 500	
	9 000	