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МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ

## Narrow joined V-belts — Lengths in effective system

*Courroies trapézoïdales jumelées étroites — Longueurs dans le système effectif*

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Reference number  
ISO 8419:1987 (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.

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 8419 was prepared by Technical Committee ISO/TC 41, *Pulleys and belts (including vee-belts)*.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

Narrow joined V-belts — Lengths in effective system

1 Scope and field of application

This International Standard specifies, for narrow joined V-belts of cross-sections

- 9J (effective width 8,9 mm),
- 15J (effective width 15,2 mm),
- 20J (effective width 20,9 mm),
- 25J (effective width 25,4 mm),
- the recommended effective lengths;
- the tolerances on effective lengths;
- the conditions for measuring the effective length.

NOTE — The narrow joined V-belt cross-section is defined by a number (9, 15, 20 or 25) followed by the letter J.

2 Reference

ISO 5290, *Grooved pulleys for joined narrow V-belts — Groove sections 9J, 15J, 20J and 25J.*

3 Effective length,  $L_e$

3.1 The standard effective lengths are the effective lengths under tension measured under the conditions specified in clause 5.

3.2 The standard effective length values, in millimetres, are for the most part from the R40 series of preferred numbers.

Standard effective lengths are given in table 1.

Table 1 — Standard effective lengths  
Dimensions in millimetres

| 9J    | Cross-section |        |        |
|-------|---------------|--------|--------|
|       | 15J           | 20J    | 25J    |
| $L_e$ |               |        |        |
| 630   | 1 270         | 1 700  | 2 540  |
| 670   | 1 345         | 1 800  | 2 690  |
| 710   | 1 420         | 1 900  | 2 840  |
| 760   | 1 525         | 2 000  | 3 000  |
| 800   | 1 600         | 2 120  | 3 180  |
| 850   | 1 700         | 2 240  | 3 350  |
| 900   | 1 800         | 2 360  | 3 550  |
| 950   | 1 900         | 2 500  | 3 810  |
| 1 015 | 2 030         | 2 650  | 4 060  |
| 1 080 | 2 160         | 2 800  | 4 320  |
| 1 145 | 2 290         | 3 000  | 4 570  |
| 1 205 | 2 410         | 3 150  | 4 830  |
| 1 270 | 2 540         | 3 350  | 5 080  |
| 1 345 | 2 690         | 3 550  | 5 380  |
| 1 420 | 2 840         | 3 750  | 5 690  |
| 1 525 | 3 000         | 4 000  | 6 000  |
| 1 600 | 3 180         | 4 250  | 6 350  |
| 1 700 | 3 350         | 4 500  | 6 730  |
| 1 800 | 3 550         | 4 750  | 7 100  |
| 1 900 | 3 810         | 5 000  | 7 620  |
| 2 030 | 4 060         | 5 300  | 8 000  |
| 2 160 | 4 320         | 5 600  | 8 500  |
| 2 290 | 4 570         | 6 000  | 9 000  |
| 2 410 | 4 830         | 6 300  | 9 500  |
| 2 540 | 5 080         | 6 700  | 10 160 |
| 2 690 | 5 380         | 7 100  | 10 800 |
| 2 840 | 5 690         | 7 500  | 11 430 |
| 3 000 | 6 000         | 8 000  | 12 060 |
| 3 180 | 6 350         | 8 500  | 12 700 |
| 3 350 | 6 730         | 9 000  |        |
| 3 550 | 7 100         | 9 500  |        |
|       | 7 620         | 10 000 |        |
|       | 8 000         | 10 600 |        |
|       | 8 500         |        |        |
|       | 9 000         |        |        |