



SLOVENSKI STANDARD
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**Trakovi tračnih transporterjev z vložkom iz jeklenih vrvi - Vzdolžni natezni preskus
- 2. del: Merjenje natezne trdnosti (ISO/DIS 7622-2:2014)**

Steel cord conveyor belts - Longitudinal traction test - Part 2: Measurement of tensile strength (ISO/DIS 7622-2:2014)

Stahlseilfördergurte - Zugversuch in Längsrichtung - Teil 2: Messung der Zugfestigkeit (ISO/DIS 7622-2:2014)

Courroies transporteuses à câbles d'acier - Essai de traction dans le sens longitudinal - Partie 2: Mesurage de la résistance à la rupture (ISO/DIS 7622-2:2014)

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ICS:

53.040.20 Deli za transporterje Components for conveyors

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Steel cord conveyor belts — Longitudinal traction test — Part 2: Measurement of tensile strength

*Courroies transporteuses à câbles d'acier — Essai de traction dans le sens longitudinal —
Partie 2: Mesurage de la résistance à la rupture*

[Revision of first edition (ISO 7622-2:1984)]

ICS: 53.040.20

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ISO/CEN PARALLEL PROCESSING

This draft has been developed within the International Organization for Standardization (ISO), and processed under the **ISO lead** mode of collaboration as defined in the Vienna Agreement.

This draft is hereby submitted to the ISO member bodies and to the CEN member bodies for a parallel five month enquiry.

Should this draft be accepted, a final draft, established on the basis of comments received, will be submitted to a parallel two-month approval vote in ISO and formal vote in CEN.

To expedite distribution, this document is circulated as received from the committee secretariat. ISO Central Secretariat work of editing and text composition will be undertaken at publication stage.

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Foreword

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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 7622-2 was prepared by Technical Committee ISO/TC 41, *Pulleys and belts (including veebelts)*, Subcommittee SC 3, *Conveyor belts*.

This second edition cancels and replaces the first edition (ISO 7622-2:1984) which has been technically revised.

ISO 7622 consists of the following parts, under the general title *Steel cord conveyor belts — Longitudinal traction test*:

Part 1: Measurement of elongation

Part 2: Measurement of tensile strength

Introduction

This test method is intended to verify, by destructive testing, the tensile strength of steel cords constituting the carcass of conveyor belts. As it is a destructive test, it is used only in the event of litigation or where no certificate of compliance is issued by the cord manufacturer.

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Steel cord conveyor belts — Longitudinal traction test — Part 2: Measurement of tensile strength

1 Scope

This part of ISO 7622 specifies a method for the determination of the tensile strength, in the longitudinal, of steel cords constituting the carcass of conveyor belts.

It applies exclusively to conveyor belts with a steel carcass.

NOTE A method for the determination of elongation is specified in ISO 7622-1.

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 18573, Conveyor belts — Test atmospheres and conditioning periods

3 Principle

The traction test to breaking of a test specimen prepared in such a way that only one of the warp cords is under stress.

4 Apparatus

4.1 Dynamometric tensile testing machine, complying with the following requirements:

- a) the force exerted by the machine shall be adaptable to the strength of the test specimen. The testing machine capacity shall be such that the maximum testing load is 15 to 85 % of the capacity of the machine;
- b) the rate of separation of the jaws shall be capable of being set at 100 ± 10 mm/min and shall be capable of being maintained constant;
- c) the separation between the jaws shall be capable of being set at least 250 mm;
- d) the form of the jaws shall be such that the test specimen is held perfectly and all possibility of slipping during the test is eliminated. For this purpose, cross-ribbed jaws (see Figure 1), with the length of the ribbed part at least 80 mm, are recommended. **A small amount of slippage is allowed for rubber elongation.**

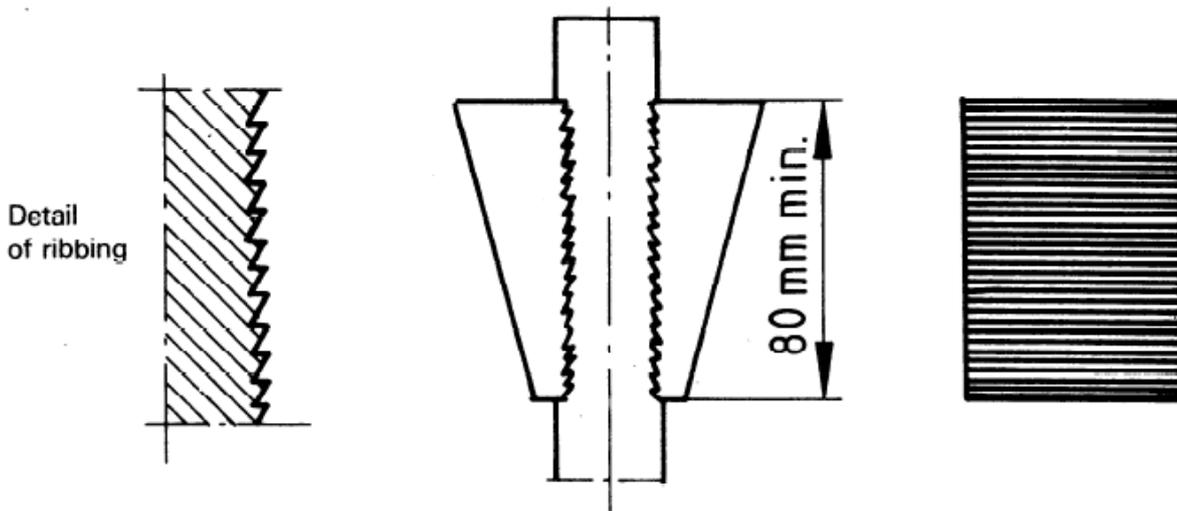


Figure 1 — Jaws

5 Test specimens

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5.1 General

Cut three test specimens of the following dimensions:

- a) Length (in the longitudinal direction of the belt):

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The length shall be given as in Table 1.

Table 1 — Cord diameter and Length

Dimensions in millimetres	
Cord diameter	Length
ϕ 0 – 3,9	500
ϕ 4,0 – 5,9	700
ϕ 6,0 – 8,4	900
ϕ 8,5 – 10,4	1 200
ϕ 10,5 – 13,0	1 400
ϕ 13,1 – 15,0	1 500

- b) Width: such that the test specimen contains five warp cords;
- c) Thickness: that of the belt, including both covers (the ends may be buffed so that they are held more securely in the jaws). If the belt is too thick to be gripped in the jaws, some part of the cover can be cut off.