



SLOVENSKI STANDARD
SIST EN ISO 16851:2005

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Textile conveyor belts - Determination of the net length of an endless (spliced) conveyor belt (ISO 16851:2004)

Textilfördergurte - Bestimmung der Länge eines endlosen Fördergurtes (ISO 16851:2004)

Courroies transporteuses a carcasse textile - Méthode de mesurage de la longueur nette d'une courroie transporteuse sans fin (jonctionnée) (ISO 16851:2004)

Ta slovenski standard je istoveten z: EN ISO 16851:2004

ICS:

53.040.20 Deli za transporterje Components for conveyors

SIST EN ISO 16851:2005 en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 16851

December 2004

ICS 53.040.20

English version

Textile conveyor belts - Determination of the net length of an endless (spliced) conveyor belt (ISO 16851:2004)

Courroies transporteuses à carcasse textile - Méthode de mesurage de la longueur nette d'une courroie transporteuse sans fin (jonctionnée) (ISO 16851:2004)

Textilfördergurte - Bestimmung der Länge eines endlosen Fördergurtes (ISO 16851:2004)

This European Standard was approved by CEN on 9 January 2004.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Foreword

This document (EN ISO 16851:2004) has been prepared by Technical Committee CEN/TC 188 "Conveyor belts", the secretariat of which is held by BSI, in collaboration with Technical Committee ISO/TC 41 "Pulleys and belts (including veebelts)".

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2005, and conflicting national standards shall be withdrawn at the latest by June 2005.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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EN ISO 16851:2004 (E)

1 Scope

This European Standard specifies a method for determining the net length of an endless (spliced) conveyor belt.

It applies to all types of construction of conveyor belting with the exception of belts containing steel cord reinforcement. It is not suitable or valid for light conveyor belts described in EN 873¹.

2 Apparatus

Steel tape measure, graduated in millimetres.

For measurement to be accurate it is essential that the tape is calibrated or subject to inspection.

3 Procedure

Lay out the endless conveyor belt so that it is flat and free from tension.

Using the flat part of the belt only, as indicated in Figure 1, place a mark on one edge of the inside surface at the point at which measurements are to begin (i.e. point A).

Mark point B further along the flat part of the belt as follows:

- a) for belts up to 30 m in circumferential length, the individual measurements shall be between one-quarter and one-third of the nominal circumferential length, except the final individual measurement, which may be less than one-quarter of the nominal circumferential length;
- b) for belts greater than 30 m in circumferential length, the individual measurements shall be between 7,5 m long and not more than one-third of the nominal circumferential length, except the final individual measurement, which may be less than 7,5 m long.

Measure and record the distance AB, between points A and B.

Rotate the belt and make consecutive measurements along the inside surface of the flat part of the belt only. Designate the individual measurements as AB, BC, CD etc., continuing until the last measurement xA can be taken.

NOTE In the event of a dispute, measurements should be taken at one of the standard atmospheres given in ISO 18573^[1], as agreed between supplier and customer.

¹ EN 873 will be published as ISO 21183-1.

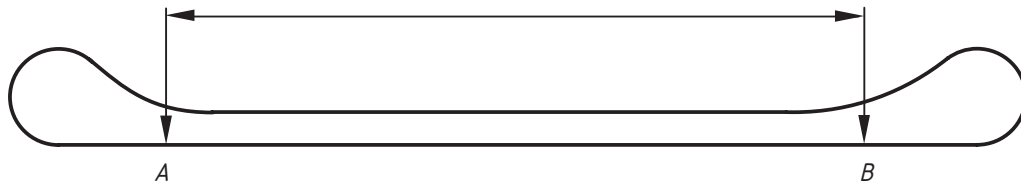


Figure 1 — Measurement of the length of an endless conveyor belt

4 Calculation and expression of results

Calculate the net endless length, l_e , of the conveyor belt as follows:

$$l_e = [\overline{AB} + \overline{BC} + \overline{CD} + \dots + \overline{xA}] - \pi d$$

where

d is the thickness of the belt

By taking measurements on the flat part of the belt only, the length along the neutral axis is obtained. To allow for the compression of the inside surface, it is necessary to deduct the amount πd in order to obtain the true inside length.

Express the results in millimetres.

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NOTE Tolerances on lengths of endless conveyor belts are given in EN ISO 14890^[2].

5 Test report

The test report shall include the following:

- a) reference to this European Standard, EN ISO 16851;
- b) identification of the belt tested;
- c) net length of the conveyor belt in millimetres;
- d) date on which the belt was measured.

Bibliography

- [1] ISO 18573, *Conveyor belts — Test atmospheres and conditioning periods*
- [2] EN ISO 14890, *Conveyor belts — Specification for rubber or plastics covered conveyor belts of textile construction for general use (ISO 14890:2003)*
- [3] EN 873, *Light conveyor belts — Principal characteristics and applications*

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