SLOVENSKI STANDARD
SIST ISO 1535:1997

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Naprave za kontinuirni transport sipkih materialov - Koritasti tračni transporterji (razen prenosnih tračnih transporterjev) - Trakovi

Continuous mechanical handling equipment for loose bulk materials -- Troughed belt conveyors (other than portable conveyors) -- Belts

Engins de manutention continue pour produits en vrac -- Transporteurs à courroie en auge (autres que mobiles) -- Courroies transporteuses

Ta slovenski standard je istoveten z: **ISO 1535:1975**

ICS:

53.040.20 Deli za transporterje Components for conveyors

SIST ISO 1535:1997 **en**

INTERNATIONAL STANDARD 1535

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Continuous mechanical handling equipment for loose bulk materials — Troughed belt conveyors (other than portable conveyors) — Belts

Engins de manutention continue pour produits en vrac — Transporteurs à courroie en auge (autres que mobiles) — Courroies transporteuses

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FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up 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.

Prior to 1972, the results of the work of the Technical Committees were published as ISO Recommendations; these documents are now in the process of being transformed into International Standards. As part of this process, Technical Committee ISO/TC 101 has reviewed ISO Recommendation R 1535 and found it technically suitable for transformation. International Standard ISO 1535 therefore replaces ISO Recommendation R 1535-1970 to which it is technically identical.

ISO Recommendation R 1535 was approved by the Member Bodies of the following countries :

Belgium	India	Sweden
Canada	Israel	Switzerland
Colombia	Italy	Thailand
Czechoslovakia	Japan	Turkey
Egypt, Arab Rep. of	New Zealand	United Kingdom
Finland	Norway	U.S.A.
France	Poland	U.S.S.R.
Germany	South Africa, Rep. of	
Greece	Spain	

No Member Body expressed disapproval of the Recommendation.

No Member Body disapproved the transformation of ISO/R 1535 into an International Standard.

Printed in Switzerland

Continuous mechanical handling equipment for loose bulk materials — Troughed belt conveyors (other than portable conveyors) — Belts

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the belt widths and belt edge clearances for troughed belt conveyors (other than portable conveyors).

2 SPECIFICATIONS

2.1 Dimensions

The belt widths and the relevant tolerances are in accordance with ISO/R 251, *Widths and lengths of conveyor belts.*

They are reproduced in the annex.

2.2 Edge clearance of belts

2.2.1 *Definition*

The edge clearance *c* of belts is the gap between each edge of the return and carrying belts in their correct positions and the nearest obstacle liable to be approached by the edge of the belt.

2.2.2 *Minimum clearances (on each side)*

2.2.2.1 The minimum values for edge clearances, on each side, are given in the following table.

TABLE — **Minimum edge clearances (on each side) of belts**

Belt width *b*		Minimum clearances *c*		
		Individual obstacle		Continuous or recurring obstacle
mm	in	mm	in	
400 to 650	16 to 26	50	2	0,075 *b* *
800 to 1 400	32 to 56	75	3	
1 600 to 2 000	64 to 80	100	4	

* Subject to specifications mentioned in 2.2.2.2.

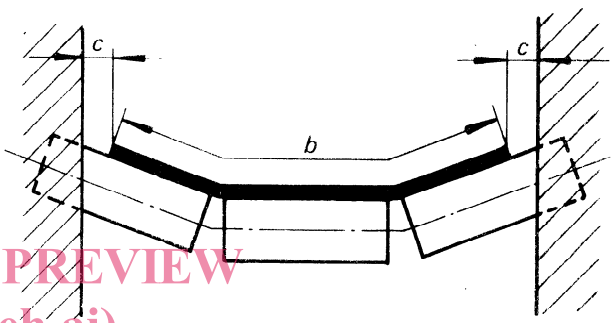

FIGURE 1 — **Carrying idlers**

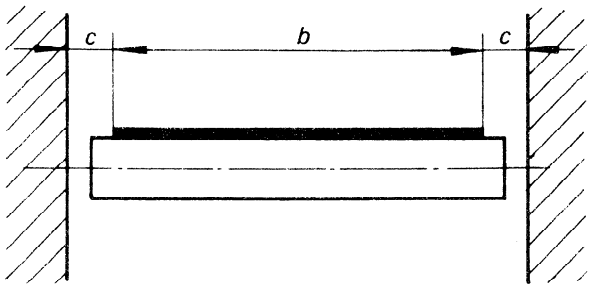

FIGURE 2 — **Return idler**

2.2.2.2 The minimum clearance *c*, in the presence of continued or repeated obstacles, shall be at least equal to those allowed for individual obstacles.

2.2.2.3 No obstacle shall be placed within the lines projected vertically from the outer ends of the upper surfaces of the inclined idlers.

2.2.2.4 If the carrying system of the conveyor has a concave curve, the manufacturer shall take into account the possibility of the belt lifting and flattening out.

2.2.2.5 The clearances given above apply to conveyor belt speeds not greater than 3 m/s. For higher speeds, the manufacturer shall take into account any additional clearance which may be required.

ANNEX

BELT WIDTHS

A.1 NOMINAL WIDTHS

mm	in
400	16
500	20
650	26
800	32
1 000	40
1 200	48
1 400	56
1 600	64
1 800	72
2 000	80

A.2 TOLERANCES

The deviations allowed on the belt widths are fixed as follows :

a) ± 5 mm for the widths of 400 and 500 mm,

± 3/16 in for the widths of 16 and 20 in;

b) ± 1 % of millimetre value for the widths greater than 500 mm (20 in).