# INTERNATIONAL STANDARD 1536

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) — Belt pulleys

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

**First edition — 1975-10-15**



**UDC 621.867.2** **Ref. No. ISO 1536-1975 (E)**

**Descriptors :** handling equipment, continuous handling, bulk products, conveyors, belt conveyors, pulleys, dimensions.

Price based on 1 page

## 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 1536 and found it technically suitable for transformation. International Standard ISO 1536 therefore replaces ISO Recommendation R 1536-1970 to which it is technically identical.

ISO Recommendation R 1536 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 1536 into an International Standard.





Published in Switzerland

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

## 1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the diameters, lengths and manufacture of the belt pulleys for troughed belt conveyors (other than portable conveyors).

## 2 SPECIFICATIONS

### 2.1 Dimensions

#### 2.1.1 *Basic diameters, D*

The values of the basic diameters *D* of belt pulleys are given in table 1.

TABLE 1 — **Values of basic diameters *D***

| mm | in |
|---|---|
| 200 | 8 |
| 250 | 10 |
| 315 | 12.6 |
| 400 | 16 |
| 500 | 20 |
| 630 | 25.2 |
| 800 | 32 |
| 1 000 | 40 |
| 1 250 | 50 |
| 1 400 | 56 |
| 1 600 | 64 |

NOTE — This table does not apply to motorized or geared pulleys.

Choice of the belt pulley diameter shall be based on the operating conditions, and shall be made in agreement with the belt manufacturer.

#### 2.1.2 *Lengths, L*

The values of the lengths *L* of belt pulleys are given in table 2.

TABLE 2 — **Values of lengths *L***

| **Belt widths**[1] ***b*** | | **Pulley lengths** ***L*** | |
|---|---|---|---|
| mm | in | mm | in |
| 400 | 16 | 500 | 20 |
| 500 | 20 | 600 | 24 |
| 650 | 26 | 750 | 30 |
| 800 | 32 | 950 | 38 |
| 1 000 | 40 | 1 150 | 46 |
| 1 200 | 48 | 1 400 | 56 |
| 1 400 | 56 | 1 600 | 64 |
| 1 600 | 64 | 1 800 | 72 |
| 1 800 | 72 | 2 000 | 80 |
| 2 000 | 80 | 2 200 | 88 |

1) See ISO/R 251, *Widths and lengths of conveyor belts.*

### 2.2 Manufacture

No account is to be taken of pulley lagging when determining basic diameters.

The pulley surface in contact with the belt should preferably be flat, but may be crowned.

In the case of crowned pulleys, the basic diameter is also the maximum diameter.

The amount of crowning shall be agreed in consultation with the belt manufacturer.

The pulleys may be made from the standard sizes of available tubes which are nearest to the basic diameter.

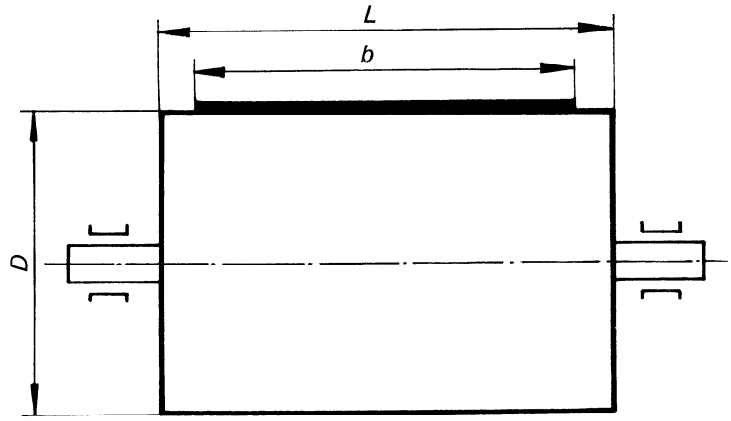


FIGURE — **Belt pulley**