

INTERNATIONAL STANDARD



3276

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

**Continuous mechanical handling equipment for unit loads —
Belt conveyors (canvas, rubber, plastic, etc.), steel band
conveyors and wire mesh belt conveyors — Safety code**

*Engins de manutention continue pour charges isolées — Transporteurs à courroie en toile, caoutchouc, plastique, etc.,
transporteurs à bande d'acier et transporteurs à tapis métallique — Code de sécurité*

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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.

International Standard ISO 3276 was drawn up by Technical Committee ISO/TC 101, *Continuous mechanical handling equipment*, and circulated to the Member Bodies in November 1973.

It has been approved by the Member Bodies of the following countries :

Australia	India	South Africa, Rep. of
Belgium	Ireland	Spain
Bulgaria	Italy	Sweden
Czechoslovakia	Japan	Thailand
Egypt, Arab Rep. of	Mexico	Turkey
Finland	Netherlands	United Kingdom
France	New Zealand	U.S.S.R.
Germany	Romania	Yugoslavia

The Member Body of the following country expressed disapproval of the document on technical grounds :

U.S.A.

Continuous mechanical handling equipment for unit loads – Belt conveyors (canvas, rubber, plastic, etc.), steel band conveyors and wire mesh belt conveyors – Safety code

1 SCOPE

This International Standard specifies, in addition to the general safety rules set out in ISO/R 1819, the special safety rules for the following continuous mechanical handling equipment for unit loads : belt conveyors (canvas, rubber, plastic, etc.), steel band conveyors, and wire mesh belt conveyors.

2 FIELD OF APPLICATION

The safety rules laid down in this International Standard apply regardless of the use for which the equipment is intended. These safety rules limit the supplier's responsibility to continuous mechanical handling equipment properly so called, excluding the structures to which such equipment is fixed.

3 REFERENCE

ISO/R 1819, *Continuous mechanical handling equipment – Safety code – General rules.*

4 SPECIAL SAFETY RULES

The construction and operation of belt conveyors (canvas, rubber, plastic, etc.), steel band conveyors, and wire mesh belt conveyors, shall meet

- the legal and local requirements relating to safety in general (see appendix Z of ISO/R 1819),
- the principles laid down in clause 1 of ISO/R 1819,
- the general rules laid down in clause 2 of ISO/R 1819,
- the following special rules :

4.1 In the construction stage (design and manufacture)

4.1.1 Belts shall be of sufficient width to suit the specific load and material to be conveyed. Guiding and centring devices should be provided if necessary.

4.1.2 In conformity with rule 2.1.7 of ISO/R 1819, belt idlers and pulleys shall be completely guarded at the in-running nips and pinch points (feed, tension, etc.) and at convex curve points, where the tangent angle between two adjacent pairs of rollers exceeds 3° , if accessible to operating personnel and any other persons who work in the vicinity of the machinery.

4.1.3 In addition to rules 2.1.2 and 2.1.3 of ISO/R 1819 relating to inclined or non-inclined conveyors, a safety device shall be provided (rods, or upper guides) if occasional slipping of the materials can be normally foreseen (slipping caused, for instance, by a stoppage in loading).

4.1.4 As permitted by rule 2.1.4 of ISO/R 1819, a safety device is not compulsory when, simultaneously, the mass of each unit load does not exceed 50 kg and when the total normal loading of material on the incline is below 500 kg.

4.2 During the installation stage (design, commissioning and entry into service)

4.2.1 Belt conveyors shall be erected and aligned with care. This applies not only to the framework, but also to the mechanical parts and the belt.

4.2.2 Counterweight tension devices shall be guarded at points normally accessible to personnel. Either the space directly below the counterweight shall be so guarded as to prevent access, or sustaining devices shall be provided.

4.3 During the utilization stage (operation and maintenance)

4.3.1 In addition to rule 2.3.5 of ISO/R 1819, the manual cleaning of pulleys, idlers and other parts, necessitated by the build-up of material or any other cause, shall only be undertaken when the equipment is at rest, and after rendering the starting devices inoperative.

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