

INTERNATIONAL STANDARD



3264

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

Continuous mechanical handling equipment for loose bulk materials — Screw feeders and conveyors — Safety code

Engins de manutention continue pour produits en vrac — Distributeurs et transporteurs à vis — 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 3264 was drawn up by Technical Committee ISO/TC 101, *Continuous mechanical handling equipment*, and circulated to the Member Bodies in September 1973.

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

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

No Member Body expressed disapproval of the document.

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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 loose bulk materials : screw feeders and conveyors.

— 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 :

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 proper, excluding the structures to which such equipment is affixed.

3 REFERENCE

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

4 SPECIAL SAFETY RULES

The construction and operation of screw feeders and conveyors shall meet :

- the legal and local requirements relating to safety in general¹⁾,

4.1 In the construction stage (design and manufacture)

4.1.1 The top of the trough containing the screw shall be covered at all points other than the feed and discharge areas.

4.1.2 The opening of covers, inspection covers or covers of protective devices liable to expose the screw element while the appliance is in operation is normally prohibited.

Where the user informs the manufacturer in writing that he intends to allow persons to open, while the appliance is in operation, inspection covers or protective devices which will expose the moving screw, fixed guards which will prevent access to the screw shall be provided. For example, a guard having openings of 40 mm X 40 mm should be placed not less than 100 mm from the edge of the screw.

4.1.3 Feed and discharge openings shall be designed to prevent access to moving parts, or alternatively suitable guards shall be provided.

1) See Appendix Z of ISO/R 1819.

4.1.4 It shall be possible to lubricate the intermediate screw bearings without removing the trough or the cover of the conveyor.

4.1.5 In cases where a screw is required to convey dangerous or noxious materials, the user shall inform the constructor and specify what special safety measures are to be taken for the construction of the appliance.

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

4.2.1 All accessible rotating parts of the screw shall be equipped with a suitable trough, sufficiently strong and provided with a cover or, in certain special cases, a guard. If, for special reasons necessary for operation, these protective devices cannot be fitted, the installation engineer shall fit a suitable device such as a guard-rail, an extension of the vertical walls of the trough, etc.

4.2.2 At all places where a screw can be crossed by the personnel, provision shall be made for a cover on the trough sufficiently strong to support a man's weight and the weight of any tools he might be carrying, i.e. 150 kg total.

4.3 During the utilisation stage (operating and maintenance)

4.3.1 In accordance with the regulations in force and according to requirements in rule 4.1.2, personnel are forbidden to proceed with cleaning or other inspection inside the trough without first having stopped the screw and after rendering the starting devices inoperative.

4.3.2 Access to the unprotected rotating part of a screw is prohibited to all persons other than the supervisory and maintenance personnel. No action shall be undertaken by the latter without first having stopped the screw and taken all precautions to prevent it from starting accidentally.

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