
INTERNATIONAL STANDARD



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Continuous mechanical handling equipment for loose bulk materials – Rotary drum feeders and rotary vane feeders – Safety code

Engins de manutention continue pour produits en vrac – Distributeurs à tambour cylindrique et distributeurs à tambour alvéolé – 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 5033 was developed by Technical Committee ISO/TC 101, *Continuous mechanical handling equipment*, and was circulated to the member bodies in February 1976.

It has been approved by the member bodies of the following countries :

Australia	Germany	Spain
Austria	India	Sweden
Belgium	Japan	Turkey
Bulgaria	Mexico	United Kingdom
Chile	Netherlands	U.S.S.R.
Czechoslovakia	Poland	Yugoslavia
Finland	Romania	
France	South Africa, Rep. of	

No member body expressed disapproval of the document.

Continuous mechanical handling equipment for loose bulk materials – Rotary drum feeders and rotary vane feeders – Safety code

1 SCOPE

This International Standard specifies, in addition to the general safety rules set out in ISO 1819, the special safety rules for the following continuous mechanical handling equipment for loose bulk materials : rotary drum feeders and rotary vane feeders.¹⁾

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 REFERENCES

ISO 1819, *Continuous mechanical handling equipment – Safety code – General rules.*²⁾

ISO 2148, *Continuous handling equipment – Nomenclature.*

4 SPECIAL SAFETY RULES

The construction and operation of rotary drum feeders and rotary vane feeders shall meet

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

4.1 In the construction stage (design and manufacture)

4.1.1 Inspection doors and openings must be so located that the inside of the feeder, especially the vane shear points, cannot be reached directly.

4.1.2 When the inlet or the outlet of a rotary feeder opens on the outside, a long enough pipe must be provided to prevent normal access to the rotor. When this is not possible, a suitable grid shall be fitted.

4.2 During the installation stage (layout, erection and entry into service)

4.2.1 If, nevertheless, there are inspection doors either on the feeder or at the inlet or outlet, it is recommended to use an interlocking device preventing the starting up of the feeder when the inspection doors are opened.

4.3 During the utilization stage (operation and maintenance)

4.3.1 In addition to rule 2.3.12 of ISO 1819, the rotary feeder shall be stopped before beginning any work, should it be necessary to remove an object or to clean out the feeder.

Moreover, accidental restarting shall be rendered impossible by adequate devices.

4.3.2 If it should be necessary to move the rotor before beginning any work, this shall be done exclusively with an implement (stick, tool, etc.) and not by hand.

1) See 2.13.09 and 2.13.10 of ISO 2148.

2) At present at the stage of draft. (Revision of ISO/R 1819-1970.)