
INTERNATIONAL STANDARD 5035

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Continuous mechanical handling equipment for loose bulk materials — Bulk throwing machines — Safety code

Engins de manutention continue pour produits en vrac — Chargeurs par projection — 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 5035 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 — Bulk throwing machines — 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 : bulk throwing machines.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 bulk throwing machines 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 Because of the high belt speeds of these appliances, particular care shall be taken to ensure that rule 2.1.7 of ISO 1819 relative to the protection of the in-running nips and pinch points between belts and pulleys is applied.

4.1.2 The jet inclination variation control device shall be easily accessible and so located as to allow the operator to remain outside the throwing area.

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

4.2.1 Since handling by throwing is involved, a warning device shall be provided for operation prior to starting, complementary to rule 2.2.13 of ISO 1819.

4.3 During the utilization stage (operation and maintenance)

4.3.1 Access to the throwing area shall be banned or prevented (by warning signs, obstacles, etc.) during the operation of the appliances.

4.3.2 When mobile appliances are used in different locations it is the user who must ensure that rule 4.2.1 is applied.

1) See 2.14.06 of ISO 2148.

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