
INTERNATIONAL STANDARD



2387

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

Continuous mechanical handling equipment for loose bulk materials — Mobile belt conveyors — Safety code

First edition — 1972-06-01

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annulé
see 7149

UDC 621.868 : 614.8

Ref. No. ISO 2387-1972 (E)

Descriptors : materials handling equipment, conveyors, bulk handling, mobile equipment, safety.

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 2387 was drawn up by Technical Committee ISO/TC 101 – *Continuous mechanical handling equipment*.

It was approved in October 1971 by the Member Bodies of the following countries :

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

No Member Body expressed disapproval of the document.

Continuous mechanical handling equipment for loose bulk materials — Mobile 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 loose bulk materials: mobile belt conveyors, not self-propelled¹⁾.

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 REFERENCES

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

ISO/R 1821, *Continuous mechanical handling equipment for loose bulk materials — Belt feeders and conveyors — Safety code.*

ISO 2148, *Continuous handling equipment — Nomenclature.* (At present at the stage of Draft.)

4 SPECIAL SAFETY RULES

The construction and operation for mobile belt conveyors shall meet

- the legal and local requirements relating to safety in general²⁾,
- the principles laid down in section 1 of ISO/R 1819,

- the general rules laid down in section 2 of ISO/R 1819,
- the special rules laid down in ISO/R 1821,
- the following special rules:

4.1 In the construction stage (design and manufacture)

4.1.1 The lowering and raising system shall be fitted with a safety device to prevent accidental lowering or lifting of the boom, to prevent kickback of any manually operated crank.

The device for lowering and raising the equipment shall be located in such a way that it is operable only from the side of the conveyor, so that there is no necessity for persons to be under the conveyor.

4.1.2 Manually raising or lowering the end of the equipment during transit operations shall in no case require a muscular force of more than 30 daN pull per operator.³⁾

4.1.3 When the position of the boom can be adjusted by means of the supporting chassis, this shall be fitted with a safety device to limit the extent of any collapse.

4.2 During the utilisation stage (operation and maintenance)

4.2.1 It is recommended that the wheels be locked as soon as the conveyor is in its working position.

4.2.2 Before moving, the conveyor shall be brought to its lowest position, and the power supply, if electric, shall be disconnected.

4.2.3 The maximum towing speed, to be indicated by the manufacturer, shall not be exceeded.

1) See ISO 2148, No. 2.14.0122.

2) See Appendix Z of ISO/R 1819.

3) 30 daN in the SI system of units correspond to about 30 kgf in the "technical system" of units. (See ISO/R 31.)