

INTERNATIONAL STANDARD



5038

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

Continuous mechanical handling equipment for unit loads — Mobile slat conveyors (metal or wood) with horizontal shafts — Safety code

*Engins de manutention continue pour charges isolées — Transporteurs mobiles à lattes (métalliques, bois)
à arbres horizontaux — 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 5038 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	South Africa, Rep. of
Austria	India	Spain
Belgium	Japan	Sweden
Bulgaria	Mexico	Turkey
Czechoslovakia	Netherlands	United Kingdom
Finland	Poland	U.S.S.R.
France	Romania	Yugoslavia

No member body expressed disapproval of the document.

Continuous mechanical handling equipment for unit loads — Mobile slat conveyors (metal or wood) with horizontal shafts — 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 unit loads : mobile slat conveyors (metal or wood) with horizontal shafts.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*.

ISO 5037, *Continuous mechanical handling equipment for unit loads — Fixed slat conveyors (metal or wood) with horizontal shafts — Safety code*.

4 SPECIAL SAFETY RULES

The design, construction and operation of mobile slat conveyors (metal or wood) with horizontal shafts for unit loads 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 special rules laid down in ISO 5037;
- 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, and to prevent kickback of any manually operated crank.

The device for lowering and raising the equipment shall be so located 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 is adjustable with respect to the supporting chassis, the equipment shall be fitted with a safety device to limit the extent of any collapse.

4.2 During the utilization 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 appliance, 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 2.21.042 of ISO 2148.

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

3) 30 daN $\approx$ 30 kgf