

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION MEXCHAPODHAS OPFAHUSALUS TO CTAHDAPTUSALUS ORGANISATION INTERNATIONALE DE NORMALISATION

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

Engins de manutention continue pour charges isolées – Transporteurs fixes à lattes (métalliques, bois) à arbres horizontaux – Code de sécurité TANDARD PREVIEW

First edition -- 1977-05-01

ISO 5037:1977 https://standards.iteh.ai/catalog/standards/sist/4c6c4c73-89a7-4dbd-bd82-40a7998f43fd/iso-5037-1977

(standards.iteh.ai)

UDC 621.867 : 614.8

Descriptors : handling equipment, continuous handling, unit loads, apron conveyors, fixed equipment, safety requirements.

FOREWORD

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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 5037 was developed by Technical Committee VIEW ISO/TC 101, Continuous mechanical handling equipment, and was circulated to the member bodies in February 1976. (standards.iteh.ai)

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

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Australia	Germany dards.iteh.a	i/catalogspandards/sist/4c6c4c73-89a7-4dbd-bd82-
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Czechoslovakia	Poland	Yugoslavia
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France	South Africa, Rep. of	

No member body expressed disapproval of the document.

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Continuous mechanical handling equipment for unit loads – Fixed 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 : fixed slat conveyors (metal or wood) with horizontal shafts.¹)

2 FIELD OF APPLICATION

shall be guarded; also the chain tracks shall be guarded in areas which are normally accessible to personnel.

4.1.2 In addition to rules 2.1.2 and 2.1.3 of ISO 1819, relating to inclined or horizontal conveyors, a safety device shall be provided (rods, or upper guides) if occasional slipping of the units can normally be foreseen (slipping caused, for instance, by a stoppage under load).

4.1.3 In addition to rule 2.1.4 of ISO 1819, no safety device is compulsory when simultaneously the mass of each unit load does not exceed 50 kg and the total mass of the load on the sloping part of the appliance corresponding to the normal average does not exceed 500 kg.

3 REFERENCES

4.2 During the installation stage (layout, erection and ISO 5037:197entry into service)

ISO 1819, Continuous mechanical handling equipment Safety code – General rules.²) Https://standards.iteh.ai/catalog/standards/sist/4c6c4c73-89a7-4dbd-bd82-4.2.1 The conveyors shall be erected and aligned with care. This applies not only to the structure but also to the mechanical parts and the chains carrying the slats.

ISO 2148, Continuous handling equipment – Nomenclature.

4 SPECIAL SAFETY RULES

The design, construction and operation of fixed 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 following special rules.

4.1 In the construction stage (design and manufacture)

4.1.1 In addition to rule 2.1.7 of ISO 1819, pinch points created as the slats leave a sprocket or change direction

4.2.2 If the slack side is accessible to personnel, guards must be installed wherever there is a possibility of shearing or pinching by the moving parts, or between the moving parts and the fixed structure.

4.3 During the utilization stage (operation and maintenance)

4.3.1 Clear operating instructions legible from the loading point shall be provided indicating the permissible unit load, its stable placement on the conveyor and its maximum dimensions, in order to prevent any accidental collision or tipping.

4.3.2 In conformity with rule 2.3.5 of ISO 1819, the manual cleaning of wheels, chains and other components shall be forbidden unless the conveyor is at rest, and the starting devices have been rendered inoperative.

¹⁾ See 2.21.041 of ISO 2148.

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

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