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**Continuous mechanical handling equipment for unit loads —
Crate-carrying chain conveyors having biplanar chains for
flat-bottomed unit loads — Safety code**

*Engins de manutention continue pour charges isolées — Transporteurs à chaîne traîneuse ou porteuse
de type biplanaire, pour charges isolées à base plate — Code de sécurité*

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

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 5041 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	Yugoslavia
France	Romania	

No member body expressed disapproval of the document.

Continuous mechanical handling equipment for unit loads – Crate-carrying chain conveyors having biplanar chains for flat-bottomed unit loads – 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: crate-carrying chain conveyors having biplanar chains for flat-bottomed unit loads.

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 REFERENCE

ISO 1819, *Continuous mechanical handling equipment – Safety code – General rules*.¹⁾

4 SPECIAL SAFETY RULES

The design, construction and operation of crate-carrying chain conveyors having biplanar chains for flat-bottomed 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 All chain traction mechanism drives shall be equipped with a load limiter (with or without motor cut-out) which responds when the permissible traction force is exceeded, i.e. independently of the overload safety devices of the electrical switchgear.

4.1.2 In addition to rules 2.1.2 and 2.1.3 of ISO 1819 relating to sloping or non-sloping conveyors, a safety device shall be provided (rods, or upper guides) if occasional lateral slipping of the materials can be foreseen under normal operating conditions.

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

4.2.1 The conveyors shall be erected and aligned with care. This applies not only to the framework but also to the mechanical components and the chains.

4.3 During the utilization stage (operation and maintenance)

4.3.1 The chain and its track shall be the subject of special attention and of regular and correct lubrication.

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