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# INTERNATIONAL STANDARD



# 1819

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## Continuous mechanical handling equipment — Safety code — General rules

*Engins de manutention continue — Code de sécurité — Règles générales*

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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 1819 was developed by Technical Committee ISO/TC 101, *Continuous mechanical handling equipment*, and was circulated to the member bodies in March 1976.

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

Australia	France	South Africa, Rep. of
Austria	Germany	Spain
Belgium	India	Sweden
Bulgaria	Japan	Turkey
Chile	Mexico	United Kingdom
Czechoslovakia	Philippines	U.S.S.R.
Finland	Poland	Yugoslavia

The member bodies of the following countries expressed disapproval of the document on technical grounds :

Netherlands  
Norway

This International Standard cancels and replaces ISO Recommendation R 1819-1970, of which it constitutes a technical revision.

# Continuous mechanical handling equipment – Safety code – General rules

## 0 INTRODUCTION

It must be understood that the present International Standard applies only to conveying devices that have been correctly designed, and constructed and erected with care.

It must also be understood that the conveying device has been selected according to the characteristics of the product or the objects being conveyed, and is suitable for the working conditions.

When the equipment conveys dangerous, noxious, toxic or harmful products, the user shall inform the manufacturer and if necessary the erectors, and specify the special safety conditions to be complied with.

## 1 GENERAL

### 1.1 Scope

This International Standard sets out safety rules relating to continuous mechanical handling equipment, including its construction, installation, utilization and maintenance, to ensure that it is used to the best advantage, and to prevent, as far as possible, any accidents or mishaps that could arise from misuse.

To this end, these rules provide precise directives necessary to comply with legal texts (see appendix Z) and requirements decreed by governing bodies in certain countries.

### 1.2 Field of application

The safety rules laid down in this International Standard apply in the normal working conditions defined in 1.3.1, 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 (building frameworks, planks, etc.) to which such equipment is affixed or on which it is placed and for which the user is responsible, except when such structures have been designed, supplied and erected by the conveying device manufacturer.

The sole object of these rules is the safety of the personnel defined in 1.3.2.

Skilled personnel – fitters, maintenance and repair personnel, who only work from time to time at the request of the person responsible for the plant – shall observe special rules, particularly those set out in 2.3.17 to 2.3.21.

Persons whose duties do not demand their presence on the plant or in the vicinity of the equipment under consideration shall observe orders forbidding access to certain areas.

## 1.3 Definitions

**1.3.1 normal working conditions :** Specified conditions as agreed by the interested parties for the use of continuous mechanical handling equipment.

These normal working conditions will either be defined by the user and agreed with the manufacturer at the time of passing the order, or defined for standard equipment in the manufacturer's catalogue when it is issued.

**1.3.2 personnel :** Persons essential to the use (the operation) of the continuous mechanical handling equipment itself and persons legitimately in the vicinity.

## 1.4 General plan

The safety code is divided into two parts :

- a) General rules relating to all continuous mechanical handling equipment for loose bulk materials or unit loads (covered by this International Standard).
- b) Special rules for continuous mechanical handling equipment for loose bulk materials or unit loads. These rules, written for individual appliances or groups of appliances, are covered by separate International Standards.

Each part of the safety code is divided into three clauses dealing with the safety rules applying to the following stages :

- construction (design and manufacture);
- installation (layout, erection and entry into service);
- utilization (operation and maintenance).