

INTERNATIONAL STANDARD



5030

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Continuous mechanical handling equipment for loose bulk materials — Mobile suction pipes suspended from derrick jibs used in pneumatic handling — Safety code

Engins de manutention continue pour produits en vrac — Tuyauteries d'aspiration mobiles suspendues à un bras mobile utilisées en manutention pneumatique — 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 5030 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	Spain
Austria	India	Sweden
Belgium	Japan	Turkey
Bulgaria	Mexico	United Kingdom
Chile	Netherlands	U.S.S.R.
Czechoslovakia	Poland	Yugoslavia
Finland	Romania	
France	South Africa, Rep. of	

No member body expressed disapproval of the document.

Continuous mechanical handling equipment for loose bulk materials — Mobile suction pipes suspended from derrick jibs used in pneumatic handling — 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 loose bulk materials: mobile suction pipes suspended from derrick jibs used in pneumatic handling.

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*.¹⁾

ISO 5028, *Continuous mechanical handling equipment for loose bulk materials — Pneumatic handling installations — Safety code*.

4 SPECIAL SAFETY RULES

The construction and operation of mobile suction pipes suspended from derrick jibs used in pneumatic handling 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 and in ISO 5028;
- the following special rules.

4.1 In the construction stage (design and manufacture)

4.1.1 In addition to rule 2.1.1 of ISO 1819, when calculating the design of the mobile derrick jib and any supporting equipment, account shall be taken of a load of 100 daN²⁾ at the lower end of the vertical piping.

4.1.2 The extreme upper and lower positions of the derrick jib shall be limited by stopping devices.

4.1.3 The lubricating devices on the shafts and pulleys shall be easily accessible.

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

4.2.1 To prevent any abnormal forces during operation, the derrick jib and its suspension components, as well as the pipes, must be set up and assembled with care.

4.2.2 Means of access to the jib shall be provided.

4.3 During the utilization stage (operation and maintenance)

4.3.1 Lubrication of swivel joints and pulleys shall be carried out in accordance with the manufacturer's instructions.

4.3.2 The good state of cables and suspension units must be checked at regular intervals.

4.3.3 In compliance with rule 2.3.16 of ISO 1819, any alteration to the installation shall only be made by agreement with the manufacturer.

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

2) 100 daN $\approx$ 100 kgf