



SLOVENSKI STANDARD SIST EN ISO 21281:2005

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Construction and layout of pedals of self-propelled sit-down rider-controlled industrial trucks - Rules for the construction and layout of pedals (ISO 21281:2005)

iTeh STANDARD PREVIEW

Ausführung und Anordnung der Pedale für kraftbetriebene Flurförderzeuge mit Fahrersitz - Regeln für die Ausführung und Anordnung der Pedale (ISO 21281:2005)

SIST EN ISO 21281:2005

Construction et configuration des pédales des chariots de manutention automoteurs a conducteur assis - Regles de construction et de configuration des pédales (ISO 21281:2005)

Ta slovenski standard je istoveten z: EN ISO 21281:2005

ICS:

53.060 Industrijski tovornjaki Industrial trucks

SIST EN ISO 21281:2005 en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 21281

February 2005

ICS 53.060

Supersedes EN 281:1988

English version

**Construction and layout of pedals of self-propelled sit-down
rider-controlled industrial trucks - Rules for the construction and
layout of pedals (ISO 21281:2005)**

Construction et configuration des pédales des chariots de
manutention automoteurs à conducteur assis - Règles de
construction et de configuration des pédales (ISO
21281:2005)

Ausführung und Anordnung der Pedale für kraftbetriebene
Flurförderzeuge mit Fahrersitz - Regeln für die Ausführung
und Anordnung der Pedale (ISO 21281:2005)

This European Standard was approved by CEN on 3 February 2005.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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EN ISO 21281:2005 (E)

Foreword

This document (EN ISO 21281:2005) has been prepared by Technical Committee CEN/TC 150 "Industrial Trucks - Safety", the secretariat of which is held by BSI, in collaboration with Technical Committee ISO/TC 110 "Industrial trucks".

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by August 2005, and conflicting national standards shall be withdrawn at the latest by August 2005.

This document supersedes EN 281:1988.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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INTERNATIONAL
STANDARD

ISO
21281

First edition
2005-02-15

**Construction and layout of pedals of
self-propelled sit-down rider-controlled
industrial trucks — Rules for the
construction and layout of pedals**

*Construction et configuration des pédales des chariots de manutention
automoteurs à conducteurs assis — Règles de construction et de
configuration des pédales*

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Reference number
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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established 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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 21281 was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 150, *Industrial trucks — Safety*, in collaboration with Technical Committee ISO/TC 110, *Industrial trucks*, Subcommittee SC 2, *Safety of powered industrial trucks*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

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ISO 21281:2005(E)**Introduction**

The use of industrial trucks differs essentially from that of road vehicles, which are mainly driven in the forward direction. Industrial trucks, especially forklift trucks as working machines, have

- a high share of movement in the backward direction,
- frequent change of direction of movement, and
- relatively low speed.

They often are used with attachments. According to the specific requirements, industrial trucks are equipped with optimized controls. In certain types of driving units (e.g. hydrostatic, electrical), the driving mechanism also acts as a brake.

This International Standard covers the most frequently used pedal layouts. Other pedal arrangements for travelling are possible provided that the new ergonomic results are considered.

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Construction and layout of pedals of self-propelled sit-down rider-controlled industrial trucks — Rules for the construction and layout of pedals

1 Scope

This International Standard specifies the layout of pedals of self-propelled sit-down rider-controlled industrial trucks, as defined in Parts 1, 2, 3 and 6 of ISO 3691.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 3691-1:—¹⁾, *Industrial trucks — Safety requirements and verification — Part 1: Self-propelled industrial trucks, other than driverless, variable-reach trucks and burden-carrier trucks*

ISO 3691-2, *Industrial trucks — Safety requirements and verification — Part 2: Self-propelled variable-reach trucks*

ISO 3691-3, *Industrial trucks — Safety requirements and verification — Part 3: Additional requirements for trucks with elevating operator position and trucks specifically designed to travel with elevated loads*

ISO 3691-6, *Industrial trucks — Safety requirements and verification — Part 6: Burden and personnel carriers*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

NOTE The forward direction of travel is defined in ISO 3691-1:—, Annex A.

3.1

pedal

exclusively foot-operated control

3.2

service brake pedal

pedal controlling the service brake

3.3

clutch pedal

pedal controlling the engagement of the engine to the transmission

NOTE The final movement may also apply the service brakes.

1) To be published. (Revision of ISO 3691:1980)