

Safety of industrial trucks - Pedestrian propelled
industrial platform trucks

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 1757:2022 sisaldab Euroopa standardi EN 1757:2022 ingliskeelset teksti.	This Estonian standard EVS-EN 1757:2022 consists of the English text of the European standard EN 1757:2022.
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English Version

Safety of industrial trucks - Pedestrian propelled industrial platform trucks

Sécurité des chariots de manutention - Chariot de manutention à plateforme à propulsion manuelle

Sicherheit von Flurförderzeugen - Mitgängerbetriebene Plattformwagen

This European Standard was approved by CEN on 27 March 2022.

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European foreword

This document (EN 1757:2022) has been prepared by Technical Committee CEN/TC 150 “Industrial trucks - Safety”, the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by November 2022, and conflicting national standards shall be withdrawn at the latest by November 2022.

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

This document supersedes EN 1757-3:2002.

In comparison with the previous edition, the following technical modifications have been made:

- application changed to pedestrian propelled industrial platform trucks as defined in 3.1 with a rated capacity up to and including 500 kg (in the previous edition 1 000 kg);
- example given for trucks that are intended to be towed by powered vehicles;
- reference made to EN ISO 3691-1:2015¹ and ISO 5053-1;
- definition 3.1 and 3.2 revised;
- definition 3.5 (operator) deleted;
- minimum span of tiller changed into 200 mm for each hand (alignment with EN ISO 3691-5);
- Bibliography updated.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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

¹ As impacted by EN ISO 3691-1:2015/A1:2020.

Introduction

This document is a Type-C standard as stated in EN ISO 12100.

This document is of relevance, in particular, for the following stakeholder groups representing the market players with regard to machinery safety:

- machine manufacturers (small, medium and large enterprises);
- health and safety bodies (regulators, accident prevention organizations, market surveillance, etc.).

Others can be affected by the level of machinery safety achieved with the means of the document by the above-mentioned stakeholder groups:

- machine users/employers (small, medium and large enterprises);
- machine users/employees (e.g. trade unions, organizations for people with special needs);
- service providers, e.g. for maintenance (small, medium and large enterprises);
- consumers (in case of machinery intended for use by consumers).

The above-mentioned stakeholder groups have been given the possibility to participate at the drafting process of this document.

The machinery concerned and the extent to which hazards, hazardous situations or hazardous events are covered are indicated in the Scope of this document.

When requirements of this type-C standard are different from those which are stated in type-A or type-B standards, the requirements of this type-C standard take precedence over the requirements of the other standards for machines that have been designed and built according to the requirements of this type-C standard.

1 Scope

This document applies to pedestrian propelled industrial platform trucks as defined in 3.1 with a rated capacity up to and including 500 kg, hereinafter referred to as “trucks” and designed for general purposes.

This document does not apply to:

- shopping trolleys referred to in EN 1929, Parts 1 to 4 and 7 (CEN/TC 291);
- roll containers referred to in EN 12674, Parts 1 to 4 (CEN/TC 261);
- trucks that are intended to be towed by powered vehicles, e.g. milk-run-trains/trailer trains/tugger trains.

This document deals with the technical requirements to minimize the hazards listed in Annex C which can arise during commissioning, operation and maintenance of trucks when carried out in accordance with the specifications as intended by the manufacturer.

This document does not specify the additional requirements for:

- operation in severe conditions (e.g. extreme environmental conditions such as: freezer applications, high temperatures, corrosive environment);
- operation subject to special rules (e.g. potentially explosive atmospheres);
- handling of loads the nature of which could lead to dangerous situations (e.g. molten metal, acids/alkalis, radiating materials, especially brittle loads);
- hazards occurring during construction, transportation, decommissioning and disposal;
- direct contact with foodstuffs;
- operation on gradients or on surfaces other than smooth, level, hard surfaces;
- trucks designed for special applications (e.g., trucks used in hospitals as dinner trollies);
- trucks fitted with hinged or sliding doors.

Other possible limitations of the scope of other standards referred to that also apply to this document.

Hazards relating to noise, vibration, visibility and static electricity are not dealt with in this document.

This document applies to trucks manufactured after the date of issue.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

EN ISO 3691-1:2015,¹ *Industrial trucks - Safety requirements and verification - Part 1: Self-propelled industrial trucks, other than driverless trucks, variable-reach trucks and burden-carrier trucks (ISO 3691-1:2011, including Cor 1:2013)*

EN 12532, *Castors and wheels - Castors and wheels for applications up to 1,1 m/s (4 km/h)*

ISO 5053-1, *Industrial trucks — Vocabulary — Part 1: Types of industrial trucks*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 5053-1 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

3.1

pedestrian propelled industrial platform truck

industrial truck with at least 3 wheels on at least 2 axles and fitted with a non-lifting load-carrying platform and possibly with one or several shelves, designed to be manually pushed, pulled and steered by a pedestrian operator by means of a bar or tiller handle to move loads from one place to another one on a smooth, level, hard surface

3.2

rated capacity

load in kilograms given by the manufacturer, which is defined for a load uniformly and equally distributed over the load carrying platform and the shelves if any

3.3

intended operating position

position in which the operator can control all operational functions as intended by the manufacturer

3.4

intended operation

use for which the truck is designed according to the manufacturer's instructions