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Standards

Irish Standard  
I.S. EN 17314:2020

# Industrial trucks - Specifications and test methods - Operator restraint systems other than lap-type seat belts

**I.S. EN 17314:2020**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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## National Foreword

I.S. EN 17314:2020 is the adopted Irish version of the European Document EN 17314:2020, Industrial trucks - Specifications and test methods - Operator restraint systems other than lap-type seat belts

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EUROPEAN STANDARD

EN 17314

NORME EUROPÉENNE

EUROPÄISCHE NORM

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English Version

## Industrial trucks - Specifications and test methods - Operator restraint systems other than lap-type seat belts

Chariots de manutention - Spécifications et méthodes  
d'essai - Systèmes de retenue de l'opérateur autres que  
les ceintures de sécurité ventrales

Flurförderzeuge - Spezifikationen und Prüfverfahren -  
Andere Rückhaltesysteme für den Bediener als  
Beckengurte

This European Standard was approved by CEN on 13 October 2019.

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## EN 17314:2020 (E)

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## **European foreword**

This document (EN 17314:2020) 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of an identical text or by endorsement, at the latest by July 2020, and conflicting national standards shall be withdrawn at the latest by July 2020.

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## **EN 17314:2020 (E)**

### **Introduction**

This European Standard is a type C standard as stated in EN ISO 12100:2010. This standard has been prepared to provide one means of conforming to the essential safety requirements of the Machinery Directive and associated EFTA regulations.

The extent to which hazards are covered is indicated in the scope of this standard.

Current progress in the technical state of the art is leading to improvements in the safety of restraint systems for industrial truck operators. This standard provides a procedure for verifying the effectiveness and the robustness of restraint systems, other than lap-type seat belts, to protect truck operator(s) against the risk of lateral ejection from the protective structure during a lateral tip-over. The procedure can be used as a type test as well as an individual test.



## 1 Scope

This document specifies the tests for the verification of restraint systems against the risk of lateral ejection of the operator for:

- counterbalanced lift trucks with centre control, sit down and non-elevating operator position (see EN ISO 3691-1:2015, 4.7.8), with a rated capacity up to and including 10 000 kg;
- tractors as defined in EN 12312-15 (airport ground equipment);
- burden carriers (as defined in ISO 5053-1:2015, 3.25) with a maximum speed of more than 25 km/h with seated operator;
- other types of industrial trucks equipped with such a restraint system.

Counterbalanced lift trucks, tractors and burden carriers are named hereafter as trucks.

NOTE 1 Industrial tractors as defined in ISO 5053-1<sup>1</sup> do not need a restraint system in general.

This document describes type tests for a specific combination of truck and restraint system.

This standard does not cover:

- the risk due to frontal ejection;
- the monitoring of the protective position of the operator restraint system as defined in EN 16307-1:—<sup>2</sup>, 4.16;
- the testing of seat belts.

NOTE 2 The testing of seat belts is covered by ISO 24135-1.

The document is not applicable for the retrofit of trucks with restraint systems.

This document does not give any requirements on the need for a restraint system.

## 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 12312-15, *Aircraft ground support equipment — Specific requirements — Part 15: Baggage and equipment tractors*

EN 16307-1:—<sup>2</sup>, *Industrial trucks — Safety requirements and verification — Part 1: Supplementary requirements for self-propelled industrial trucks, other than driverless trucks, variable-reach trucks and burden-carrier trucks*

EN ISO 3691-1:2015, *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)*

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<sup>1</sup> Under preparation. Stage at the time of publication: ISO/DIS 5053-1.

<sup>2</sup> Under preparation. Stage at the time of publication: prEN 16307-1.

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