

INTERNATIONAL STANDARD

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**E-Transporters –
Part 3-2: Performance test methods for mobility of cargo e-Transporters**

**e-Transporteurs –
Partie 3-2: Méthodes d'essai de performances pour la mobilité des e-
Transporteurs de marchandises**



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E-TRANSPORTERS –

Part 3-2: Performance test methods for mobility of cargo e-Transporters

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The text of this International Standard is based on the following documents:

Draft	Report on voting
125/95/FDIS	125/100/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

A list of all parts in the IEC 63281 series, published under the general title *e-Transporters*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

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INTRODUCTION

At the time of writing of this document, the global market scale of cargo e-Transporters is about US \$ 30 billion, with a wide range of application scenarios, which can meet the needs for short-distance distribution, low-carbon and environmental protection.

However, there is currently no international standard for this kind of product. The mobility of cargo e-Transporters is the key index of their performance, including their maximum speed, maximum climbing angle, maximum climbing speed, turning characteristics, gap detection, narrowest passing width, specific object detection, and typical object detecting distance.

This document specifies the performance criteria and related test methods for cargo e-Transporters.

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E-TRANSPORTERS –

Part 3-2: Performance test methods for mobility of cargo e-Transporters

1 Scope

This document is applicable to electrically powered transport devices for use on public roads or in public spaces and which are primarily designed for transporting cargo ("cargo e-Transporters"). The typical application environment of cargo e-Transporters includes the following: for the purposes of hotels, restaurants, office buildings, hospitals, industrial/recreational parks, public roads, etc.

This document specifies performance criteria and evaluation methods for the mobility of cargo e-Transporters.

This document does not include safety and performance requirements.

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.

IEC 63281-1:2023, *E-Transporters – Part 1: Terminology and classification*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 63281-1 and the following apply.

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- IEC Electropedia available at <https://www.electropedia.org/>
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3.1

cargo e-Transporter

CeT

e-transporter that is primarily designed for transporting cargo or goods, or both

[SOURCE: IEC 63281-1:2023, 3.4]

3.2

rated speed

speed that the CeT can achieve in normal operating conditions with rated load without any degradation of performance according to the specification