
**Industrial trucks — Overhead guards
— Specification and testing**

*Chariots de manutention — Protège-conducteurs — Spécifications et
essais*



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Contents

	Page
Foreword.....	iv
1 Scope.....	1
2 Normative references.....	1
3 Terms and definitions.....	1
4 Requirements for overhead guards on ride-on trucks.....	2
4.1 General.....	2
4.2 Protected area.....	2
4.3 Dimensions.....	3
4.4 Testing.....	4
4.4.1 General.....	4
4.4.2 Dynamic test.....	4
4.4.3 Impact drop test.....	6
4.4.4 Transparent material.....	8
4.4.5 Operators' leg/foot protection test.....	8
4.5 Performance requirements.....	8
5 Requirements for industrial variable-reach trucks with operator position not protected by the boom.....	11
5.1 General.....	11
5.2 Protective structures.....	11
5.3 Dimensions.....	12
5.4 Testing.....	12
5.4.1 General.....	12
5.4.2 Falling objects test.....	12
5.4.3 Overturning test.....	12
6 Information for maintenance.....	12
Bibliography.....	13

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 110, *Industrial trucks*, Subcommittee SC 2, *Safety of powered industrial trucks*.

This fourth edition cancels and replaces the third edition (ISO 6055:2004), which has been technically revised.

The main changes are as follows:

- for stand-on controlled trucks, vertical clearance has been increased, from the platform to the underside of the overhead guard;
- requirements for rough terrain variable-reach trucks have been excluded;
- specifications and test requirements have been added for transparent material used to bridge openings in the top of the overhead guard structure not conforming to [4.3.1](#);
- information for use in relation to the inspection of structure and inspection and care of transparent material has been added.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Industrial trucks — Overhead guards — Specification and testing

1 Scope

This document specifies the requirements and testing of overhead guards, operator's leg(s)/feet protection for industrial trucks and overturning testing of industrial variable-reach trucks with operator position not protected by the boom (hereafter referred to as "trucks") requiring an overhead guard according to ISO 3691-1 and ISO 3691-2.

This document is not applicable to rough-terrain variable-reach trucks and slewing rough-terrain variable-reach trucks.

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.

ISO 3164, *Earth-moving machinery — Laboratory evaluations of protective structures — Specifications for deflection-limiting volume*

ISO 3449, *Earth-moving machinery — Falling-object protective structures — Laboratory tests and performance requirements*

ISO 3471, *Earth-moving machinery — Roll-over protective structures — Laboratory tests and performance requirements*

ISO 3691-1:2011, *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/Amd.1:2020, *Industrial trucks — Safety requirements and verification — Part 1: Self-propelled industrial trucks, other than driverless trucks, variable-reach trucks and burden-carrier trucks — Amendment 1*

ISO 3691-2:2023, *Industrial trucks — Safety requirements and verification — Part 2: Self-propelled variable-reach trucks*

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

ISO 5353, *Earth-moving machinery, and tractors and machinery for agriculture and forestry — Seat index point*

ISO 13564-1:2012, *Powered industrial trucks — Test methods for verification of visibility — Part 1: Sit-on and stand-on operator trucks and variable-reach trucks up to and including 10 t capacity*

ISO 16936-1:2020, *Glass in building — Forced-entry security glazing — Part 1: Test and classification by repetitive ball drop*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 5053-1, ISO 3691-1, ISO 3691-2 and ISO 5353 and the following apply.