

INTERNATIONAL STANDARD

ISO 24134

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Industrial trucks — Additional requirements for automated functions on trucks

*Chariots de manutention — Exigences supplémentaires pour les
fonctions automatiques des chariots*



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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 24134 was prepared by Technical Committee ISO/TC 110, *Industrial trucks*, Subcommittee SC 2, *Safety of powered industrial trucks*.

ISO 24134 is based on EN 1526:1997 and ASME B56.5A-1994:Part IV.

Industrial trucks — Additional requirements for automated functions on trucks

1 Scope

This International Standard specifies the safety requirements for controls and control systems for the following automated functions of industrial trucks:

- steering (excluding direct mechanical guidance);
- travel;
- lifting and lowering operations;
- load manipulations, e.g. rotation, reach, slewing, tilting, clamping;
- combination and/or sequence of the above movements.

NOTE The control system is generally part of the truck but can include components external to the truck, e.g. the means of guidance for automated steering.

This International Standard is intended for use in conjunction with one or more of the applicable parts of ISO 3691.

This International Standard is not applicable to, and does not include, requirements for the following:

- safety equipment (e.g. devices for height limitation, speed limitation) used to override operator control;
- operation in severe conditions (e.g. extreme climates, freezer applications, strong magnetic fields);
- operation in environments subject to special rules (e.g. potentially explosive atmospheres);
- electromagnetic compatibility;
- transportation of passengers;
- handling of loads, the nature of which could lead to dangerous situations (e.g. molten metals, acids/bases, radiating materials).

Limitations in the scopes of the applicable parts of ISO 3691 also apply to this International Standard.