
**Fork-lift trucks — Fork-arm extensions and
telescopic fork arms — Technical
characteristics and strength requirements**

*Chariots élévateurs à fourche — Extensions de bras de fourche et bras de
fourche télescopiques — Caractéristiques techniques et prescriptions de
résistance*



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Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

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 International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 13284 was prepared by Technical Committee ISO/TC 110, *Industrial trucks*, Subcommittee SC 2, *Safety of powered industrial trucks*.

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Introduction

This International Standard was developed in response to worldwide demand for specifications for fork-arm extensions and telescopic fork arms.

Fork-arm extensions are used as an economic means of extending the effective blade length of fork arms on fork-lift trucks. They are available with either a closed rectangular cross-section or an open inverted-channel cross-section.

Where possible, preference should be given to using a longer fork rather than an extension. If extensions have to be used, preference should be given to the closed cross-section rather than an open type of extension.

Telescopic fork arms replace standard fork arms and provide the truck operator with the means of adjusting the fork-arm blade length. They are available either as simple variable-length fork arms for handling loads of varying dimensions or, alternatively, for reaching out or retracting palletized loads in double-deep stacking and destacking operations.

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Fork-lift trucks — Fork-arm extensions and telescopic fork arms — Technical characteristics and strength requirements

1 Scope

This International Standard specifies technical characteristics and strength requirements for fork-arm extensions and telescopic fork arms for fork-lift trucks. It applies to fork-arm extensions and telescopic fork arms designed for use on stacking lift trucks, as defined in ISO 5053, having fork-arm carriers and, in the case of fork-arm extensions, hook-on fork arms conforming to ISO 2330.

This International Standard does not apply to integral transverse telescopic fork devices or scissor-action reach devices.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 2330:2002, *Fork-lift trucks — Fork arms — Technical characteristics and testing*

ISO 3691, *Powered industrial trucks — Safety code*

ISO 5053, *Powered industrial trucks — Terminology*

3 Terms and definitions

For the purposes of this International Standard, the following terms and definitions apply.

3.1

parent fork arm

fork arm having the rated capacity at the rated load centre distance, blade length and blade cross-section for which a fork-arm extension is specifically designed

3.2

test load

F_{EX} and F_T

applied load for verifying the strength of fork-arm extension and telescopic fork arms by physical testing or calculation

4 Symbols

- b Fork arm blade width (mm)
- C Rated capacity of each parent fork arm (kg)
- C_E Rated capacity of each fork-arm extension (kg)