

Australian Standard<sup>®</sup>

**Powered industrial trucks**

**Part 9: Overhead guards—Specification  
and testing (ISO 6055:2004, MOD)**



This Australian Standard® was prepared by Committee ME-026, Industrial Trucks. It was approved on behalf of the Council of Standards Australia on 15 November 2006. This Standard was published on 28 December 2006.

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  - Australian Electrical and Electronic Manufacturers Association
  - Australian Industrial Truck Association
  - Australian Industry Group
  - Australian Retailers Association
  - Construction and Mining Equipment Association of Australia
  - Department of Consumer & Employment Protection, WorkSafe Division W.A.
  - Hire and Rental Industry Association of Australia
  - Safety Institute of Australia (Incorporated)
  - Victorian WorkCover Authority
  - WorkCover New South Wales
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Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through public comment period.

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**RECONFIRMATION**

**OF**

**AS 2359.9—2006**

**Powered industrial trucks**

**Part 9: Overhead guards—Specification and testing (ISO 6055:2004, MOD)**

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**RECONFIRMATION NOTICE**

Technical Committee ME-026 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

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## NOTES

Australian Standard<sup>®</sup>

## Powered industrial trucks

### Part 9: Overhead guards—Specification and testing (ISO 6055:2004, MOD)

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## PREFACE

This Standard was prepared by the Standards Australia Committee ME-026, Industrial Trucks to supersede AS 2359.9—1995, *Powered industrial trucks, Part 9: High-lift rider trucks—Overhead guards—Specification and testing*. This Standard has been adopted with national modifications and has been reproduced from ISO 6055:2004, *Industrial trucks—Overhead guards—Specification and testing*. Additional requirements for Australia are given in Appendix ZZ.

This Standard is Part 9 of AS 2359, *Powered industrial trucks*, which is published in part as follows:

- Part 1: General requirements
- Part 2: Operation
- Part 3: Counterbalanced fork-lift trucks—Stability tests
- Part 4: Reach and straddle fork-lift trucks—Stability tests
- Part 5: Symbols for operator controls and other displays
- Part 6: Safety code
- Part 7: Terminology
- Part 8: Pallet stackers and high-lift platform trucks—Stability tests
- Part 9: Overhead guards—Specification and testing (this Standard)
- Part 10: Hook-on type fork arms—Vocabulary
- Part 11: Hook-on type fork arms and fork carriers—Mounting dimensions
- Part 12: Hazardous areas
- Part 13: Brake performance and component strength
- Part 14: Fork arms—Technical characteristics and testing
- Part 15: Fork arm extensions and telescopic fork arms—Technical characteristics and strength requirements
- Part 16: Safety signs and hazards pictorials—General principals

The objective of this revision is to align this Standard with current ISO Standard.

As this Standard is reproduced from an International Standard, the following applies:

- (a) *Terminology* The words ‘this Australian Standard’ should replace the words ‘this International Standard’ whenever they appear.
- (b) *Decimal comma* The decimal point should replace the decimal comma wherever it appears.

References to international Standards should be replaced by references, where appropriate, to the following Australian Standards:

<i>Reference to International Standard</i>		<i>Australian Standard</i>	
ISO		AS	
3164	Earth-moving machinery— Laboratory evaluations of protective structures—Specifications for deflection-limiting volume	2294 2294.4	Earth-moving machinery Part 4: Protective structures— Specifications for deflection- limiting volume
3449	Earth-moving machinery—Falling- object protective structures— Laboratory tests and performance requirements	2294.3	Part 3: Protective structures— Laboratory tests and performance requirements for falling-object protective structures
3471	Earth-moving machinery—Roll-over protective structures—Laboratory tests and performance requirements	2294.2	Part 2: Protective structures— Laboratory tests and performance requirements for roll-over protective structures

Only international references that have been adopted as Australian or Australian/New Zealand Standards have been listed.

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## AUSTRALIAN STANDARD

**Powered industrial trucks****Part 9:****Overhead guards—Specification and testing (ISO 6055:2004, MOD)****1 Scope**

This International Standard specifies the requirements and testing of overhead guards, operators' legs and feet protection, roll-over protection system (ROPS) and falling-object protection system (FOPS) for any type of high lift, rider operated, powered industrial truck with a lift height exceeding 1 800 mm.

**2 Normative references**

The following referenced documents are indispensable for the application 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, *Powered industrial trucks — Safety code*

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

ISO 13564-1, *Powered industrial trucks — Test methods for verification of visibility — Part 1: Sit-on and stand-on operator trucks and variable reach trucks*

**3 Requirements for high lift rider trucks with lift height exceeding 1 800 mm****3.1 Introduction**

This section applies to trucks fitted with masts and variable reach trucks where the operator position is protected by the boom, i.e. the mast or boom prevents the truck from tipping more than a nominal 90°.

**3.2 General**

**3.2.1** The overhead guard shall extend over the operator when in the normal operating position(s) as defined in ISO 3691 and when the operator is operating the controls as provided by the truck manufacturer. For overhead guards fixed to the mast, this also applies when the mast is inclined.

The control levers in their neutral position, the pedals in their released condition and the steering wheel are considered protected if they do not project in the direction of the mast more than 150 mm beyond the vertical projection of the outline of the overhead guard onto a horizontal plane; see Figure 1. Adjustable steering wheels for the driving mode shall be placed in the centre position. No account is taken of the parking brake lever in its foremost position in relation to the mast.