

Australian Standard™

**Powered industrial trucks**

**Part 14: Fork arms—Technical  
characteristics and testing**



This Australian Standard was prepared by Committee ME-026, Industrial Trucks. It was approved on behalf of the Council of Standards Australia on 23 June 2005. This Standard was published on 4 August 2005.

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Australian Chamber of Commerce and Industry  
Australian Council of Trade Unions  
Australian Electrical and Electronic Manufacturers Association  
Australian Industrial Truck Association  
Australian Industry Group  
Construction and Mining Equipment Association of Australia  
Department of Consumer & Employment Protection, WorkSafe Division W.A.  
Safety Institute of Australia (Incorporated)  
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STANDARDS AUSTRALIA

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**RECONFIRMATION**

**OF**

**AS 2359.14—2005**

**Powered industrial trucks**

**Part 14: Fork arms—Technical characteristics and testing**

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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

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## PREFACE

This Standard was prepared by the Standards Australia Committee ME-026, Industrial Trucks.

It is identical with and has been reproduced from ISO 2330:2002, *Fork-lift trucks—Fork arms—Technical characteristics and testing*.

This Standard is Part 14 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: High-lift rider trucks—Overhead guards—Specification and testing
- Part 10: Fork-lift trucks—Hook-on type fork arms—Vocabulary
- Part 11: Fork-lift trucks—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 (this Standard)
- Part 15: Fork arm extension and telescopic fork arms—Technical characteristics and strength requirements
- Part 16: Safety signs and hazard pictorials—General principles
- Part 17: Stability tests for rough terrain trucks
- Part 18: Stability tests for industrial variable-reach trucks
- Part 19: Additional stability tests for industrial variable-reach trucks handling freight containers of length 6 m and above

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(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	
2331	Fork-lift trucks—Hook-on type fork arms—Vocabulary	2359	Powered industrial trucks
		2359.10	Part 10: Fork-lift trucks—Hook-on type fork arms—Vocabulary
2328	Fork-lift trucks—Hook-on type fork arms and fork carriers—Mounting dimensions	2359.11	Part 11: Fork-lift trucks—Hook-on type fork arms and fork carriers—Mounting dimensions

NOTES

## AUSTRALIAN STANDARD

# Powered industrial trucks

## Part 14: Fork arms—Technical characteristics and testing

### 1 Scope

This International Standard specifies manufacturing, testing and marking requirements for solid-section fork arms, for quantity production and with all types of mounting. These include, but are not limited to, hook, shaft or pin, bolt-on and roller type fork arms.

By agreement between the fork arm manufacturer and the purchaser, these requirements may also be applied to fork arms not intended for quantity manufacture.

### 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 148:1983, *Steel — Charpy impact test (V-notch)*

ISO 683-1:1987, *Heat-treatable steels, alloy steels and free-cutting steels — Part 1: Direct-hardening unalloyed and low-alloyed wrought steel in form of different black products*

ISO 2328:1993, *Fork-lift trucks — Hook-on type fork arms and fork arm carriages — Mounting dimensions*

ISO 2331:1974, *Fork lift trucks — Hook-on type fork arms — Vocabulary*

### 3 Terms and definitions

For the purposes of this International Standard, the terms and definitions given in ISO 2331 and the following apply.

#### 3.1

##### **prototype fork arm**

fork arm intended for quantity production where any combination of the blade, shank cross-section, material specification, hook or fork heel design is new to production

### 4 Manufacture

The fork arms shall be manufactured from material of solid cross-section.

### 5 Testing

**5.1** A prototype fork arm shall be subjected to, and meet the requirements of, the yield test in clause 6 and the impact test in clause 7.