

Australian Standard™

**Cranes, hoists and winches**

**Part 6: Guided storing and retrieving  
appliances**

This Australian Standard was prepared by Committee ME-005, Cranes. It was approved on behalf of the Council of Standards Australia on 30 June 2004. This Standard was published on 2 September 2004.

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STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 1418.6-2004

Cranes, hoists and winches

Part 6: Guided storing and retrieving appliances

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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee ME-005, Cranes, to supersede AS 1418.6—1988.

The 1988 edition was reviewed by the Committee, and it was found to be technically valid. Hence, this edition does not include technical alterations to the 1988 edition; however, the referenced documents have been updated, and editorial changes have been made to align with current Standards Australia policy.

This Standard covers specific requirements for guided storing and retrieving appliances and is intended for use in conjunction with AS 1418.1, *Cranes, hoists and winches, Part 1: General requirements*; however, requirements given herein take precedence over corresponding requirements of that Standard. Because of the complexity of the range of this family of equipment this Standard is at present restricted to the types designated as shown in Appendix A.

Where a total storing and retrieving system of appliances and racking is established and a variation to any element of the system, including the appliance(s), is required, a complete review of the total storing and retrieving system is to be made to ensure that it complies with all the requirements of this Standard. It should be noted that there are a number of racking systems, namely—

- (a) appliances with freestanding racking;
- (b) appliances with rack-clad buildings or shelf-clad buildings;
- (c) appliances with freestanding shelving; and
- (d) appliances with mobile racking.

All these systems are subject to regulations applied in accordance with Machinery Acts, Shop and Factory Acts, and with Local Government Acts relating to fire protection.

The term 'informative' has been used in this Standard to define the application of the appendix to which it applies. An informative appendix is only for information and guidance.

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STANDARDS AUSTRALIA

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Part 6: Guided storing and retrieving appliances

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SECTION 1 SCOPE AND GENERAL

### 1.1 SCOPE

This Standard sets out requirements for guided storing and retrieving appliances of the storage and retrieval machine and universal stacker crane types as defined in AS 2549, for appliances intended to carry out similar functions, and for the interface between the elements of the total system, e.g., racking and the appliances. It does not apply to narrow aisle storage and retrieval machines of the top support bottom guided type, storage and retrieval trucks and industrial trucks complying with AS 2359, and gravity flow systems.

#### NOTES:

- 1 A chart showing types of guided storing and retrieving appliances within the scope of this Standard is given in Appendix A.
- 2 A guided storing and retrieving appliance may be referred to herein as ‘(an) (the) appliance’.

### 1.2 APPLICATION

Guided storing and retrieving appliances shall comply with the appropriate sections of this Standard.

This Standard is complementary to AS 1418.1, but the requirements given herein take precedence over corresponding requirements in that Standard.

### 1.3 REFERENCED DOCUMENTS

The documents below are referred to in this Standard.

AS	
1359	Rotating electrical machines—General requirements (all parts)
1360	Rotating electrical machines of particular types or for particular applications
1418	Cranes hoists and winches
1418.1	Part 1: General requirements
1418.2	Part 2: Cranes (including hoists and winches)—Serial hoists and winches
1418.3	Part 3: Bridge and gantry cranes
1522	Short pitch transmission precision roller chains and chain wheels
1657	Fixed platforms, walkways, stairways and ladders—Design, construction and installation
1663	Method for dropweight test nil-ductility transition temperature of ferritic steels
2152	Rivetless chain, trolleys and trolley attachments
2359	Powered industrial trucks (all parts)
2549	Cranes (including hoists and winches)—Glossary of terms
2752	Preferred numbers and their use
2759	Steel wire rope—Application guide