

Australian Standard™

**Cranes, hoists and winches**

**Part 3: Bridge, gantry, portal (including  
container cranes) and jib cranes**

This Australian Standard was prepared by Committee ME-005, Cranes. It was approved on behalf of the Council of Standards Australia on 19 September 1997 and published on 5 December 1997.

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The following are represented on Committee ME-005:

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Australian Chamber of Commerce and Industry  
Australian Elevator Association  
Australian Institute for Non-Destructive Testing  
Bureau of Steel Manufacturers of Australia  
Construction and Mining Equipment Association of Australia  
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## Cranes, hoists and winches

### Part 3: Bridge, gantry, portal (including container cranes) and jib cranes

Originated as part of AS CB2—1938.  
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## PREFACE

This edition of this Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee ME/5, Cranes, to supersede AS 1418.3—1990.

This Standard is a result of consensus among representatives of the Joint Committee to produce it as an Australian Standard.

*This Standard incorporates Amendment No. 1 (Sept. 1998) and No. 2 (June 2002). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.*

This edition incorporates the following changes:

- (a) The format has been revised in accordance with Standard Australia's procedures.
- (b) The content has been amended to allow for the new edition of AS 1418.1, *Cranes (including hoists and winches)* Part 1: *General requirements*, published in 1994, and for ISO developments.
- (c) An appendix has been added showing clearances required between the cranes and fixed elements.
- (d) The appendix on 'Statutory Approval' has been removed in response to the changing role of regulatory organizations.
- (e) Items specific to safe use issues have been removed. These will be included in a dedicated part of AS 2550, *Safe use of cranes*.
- (f) Editorial changes.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendix to which they apply. A 'normative' appendix is an integral part of a Standard, whereas an 'informative' appendix is only for information and guidance.

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STANDARDS AUSTRALIA

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**Australian Standard**

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A2

Part 3: Bridge, gantry, portal (including container cranes) and jib cranes

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SECTION 1 SCOPE AND GENERAL

### 1.1 SCOPE

This Standard sets out requirements for bridge, gantry, semi-gantry, and portal cranes defined in AS 2549. It also covers container and heavy-duty cranes.

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

NOTES:

- 1 Guidance on information to be supplied with enquiry, order, or tender is given in Appendix A.
- 2 Additional requirement for heavy duty cranes are given in AS 1418.14.

### 1.2 NEW DESIGN AND INNOVATIONS

This Standard does not preclude the use of materials, designs, methods of assembly, procedures and the like which do not comply with a specific requirement of the Standard, or are not mentioned in it, but which can be shown to give equivalent or superior results to those specified.

### 1.3 APPLICATION

Cranes using fixed platforms for servicing shall comply with Sections 1 to 6 and 8 to 13 inclusive. Cranes using mobile platforms for servicing shall comply with Sections 1 to 5 and 7 to 13 inclusive.

NOTE: Throughout this Standard the 'servicing' implies routine servicing only (i.e. does not include crane breakdowns).

### 1.4 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS	
1000	The International System of Units (SI) and its application
1318	Use of colour for the marking of physical hazards and the identification of certain equipment in industry (known as the SAA Industrial Safety Colour Code)
1418	SAA Crane Code
1418.1	Part 1: General requirements
1418.10	Part 10: Elevating work platforms
1418.14	Part 14: Cranes subject to arduous working duties
1576	SAA Metal Scaffolding Code
1657	SAA Code for fixed platforms, walkways, stairways, and ladders



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