

Australian Standard®

SAA Crane Code

**Part 5: Mobile, vehicle-loading and
vehicle-tow cranes**

This Australian Standard was prepared by Committee ME/5, Cranes. It was approved on behalf of the Council of Standards Australia on 14 November 1989 and published on 9 February 1990.

The following interests are represented on Committee ME/5:

Aluminium Development Council
Association of Consulting Engineers, Australia
Australian Crane Marketers Association
Australian Institute of Building
Bureau of Steel Manufacturers of Australia
Confederation of Australian Industry
Construction Equipment Importers and Manufacturers of Australia
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This Standard was issued in draft form for comment as DR 89001.

Australian Standard®

Cranes (including hoists and winches) (known as the SAA Crane Code)

Part 5: Mobile, vehicle-loading and vehicle-tow cranes

First published as part of AS 1418.5—1980. Second edition 1985. Third edition 1990.
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PREFACE

This Standard was prepared by the Standards Australia Committee on Cranes, to supersede AS 1418.5, *SAA Crane Code*, Part 5—1985: *Mobile and vehicle-loading cranes*.

This edition is technically equivalent to the 1985 edition, but incorporates the following changes:

- (a) The scope has been expanded to include vehicle-tow cranes, thus causing a change to the title and appropriate clauses as well as the addition of new clauses and a new appendix.
- (b) Requirements of load rating in special duties have been included.
- (c) Requirements for cranes provided with cabin air-conditioning have been added.
- (d) Editorial changes to align with current Standards Australia policy.

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STANDARDS AUSTRALIA

Australian Standard
Cranes (including hoists and winches)

Part 5: Mobile, vehicle-loading, and vehicle-tow cranes

SECTION 1. SCOPE AND GENERAL

1.1 SCOPE. This Standard sets out requirements for mobile cranes, and vehicle-loading cranes, as defined in AS 2549, and vehicle-tow cranes.

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

Requirements specific to vehicle-tow cranes are given in Appendix G.

NOTES:

1. Guidance on information to be supplied with enquiry, order and tender is given in Appendix A.
2. Guidance on the selection and operation of cranes is given in AS 2550.
3. Guidance on documentary information to accompany calculations derived from computer programs is given in Appendix D.
4. Throughout this Standard the word 'crane' implies any of the three types covered by this Standard, except where a type is specifically named.

1.2 REFERENCED DOCUMENTS. The following documents are referred to in this Standard:

AS

- 1138 Thimbles for use with wire rope or fibre (natural or synthetic) rope
- 1418 SAA Crane Code
- 1418.1 Part 1: General requirements
- 1504 Fibre rope—Three-strand, hawser laid
- 1656 Steel wire ropes (other than for mining purposes)

- 1666 Wire-rope slings
- 2076 Wire rope grips
- 2230 New pneumatic highway tyres other than passenger car tyres
- 2318 Swivels
- 2319 Rigging screws and turnbuckles
- 2549 Cranes—Glossary of terms
- 2550 Cranes—Mobile, tower and derrick—Selection and operation
- 2740 Wedge-type sockets
- 2741 Shackles
- B291 Lifting rings and links

ANSI

- B29.8 Leaf chains, clevises and sheaves

1.3 DEFINITIONS. For the purposes of this Standard, the definitions given in AS 2549, and those below apply.

1.3.1 Dolly—a wheeled device attached to the boom to carry portion of the boom mass while the unloaded crane is in transit.

1.3.2 Vehicle-tow crane—a vehicle with a lifting mechanism designed to hoist and suspend motor vehicles from the boom/jib head.