

Australian Standard™

**Cranes, hoists and winches**

**Part 5: Mobile cranes**

This Australian Standard was prepared by Committee ME-005, Cranes. It was approved on behalf of the Council of Standards Australia on 11 July 2002. This Standard was published on 15 October 2002.

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The following are represented on Committee ME-005:

Association of Consulting Engineers Australia  
Australian Elevator Association  
Australian Industry Group  
Australian Institute for Non-destructive Testing  
Bureau of Steel Manufacturers of Australia  
Construction and Mining Equipment Association of Australia  
Crane Industry Council of Australia  
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**Cranes, hoists and winches**

**Part 5: Mobile cranes**

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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee ME-005, Cranes, to supersede AS 1418.5—1995, *Cranes (including hoists and winches) Part 5: Mobile and vehicle-loading cranes*.

*This Standard incorporates Amendment No. 1 (August 2004). 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.*

After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

The objective of this Standard is to set out requirements for the design of mobile cranes for reference by mobile crane designers, users and regulators.

This edition incorporates the following changes:

- (a) Requirements for earth moving equipment used as cranes and side boom pipelayers have been removed from the scope of this document and have been added to the scope of AS 1418.8 by amendment.
- (b) It is intended that requirements for vehicle-mounted loading cranes will appear in a separate part of AS 1418. All requirements pertaining hereto have been moved to Section 13, which will be superseded by the new Part when it is published.

Reference is made in Clause 9.4 to ISO 4305:1991 giving an allowable alternative for static stability test loads. Reference to a Standard without a date means that the latest Standard is referenced at the time of reading, however, in this case, where this alternative is chosen, the 1991 version of ISO 4305 is to be used.

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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**Australian Standard**  
**Cranes, hoists and winches**

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Part 5: Mobile cranes

SECTION 1 SCOPE AND GENERAL

**1.1 SCOPE**

<sup>A1</sup> This Standard specifies requirements for mobile cranes, as defined in AS 1418.1. It is complementary to AS 1418.1, but the requirements given herein take precedence over the corresponding requirements in AS 1418.1.

NOTES:

- 1 Guidance on the selection, safe use and repair of mobile cranes is given in AS 2550.1 and AS 2550.5
- 2 Throughout this Standard the word ‘crane’ implies any of the types of cranes covered by this Standard, except where a type is specifically excluded.

**1.2 REFERENCED DOCUMENTS**

The following documents are referred to in this Standard.

AS

1418	Cranes, hoists and winches
1418.1	Part 1: General requirements
1554	Structural steel welding
1554.1	Part 1: Welding of steel structures
2549	Cranes (including hoists and winches)—Glossary of terms
2550	Cranes, hoists and winches—Safe use
2550.1	Part 1: General requirements
2550.5	Part 5: Mobile and vehicle-loading cranes

AS/NZS

2230	Pneumatic tyres—Light truck and truck/bus
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ISO

4305	Mobile cranes—Determination of stability
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<sup>A1</sup> 4310 Cranes—Test codes and procedures

7296 Cranes—Graphical symbols

7296-2 Part 2: Mobile cranes

7752 Lifting appliances—Controls—Layout and characteristics

7752-1 Part 1: General principles

7752-2 Part 2: Basic arrangement and requirements for mobile cranes

8566 Cranes—Cabins

8566-2 Part 2: Mobile cranes

11660 Cranes—Access guards and restraints

11660-2 Part 2: Mobile cranes

ANSI/ASME

B29.8 Leaf chains, clevises and sheaves