



**Cranes, hoists and winches—Safe use**

**Part 5: Mobile cranes**

**STANDARDS**  
Australia

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This Australian Standard® was prepared by Committee ME-005, Cranes. It was approved on behalf of the Council of Standards Australia on 31 August 2016.  
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- Australian Institute for Non-Destructive Testing
- Bureau of Steel Manufacturers of Australia
- Concrete Pumping Association of Australia
- Crane Association of New Zealand
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This Standard was issued in draft form for comment as DR AS 2550.5:2016.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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Australian Standard®

**Cranes, hoists and winches — Safe use**

**Part 5: Mobile cranes**

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## PREFACE

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee ME-005, Cranes, to revise AS 2550.5—2002, *Cranes, hoists and winches—Safe use, Part 5: Mobile cranes*. 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 ensure AS 1418.5 design requirements align with the *Work Health and Safety Act 2011* and the practices and safe use of mobile cranes.

Significant changes in this edition include the expansion of the requirements and guidance for maintenance, inspection and repair, and inclusion of guidance on dual hoist lifting.

This Standard is part of a series that provides uniform requirements and guidance for the safe use of cranes, including building maintenance units, hoists and winches.

Standards Australia uses the term ‘shall’ to indicate requirements that have to be met to be in compliance with the Standard in question. Compliance with this Australian Standard is not required by legislation in any Australian jurisdiction, unless the Standard has been specifically incorporated by an Act of regulation in the jurisdiction.

The Commonwealth, state and territory governments may choose to incorporate this Australian Standard into their work health and safety regulations. The exact manner of incorporation will determine whether the whole document is incorporated or whether specific sections or provisions of this Standard are incorporated. The manner of incorporation will determine which of the Standard’s requirements (‘shall’ statements) have been made a legal requirement in a jurisdiction. As a general principle, where an Australian Standard is incorporated by a regulation, the legal status of the Standard’s requirements and recommendations is made clear by the incorporation provisions of the regulation.

Jurisdictions may also choose to incorporate this Australian Standard (either in whole or in part) in an approved code of practice made under WHS law. The purpose of the approved code of practice is to provide practical guidance to persons on how to comply with their obligations under the enabling WHS Act, or regulations made under the Act.

Readers will need to refer to their jurisdiction’s approved codes of practice to determine which parts of this Australian Standard (if any) have been incorporated into codes of practice and the manner of incorporation.

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.

Published standards in the series are as follows:

AS	
2550	Cranes, hoists and winches—Safe use
2550.1	Part 1: General requirements
2550.3	Part 3: Bridge, gantry, portal (including container cranes) and jib cranes
2550.4	Part 4: Tower cranes
2550.5	Part 5: Mobile cranes (this Standard)
2550.6	Part 6: Guided storing and retrieving appliances
2550.7	Part 7: Builders’ hoists and associated equipment
2550.10	Part 10: Mobile elevating work platforms
2550.11	Part 11: Vehicle-loading cranes
2550.13	Part 13: Building maintenance units
2550.15	Part 15: Concrete placing equipment

## AS

2550.16 Part 16: Mast climbing work platforms

2550.19 Part 19: Telescopic handlers

2550.20 Part 20: Self-erecting tower cranes

## AS/NZS

2550.9 Part 9: Vehicle hoists

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**Australian Standard**

**Cranes, hoists and winches—Safe use**

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Part 5: Mobile cranes

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SECTION 1 SCOPE AND GENERAL

### 1.1 SCOPE

This Standard specifies requirements for the safe use of mobile cranes as defined in AS 2549. It is complementary to AS 2550.1, but requirements given herein take precedence over the corresponding requirements in AS 2550.1.

The requirements in Clause 6.3 are not applicable to electrical supply organizations or their contractors where the electrical supply organization has issued alternative requirements.

The basic terminology and functions of typical mobile cranes are given in Appendix A.

### 1.2 APPLICATION

This Standard shall apply to the safe use of mobile cranes of the type specified in AS 1418.5. The requirements of AS 1418.5 shall apply, and no requirements given herein shall circumvent the requirements of AS 1418.5.

### 1.3 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

#### AS

- |        |   |
|--------|---|
| 1418   | Cranes, hoists and winches                              |
| 1418.5 | Part 5: Mobile cranes                                   |
| 2549   | Cranes (including hoists and winches)—Glossary of terms |
| 2550   | Cranes, hoists and winches—Safe use                     |
| 2550.1 | Part 1: General requirements                            |
| 2759   | Steel wire rope—Use, operation and maintenance          |

3600 Concrete structures

#### AS/NZS

- |      |  |
|------|--|
| 3000 | Electrical installations (known and the Australian/New Zealand Wiring Rules) |
|------|--|

#### ISO

- |         |                 |
|---------|-----------------|
| 12120   | Cranes—Safe use |
| 12180-1 | Part 1: General |

### 1.4 DEFINITIONS

For the purpose of this Standard, the definitions given in AS 1418.5, AS 2549, AS 2550.1 and those below apply.

#### 1.4.1 Competent person

A person who has acquired through training, qualification, experience or a combination of these, the knowledge and skill enabling that person to correctly perform the required task.