

Australian Standard<sup>®</sup>

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

**Part 1: General requirements**



This Australian Standard® was prepared by Committee ME-005, Cranes. It was approved on behalf of the Council of Standards Australia on 19 January 2011.  
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- Australian Industry Group
- Australian Institute for Non-Destructive Testing
- Bureau of Steel Manufacturers of Australia
- Construction and Mining Equipment Industry Group
- Consult Australia
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- WorkCover New South Wales
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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 supersede AS 2550.1—2002, *Cranes, hoists and winches—Safe use, Part 1: General*.

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

The objective of this Standard is to specify general requirements for the safe use of cranes, hoists and winches.

The objective of the AS 2550 series of Standards is to provide uniform requirements and guidance for the safe use of cranes, hoists and winches.

Major changes in this Edition include extensive revision of the inspection and maintenance requirements in Section 7, and the addition of a new Section 9 that specifies methods to monitor design duty and introduce the concept of design working period. Section 9 of this Standard is based on the concepts outlined in ISO 12482-1, *Cranes condition monitoring, Part 1: General*.

Published Standards in the series are the following:

### AS

2550	Cranes, hoists and winches—Safe use
2550.1	Part 1: General requirements (this Standard)
2550.3	Part 3: Bridge, gantry, portal (including container cranes) jib and monorail cranes
2550.4	Part 4: Tower cranes
2550.5	Part 5: Mobile cranes
2550.6	Part 6: Guided storing and retrieving appliances
2550.7	Part 7: Builders' hoists and associated equipment
2550.9	Part 9: Vehicle hoists
2550.10	Part 10: Elevating work platforms
2550.11	Part 11: Vehicle loading cranes
2550.13	Part 13: Building maintenance units
2550.15	Part 15: Concrete placing equipment
2550.16	Part 16: Mast climbing work platforms
2550.19	Part 19: Telescopic handlers
2550.20	Part 20: Self-erecting tower cranes

Statements expressed in mandatory terms in notes to tables are deemed to be requirements of this Standard.

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

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

**Part 1: General requirements**

SECTION 1 SCOPE AND GENERAL

**1.1 SCOPE**

This Standard specifies general requirements for the safe use of cranes, hoists and winches.

## NOTES:

- 1 Requirements applicable to particular types of cranes are specified in the specific parts of AS 2550.
- 2 Requirements that are common to two or more types of cranes are contained in this Standard; therefore, some requirements contained herein do not apply to all types of cranes.

**1.2 APPLICATION**

The requirements given in other parts of AS 2550 shall take precedence over the corresponding requirements of this Standard.

Where earthmoving equipment is to be used as a crane, the requirements in Appendix I shall apply.

Where this Standard uses the word ‘crane’ it shall be taken to mean ‘hoist’, ‘winch’ or components as defined in AS 2549.

**1.3 REFERENCED DOCUMENTS**

The following documents are referenced in this Standard:

NOTE: A list of Australian Standards relevant to lifting gear is given in Appendix A.

## AS

1318	Use of colour for the marking of physical hazards and the identification of certain equipment in industry
1418	Cranes, hoists and winches (all Parts)
2076	Winch rope grips for non-lifting applications
2549	Cranes (including hoists and winches)—Glossary of terms
2550	Cranes, hoists and winches—Safe use (all Parts)
2779	Steel wire rope—Use, operation and maintenance
4991	Lifting devices
AS/NZS	
1554	Structural steel welding
1554.4	Part 4: Welding of high strength quenched and tempered steels
1891	Industrial fall-arrest systems and devices
1891.1	Part 1: Harnesses and ancillary equipment
3000	Electrical installations (known as the Australian/New Zealand Wiring Rules)