

Australian Standard™

**Lifting devices**

This Australian Standard was prepared by Committee ME-005, Cranes. It was approved on behalf of the Council of Standards Australia on 30 March 2004 and published on 6 May 2004.

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- Australian Industry Group
- Australian Institute for Non-Destructive Testing
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# Australian Standard™

## Lifting devices

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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. 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 provide the requirements that are additional to the requirements of other Parts of AS 1418.

During the preparation of this Standard reference was made to prEN 13155, *Cranes—Safety—Non-fixed load lifting attachments*.

Statements expressed in mandatory terms in notes to tables and figures 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** **Lifting devices**

#### SECTION 1 SCOPE AND GENERAL

##### **1.1 SCOPE**

This Standard specifies general requirements for the design, testing, marking and correct care and use of lifting devices that can be fitted directly or indirectly to the hook or any other coupling device on a crane, hoist or winch, as defined in AS 2549, without affecting its integrity.

This Standard does not cover lifting equipment such as slings, lifting gear, workboxes and items covered by other Australian Standards.

##### **1.2 LOAD DESIGNATIONS**

This Standard has been prepared to interface with the design methodology for cranes and the design methodology for lifting tackle. Cranes are specified by virtue of a group classification (C classification) and 'rated capacity'. Lifting tackles (slings, shackles, etc.) are specified by virtue of a 'working load limit' (WLL), which is varied by factors according to the manner and geometry of their application.

This Standard allows lifting devices to be specified by either a 'rated capacity' or a WLL. Items, such as bins that have a capacity that includes a 'tare' as well as a 'payload' and 'gross load', are described and marked with tare and gross load.

##### **1.3 NEW DESIGNS AND INNOVATIONS**

This Standard does not preclude the use of materials, designs, methods of assembly, procedures, and the like, that do not meet 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.

##### **1.4 INTERPRETATIONS**

Questions concerning the meaning, the application or effect of any part of this Standard may be referred to the Standards Australia Committee on Cranes. The authority of the Committee is limited to matters of interpretation and it will not adjudicate in disputes.

##### **1.5 REFERENCED DOCUMENTS**

The documents referred to in this Standard are listed in Appendix A.

##### **1.6 DEFINITIONS**

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

For examples of lifting equipment, see Appendix B.





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