

Australian Standard[®]

**Cranes (including hoists and
winches)**

Part 2: Serial hoists and winches

This Australian Standard was prepared by Committee ME/5, Cranes. It was approved on behalf of the Council of Standards Australia on 22 November 1996 and published on 5 January 1997.

The following interests are represented on Committee ME/5:

Australian Chamber of Commerce and Industry
Australian Elevator Association
Australian Institute of Building
Bureau of Steel Manufacturers of Australia
Construction and Mining Equipment Association of Australia
Crane Industry Council of Australia
Department of Industrial Affairs, S.A.
Department of Defence
Department of Training and Industrial Relations, Qld
Institution of Engineers of Australia
Metal Trades Industry Association of Australia
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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee ME/5 on Cranes, to supersede AS 1418.2—1990.

It is a consensus among representatives of this Committee that this document be produced as an Australian Standard only.

This Standard gives guidance to manufacturers on the minimum engineering requirements for the design of various types of serial hoists and winches.

This edition is a revision of the 1990 edition and incorporates the following changes:

- (a) Update of referenced documents.
- (b) Editorial changes in pursuance of Standards Australia editorial style.
- (c) Cognizance of ISO recommendations.
- (d) Restriction to the type of hoist permitted for carrying personnel.
- (e) Requirements for scaffolding hoists brought in line with European requirements.

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STANDARDS AUSTRALIA

Australian Standard

Cranes (including hoists and winches)

Part 2: Serial hoists and winches

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE This Standard specifies requirements for serial hoists and winches.

It is complementary to [AS 1418.1](#), but the requirements given herein take precedence over corresponding requirements in that Standard.

The requirements for the safe use of serial hoists and winches are given in [AS 2550.1](#).

1.2 NEW DESIGN AND INNOVATIONS This Standard does not preclude the use of novel materials, designs, methods of assembly, procedures and the like which do not comply with 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.

1.3 APPLICATION Serial hoists and winches shall comply with Section 1 and with the following Sections, as applicable:

- (a) Section 2 Manually operated chain hoists (chain blocks and lever hoists).
- (b) Section 3 Power-operated chain hoists (chain blocks).
- (c) Section 4 Power-operated wire rope hoists.
- (d) Section 5 Scaffolding hoists.
- (e) Section 6 Creeper winches.
- (f) Section 7 Manually operated drum winches.
- (g) Section 8 Power-operated drum winches.
- (h) Section 9 Trolleys.

Any hoist which is used to support personnel shall incorporate the design requirements of Section 5.

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

AS	
1000	The International System of Units (SI) and its application
1418	Cranes (including hoists and winches)
1418.1	Part 1: General requirements
1532	Short pitch transmission precision roller chains and chain wheels
1831	Iron castings—Spheroidal or nodular graphite cast iron
2549	Cranes (including hoists and winches)—Glossary of terms
2550	Cranes—Safe use
2550.1	Part 1: General requirements