

AS 1418.9:2024



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# Cranes, hoists and winches

## Part 9: Vehicle hoists

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## Part 9: Vehicle hoists

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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/NZS 1418.9:1996, *Cranes (including hoists and winches), Part 9: Vehicle hoists*.

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

The objective of this document is to establish uniform minimum safety requirements for vehicle hoists without restricting their design.

In the preparation of this document, reference was made to EN 1493:2010, *Vehicle lifts*.

The terms “normative” and “informative” are used in Standards (and other publications) to define the application of the appendices to which they apply. A “normative” appendix is an integral part of a Standard, whereas an “informative” appendix is only for information and guidance.

*This Standard includes a commentary on some of the clauses. The commentary directly follows the relevant clause, is designated by ‘C’ preceding the clause number and is presented in italics in a box. The commentary is for information and guidance and does not form part of the Standard.*

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# Australian Standard®

## Cranes, hoists and winches

### Part 9: Vehicle hoists

#### 1 Scope and general

##### 1.1 Scope

This document establishes uniform minimum safety requirements for vehicle hoists. It applies to wheel-supporting, axle-supporting and frame-supporting vehicle hoists and their attachments.

This document does not apply to vehicle jacks (refer to AS/NZS 2693), trolley jacks (refer to AS 2615), car stackers or vehicle roll-over equipment.

The minimum requirements specified in the document may not be sufficient to meet working conditions.

This document does not apply to accessories.

NOTE 1 Although this document uses the term “hoist”, several overseas Standards use the term “lift”.

NOTE 2 Illustrations of typical vehicle hoists are given in [Appendix A](#).

##### 1.2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document.

AS 1210, *Pressure vessels*

AS 1403, *Design of rotating steel shafts*

AS 2549, *Cranes, hoists and winches — Glossary of terms*

AS 2671, *Hydraulic fluid power — General rules and safety requirements for systems and their components (ISO 4413:2010, MOD)*

AS 2788, *Pneumatic fluid power — General rules and safety requirements for systems and their components (ISO 4414:2010, MOD)*

AS 4024.1604, *Safety of machinery, Part 1604: Design of controls, interlocks and guarding — Emergency stop — Principles for design (ISO 13850:2015 (ED.3.0) MOD)*

AS 5230, *Safety of machinery — Electrical equipment of machines, Part 32: Requirements for hoisting machines (IEC 60204-32:2008 (ED.2.0) MOD)*

AS 5246.1, *Cranes — Classification, Part 1: General (ISO 4301-1:2016, MOD)*

AS/NZS 154.1, *Structural steel welding of steel structures*

ISO 606, *Short-pitch transmission precision roller and bush chains, attachments and associated chain sprockets*

ISO 1219-1, *Fluid power systems and components — Graphical symbols and circuit diagrams — Part 1: Graphical symbols for conventional use and data-processing applications*

ISO 16625, *Cranes and hoists — Selection of wire ropes, drums and sheaves*

EN 1493, *Vehicle lifts*