



Cranes, hoists and winches

Part 11: Vehicle-loading cranes (EN 12999:2011, MOD)

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- Australian Industry Group
- Australian Institute for Non-Destructive Testing
- Bureau of Steel Manufacturers of Australia
- Crane Industry Council of Australia
- Department of Commerce, WorkSafe Division, WA
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**Part 11: Vehicle-loading cranes
(EN 12999:2011, MOD)**

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PREFACE

This Standard was prepared by the Standards Australia Committee ME-005, Cranes, to supersede AS 1418.11—2007, *Cranes, hoists and winches*, Part 11: *Vehicle-loading cranes*.

This Standard incorporates Amendment No. 1 (March 2015), Amendment No. 2 (June 2015) and Amendment No. 3 (December 2018). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

The objective of this Standard is to set out requirements for vehicle-loading cranes.

This Standard is an adoption with national modifications and has been based on EN 12999:2011, *Cranes—Loader cranes* and has been varied as set out in Appendix ZZ to take account of Australian conditions.

EN 12999:2011 Amendment 1:2012 has been incorporated into the source text and the amended text has been flagged with ‘A1’ symbols.

As this Standard is reproduced from an European Standard, the following applies:

- (a) In the source text ‘this European Standard’ should read ‘this Australian Standard’.
- (b) A full point substitutes for a comma when referring to a decimal marker.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the annex or appendix to which they apply. A ‘normative’ annex or appendix is an integral part of a Standard, whereas an ‘informative’ annex or appendix is only for information and guidance.

References to European Standards should be replaced by references to Australian or Australian/New Zealand Standards as follows:

| <i>Reference to European Standard</i> | <i>Australian/New Zealand Standard</i> |
|---|---|
| EN | AS/NZS |
| 61000 Electromagnetic compatibility (EMC) | 61000 Electromagnetic compatibility (EMC) |
| 61000-6-2 Part 6-2: Generic standards—Immunity for industrial environments | 61000.6.2 Part 6.2: Immunity for industrial environments |
| 61000-6-4 Part 6-4: Generic standards—Emission standard for industrial environments | 61000.6.4 Part 6.4: Emission standard for industrial environments |

Only European Standards that have been adopted as Australian or Australian/New Zealand Standards have been listed.

CONTENTS

| | | |
|-------|--|----|
| 1 | Scope | 7 |
| 2 | Normative references | 7 |
| 3 | Terms, definitions and terminology..... | 8 |
| 3.1 | Terms and definitions | 8 |
| 3.2 | Terminology | 12 |
| 4 | List of significant hazards | 14 |
| 5 | Safety requirements and/or safety measures..... | 17 |
| 5.1 | General..... | 17 |
| 5.2 | Structural calculation | 18 |
| 5.2.1 | Information to be given in the calculation | 18 |
| 5.2.2 | Dynamic factors | 18 |
| 5.2.3 | Loads and forces | 20 |
| 5.2.4 | Load combinations..... | 21 |
| 5.3 | Stress analysis..... | 22 |
| 5.4 | Mechanical arrangements..... | 23 |
| 5.4.1 | Stabilizers | 23 |
| 5.4.2 | Manual boom extensions..... | 24 |
| 5.4.3 | Securing for transport..... | 24 |
| 5.4.4 | Hoists | 24 |
| 5.4.5 | Load hooks..... | 24 |
| 5.5 | Hydraulic system | 25 |
| 5.5.1 | General..... | 25 |
| 5.5.2 | Pump | 25 |
| 5.5.3 | Hydraulic reservoir | 25 |
| 5.5.4 | Pressure limiting device | 25 |
| 5.5.5 | Hoses, tubes and fittings | 26 |
| 5.5.6 | Precautions against hydraulic line rupture..... | 26 |
| 5.5.7 | Sink rate for boom system..... | 26 |
| 5.5.8 | Slewing mechanism | 27 |
| 5.6 | Limiting and indicating devices | 27 |
| 5.6.1 | General..... | 27 |
| 5.6.2 | Rated capacity limiter..... | 28 |
| 5.6.3 | Lowering facility | 28 |
| 5.6.4 | Rated capacity indicators | 29 |
| 5.6.5 | Limiters | 29 |
| 5.6.6 | Operational warning | 29 |
| 5.6.7 | Acoustic warning | 29 |
| 5.6.8 | Stopping device | 29 |
| 5.7 | Controls | 30 |
| 5.7.1 | General..... | 30 |
| 5.7.2 | Symbols | 30 |
| 5.7.3 | Layout of bi-directional controls..... | 31 |
| 5.7.4 | Guidance for high seat controls | 31 |
| 5.8 | Control stations | 31 |
| 5.8.1 | General..... | 31 |
| 5.8.2 | Raised control stations | 32 |
| 5.9 | Electrical systems | 33 |
| 5.9.1 | General..... | 33 |
| 5.9.2 | Electromagnetic compatibility | 33 |

| | | |
|---------|--|----|
| 5.10 | Installation..... | 33 |
| 5.10.1 | General | 33 |
| 5.10.2 | Mounting | 33 |
| 5.10.3 | Stability..... | 34 |
| 5.10.4 | Noise..... | 35 |
| 5.10.5 | Vibrations | 35 |
| 5.10.6 | Electrical systems (installation)..... | 35 |
| 5.10.7 | Hydraulic components..... | 35 |
| 5.10.8 | Access | 35 |
| 6 | Verification of the safety requirements and/or measures..... | 36 |
| 6.1 | General | 36 |
| 6.2 | Testing and test procedures | 40 |
| 6.2.1 | General | 40 |
| 6.2.2 | Functional test..... | 40 |
| 6.2.3 | Static test | 40 |
| 6.2.4 | Dynamic test | 41 |
| 6.2.5 | Stability test | 41 |
| 6.2.6 | Test documentation | 42 |
| 6.3 | Noise emission measurement..... | 43 |
| 7 | Information for use..... | 43 |
| 7.1 | General | 43 |
| 7.2 | Manuals | 43 |
| 7.2.1 | Provision of manuals | 43 |
| 7.2.2 | Instructions for the installer..... | 43 |
| 7.2.3 | Operator's manual | 44 |
| 7.2.4 | Maintenance manual | 45 |
| 7.3 | Marking..... | 45 |
| 7.3.1 | General | 45 |
| 7.3.2 | Manufacturer's plate | 46 |
| 7.3.3 | Installer's plate..... | 46 |
| 7.3.4 | Load signs..... | 46 |
| 7.3.5 | Special signs on timber handling cranes | 49 |
| 7.3.6 | Marking of slewing centre | 49 |
| Annex A | (informative) Examples of configurations and mountings | 51 |
| A.1 | Boom systems | 51 |
| A.1.1 | Loader cranes with straight boom system | 51 |
| A.1.2 | Loader cranes with articulated boom system | 51 |
| A.2 | Examples of loader crane mountings | 52 |
| Annex B | (informative) Stress history parameter s and stress history classes S | 56 |
| Annex C | (informative) Explanatory notes..... | 58 |
| C.1 | Rated capacity limiters | 58 |
| C.2 | Timber handling cranes - Line rupture..... | 58 |
| C.3 | Control stations | 58 |
| Annex D | (informative) Examples of dangerous movements | 59 |
| Annex E | (normative) Symbols for working and setting-up functions..... | 60 |
| Annex F | (informative) Control system – Preferred vertical layout for controls operated from the ground | 62 |
| Annex G | (informative) Control system - Horizontal layout order..... | 64 |
| Annex H | (informative) Control levers for high seats and remote controls | 67 |
| H.1 | High seat controls | 67 |
| H.1.1 | Multidirectional (joy-stick) controls..... | 67 |
| H.1.2 | Bi-directional controls | 67 |
| H.2 | Remote controls | 67 |
| Annex I | (not used) | 70 |

| | |
|---|----|
| Annex J (normative) Cabins fitted on vehicle mounted loader cranes up to a net lifting moment of 250 kNm | 71 |
| Annex K (informative) Examples of raised control stations | 74 |
| Annex L (normative) Raised control stations - Measures regarding hand rails and hand holds, ladders and steps | 76 |
| Annex M (informative) Installation of a loader crane on a vehicle | 79 |
| M.1 General | 79 |
| M.2 Installation: minimum data | 79 |
| M.2.1 Crane dimensions in transport position: data | 79 |
| M.2.2 Crane data (see Figure M.2) | 80 |
| M.2.3 Mounting data | 80 |
| M.2.4 Power requirements | 80 |
| M.2.5 Stability calculations: data | 80 |
| M.3 Power take off (PTO) and pump displacement | 81 |
| M.4 Calculation method for determination of sub-frame dimensions | 82 |
| M.4.1 General considerations | 82 |
| M.4.2 Stresses | 82 |
| M.4.3 Material and limit states | 82 |
| M.4.4 Symbols and equations | 83 |
| Annex N (informative) Selection of a suitable set of crane standards for a given application | 85 |
| Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC | 86 |
| Bibliography | 87 |

AUSTRALIAN STANDARD

Cranes, hoists and winches

Part 11:

Vehicle-loading cranes (EN 12999:2011, MOD)

1 Scope

This European Standard specifies minimum requirements for design, calculation, examinations and tests of hydraulic powered loader cranes and their mountings on vehicles or static foundations.

This European Standard does not apply to loader cranes used on board ships or floating structures or to articulated boom system cranes which are designed as total integral parts of special equipment such as forwarders.

The hazards covered by this standard are identified in Clause 4.

This European Standard does not cover hazards related to the lifting of persons.

This European Standard is not applicable to loader cranes which are manufactured before the date of its publication as EN.

NOTE The use of cranes for lifting of persons can be subject to specific national regulations.

2 Normative references

A1 The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies. **A1**

EN 349:1993+A1:2008, *Safety of machinery — Minimum gaps to avoid crushing of parts of the human body*

EN 12077-2:1998+A1:2008, *Cranes safety — Requirements for health and safety — Part 2: Limiting and indicating devices*

EN 14492-2:2006+A1:2009, *Cranes — Power driven winches and hoists — Part 2: Power driven hoists*

EN 12644-1:2001+A1:2008, *Cranes — Information for use and testing — Part 1: Instructions*

EN 12644-2:2000+A1:2008, *Cranes — Information for use and testing — Part 2: Marking*

EN 13001-1:2004+A1:2009, *Cranes — General design — Part 1: General principles and requirements*

EN 13001-2:2004+A3:2009, *Cranes safety — General design — Part 2: Load effects*

prEN 13001-3-1:2010, *Cranes — General design — Part 3-1: Limit states and proof competence of steel structure*

EN 13557:2003+A2:2008, *Cranes — Controls and control stations*

EN 13586:2004+A1:2008, *Cranes — Access*

EN 61000-6-2:2005, *Electromagnetic compatibility (EMC) — Part 6-2: Generic standards — Immunity for industrial environments (IEC 61000-6-2:2005)*

EN 61000-6-4:2007, *Electromagnetic compatibility (EMC) — Part 6-4: Generic standards — Emission standard for industrial environments (IEC 61000-6-4:2006)*

EN 60204-32:2008, *Safety of machinery — Electrical equipment of machines — Part 32: Requirements for hoisting machines (IEC 60204-32:2008)*

EN 954-1:1996, *Safety of machinery — Safety related parts of control systems — Part 1: General principles for design*