

Australian Standard[®]

Cranes, hoists and winches

Part 11: Vehicle-loading cranes

STANDARDS
Australia



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- Association of Consulting Engineers Australia
 - Australian Industry Group
 - Australian Institute for Non-destructive Testing
 - Bureau of Steel Manufacturers of Australia
 - Construction and Mining Equipment Association of Australia
 - Crane Industry Council of Australia
 - Department for Administrative and Information Services (South Australia)
 - Department of Consumer and Employment Protection, WorkSafe Division (WA)
 - Department of Industrial Relations (Qld)
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 - Department of Labour New Zealand
 - Institution of Engineers Australia
 - State Chamber of Commerce
 - Victorian WorkCover Authority
 - WorkCover New South Wales
-

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Part 11: Vehicle-loading cranes

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PREFACE

This Standard was prepared by the Australian members of the Joint Standards Australia/New Zealand Committee ME-005, Cranes, to supersede AS 1418.11—2004.

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

The major change in this edition is the addition of a new Section 5 covering specific requirements for side-loading cranes, and the revision of the stability test acceptance criteria.

This Standard is based on EN 12999, *Cranes—Loader cranes*.

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.

Appendix D has been included due to the manufacture of vehicle-loading cranes being principally outside Australia using materials not covered by AS 3990, *Mechanical equipment—Steelwork*.

CONTENTS

| | <i>Page</i> |
|--|-------------|
| SECTION 1 SCOPE AND GENERAL | |
| 1.1 SCOPE | 5 |
| 1.2 APPLICATION | 5 |
| 1.3 REFERENCED DOCUMENTS | 5 |
| 1.4 NEW DESIGNS AND INNOVATIONS | 6 |
| 1.5 DEFINITIONS | 6 |
| 1.6 TERMINOLOGY | 8 |
| SECTION 2 DESIGN REQUIREMENTS | |
| 2.1 STRUCTURAL CALCULATION..... | 10 |
| 2.2 MECHANICAL ARRANGEMENTS | 15 |
| 2.3 HYDRAULIC SYSTEM | 16 |
| 2.4 LIMITING AND INDICATING DEVICES | 18 |
| 2.5 CONTROLS | 22 |
| 2.6 CONTROL STATIONS | 23 |
| 2.7 INSTALLATION/MOUNTING | 24 |
| 2.8 FITMENT OF ADDITIONAL FUNCTIONS | 26 |
| SECTION 3 VERIFICATION OF THE DESIGN REQUIREMENTS AND MEASURES | |
| 3.1 GENERAL | 27 |
| 3.2 TESTING AND PROCEDURES | 29 |
| 3.3 RECORD OF TESTING..... | 34 |
| 3.4 REPAIRS..... | 34 |
| SECTION 4 MANUALS AND MARKING | |
| 4.1 GENERAL | 35 |
| 4.2 MANUALS | 35 |
| 4.3 SERVICE RECORD..... | 37 |
| 4.4 MARKING | 37 |
| SECTION 5 ADDITIONAL REQUIREMENTS FOR SIDE-LOADING CRANES | |
| 5.1 GENERAL | 41 |
| 5.2 STABILITY | 41 |
| 5.3 MAXIMUM GROSS LOAD | 42 |
| 5.4 LIMITING AND INDICATING DEVICE | 42 |
| 5.5 CONTROL STATIONS | 42 |
| 5.6 TESTING AND PROCEDURES | 43 |
| APPENDICES | |
| A LIST OF SIGNIFICANT HAZARDS..... | 44 |
| B EXAMPLES OF CONFIGURATIONS AND MOUNTINGS..... | 46 |
| C EXAMPLES OF RAISED CONTROL STATIONS | 50 |
| D RATED CAPACITY LIMITER | 52 |
| E EXAMPLES OF MOTIONS THAT INCREASE LOAD MOMENT | 53 |
| F SYMBOLS FOR WORKING AND SET-UP FUNCTIONS..... | 54 |
| G CONTROL SYSTEM—HORIZONTAL LAYOUT ORDER | 55 |

| | <i>Page</i> |
|---|-------------|
| H CONTROL SYSTEM—PREFERRED VERTICAL LAYOUT FOR CONTROLS OPERATED FROM THE GROUND | 57 |
| I CONTROL LEVERS FOR HIGH SEATS AND REMOTE CONTROLS..... | 60 |
| J MINIMUM INTERNAL DIMENSIONS FOR CABINS FITTED ON VEHICLE-LOADING CRANES..... | 62 |
| K DETERMINATION OF RATED CAPACITY INDICATOR/LIMITER ACCURACY | 63 |
| L TYPICAL APPEARANCE AND RATED CAPACITY LOAD CHART FOR SIDE-LOADING CRANES..... | 65 |
| M SYMBOLS FOR WORKING AND SET-UP FUNCTIONS OF SIDE-LOADING CRANES | 67 |

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Part 11: Vehicle-loading cranes

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies minimum requirements for the design, calculation, examination and testing of powered vehicle-loading cranes, including side-loading cranes, and their mountings, as defined in AS 2549 and Clause 1.5. It also covers requirements for cranes primarily designed to be used as vehicle-loading cranes that are mounted on a static foundation.

Additional requirements for side-loading cranes are given in Section 5.

NOTE: The hazards covered by this Standard are identified in Appendix A.

This Standard does not apply to statically mounted vehicle-loading cranes used on board ships, or manually operated vehicle-loading cranes.

This Standard does not apply to vehicle-loading cranes intended for pick-and-carry operations. Requirements for vehicle-loading cranes intended for such operations are given in AS 1418.5.

1.2 APPLICATION

This Standard is complementary to AS 1418.1, but the requirements given herein take precedence over the corresponding requirements in AS 1418.1.

1.3 REFERENCED DOCUMENTS

| | |
|---------|---|
| AS | |
| 1418 | Cranes, hoists and winches |
| 1418.1 | Part 1: General requirements |
| 2549 | Cranes (including hoists and winches)—Glossary of terms |
| 2550 | Cranes, hoists and winches—Safe use |
| 2550.1 | Part 1: General requirements |
| 2550.11 | Part 11: Vehicle-loading cranes |
| 4024.1 | Safety of machinery |
| AS/NZS | |
| 1170 | Structural design actions |
| 1170.2 | Part 2: Wind actions |
| EN | |
| 12999 | Cranes—Loader cranes |