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STANDARDS
Australia



Cranes — Requirements for mechanisms

Part 3: Bridge and gantry cranes (ISO 10972-5:2006, MOD)



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- Australian Chamber of Commerce and Industry
- Australian Industry Group
- Australian Institute for Non-Destructive Testing
- Better Regulation Division (Fair Trading, SafeWork NSW, TestSafe)
- Bureau of Steel Manufacturers of Australia
- Crane Industry Council of Australia
- Department of Regional NSW
- Elevating Work Platform Association of Australia
- Engineers Australia
- National Heavy Vehicle Regulator
- Office of Industrial Relations, Qld
- Transport for NSW
- Victorian WorkCover Authority (WorkSafe Victoria)
- WorkSafe Division — Department of Mines, Industry Regulation and Safety (DMIRS) WA

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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 document as an Australian Standard rather than an Australian/New Zealand Standard.

The objective of this document is to establish the particular requirements relating to mechanisms for bridge and gantry cranes, as defined in ISO 4306-1. The general requirements for mechanisms for cranes are given in AS 5227.1.

The particular requirements given in this document concern —

- (a) the general layout and design of mechanisms;
- (b) the selection and/or design requirements of components; and
- (c) the instructions for manufacturing, mounting, installation and testing.

Rules for proof of competence calculations regarding different limit states (yield strength, fatigue, wear) are excluded from this document.

This document is an adoption with national modifications and has been reproduced from ISO 10972-5:2006, *Cranes — Requirements for mechanisms — Part 5: Bridge and gantry cranes*. The modifications are additional requirements and are set out in [Appendix ZZ](#), which has been added at the end of the source text.

[Appendix ZZ](#) lists the modifications to ISO 10972-5:2006 for the application of this document in Australia.

As this document has been reproduced from an International document, the following apply:

- (i) In the source text “this part of ISO 10972” should read “this document”.
- (ii) A full point substitutes for a comma when referring to a decimal marker.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

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

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