

AS 5236.1:2021



STANDARDS  
Australia



# Cranes — Limiting and indicating devices

Part 1: General (ISO 10245-1:2008, MOD)

Currently in preview, click buy full version

AS 5236.1:2021

This Australian Standard ® was prepared by ME-005, Cranes. It was approved on behalf of the Council of Standards Australia on 19 January 2021.

This Standard was published on 29 January 2021.

The following are represented on Committee ME-005:

- 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
- WorkSafe Division — Department of Mines, Industry Regulation and Safety (DMIRS) WA
- Victorian WorkCover Authority (WorkSafe Victoria)

This Standard was issued in draft form for comment as DR AS 5236.1:2019.

#### **Keeping Standards up-to-date**

Ensure you have the latest versions of our publications and keep up-to-date about Amendments, Rulings, Withdrawals, and new projects by visiting:

[www.standards.org.au](http://www.standards.org.au)

ISBN 978 1 76113 165 3

# Cranes — Limiting and indicating devices

Part 1: General (ISO 10245-1:2008, MOD)

First published as AS 5236.1:2021.

## **COPYRIGHT**

© ISO 2021 — All rights reserved  
© Standards Australia Limited 2021

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Cth).

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

The objective of this Standard is to specify general requirements for limiting and indicating devices for cranes that are applicable to loads and motions, performance and environment. These devices restrict operation and/or provide the operator or other persons with operational information.

This Standard is an adoption with national modifications and has been reproduced from ISO 10245-1:2008, *Cranes — Limiting and indicating devices — Part 1: General*.

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 variations to ISO 10245-1:2008, for the application of this Standard in Australia.

As this Standard is reproduced from an International Standard, the following apply:

- (a) In the source text “this part of ISO 10245” should read “this Australian Standard”.
- (b) A full point substitutes for a comma when referring to a decimal marker.

The terms “normative” and “informative” are used in Standard 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.

## Contents

Preface .....	ii
Foreword .....	iv
<b>1 Scope .....</b>	<b>1</b>
<b>2 Normative references .....</b>	<b>1</b>
<b>3 Terms and definitions .....</b>	<b>1</b>
<b>4 Safety requirements and/or measures .....</b>	<b>3</b>
4.1 Limiters and indicators .....	3
4.2 General requirements for rated capacity limiters and indicators .....	3
4.3 Rated capacity limiters .....	4
4.3.1 General .....	4
4.3.2 Operating requirements .....	5
4.4 Rated capacity indicators .....	5
4.4.1 Operating requirements .....	5
4.4.2 Form of warning .....	6
4.4.3 Provision for daily checking .....	6
4.5 Motion and performance limiters .....	6
4.5.1 Motion limiters .....	6
4.5.2 Performance limiters .....	7
4.6 Indicators .....	7
<b>5 Inspection .....</b>	<b>8</b>
<b>6 Maintenance .....</b>	<b>8</b>
<b>7 Operating instructions and operator training .....</b>	<b>8</b>
<b>8 Information for use .....</b>	<b>8</b>
<b>Bibliography .....</b>	<b>9</b>
<b>Appendix ZZ (normative) Variations to AS 10245-1:2008 for Australian conditions .....</b>	<b>10</b>

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 10245-1 was prepared by Technical Committee ISO/TC 96, *Cranes*, Subcommittee SC 8, *Jib cranes*.

This second edition cancels and replaces the first edition (ISO 10245-1:1994), which has been technically revised.

ISO 10245 consists of the following parts, under the general title *Cranes — Limiting and indicating devices*:

- *Part 1: General*
- *Part 2: Mobile cranes*
- *Part 3: Tower cranes*
- *Part 4: Jib cranes*
- *Part 5: Overhead travelling and portal bridge cranes*

# Australian Standard®

## Cranes — Limiting and indicating devices

### Part 1: General (ISO 10245-1:2008, MOD)

#### 1 Scope

This part of ISO 10245 specifies general requirements for limiting and indicating devices for cranes that are applicable to loads and motions, performance and environment. These devices restrict operation and/or provide the operator or other persons with operational information.

The specific requirements for the various types of crane are given in the other parts of ISO 10245.

It is emphasized that the safe and reliable operation of limiters and indicators depends upon regular inspection and maintenance.

#### 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 4306-1, *Cranes — Vocabulary — Part 1: General*

#### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4306-1 and the following apply.

##### 3.1

##### **anti-collision device**

device used to prevent cranes or parts of cranes from colliding with a fixed load-lifting attachment when they are manoeuvred simultaneously in the same space

Note 1 to entry: A working space limiter may perform the function of an anti-collision device in certain applications.

##### 3.2

##### **configuration**

combination and position of structural members, counterweights, support or outrigger position, hook block reeving and similar items assembled, positioned and erected in accordance with manufacturers' instructions and ready for operation

##### 3.3

##### **continuous warning**

warning visually by means of either a flashing or uninterrupted light, or audibly by either a pulsing or uninterrupted sound, that persists throughout the time during which the condition being indicated exists

##### 3.4

##### **control station position limiter**

device used on cranes having a control station that can be moved by powered movement to different positions, to prevent movement of the control station beyond specified limits

##### 3.5

##### **derricking limiter**

device used to prevent the raising or lowering of a jib, boom, fly jib, "A-frame" or mast beyond specified limits