

AS 5238.1:2021



STANDARDS
Australia

Cranes — Cabins and control stations

Part 1: General (ISO 8566-1:2010, MOD)



AS 5238.1:2021

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

This Standard was issued in draft form for comment as DR AS 5238.1:2019.

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

Cranes — Cabins and control stations

Part 1: General (ISO 8566-1:2010, MOD)

First published as AS 5238.1:2021.

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 the general requirements for cabins and control stations from which cranes are operated.

This Standard is an adoption with national modifications and has been reproduced from ISO 8566-1:2010, *Cranes — Cabins and control stations — 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 8566-1:2010, for application of this Standard in Australia.

As this Standard is reproduced from an International Standard, the following applies.

- (a) In the source text “this part of ISO 8566” should read “this Australian Standard”.
- (b) A full point substitutes for a comma when referring to a decimal marker.

The term “normative” is used in Standards to define the application of the appendix or annex to which it applies. A “normative” appendix or annex is an integral part of a Standard.

Contents

Preface	ii
Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Control stations	2
5 Cabins	3
5.1 General	3
5.2 Windows	3
5.3 Entrance and exit	4
5.3.1 Normal entrance and exit	4
5.3.2 Emergency exit	4
5.3.3 Fire protection	5
5.4 Crane operator's seat	5
5.5 Control layout	5
5.6 Information	5
5.7 Noise	5
5.8 Heating and air conditioning	6
5.8.1 General	6
5.8.2 Cabin climate	6
Appendix ZZ (normative) Variations to ISO 8566-1:2010 for Australia	7

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 8566-1 was prepared by Technical Committee ISO/TC 96, *Cranes*, Subcommittee SC 7, *Tower cranes*.

This second edition cancels and replaces the first edition (ISO 8566-1:1992), which has been technically revised.

ISO 8566 consists of the following parts, under the general title *Cranes — Cabins and control stations*:

- *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 — Cabins and control stations

Part 1: General (ISO 8566-1:2010, MOD)

1 Scope

This part of ISO 8566 specifies the general requirements for cabins and control stations from which cranes, as defined in ISO 4306-1, are operated.

It takes the conditions of use of the cabin into consideration.

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 3795, *Road vehicles, and tractors and machinery for agriculture and forestry — Determination of burning behaviour of interior materials*

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

ISO 5353:1995, *Earth-moving machinery, and tractors and machinery for agriculture and forestry — Seat index point*

ISO 7752-1, *Cranes — Controls — Layout and characteristics — Part 1: General principles*

ISO 11112, *Earth-moving machinery — Operator's seat — Dimensions and requirements*

ISO 11201, *Acoustics — Noise emitted by machinery and equipment — Measurement of emission sound pressure levels at a work station and at other specified positions — Engineering method in an essentially free field over a reflecting plane*

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

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

crane cabin

space in a crane or in its immediate vicinity which is specially designed, built and equipped for operating the crane

3.2

control device

part of the control system of the crane, by means of which the desired control command is conveyed to the operating device

3.3

control element

part of a control device, such as push buttons, levers, pedals and switches, the manipulation of which creates the desired control command