

AS 2549:2021



STANDARDS  
Australia



# Cranes, hoists and winches — Glossary of terms



AS 2549:2021

This Australian Standard ® was prepared by ME-005, Cranes. It was approved on behalf of the Council of Standards Australia on 21 September 2021.

This Standard was published on 1 October 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, WA

This Standard was issued in draft form for comment as DR AS 2549:2020.

### **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 520 0

# **Cranes, hoists and winches — Glossary of terms**

Originated as AS 2549—1982.  
Previous edition 1996.  
Third edition 2021.

© 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 Joint Standards Australia/Standards New Zealand ME-005 Committee on Cranes, to supersede AS 2549:1996, *Cranes (including hoists and winches) — Glossary of terms*.

This document provides an alphabetical listing, with illustrations where appropriate, of terms and definitions used in the AS 1418 series of Standards on cranes, hoists and winches and the AS 2550 series of Standards on the safe use of cranes, hoists and winches. It differs from the previous edition of AS 2549 in that terms and definitions that were added from the relevant ISO Standards (primarily the ISO 4306 series) have been deleted and the ISO standard is referenced directly. This has been done in order to achieve compatibility and consistency with international standards that are increasingly being adopted as part of the suite of crane standards.

NOTE Some of these definitions may differ from state or territory OH&S regulatory definitions and should not be relied on for those purposes.

## Contents

<b>Preface</b> .....	<b>ii</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>

## NOTES

# Australian Standard®

## Cranes, hoists and winches — Glossary of terms

### 1 Scope

This document defines terms used in the AS 1418 series of Standards on cranes, including hoists and winches and the AS 2550 series of Standards on the safe use of cranes, hoists and winches.

ISO 4306 defines the terms commonly used in tower cranes, mobile cranes, jib cranes, loader cranes (vehicle loading cranes) and bridge and gantry cranes. This document defines terms commonly used in other fields covered by the other parts of AS 1418.

Terms that are already contained in ISO 4306 and share a common definition for AS 1418 series and AS 2550 series are not duplicated in this document. Where common terms exist, ISO 4306 is noted in the AS 2549 definition. The terms in ISO 4306 shall be taken as normative. The note is intended as an aid to the reader where the full definition can be found (ISO 4306). This document defines unique terms used in other fields covered by parts of AS 1418 not replicated in ISO 4306.

This document together with its references establishes a vocabulary of terms used in the field of cranes.

### 2 Normative references

ISO 4306, *Cranes — Vocabulary* (all parts)

### 3 Terms and definitions

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

#### 3.1

##### **A-frame**

see *gantry* ([3.181](#))

#### 3.2

##### **aerial ladder**

elevating work platform consisting of a single-section or multiple-section extendible ladder

#### 3.3

##### **air hydraulic vehicle hoists**

vehicle hoist in which the ram(s) is (are) sustained by a column of compressed air acting continuously against a column of liquid

#### 3.4

##### **aisle**

space between storage locations or compartments in which the storage crane or appliance operates

#### 3.5

##### **aisle transfer car**

##### **aisle transfer unit**

appliance or vehicle which normally runs on a rail or rails used for transferring a storing or retrieving appliance from aisle-to-aisle

#### 3.6

##### **air-oil system**

hydraulic hoist system in which the ram is activated by a column filled with air and oil in separate sections

#### 3.7

##### **air-oil tank**

tank in an air-oil system, separate from the cylinder assembly, that functions as a reservoir from which oil under pressure is supplied to activate the ram