

Australian Standard<sup>®</sup>

**Cranes, hoists and winches—Safe use**

**Part 19: Telescopic handlers**



This Australian Standard® was prepared by Committee ME-005, Cranes. It was approved on behalf of the Council of Standards Australia on 14 August 2007.  
This Standard was published on 31 October 2007.

---

The following are represented on Committee ME-005:

- 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)
- Department of Infrastructure, Energy and Resources (Tasmania)
- Department of Labour New Zealand
- Institution of Engineers Australia
- State Chamber of Commerce
- Victorian WorkCover Authority
- WorkCover New South Wales

Additional Interests:

- Australian Truck Industry Association
- 

This Standard was issued in draft form for comment as DR 06380.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

---

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

Australian Standards® are living documents that reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued.

Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments that may have been published since the Standard was published.

Detailed information about Australian Standards, drafts, amendments and new projects can be found by visiting **[www.standards.org.au](http://www.standards.org.au)**

Standards Australia welcomes suggestions for improvements, and encourages readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at **[mail@standards.org.au](mailto:mail@standards.org.au)**, or write to Standards Australia, GPO Box 476, Sydney, NSW 2001.

---

Australian Standard<sup>®</sup>

**Cranes, hoists and winches—Safe use**  
**Part 19: Telescopic handlers**

First published as AS 2550.19—2007.

**COPYRIGHT**

© Standards Australia

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.

Published by Standards Australia GPO Box 476, Sydney, NSW 2001, Australia

ISBN 0 7337 8412 7

## PREFACE

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee ME-005, Telescopic Handlers.

The objective of the AS 2550 series of Standards is to provide uniform requirements and guidance for the safe use of cranes, hoists and winches.

Published Standards in the series are the following:

## AS

2550	Cranes, hoists and winches—Safe use
2550.1	Part 1: General requirements
2550.3	Part 3: Bridge, gantry, portal (including container cranes), jib and monorail cranes
2550.4	Part 4: Tower cranes
2550.5	Part 5: Mobile cranes
2550.6	Part 6: Guided storing and retrieving appliances
2550.7	Part 7: Builders' hoists and associated equipment
2550.10	Part 10: Mobile elevating work platforms
2550.11	Part 11: Vehicle-loading cranes
2550.13	Part 13: Building maintenance units
2550.15	Part 15: Concrete placing equipment
2550.16	Part 16: Mast climbing work platforms
2550.19	Part 19: Telescopic handlers (this Standard)
2550.20	Part 20: Self-erecting tower cranes

## AS/NZS

2550.9	Part 9: Vehicle hoists
--------	------------------------

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.

Defined terms or those with specific meaning are highlighted throughout the text in ***Bold Italic***.

## CONTENTS

	<i>Page</i>
SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE .....	4
1.2 REFERENCED DOCUMENTS .....	4
1.3 DEFINITIONS .....	4
1.4 INSTRUCTIONS .....	5
1.5 COMPETENCY OF PERSONNEL .....	5
1.6 RISK ASSESSMENT .....	5
SECTION 2 PLANNING .....	6
SECTION 3 SELECTION .....	7
SECTION 4 SITING	
4.1 GENERAL REQUIREMENTS .....	8
4.2 EXCAVATIONS AND EMBANKMENTS .....	8
4.3 SOFT SURFACES .....	8
4.4 RIVERBED, TIDAL OR FLOODWATER AREAS .....	8
4.5 WORKING OVER CELLARS, GROUND CAVITIES OR UNDERGROUND SERVICES .....	9
4.6 WORKING ON STRUCTURES .....	9
4.7 WIND .....	9
4.8 EXHAUST GAS .....	9
4.9 PROXIMITY OF HAZARDS AND VISIBILITY .....	9
4.10 ENVIRONMENTAL RESTRICTIONS .....	10
SECTION 5 OPERATION	
5.1 GENERAL .....	11
5.2 OPERATIONAL INSTRUCTIONS .....	11
5.3 OPERATION MANAGEMENT .....	12
5.4 TRAVELLING WITH LOADS (PICK-AND-CARRY) .....	13
5.5 COMMUNICATION OF IRREGULARITIES .....	15
5.6 TRANSPORTATION .....	16
5.7 WORKING IN PROXIMITY TO AERIAL CONDUCTORS (OVERHEAD POWER LINES) .....	16
SECTION 6 MAINTENANCE, INSPECTION AND REPAIR	
6.1 SCOPE OF SECTION .....	23
6.2 GENERAL .....	23
6.3 MAINTENANCE .....	24
6.4 INSPECTIONS .....	24
6.5 REPAIRS .....	28
6.6 RECORDS .....	28
APPENDICES	
A MAJOR INSPECTION CHECKLIST .....	29
B SAMPLE LOGBOOK .....	37
C CHECKLIST TO DETERMINE SUITABILITY OF MANUFACTURER'S INSTRUCTIONS .....	41
D INSPECTION FLOW CHARTS .....	43

STANDARDS AUSTRALIA

---

**Australian Standard**

**Cranes, hoists and winches—Safe use**

---

Part 19: Telescopic handlers

---

SECTION 1 SCOPE AND GENERAL

**1.1 SCOPE**

This Standard specifies requirements for the safe use of telescopic handlers (hereinafter referred to as ‘telehandlers’), as defined in AS 1418.19. It is complementary to AS 2550.1, but the requirements given herein take precedence over the corresponding requirements of AS 2550.1.

NOTE: Telehandlers are also known as ‘variable reach trucks’ and ‘multi-purpose handlers’.

**1.2 REFERENCED DOCUMENTS**

The following documents are referred to in this Standard:

AS	
1418	Cranes, hoists and winches
1418.10 (Int)	Part 10: Elevating work platforms
1418.19	Part 19: Telescopic handlers
2549	Cranes (including hoists and winches)—Glossary of terms
2550	Cranes, hoists and winches—Safe use
2550.1	Part 1: General requirements
2550.10	Part 10: Elevating work platforms
AS/NZS	
3000	Electrical installations (known as the Australian/New Zealand Wiring Rules)
4804	Occupational health and safety management systems—General guidelines on principles, systems and supporting techniques
IEC	
61057	Aerial devices with insulating boom used for live working
ANSI/SIA	
A92.2	Vehicle-mounted elevating and rotating aerial devices

**1.3 DEFINITIONS**

For the purpose of this Standard the definitions given in AS 1418.19, AS 2549, AS 2550.1 and those below apply.

**1.3.1 Competent person**

A person who has acquired through training, qualification, experience or a combination of these, the knowledge and skill enabling that person to correctly perform the required task.