

BS ISO 11525-5:2015



BSI Standards Publication

## **Rough-terrain trucks — User requirements**

Part 5: Interface between rough-terrain truck and integrated personnel work platform

**bsi.**

...making excellence a habit.™

**National foreword**

This British Standard is the UK implementation of ISO 11525-5:2015.

The UK participation in its preparation was entrusted to Technical Committee MHE/7, Industrial trucks.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

© The British Standards Institution 2015. Published by BSI Standards Limited 2015

ISBN 978 0 580 82928 4

ICS 53.060

**Compliance with a British Standard cannot confer immunity from legal obligations.**

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 July 2015.

**Amendments issued since publication**

Date	Text affected
------	---------------

---

---

---

**Rough-terrain trucks — User  
requirements —**

Part 5:  
**Interface between rough-terrain  
truck and integrated personnel work  
platform**

*Chariots tout-terrain — Exigences pour l'utilisateur —*

*Partie 5: Interface entre le chariot et la plateforme de travail intégrée*





## **COPYRIGHT PROTECTED DOCUMENT**

© ISO 2015, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Ch. de Blandonnet 8 • CP 401  
CH-1214 Vernier, Geneva, Switzerland  
Tel. +41 22 749 01 11  
Fax +41 22 749 09 47  
copyright@iso.org  
www.iso.org

# Contents

Page

<b>Foreword</b> .....	<b>iv</b>
<b>Introduction</b> .....	<b>v</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>
<b>4 General safety requirements</b> .....	<b>2</b>
4.1 Principles.....	2
4.2 Operator's manual.....	2
4.3 Modifications or alterations.....	2
4.4 Manufacturer's bulletins.....	2
4.5 Operator qualifications.....	2
4.6 Operator's responsibility for training.....	2
4.7 Operator training.....	2
4.7.1 Operator training programme.....	2
4.7.2 Testing, retraining, enforcement, and record keeping.....	3
4.8 Inspection and maintenance.....	3
4.8.1 General.....	3
4.8.2 Cable and connections.....	3
<b>5 Operating safety rules and precautions</b> .....	<b>4</b>
5.1 Operator's responsibility for safety.....	4
5.2 Visual inspection and functional tests.....	4
5.3 Integrated PWP interface approval.....	4
5.4 General operating instructions.....	4

## 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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 110, *Industrial trucks*, Subcommittee SC 4, *Rough-terrain trucks*.

ISO 11525 consists of the following parts, under the general title *Rough-terrain trucks — User requirements*:

- *Part 1: General requirements*
- *Part 2: Slewing variable-reach trucks*
- *Part 4: Additional requirements for variable-reach trucks handling freely suspended loads*
- *Part 5: Interface between rough-terrain truck and integrated personnel work platform*

The following parts are planned:

- *Part 6: Agricultural applications*

## Introduction

Rough-terrain trucks, when allowed, can be fitted with an integrated or non-integrated personnel work platform (PWP) which is designed to elevate personnel and materials to elevated work heights. The interface between the truck and the integrated PWP is an essential element to the safety of personnel in the integrated PWP.

This part of ISO 11525 only deals with the interface between a rough-terrain truck and an integrated personnel work platform (PWP), hereafter referred to as integrated PWP, which in this case is considered as interchangeable equipment.

See ISO 18479-2 for user requirements for rough-terrain trucks fitted with a non-integrated personnel work platform (PWP).





# Rough-terrain trucks — User requirements —

## Part 5:

# Interface between rough-terrain truck and integrated personnel work platform

## 1 Scope

This part of ISO 11525 defines user requirements for the interface between a non-slewing or slewing variable-reach rough-terrain truck (hereafter referred to as truck) and an integrated work platform (hereafter referred to as integrated PWP).

It is intended to achieve the following:

- the prevention of personal injuries, property damage, and accidents;
- the establishment of criteria for inspection, maintenance, operation, and training.

NOTE 1 National or local requirements can apply, which could be more stringent.

It does not address the user requirements related to the truck itself or the user requirements for the integrated PWP that is fitted.

NOTE 2 User requirements for variable-reach trucks are given in ISO 11525-1.

NOTE 3 User requirements for slewing variable-reach trucks are given in ISO 11525-2.

## 2 Normative references

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

ISO 10896-1, *Rough-terrain trucks — Safety requirements and verification — Part 1: Variable-reach trucks*

ISO 10896-2, *Rough-terrain trucks — Safety requirements and verification — Part 2: Slewing variable-reach trucks*

ISO 10896-5, *Rough-terrain trucks — Safety requirements and verification — Part 5: Interface between rough-terrain truck and integrated personnel work platform*

ISO 11525-1, *Rough-terrain trucks - User requirements — Part 1: General requirements*

ISO 11525-2, *Rough-terrain trucks — User requirements — Part 2: Slewing variable-reach trucks*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 10896-1, ISO 10896-2, ISO 10896-5, ISO 11525-1, and ISO 11525-2 apply.

## **4 General safety requirements**

### **4.1 Principles**

This part of ISO 11525 shall be supplemented by good management practices, safety controls, and application of sound principles of safety, training, inspection, maintenance, application selection, and operation. All data available regarding the parameters of intended use and expected environment shall be considered. Those with direct control over the application and operation of the interface between a truck and the integrated PWP shall be responsible for ensuring good safety practices.

**NOTE** Different operating conditions can require additional safety precautions, training, and special safe operating procedures.

The operation of this interface is subject to certain hazards that can be protected against only by the exercise of care and common sense. It is essential to have competent persons trained in the intended use, safe operation, maintenance, and service of this equipment.

The user shall ensure that the operator understands that safe operation of this interface is also the operator's responsibility.

The user shall ensure that the operator's mental or physical condition will not impair his/her ability to operate this interface.

### **4.2 Operator's manual**

The user shall ensure that the operator's manual and any additional safety manuals provided by the manufacturer with the interface are always available to the operator and maintenance personnel.

### **4.3 Modifications or alterations**

The user shall comply with the requirements of ISO 11525-1 or ISO 11525-2, as applicable, in regards to modifications or alterations.

### **4.4 Manufacturer's bulletins**

The user shall comply with the applicable bulletins as directed by the responsible entity.

### **4.5 Operator qualifications**

Users shall allow only competent and authorized persons to operate the interface. Truck operators shall be competent to operate the equipment safely, in addition to being trained in accordance with ISO 11525-1 or ISO 11525-2, as applicable.

### **4.6 Operator's responsibility for training**

Before operating the interface, the operator shall be trained in accordance with ISO 11525-1 or ISO 11525-2, as applicable, and shall have read and be familiar with the operator's manual(s) and any other safety information provided by the manufacturer and user on the particular interface being operated, the application, and environment in which the interface is to be used.

### **4.7 Operator training**

#### **4.7.1 Operator training programme**

Personnel who are not considered competent to operate an interface shall operate the interface only as part of the operator training programme. This training shall be conducted under the direct supervision of a trainer.

The training programme shall emphasize safe and proper operation that avoids injury to the operator and others and prevents property damage. The training program shall include the following items:

- a) information about the interface the trainee will operate pointing out that
  - 1) the truck manufacturer shall have approved the interface between the truck and the integrated PWP,
  - 2) operating and safety instructions are in the truck's operator's manual, and
  - 3) inspections and maintenance may need to be performed by the operator;
- b) operation and worksite-related topics pointing out that
  - 1) all components of the interface, including the quick coupling device, if fitted, should be in place and operating properly in accordance with the manufacturer's instructions,
  - 2) the integrated PWP is securely attached to the truck prior to use,
  - 3) the integrated PWP engagement system shall be securely in place at all attaching points,
  - 4) the locking system shall be in place and that the engagement system shall be retained, and
  - 5) prior to uncoupling the interface from the truck
    - i) there should be no occupants in the integrated PWP,
    - ii) the integrated PWP be on the ground, and
    - iii) there is sufficient clearance around the truck and integrated PWP.

#### **4.7.2 Testing, retraining, enforcement, and record keeping**

Testing, retraining, enforced, and record keeping shall be in accordance with ISO 11525-1 or ISO 11525-2, as applicable.

### **4.8 Inspection and maintenance**

#### **4.8.1 General**

The inspection and maintenance of the interface shall be performed in accordance with the manufacturer's and user's recommendations, national regulations and

- a) a planned system for scheduled inspection, lubrication, maintenance and adjustment (as required), and
- b) that only competent and authorized persons are permitted to maintain, repair, rebuild, adjust and inspect the interface, in accordance with the manufacturer's recommendations.

#### **4.8.2 Cable and connections**

In addition to the inspection and maintenance requirements of ISO 11525-1 or ISO 11525-2, as applicable, the user shall direct the operator to ensure that all electrical connections that are part of the interface

- a) are inspected for possible damage or wear, and
- b) are properly connected with the controls on the integrated PWP.

## 5 Operating safety rules and precautions

### 5.1 Operator's responsibility for safety

The operator is responsible for the safe operation of the interface.

Before operating the interface, the operator shall have read and be familiar with the operator's manual, and any additional safety manuals provided by the manufacturer and user, for the particular interface being operated.

The operator shall develop safe working practices and shall be aware of hazardous conditions, utilizing all means, including those provided by the user, to protect himself/herself, other personnel, the interface, and the local environment.

The operator shall be familiar with the operation and functions of all controls and instruments before operating the interface.

### 5.2 Visual inspection and functional tests

The user shall direct the operator to ensure that all components of the interface are in place and operating properly in accordance with the manufacturer's instructions.

Verification shall be by visual inspection and functional test.

### 5.3 Integrated PWP interface approval

The user shall ensure that the interface between the truck and the integrated PWP has been approved by the truck manufacturer.

### 5.4 General operating instructions

As directed by the user, the operator shall

- a) before attaching the integrated PWP
  - 1) have read the operating and safety instructions,
  - 2) understand the operating and safety instructions are in the truck's operator's manual, and
  - 3) ensure that all components of the interface are in place and operating properly in accordance with the manufacturer's instructions,
- b) if fitted with a quick coupling device, ensure that this device is operating properly,
- c) when securing the integrated PWP
  - 1) ensure that the integrated PWP is securely attached to the truck prior to use,
  - 2) ensure that the integrated PWP engagement system is securely in place at all attaching points, and
  - 3) ensure that the locking system is in place and that the engagement system is retained, and
- d) prior to uncoupling the interface from the truck
  - 1) ensure that there are no occupants in the integrated PWP,
  - 2) ensure that the integrated PWP is on the ground, and
  - 3) ensure that there is sufficient clearance around the truck and integrated PWP.







# British Standards Institution (BSI)

BSI is the national body responsible for preparing British Standards and other standards-related publications, information and services.

BSI is incorporated by Royal Charter. British Standards and other standardization products are published by BSI Standards Limited.

## About us

We bring together business, industry, government, consumers, innovators and others to shape their combined experience and expertise into standards-based solutions.

The knowledge embodied in our standards has been carefully assembled in a dependable format and refined through our open consultation process. Organizations of all sizes and across all sectors choose standards to help them achieve their goals.

## Information on standards

We can provide you with the knowledge that your organization needs to succeed. Find out more about British Standards by visiting our website at [bsigroup.com/standards](http://bsigroup.com/standards) or contacting our Customer Services team or Knowledge Centre.

## Buying standards

You can buy and download PDF versions of BSI publications, including British and adopted European and international standards, through our website at [bsigroup.com/shop](http://bsigroup.com/shop), where hard copies can also be purchased.

If you need international and foreign standards from other Standards Development Organizations, hard copies can be ordered from our Customer Services team.

## Subscriptions

Our range of subscription services are designed to make using standards easier for you. For further information on our subscription products go to [bsigroup.com/subscriptions](http://bsigroup.com/subscriptions).

With **British Standards Online (BSOL)** you'll have instant access to over 55,000 British and adopted European and international standards from your desktop. It's available 24/7 and is refreshed daily so you'll always be up to date.

You can keep in touch with standards developments and receive substantial discounts on the purchase price of standards, both in single copy and subscription format, by becoming a **BSI Subscribing Member**.

**PLUS** is an updating service exclusive to BSI Subscribing Members. You will automatically receive the latest hard copy of your standards when they're revised or replaced.

To find out more about becoming a BSI Subscribing Member and the benefits of membership, please visit [bsigroup.com/shop](http://bsigroup.com/shop).

With a **Multi-User Network Licence (MUNL)** you are able to host standards publications on your intranet. Licences can cover as few or as many users as you wish. With updates supplied as soon as they're available, you can be sure your documentation is current. For further information, email [bsmusales@bsigroup.com](mailto:bsmusales@bsigroup.com).

## BSI Group Headquarters

389 Chiswick High Road London W4 4AL UK

## Revisions

Our British Standards and other publications are updated by amendment or revision.

We continually improve the quality of our products and services to benefit your business. If you find an inaccuracy or ambiguity within a British Standard or other BSI publication please inform the Knowledge Centre.

## Copyright

All the data, software and documentation set out in all British Standards and other BSI publications are the property of and copyrighted by BSI, or some person or entity that owns copyright in the information used (such as the international standardization bodies) and has formally licensed such information to BSI for commercial publication and use. Except as permitted under the Copyright, Designs and Patents Act 1988 no extract may be reproduced, stored in a retrieval system or transmitted in any form or by any means – electronic, photocopying, recording or otherwise – without prior written permission from BSI. Details and advice can be obtained from the Copyright & Licensing Department.

## Useful Contacts:

### Customer Services

**Tel:** +44 845 086 9001

**Email (orders):** [orders@bsigroup.com](mailto:orders@bsigroup.com)

**Email (enquiries):** [cservices@bsigroup.com](mailto:cservices@bsigroup.com)

### Subscriptions

**Tel:** +44 845 086 9001

**Email:** [subscriptions@bsigroup.com](mailto:subscriptions@bsigroup.com)

### Knowledge Centre

**Tel:** +44 20 8996 7004

**Email:** [knowledgecentre@bsigroup.com](mailto:knowledgecentre@bsigroup.com)

### Copyright & Licensing

**Tel:** +44 20 8996 7070

**Email:** [copyright@bsigroup.com](mailto:copyright@bsigroup.com)



...making excellence a habit.™