

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST ISO 7752-2:2012](https://standards.iteh.ai/catalog/standards/sist/121f5ac5-85db-42ce-b9de-0384cc9bb888/sist-iso-7752-2-2012)

<https://standards.iteh.ai/catalog/standards/sist/121f5ac5-85db-42ce-b9de-0384cc9bb888/sist-iso-7752-2-2012>

INTERNATIONAL STANDARD

ISO
7752-2

Second edition
2011-11-01

Cranes — Control layout and characteristics —

Part 2:

Basic arrangement and requirements for mobile cranes

*Appareils de levage à charge suspendue — Disposition et
caractéristiques des commandes —*

(Partie 2 Disposition et exigences de base pour les grues mobiles)

[SIST ISO 7752-2:2012](https://standards.iteh.ai/catalog/standards/sist/121f5ac5-85db-42ce-b9de-0384cc9bb888/sist-iso-7752-2-2012)

<https://standards.iteh.ai/catalog/standards/sist/121f5ac5-85db-42ce-b9de-0384cc9bb888/sist-iso-7752-2-2012>



Reference number
ISO 7752-2:2011(E)

© ISO 2011

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST ISO 7752-2:2012

<https://standards.iteh.ai/catalog/standards/sist/121f5ac5-85db-42ce-b9de-0384cc9bb888/sist-iso-7752-2-2012>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2011

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

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 7752-2 was prepared by Technical Committee ISO/TC 96, *Cranes*, Subcommittee SC 6, *Mobile cranes*.

This second edition cancels and replaces the first edition (ISO 7752-2:1985), which has been technically revised. It also incorporates the Addendum ISO 7752-2:1985/Add 1:1986.

ISO 7752 consists of the following parts, under the general title *Cranes — Control layout and characteristics*:

- Part 1: *General principles*
- Part 2: *Basic arrangement and requirements for mobile cranes*
- Part 3: *Tower cranes*
- Part 4: *Jib cranes*
- Part 5: *Overhead travelling cranes and portal bridge cranes*

Tech STANDARD PREVIEW
(standards.iteh.ai)

SIST ISO 7752-2:2012

[https://standards.iteh.ai/catalog/standards/sist/121f5ac5-85db-42ce-b9de-](https://standards.iteh.ai/catalog/standards/sist/121f5ac5-85db-42ce-b9de-0384cc9bb888/sist-iso-7752-2-2012)

[0384cc9bb888/sist-iso-7752-2-2012](https://standards.iteh.ai/catalog/standards/sist/121f5ac5-85db-42ce-b9de-0384cc9bb888/sist-iso-7752-2-2012)

Introduction

Mobile crane operators frequently transfer from one crane to another of different model or manufacturer. This part of ISO 7752 establishes a consistent arrangement and movement for the basic controls used during the crane-operating cycle, to reduce operator confusion or incorrect control in an emergency.

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST ISO 7752-2:2012](https://standards.iteh.ai/catalog/standards/sist/121f5ac5-85db-42ce-b9de-0384cc9bb888/sist-iso-7752-2-2012)

<https://standards.iteh.ai/catalog/standards/sist/121f5ac5-85db-42ce-b9de-0384cc9bb888/sist-iso-7752-2-2012>

Cranes — Control layout and characteristics —

Part 2: Basic arrangement and requirements for mobile cranes

1 Scope

This part of ISO 7752 establishes the arrangement, requirements and direction of movement of the basic controls for slewing, load hoisting and lowering, and boom luffing and telescoping, on mobile cranes as defined in ISO 4306-2. It deals with bi-directional controls and the basic arrangement and requirements for cross-shift levers (multi-directional controls). It is intended to be used in conjunction with ISO 7752-1.

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 4306-2, *Cranes — Vocabulary — Part 2: Mobile cranes*

ISO 7752-1, *Cranes — Control layout and characteristics — Part 1: General principles*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4306-2 and the following apply.

3.1

operator

person operating the crane for the purposes of positioning loads

[ISO 7752-1]

3.2

control

actuating device which forms an interface between the crane operator and crane control system

[ISO 7752-1]

3.3

control station

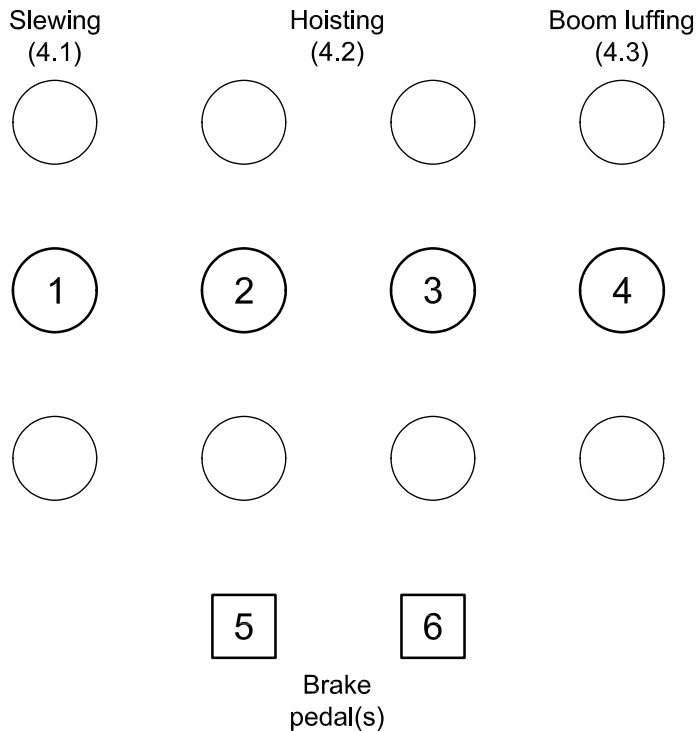
permanent position of controls on or off the crane

[ISO 7752-1]

4 Bi-directional levers, crane with fixed-length boom

The basic controls shall be arranged as shown in Figure 1.

ISO 7752-2:2011(E)



iTeh STANDARD PREVIEW
(standards.iteh.ai)

Figure 1 — Crane control diagram for cranes fitted with fixed-length boom

<https://standards.iteh.ai/catalog/standards/sist/121f5ac5-85db-42ce-b9de-0384cc9bb888/sist-iso-7752-2-2012>

4.1 Slewing control — Hand lever 1

Push the lever forward to slew towards the boom:

- slew left (operator's position on right side);
- slew right (operator's position on left side or centre of crane).

Centre the lever to release the slewing power.

Pull back the lever to reverse direction.

4.2 Hoisting control — Hand lever 2 and foot pedal 5, hand lever 3 and foot pedal 6

Pull the lever back to hoist the load.

Centre the lever to release the power and to hold the load (if equipped with an automatic brake) or to control the load by depressing the brake pedal.

Push the lever forward to lower the load.

4.3 Boom luffing control — Hand lever 4

Pull the lever back to raise the boom.

Centre the lever to hold the boom in position.

Push the lever forward to lower the boom.

4.4 Boom luffing control — Alternative arrangement (foot pedal operation)

The basic controls shall be arranged as shown in Figure 2.

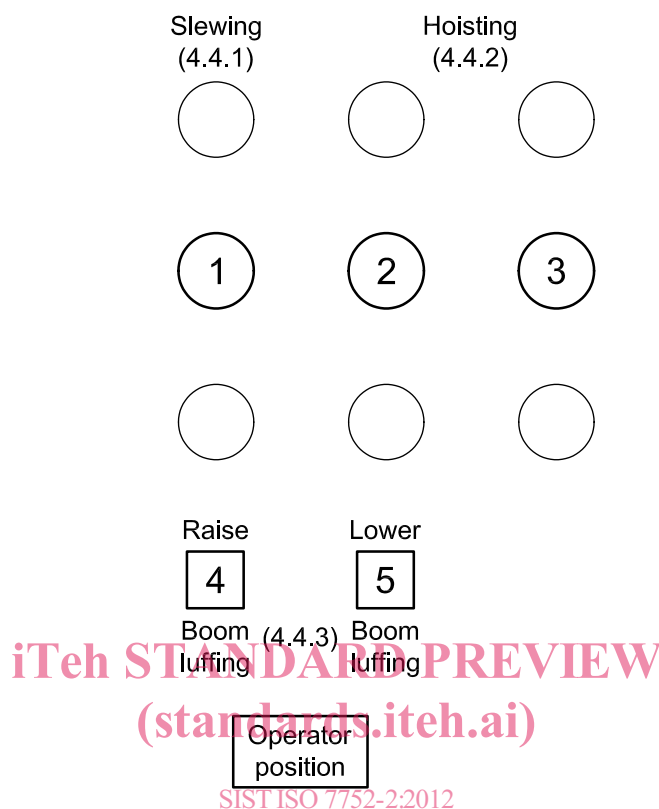


Figure 2 — Crane control diagram for cranes fitted with fixed-length boom and alternative arrangement for boom luffing control (foot pedals)

4.4.1 Slewing control — Hand lever 1

Push the lever forward to slew towards the boom:

- slew left (operator's position on right side);
- slew right (operator's position on left side or centre of crane).

Centre the lever to release the slewing power.

Pull back the lever to reverse direction.

4.4.2 Hoisting control — Hand lever 2, hand lever 3

Pull the lever back to hoist the load.

Centre the lever to release the power and to hold the load.

Push the lever forward to lower the load.

4.4.3 Boom luffing control — Foot pedals 4 and 5

Depress foot pedal 4 to raise the boom.

Depress foot pedal 5 to lower the boom.