



SLOVENSKI STANDARD

SIST ISO 7752-2:1997

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Dvigalna oprema - Upravljanje - Namestitvev in karakteristike - 2. del: Osnovna razporeditev in zahteve za mobilna dvigala

Lifting appliances -- Controls -- Layout and characteristics -- Part 2: Basic arrangement and requirements for mobile cranes

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Appareils de levage -- Organes de service -- Disposition et caractéristiques -- Partie 2: Disposition et exigences de base pour les grues mobiles

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Ta slovenski standard je istoveten z: **ISO 7752-2:1985**

ICS:

53.020.20 Dvigala Cranes

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International Standard



7752/2

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Lifting appliances — Controls — Layout and characteristics — Part 2 : Basic arrangement and requirements for mobile cranes

Appareils de levage — Organes de service — Disposition et caractéristiques — Partie 2 : Disposition et exigences de base pour les grues mobiles

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Ref. No. ISO 7752/2-1985 (E)

Descriptors : handling equipment, lifting equipment, cranes (hoists), mobile equipment, control devices, layout, operating requirements.

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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 7752/2 was prepared by Technical Committee ISO/TC 96, *Cranes, lifting appliances and related equipment*. (standards.iteh.ai)

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Lifting appliances — Controls — Layout and characteristics — Part 2 : Basic arrangement and requirements for mobile cranes

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0 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.

1 Scope and field of application

This part of ISO 7752 establishes the arrangement, requirements, and direction of movement of the basic controls for slewing, load hoisting and lowering and jib luffing and telescoping.

This part of ISO 7752 applies to all mobile cranes as defined in ISO 4306/2.

Section one deals with bi-directional controls. Section two, dealing with the basic arrangement and requirements for cross-shift levers (multi-directional controls), will be added later.

For mobile cranes, the term operator is used for the person who is operating the appliance for the purpose of positioning loads. In addition, the term driver is used to refer to that person who operates only those controls which move the appliance from place to place.

2 References

ISO 4306/2, *Lifting appliances — Vocabulary — Part 2 : Mobile cranes.*

ISO 7752/1, *Lifting appliances — Controls — Layout and characteristics — Part 1 : General principles.*

Section one : Bi-directional controls — Basic control arrangement and direction of movement

3 Crane with fixed length jib

Basic controls shall be arranged as shown in figure 1.

3.1 Slewing control — hand lever 1

Push lever forward to slew toward jib :

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

Centre lever to release slewing power.

Pull back lever to reverse direction.

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

Pull lever back to hoist load.

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

Push lever forward to lower load.

3.3 Jib luffing control — hand lever 4

Pull lever back to raise jib.

Centre lever to hold jib in position.

Push lever forward to lower jib.

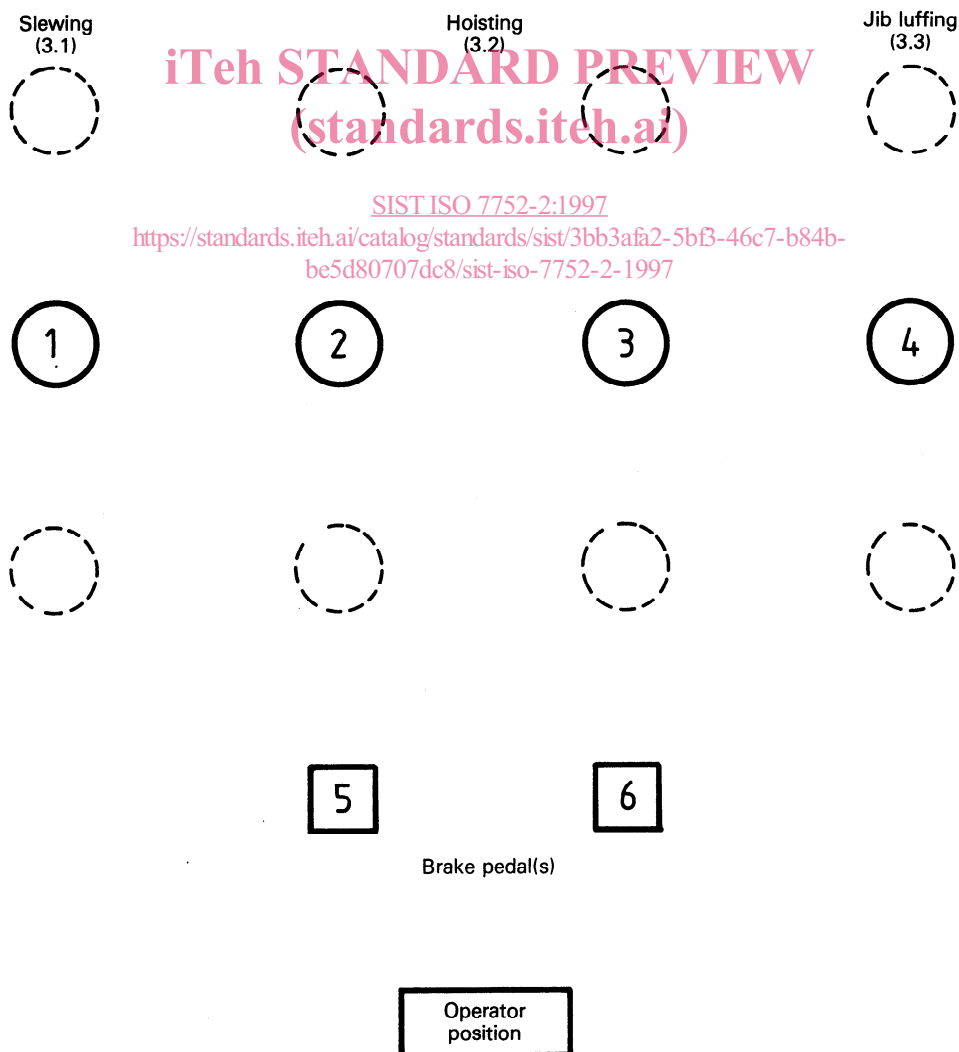


Figure 1 — Crane control diagram for crane fitted with a fixed length jib

3.4 Jib luffing control — alternative arrangement (foot pedal operation)

Basic controls shall be arranged as shown in figure 2.

3.4.1 Slewing control — hand lever 1

Push lever forward to slew toward jib :

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

Centre lever to release slewing power.

Pull back lever to reverse direction.

3.4.2 Hoisting control — hand lever 2, hand lever 3

Pull lever back to hoist load.

Centre lever to release power and to hold load.

Push lever forward to lower load.

3.4.3 Jib luffing control — foot pedals 4 and 5

Depress foot pedal 4 to raise jib.

Depress foot pedal 5 to lower jib.

Release foot pedals 4 and 5 to hold jib stationary.

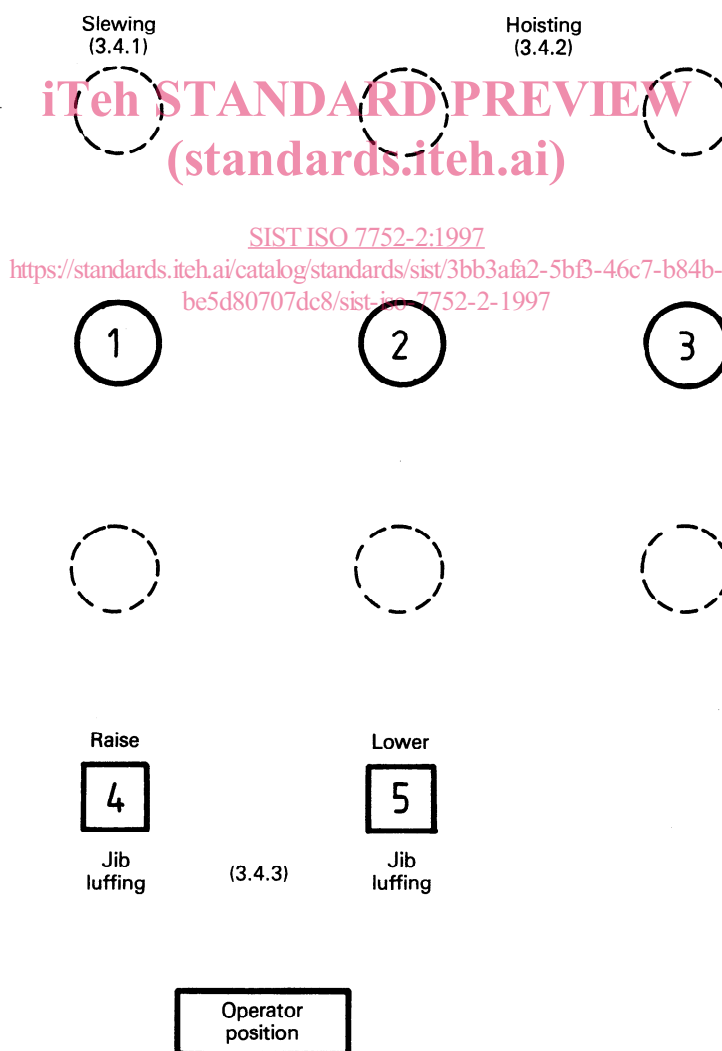


Figure 2 — Crane control diagram for crane fitted with a fixed length jib and alternative arrangement for jib luffing control (foot pedals)

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4 Crane with telescoping jib

Basic controls shall be arranged as shown in figure 3.

4.1 Slewing control — hand lever 1

Push lever forward to slew toward jib :

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

Centre lever to release slewing power.

Pull back lever to reverse directions.

4.2 Jib telescoping control**4.2.1 Hand lever 2**

Push lever forward to extend jib.

Centre lever to hold jib extension position.

Pull lever back to retract jib.

4.2.2 Foot pedal 6 (optional — in place of hand lever 2)

Rock pedal forward (toe down) to extend jib.

Centre pedal to hold jib extension position.

Rock pedal rearward (heel down) to retract jib.

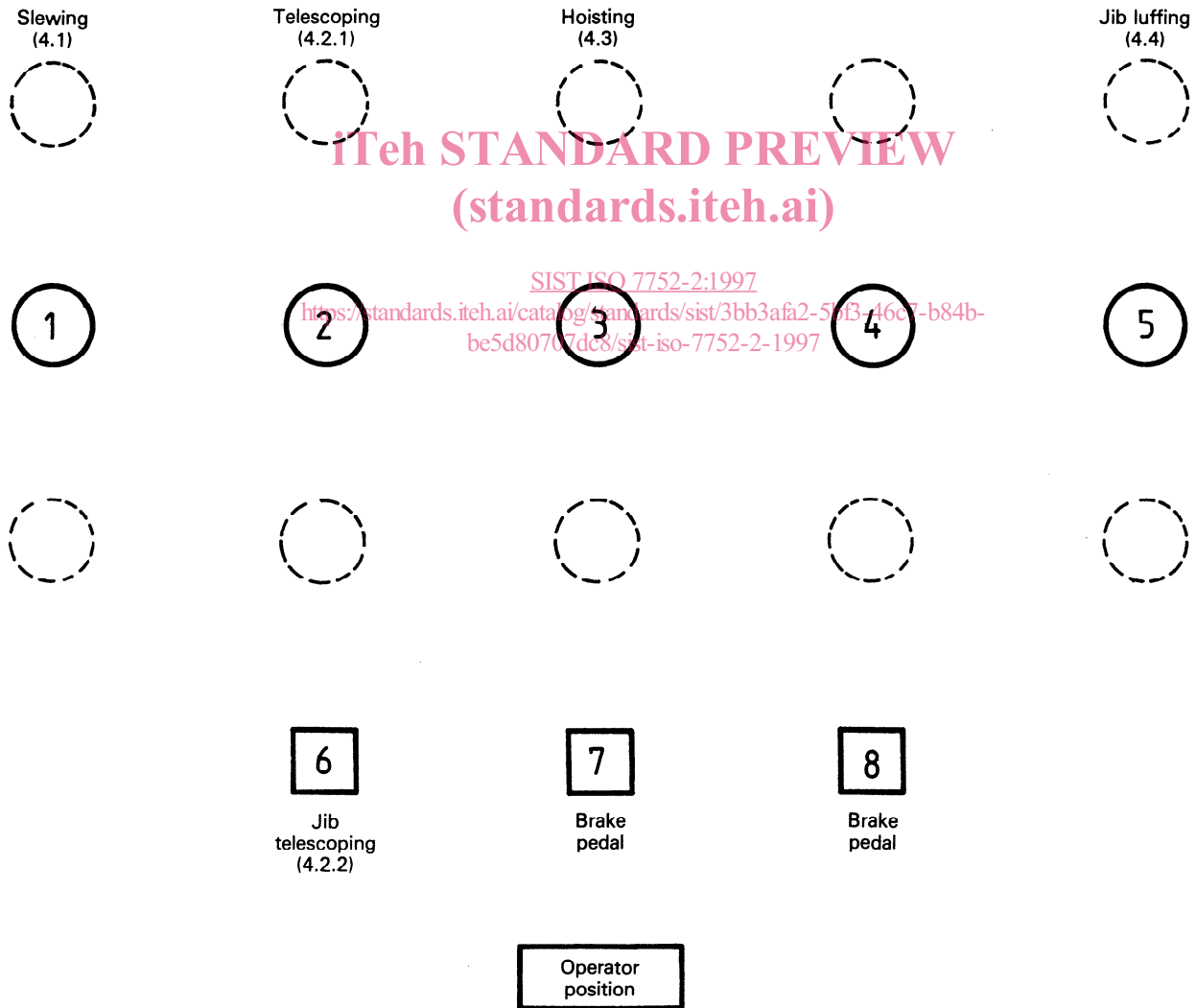


Figure 3 — Crane control diagram for crane fitted with a telescoping jib