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Cranes - Control layout and characteristics - Part 3: Tower cranes

Appareils de levage à charge suspendue - Disposition et caractéristiques des commandes - Partie 3: Grues à tour

Ta slovenski standard je istoveten z: **ISO 7752-3:2010**

ICS:

53.020.20 Dvigala Cranes

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INTERNATIONAL STANDARD

ISO 7752-3

Second edition
2010-06-01

Cranes — Control layout and characteristics —

Part 3: Tower cranes

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

Partie 3: Grues à tour

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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 7752-3 was prepared by Technical Committee ISO/TC 96, *Cranes*, Subcommittee SC 7, *Tower cranes*.

This second edition cancels and replaces the first edition (ISO 7752-3:1993), which has been technically revised.

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

— *Part 1: General principles*

— *Part 2: Mobile cranes*

— *Part 3: Tower cranes*

— *Part 4: Jib cranes*

— *Part 5: Overhead travelling cranes and portal bridge cranes*

Cranes — Control layout and characteristics —

Part 3: Tower cranes

1 Scope

This part of ISO 7752 specifies the particular requirements for the controls of tower cranes as defined in ISO 4306-3 and the arrangement of those basic controls used for positioning loads. It is intended to be used in conjunction with ISO 7752-1, which gives general principles and requirements for the controls of all types of cranes.

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 4306-3, *Cranes — Vocabulary — Part 3: Tower cranes*

ISO 7752-1:2010, *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 4306-3 and ISO 7752-1 apply.

4 Controls

4.1 General

Controls shall be in accordance with ISO 7752-1:2010, 4.1.

4.2 Operator fatigue

The requirements relating to operator fatigue shall be in accordance with ISO 7752-1:2010, 4.2.

4.3 Basic control arrangement

4.3.1 General

The basic controls shall be arranged as shown in Figure 1, and as follows:

— on the right: hoisting and lowering of the load, travelling of the crane;

— on the left: luffing or movement of the crab, slewing of the crane.

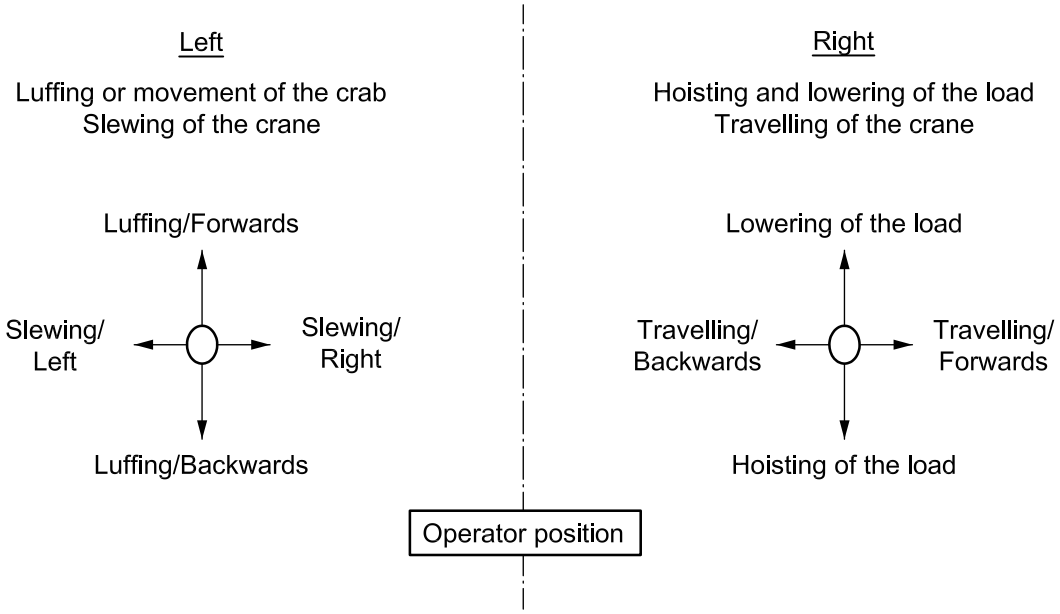

Figure 1 — Layout of tower crane controls

4.3.2 Control levers of the ball-and-socket or universal joint type

When control levers of the ball-and-socket or universal joint type are used, the movements of the crane shall correspond to the direction of lever movement given in Table 1.

Table 1 — Movements of crane and direction of lever movement

Movement of crane	Direction of lever movement
Hoisting of load, luffing in, inward movement of crab or jib if latter capable of moving horizontally	Towards operator (lever backwards)
Lowering of load, lowering of jib, outward movement of crab or jib if latter capable of moving horizontally	Away from operator (lever forwards)
Slewing to right	Lever to operator's right
Slewing to left	Lever to operator's left
Travelling of crane	Lever to operator's left or right, depending on position of operator in relation to desired direction of travel

5 Consoles

Consoles shall be in accordance with ISO 7752-1:2010, Clause 5.

6 Stop

The time value for the stop control shall be 1 s, as given in IEC 60204-32:2008, 9.2.7.3.