

INTERNATIONAL STANDARD

ISO
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Cranes — Information labels —

Part 3: Tower cranes

Appareils de levage à charge suspendue — Plaques descriptives —

Partie 3: Grues à tour



Reference number
ISO 9942-3:1999(E)

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 3.

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.

International Standard ISO 9942-3 was prepared by Technical Committee ISO/TC 96, *Cranes*, Subcommittee SC 7, *Tower cranes*.

ISO 9942 consists of the following parts, under the general title *Cranes — Information labels*:

- *Part 1: General*
- *Part 3: Tower cranes*

Cranes — Information labels —

Part 3: Tower cranes

1 Scope

This part of ISO 9942 gives minimum requirements concerning information labels for tower cranes.

2 Normative reference

The following normative document contains provisions which, through reference in this text, constitute provisions of this part of ISO 9942. For dated references, subsequent amendments to, or revisions of, this publication do not apply. However, parties to agreements based on this part of ISO 9942 are encouraged to investigate the possibility of applying the most recent edition of the normative document indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 9942-1:1994, *Cranes — Information labels — Part 1: General*.

3 Identification data

3.1 Manufacturer's data

Manufacturer's data for tower cranes shall be as specified in ISO 9942-1:1994, 2.1.

3.2 Rated capacity data

A durable rating chart with legible letters and figures shall be provided with each crane and attached in a location visible to the crane driver when seated at the controls and at remote control stations. The content of these charts shall include but is not limited to the following:

- a) a full and complete range of crane load ratings at all stated operating radii, jib lengths, hoist-line reeving and, where appropriate, for each available hoist-line velocity range and recommended counterweight arrangement;
- b) precautionary or warning notes relative to limitations on equipment and operating procedures;
- c) maximum permissible in-service wind velocity;
- d) advice that slings and lifting attachments are parts of the load. If the lower load block is considered as part of the load, the rating chart shall so state.

In addition, the capacities and the corresponding outreaches shall be displayed to the crane driver so that they can be easily read from the operating position. If the length and the angle of the jib can vary during operation, the angle shall also be displayed.

If plates or metal flags are fixed to the jib to show the rated capacities, they shall be arranged so that they are always legible and clearly visible to the crane driver. For cranes intended for various operating and set-up arrangements, the data and displays shall correspond to the actual arrangement.

4 Information on operation of the crane by the crane driver

4.1 Control installations and indicating devices

All controls shall be labelled in words or symbols to indicate their function and, where appropriate, the direction of the motion imparted. The information shall be easily legible and be attached where it is clearly visible.

4.2 Emergency instructions

Emergency instructions and warning notices which are deemed necessary by the manufacturer shall be placed on labels positioned where they can be seen clearly by the crane driver.

4.3 Tasks of the crane driver

Information on the tasks of the tower crane driver shall be as specified in ISO 9942-1:1994, 3.2.

5 Information for persons within working range of the crane

Warnings of hazards that may affect persons working on or around the crane shall be posted at suitable locations in the form of written labels, painted hazard stripes and/or symbols as appropriate.