
Cranes — Crane driving manual —
Part 2:
Mobile crane operators

Appareils de levage à charge suspendue — Manuel à l'usage des conducteurs —

Partie 2: Opérateurs de grues mobiles

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Foreword

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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 9928-2 was prepared by Technical Committee ISO/TC 96, *Cranes*, Subcommittee SC 6, *Mobile cranes*.

ISO 9928 consists of the following parts, under the general title *Cranes — Crane driving manual*:

- *Part 1: General*
- *Part 2: Mobile crane operators*

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Cranes — Crane driving manual —

Part 2:

Mobile crane operators

1 Scope

This part of ISO 9928 specifies the contents of a manual for the operators of mobile cranes as defined in ISO 4306-2.

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 4306-1:—¹⁾, *Cranes — Vocabulary — Part 1: General*

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

ISO 9928-1:1990, *Cranes — Crane driving manual — Part 1: General*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4306-1 and the following apply.

3.1

crane operator

person who uses (operates) the crane controls

[ISO 4306-1:—, 7.1]

NOTE For mobile cranes, the term “driver” is generally used to refer to that person who operates only those controls which move the crane from place to place.

4 Presentation of the manual

ISO 9928-1:1990, Clause 4, shall apply, with the exception of 4.2 e).

1) To be published. (Revision of ISO 4306-1:1990)

5 Contents

5.1 Technical data

This section of the manual shall include technical data for the crane operator which are necessary for operating, maintaining, inspecting and servicing the crane. The following are examples of this technical data:

- a) general dimensions;
- b) schematic diagrams;
- c) lubrication and fluids;
- d) machine and component weights;
- e) wire rope specifications;
- f) performance specifications;
- g) rated capacities (may be supplied in a separate book).

5.2 General safety instructions

This section of the manual shall include general safety rules applicable to both crane and job site practices.

It shall address aspects including

- a) electrical hazards (working in the vicinity of overhead power lines, etc.),
- b) load handling,
- c) setting up crane,
- d) access, egress,
- e) warning and crane-related hand signals, and
- f) environmental conditions such as wind or temperature limitations.

5.3 Controls, control or work stations

5.3.1 Crane travelling on road

This section of the manual shall illustrate all controls, pedals, gauges, warning lights, symbols, etc. of operation and explain their function. All gauges, indicators and lights shall have an explanation of their function.

5.3.2 Positioning loads

This section of the manual shall illustrate all controls, levers, pedals, switches, gauges, warning lights, symbols, etc. All controls shall have an explanation of their operation. All gauges, indicators and lights shall have an explanation and/or instruction by means of graphical symbols.

5.4 Crane information

This section of the manual shall include information on the following:

- a) boom and attachments: instructions for their installation, assembly and disassembly and limitations of use;
- b) hoist line reeving: instructions on how to select and reeve the correct parts of line for lift;
- c) instructions on the assembly, disassembly and storage of the crane;
- d) inspections: instructions on the inspection responsibilities of the crane operator, including information on wire rope discard criteria, correct fluid levels, etc.;

- e) maintenance instructions and the responsibilities of the crane operator;
- f) load charts and their use;
- g) special operations.

5.5 Operation

This section of the manual shall contain explanations on how to carry out the following:

- a) pre-start inspection, which the operator is expected to carry out prior to starting the machine;
- b) start up: information relative to starting the engine, cold weather starting, jump-starting, etc.;
- c) travelling: information on moving the crane on the road or job site. Provide information on the use of the transmission and brakes, inclines, the position of the upper structure, boom elevation, etc.;
- d) set-up: information on setting up the crane, on outriggers, ground conditions, operational aids, safety devices, etc.;
- e) load positioning: information on positioning loads at the job site, which shall include the lifting of loads on outriggers and/or tyres, and the applicable positioning of the upper structure, among others;
- f) loading/unloading: instructions on the correct procedures for loading, unloading and transporting the crane on other vehicles.

5.6 Leaving the crane out of service

This section of the manual shall contain the following:

- a) instruction on the correct parking of the crane;
- b) information on the allowable wind speed.

Bibliography

- [1] ISO 31-0:1992, *Quantities and units — Part 0: General principles*

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