
International Standard



7363

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Cranes and lifting appliances — Technical characteristics and acceptance documents

Grues et appareils de levage — Caractéristiques techniques et documents d'acceptation

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Descriptors : cranes (hoists), lifting equipment, specifications, certification, technical data sheets.

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 7363 was prepared by Technical Committee ISO/TC 96, *Cranes, lifting appliances and related equipment*.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

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Cranes and lifting appliances — Technical characteristics and acceptance documents

1 Scope

This International Standard establishes the form of presentation and content of the documents which a manufacturer should provide with cranes and lifting appliances (hereafter called "equipment"). Such documents give technical information and include acceptance documents for the equipment to facilitate its installation, testing and use. Specimen acceptance documents are given in the annex.

2 Field of application

This International Standard applies to all types of equipment defined in ISO 4306/1. For specific appliances, only data relating to these appliances (listed in ISO 4306/1) shall be included.

If necessary, the documents may be supplemented (or amended) with information to define specific features of a particular appliance.

3 References

ISO 4301, *Lifting appliances — Classification*.

ISO 4306/1, *Lifting appliances — Vocabulary — Part 1: General*.

4 Document content

4.1 The documents shall contain the basic specifications and nominal ratings of the equipment as supplied by the manufacturer, and shall list the principal parameters and operating conditions appropriate to the intended use of the equipment.

4.2 In compliance with clause 1, the documents shall contain general data, technical characteristics of the equipment and its assembly units, and acceptance documents.

4.3 Clause A.1, general data, shall contain information on both the vendor and the manufacturer of the equipment, basic

data of the equipment, characteristics of the environment and job site, and other general information.

4.4 Clause A.2 on technical characteristics shall detail the equipment and its component parts in terms of overall dimensions, working configurations, mass of units and other relevant parameters.

4.5 The acceptance documents shall record technical data on the actual condition of the equipment and its component parts, and be witnessed and confirmed during the final tests by a competent person, prior to acceptance.

5 Presentation and format of documents

5.1 The documents shall be compiled in the national language (or languages in multilingual countries) of the country in which the equipment is to be used, unless otherwise decided by mutual agreement between the parties to the contract.

5.2 Should the contract provide for the documents to be presented in the language of the country of origin, then a second copy of the documents shall be supplied with all the sketches and dimensions inserted, but with the text omitted. This will facilitate a translation into the language(s) of the countries where the equipment is to be used.

5.3 The format of acceptance documents, which may vary from country to country, shall be in accordance with the national regulations or practice of the country of manufacture. Specimen acceptance documents are shown in clause A.5 of the annex.

5.4 The documents shall be compiled using A4 pages (of 210 mm × 297 mm) (for printed editions — 218 mm × 290 mm).

5.5 Where larger pages are required for technical data, then sizes 315 mm × 297 mm, 420 mm × 297 mm, etc. are preferred (for printed editions — 327 mm × 290 mm, 436 mm × 290 mm, etc.).

5.6 The layout of the tables may be altered if the data required by this International Standard are provided.

Annex
Specimen acceptance documents
(This annex forms an integral part of the Standard.)

ISO description of equipment :
.....
.....
Identification, equipment reference :
.....
.....

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Technical characteristics and acceptance documents

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[Space for manufacturer's and/or
vendor's trade-name
(trade-mark)]

Country :

Warning

- 1 These documents shall be available to the persons who own, operate, inspect, and maintain the equipment.
- 2 Before use, the owner/user shall have the equipment examined and tested (as appropriate) by a competent person. The results shall be recorded in clause A.5, Acceptance documents.
- 3 Other data which should be noted by the equipment owner/user/competent person :
 - 3.1 :
 - 3.2 :
 - 3.3 :

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Name of document based on which the equipment has been manufactured :

Number of document, date of issue and body issuing the document :

A.1 General data

A.1.1 Name and address of manufacturer, including information on major sub-contractors :

A.1.2 Name and address of vendors (distributor or agent), including maintenance and spares facilities :

A.1.3 Equipment data

A.1.3.1 Illustration (photograph or sketch) of equipment in working position.

A.1.3.2 Equipment type (in accordance with ISO 4306/1) :

A.1.3.3 Serial No. :

A.1.3.4 Year of manufacture (ex-works) :

A.1.3.5 Group classification (in accordance with ISO 4301) :

A.1.3.6 Power source :

A.1.3.7 Function of equipment :

A.1.4 Environment where equipment can operate (temperature, permissible wind speed for both in-service and out-of-service conditions of equipment, and other features of the environment such as explosive, flammable or saline environments) :

A.1.5 Requirements on job site for mobile cranes (slope, permissible ground pressure, etc.) :

A.1.6 Requirements on tracks (parallelism, horizontality, alignment, maximum permissible difference in level across tracks) : ...

A.1.7 Basic engineering codes of practice, regulations, technical supervision instructions, standards, etc. followed when manufacturing the equipment (designations and titles) :

A.2 Specifications and technical characteristics of equipment

A.2.1 Basic characteristics of equipment (for mobile cranes, with main working attachments)

A.2.1.1 Maximum load lifting capacity of main/auxiliary lift, t (e.g. 100/25 t) :

A.2.1.2 Maximum load moment of main/auxiliary lift, t · m :

A.2.1.3 Appropriate radius, m :

A.2.1.4 Minimum turning radius (for mobile cranes) m :

A.2.1.5 Appropriate maximum lifting height¹⁾, m :

A.2.1.6 Maximum depth of lowering¹⁾, m :

A.2.1.7 Span, cantilever outreach, m :

A.2.2 Drive and control

A.2.2.1 Type of drive :

A.2.2.2 Type of control :

A.2.2.3 Feasibility of carrying out combined operations :

A.2.2.4 Location of control stations :

A.2.2.5 Power supply : see table 1.

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Table 1 — Power supply

Circuitry	Current A (a.c. or d.c.)	Voltage V	Number of phases
Power			
Control			
Working lighting			
Repairs lighting			

A.2.3 Height and load ratings

Tables and/or charts of height and load ratings (see A.2.3.1 and A.2.3.2) shall be drawn up for all those combinations of working applications and equipment configurations for which operation of the crane is envisaged.

Tables and/or charts shall be supplemented with necessary symbols and other indications for both calculating the load ratings and interpreting the tables and/or charts. Combination of tables and/or charts specified in A.2.3.1 and A.2.3.2 is allowed.

A.2.3.1 Lifting height ratings (tables and/or charts).

A.2.3.2 Load ratings (tables and/or charts).

1) Relative to a datum of ground level.