

---

---

## Mobile cranes — Presentation of rated capacity charts

*Grues mobiles — Présentation des tableaux de charges*



This document is a preview generated by EUS



# **COPYRIGHT PROTECTED DOCUMENT**

© ISO 2022

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
CP 401 • Ch. de Blandonnet 8  
CH-1214 Vernier, Geneva  
Phone: +41 22 749 01 11  
Email: [copyright@iso.org](mailto:copyright@iso.org)  
Website: [www.iso.org](http://www.iso.org)

Published in Switzerland

# Contents

Page

<b>Foreword</b>	<b>iv</b>
<b>1 Scope</b>	<b>1</b>
<b>2 Normative references</b>	<b>1</b>
<b>3 Terms and definitions</b>	<b>1</b>
<b>4 Crane rating manual</b>	<b>2</b>
4.1 General	2
4.2 Content of manual	2
4.2.1 Boom extend modes and configurations	2
4.2.2 Counterweight configuration	2
4.2.3 Auxiliary equipment mass table	2
4.2.4 Working range diagrams	2
4.2.5 Forward stability	2
4.2.6 Backward stability	2
4.2.7 Working area diagram	3
4.2.8 Notes	3
4.2.9 Maximum outrigger reaction	3
<b>5 Rated capacity chart</b>	<b>3</b>
5.1 Data required	3
<b>6 Data publication — General requirements</b>	<b>4</b>
6.1 General	4
6.2 Language	4
6.3 Crane rating manuals published in physical form	4
6.3.1 Paper/chart	4
6.3.2 Cover	4
6.3.3 Binding	4
6.3.4 Page layout	4
6.3.5 Reproductions	4
6.4 Readability and print (type) size	5
6.5 Crane rating manuals published in electronic form	5
<b>7 Data location</b>	<b>5</b>
7.1 Placement	5
7.2 Fastening	5
<b>8 Data presentation</b>	<b>5</b>
<b>Annex A (informative) Examples of data presentation formats</b>	<b>6</b>

## 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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 96, *Cranes*, Subcommittee SC 6, *Mobile cranes*.

This second edition cancels and replaces the first edition (ISO 11661:1998), which has been technically revised.

The main changes are as follows:

- added [6.5](#) for manuals in electronic form;
- re-labelled items in [Annex A](#) as examples.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

# Mobile cranes — Presentation of rated capacity charts

## 1 Scope

This document specifies a standard presentation or format for mobile crane rated capacities on rated capacity charts.

It is applicable to mobile cranes fitted with boom and boom/jib combinations as defined in ISO 4306-2.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 (all parts), *Cranes — Vocabulary — Part 2: Mobile cranes*

## 3 Terms and definitions

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

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

### 3.1

#### **crane rating manual**

collection of all *rated capacity charts* (3.2), working area definitions and diagrams, *working range diagrams* (3.3), allowable configurations, warning notes, and other information supplied by the manufacturer for crane operation

### 3.2

#### **rated capacity chart**

tabulation detailing a crane's lifting capacities, set-up and operational information for specific boom and boom/jib combinations, counterweight configurations, slew ranges and crane support configurations

### 3.3

#### **working range diagram**

side elevation view of the crane depicting the heights and radii for all allowable boom and boom/jib combinations

Note 1 to entry: It can also depict and warn about areas of instability.

### 3.4

#### **working area diagram**

plan (top) view of the crane depicting working areas (i.e. 360°, over side, over front) and operating limitations in these areas