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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 21458-2026

Replacing GB/T 21458-2008

Mobile cranes - Presentation of rated capacity charts

流动式起重机 额定起重量图表

(English Translation)

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document replaces GB/T 21458-2008 "Charts of Rated Lifting Capacities for Mobile Cranes" and is consistent with GB/T 21458-2008.

Compared to previous versions, aside from structural adjustments and editorial changes, the main technical changes are as follows.

a) The definitions of the terms "crane rated lifting capacity manual", "rated lifting capacity

table", "working range diagram", and "working area diagram" have been changed (see...).

3.1~3.4 (3.1~3.4 in the 2008 edition);

b) A general rule for the crane rated lifting capacity manual has been added (see 4.1);

c) The requirement for the number of rated lifting capacity tables has been removed (see 4.1.2 of the 2008 edition);

d) The requirements for differentiating rated lifting capacities determined under different conditions and the requirements for when the numerical column has no content to fill in have been deleted (see 2008).

Version 4.1.7);

e) Added requirements regarding boom extension modes and configurations, as well as counterweight configurations, to the rated lifting capacity manual (see 4.2.1 and...).

4.2.2);

f) The requirements for the add-on mass table, working range diagram, tilting stability, back tilting stability, and working area diagram have been changed (see...).

4.2.3~4.2.7 (4.2~4.5 in the 2008 edition)

g) Added requirements regarding the maximum support reaction force of the outriggers (see 4.2.9);

h) The requirement for illustrations and manufacturer identification has been removed (see 4.6 and 4.9 of the 2008 edition);

i) The contents of each rated lifting capacity table have been changed (see 5.1.1, 4.1.1 of the 2008 version);

j) The description of how information is displayed has been changed (see 5.1.2, 4.1.3 and 4.1.5 in the 2008 version);

k) The requirements for significant figures and units of ratings have been changed (see 5.1.3, 4.1.6 of the 2008 edition);

l) The descriptions of the additional devices and setup methods have been revised (see 5.1.4, 4.1.8 in the 2008 version);

m) The language requirements have been changed (see 6.2, 5.2 in the 2008 edition);

(n) Added requirements for the electronic publication of crane rated lifting capacity manuals (see 6.5);

o) The placement requirements for the crane rated lifting capacity manual have been changed (see 7.1, 6.1 of the 2008 edition);

- p) The description of data fixation has been changed (see 7.2, 6.2 in the 2008 edition);
- q) The typical location diagram of the crane's rated lifting capacity manual in the operator's cab has been removed (see Figure 1 in the 2008 edition).

This document is equivalent to ISO 11661:2022 "Charts of rated lifting capacities for mobile cranes".

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the China Machinery Industry Federation.

This document is under the jurisdiction of the National Technical Committee on Standardization of Lifting Machinery (SAC/TC227).

1 Scope

This document specifies the requirements and format for the rated lifting capacity chart of mobile cranes.

This document applies to mobile cranes equipped with a main boom or a combination of main and auxiliary booms as defined in ISO 4306-2.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included.

For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies.

This document.

ISO 4306 (all parts) Crane Terminology (Cranes - Vocabulary) Note. GB/T 6974 (all parts) Crane Terminology [ISO 4306 (all parts)].

3 Terms and Definitions

The terms and definitions defined in ISO 4306 (all parts) and the following terms and definitions apply to this document.

Crane Rated Lifting Capacity Manual all rated lifting capacity tables (see 3.2), work area definitions and diagrams, work range diagrams (see 3.3), permissible configurations, and warnings/precautions.

This is a compilation of items and other information provided by the manufacturer for crane operations.

Rated lifting capacity chart Detailed description of the crane's lifting capacity and settings under specific main boom or main/auxiliary boom combinations, counterweight configuration, slewing range, and support configuration.

A table containing operation information.

working range diagram A side view describing the height and radius that the crane can achieve under all permissible main boom or main and auxiliary boom combinations.

Note: You can also describe and warn about areas that have lost stability.

Working area diagram A top view describing the crane's working area (i.e., 360°, sides, front) and the limitations of the working area.

4.1 General Rules

Each crane should be provided with a crane rated lifting capacity manual, which should be available for operator control. Crane rated lifting capacity the quantity manual may be in electronic or physical form, such as paper, plastic, or metal. When provided in electronic form, a reference crane quantity should be provided with the crane.

An alternative to a manual for setting lifting capacity, and provided to crane operators when the electronic system malfunctions.