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

GB/T 17383-2025

Replacing GB/T 17383-2007

Ships and marine technology - Dredgers - Classification

船舶与海上技术 挖泥船 分类

(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 supersedes GB/T 17383-2007 "Classification of Shipbuilding and Offshore Structure Dredgers" and is consistent with GB/T 17383-2007.

Aside from structural adjustments and editorial changes, the main technical changes are as follows.

- a) Change the "Classification Criteria" to "Classification by Engineering Conditions", "Classification by Dredger Parameters", and "Classification by Operating Method" (see Table 1 and Table 2). (and Table 3, Table 1 of the 2007 edition);
- b) Added "Main Performance Parameters" and "Energy" (see 3 and 5 in Table 1);
- c) Added "partially detachable" (see 7.2 in Table 2);
- d) The terms "steam engine," "gas turbine," and "nuclear power" (items 3.1, 3.7, and 3.8 in Table 1 of the 2007 edition) have been deleted;
- e) Change "fine silt" to "fine sand" (see 2.9 in Table 1);
- f) Change "diesel-electric drive" to "diesel-electric" (see 4.3 in Table 2, 3.3 in Table 1 of the 2007 edition);
- g) Change "diesel-hydraulic drive" to "diesel-hydraulic" (see 4.4 in Table 2, and 3.4 in Table 1 of the 2007 edition);
- h) Change "non-self-propelled" to "non-self-propelled" (see 6.1 in Table 2, 4.1 in Table 1 of the 2007 edition);
- i) Change "self-propelled" to "self-propelled type" (see 6.2 in Table 2, 4.2 in Table 1 of the 2007 edition);
- j) Change "crewless cabins" to "no overnight cabins" (see 8.1 in Table 2, 6.1 in Table 1 of

the 2007 edition);

k) Change "seat cabin" to "work cabin" (see 8.2 in Table 2, 6.2 in Table 1 of the 2007 edition);

l) Change "sleeper cabin" to "with overnight cabin" (see 8.3 in Table 2, 6.3 in Table 1 of the 2007 edition);

m) Change "locating stake" to "stake" (see 12.3 in Table 3, 9.3 in Table 1 of the 2007 edition);

n) The term "single-bucket dredger" was changed to "single-bucket dredger," and the classification was modified (see 9.1 in Table 3, and Table 1 in the 2007 edition). 10.1);

o) The classification of "grab bucket dredgers" has been changed (see 9.2 in Table 3, and 10.2 in Table 1 of the 2007 edition);

p) Change "chain bucket dredger" to "bucket dredger" (see 9.3 in Table 3, 10.3 in Table 1 of the 2007 edition);

q) Change "riverbed leveler" to "seabed leveler" (see 9.5 in Table 3, 10.5 in Table 1 of the 2007 edition);

r) Added "water jet dredger" (see 9.6 in Table 3);

s) Change "Dredging Pump Type" to "Mud Pump Type" and modify the classification (see 9.7.1 in Table 3, Table 1 in the 2007 edition). 10.7.1);

t) Change "Disposal/Transportation of Excavated Material" to "Disposal/Transportation of Dredged Material" and modify the classification (see Table 3, 13, 2007).

1 Scope

This document defines the classification of various types of dredgers designed for loosening, excavating, transporting, and disposing of dredged materials.

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.

Note: GB/T 17843-2025 Terminology for Ships and Offshore Dredgers (ISO 8384:2019, IDT)

3 Terms and Definitions

The terms and definitions defined in ISO 8384 apply to this document.

4 Classification

Dredgers are classified according to the engineering conditions, dredger parameters, and operating methods specified in Tables 1, 2, and 3.

Table 1 Classification by Engineering Conditions

Classification of Engineering Conditions

1 Work Area

1.1 Inland waterways, inland ports and dredging sites

1.2 Sea Area

1.2.1 Ports and coastal areas

1.2.2 Offshore

1.2.3 Deep Sea

1.3 Special Environment

1.3.1 Tropical

1.3.2 Frigid Zones

1.3.3 Other Special Environments

2 Soil characteristics

2.1 Silt

2.2 Peat soil and organic soil

2.3 Sandy soil

2.4 Gravel

2.5 Clay

2.6 Boulders and Pebbles

2.7 Rocks

2.8 Mixed Soil