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

GB/T 18822.1-2025

Replacing GB/T 18822-2002

**Small craft - Determination of maximum propulsion power
rating using manoeuvring speed - Part 1: Craft with a length of
hull less than 8 m**

小艇 用操纵速度确定最大推进额定功率 第1部分：艇体长度小于8m的艇

(English Translation)

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Table of Contents

- Foreword
- Introduction
- 1 Scope
- 2 Normative references
- 3 Terms and Definitions
- 4 Determination and marking of maximum propulsion rated power
 - 4.1 Outboard motor driven boats

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 is Part 1 of GB/T 18822 "Determination of Maximum Propulsion Rated Power for Small Boats by Maneuvering Speed". GB/T 18822 has been...

The following sections have been published.

---Part 1: Vessels with a hull length of less than 8m;

---Part 2: Boats with a hull length between 8m and 24m.

This document replaces GB/T 18822-2002 "Remote Control Steering System for Small Boats". Compared with GB/T 18822-2002, the only changes are structural adjustments.

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

a) Added inflatable boats as specified in ISO 6185-4, which were not applicable in the scope, and corrected "Eskimo seal kayak" to "rowing boat".

(See Chapter 1, Chapter 1 of the 2002 edition);

b) Some notes have been changed to the main text (see 7.2 and Appendix C, 2002 edition of 7.2 and Appendix C).

This document is equivalent to ISO 11592-1:2016 "Small boats - Determining maximum propulsion rating at maneuvering speeds - Part 1: Length of hull".

Boats with a length of less than 8 meters.

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 and is under the jurisdiction of the National Technical Committee on Standardization of Small Boats (SAC/TC241).

Introduction

With the increasing popularity of small boats, it is necessary to establish standards for the maximum rated propulsion power of small boats, promote the development of design technologies for various types of small boats, and ensure the safety of small boats.

Navigation operations are essential. GB/T 18822 aims to determine the maximum rated propulsion power of small boats in various length ranges based on maneuvering speed.

Therefore, it is proposed to consist of two parts.

---Part 1: Vessels with a hull length less than 8m. The purpose is to establish a method for determining the hull length of vessels less than 8m using maneuvering speed.

Maximum propulsion rated power criterion.

---Part 2: Vessels with hull lengths between 8m and 24m. The purpose is to establish methods for determining hull lengths using maneuvering speed.

Criteria for maximum propulsion rated power of boats between 8m and 24m.

The small boat determines its maximum rated propulsion power using its maneuvering speed.

Part 1: Boats with a hull length of less than 8m

1 Scope

This document specifies the minimum speed for determining the hull length (LH, as defined in ISO 8666) of powered boats less than 8 meters using maneuvering speed.

Requirements for the rated power of large propulsion.

This section does not apply to.

---Personal boat as defined in ISO 13590;

---Kayaks and canoes;

---Inflatable boats as defined by ISO 6185-1, ISO 6185-2, ISO 6185-3 and ISO 6185-4, but excluding the requirements of ISO 6185-3.

Rigid inflatable boats with a maximum speed of not less than 30 knots, as tested according to this document;

--- Racing boat. A boat specifically designed and built for racing.

This document does not specify structural strength requirements for the vessel related to its maximum propulsion rating, and does not guarantee performance in water, wind, current, and waves.

Stability under certain conditions.

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 8666 Smallcraft Principal Data Note. GB/T 19916-2025 Main data for small boats (ISO 8666:2002, IDT) ISO 10240 Smallcraft Owner's Manual Note. GB/T 19917-2025 Small Boat Owner's Manual (ISO/DIS10240.2002, IDT) ISO 11192 Smallcraft - Graphical symbols Note. GB/T 19918-2005 Graphic Symbols for Small Boats (ISO/DIS11192.2000, IDT)

3 Terms and Definitions

The following terms and definitions apply to this document.

engine power

The power output declared by the engine manufacturer in accordance with ISO 8665.

craftspeed

The speed at which the boat travels in the water.

4.1 Outboard motor driven boats

4.1.1

The engine power for performance evaluation of outboard motor-driven boats shall be determined by the boat manufacturer according to the methods in Chapters 6 and 7, and