

### SLOVENSKI STANDARD oSIST prEN ISO 23411:2019

01-september-2019

Mala plovila - Krmila (ISO/DIS 23411:2019)

Small craft - Steering wheels (ISO/DIS 23411:2019)

Kleine Wasserfahrzeuge - Steuerräder (ISO/DIS 23411:2019)

## iTeh STANDARD PREVIEW

Ta slovenski standard je istoveten z: prEN ISO 23411

kSIST FprEN ISO 23411:2020

https://standards.iteh.ai/catalog/standards/sist/f86be095-1aa8-4226-abeb-290cc517d754/ksist-fpren-iso-23411-2020

47.020.70 Navigacijska in krmilna oprema 47.080 Čolni

Navigation and control equipment Small craft

oSIST prEN ISO 23411:2019

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en,fr,de

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# DRAFT INTERNATIONAL STANDARD ISO/DIS 23411

ISO/TC 188/SC 2

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### **Small craft — Steering wheels**

ICS: 47.080

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Reference number ISO/DIS 23411:2019(E)

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### ISO/DIS 23411:2019(E)

### Foreword

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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 <a href="https://www.iso.org/directives">www.iso.org/directives</a>).

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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 <u>www.iso</u> .org/iso/foreword.html. (standards.iteh.ai)

This document was prepared by Technical Committee ISO/TC 188, Small Craft, SC 2, Engines and kSIST FprEN ISO 23411:2020 https://standards.iteh.ai/catalog/standards/sist/f86be095-1aa8-4226-abeb-

The main changes compared to the previous edition areas follows: 1-2020

- consolidation of steering wheel requirements from ISO 8848, ISO 9775, and ISO 15652 into this document;
- requirements to meet current industry practices are updated.

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 <u>www.iso.org/members.html</u>.

### Introduction

This International Standard specifies design, construction, and testing requirements for steering wheels on small craft.

Previously steering wheels were addressed in each of the ISO steering gear standards. A review of the steering standards for a merge project found that updates were needed for consistency and to meet current industry practices. Steering wheel requirements have been removed from each steering gear standard. This standard provides a consistent approach for the design and testing of steering wheels for small craft including steering wheels for sailing craft.

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### **Small craft — Steering wheels**

### 1 Scope

This document specifies design, construction, and testing requirements for steering wheels for small craft.

### 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 25197, Small craft — Electrical/electronic control system for steering, shift and throttle

### 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

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

IEC Electropedia: available at http://www.electropedia.org/

— ISO Online browsing platform: available at <u>https://www.iso.org/obp</u>

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steering helm 290cc517d754/ksist-fpren-iso-23411-2020

operator input device for the control of steering

### 3.2

### minimum retained system performance

system capability after test(s) such that at least 90 % of the engine steering arm travel normally available to each side of the mid-position may be obtained by exertion of no more than 27 Nm of torque at the steering helm through the wheel or other normal control

Note 1 to entry: This criteria does not define steering system performance while a craft is underway, but is intended to provide qualitative limits for design and test purposes.

### 3.3

### steering wheel diameter

the diameter of the circle formed by the outermost sections of the wheel (Figure 1)

### 3.4

#### steering wheel dish

the distance between the two parallel planes formed by the aft rim surface and the forward hub surface of a wheel (Figure 1)

#### 3.5

#### pinch point

location at which a moving part comes into contact with or close proximity to another part such that another object at that location would be cut or crushed

#### 3.6

### craft

#### small craft

recreational boat, and other watercraft using similar equipment, of up to 24 m length of hull (LH)