

# **SLOVENSKI STANDARD**

## **SIST EN ISO 16147:2017**

**01-oktober-2017**

**Nadomešča:**

**SIST EN ISO 16147:2003**

**SIST EN ISO 16147:2003/A1:2013**

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**Mala plovila - Vgrajeni dizelski motorji - Nameščene komponente za gorivo in električno (ISO 16147:2002)**

Small craft - Inboard diesel engines - Engine-mounted fuel and electrical components (ISO 16147:2002)

Kleine Wasserfahrzeuge - Eingebaute Dieselmotoren - Am Motor befestigte Kraftstoff- und Elektrikbauteile (ISO 16147:2002)

Petits navires - Moteurs intérieurs diesels - Éléments des circuits d'alimentation et des systèmes électriques fixés sur le moteur (ISO 16147:2002)

**Ta slovenski standard je istoveten z: EN ISO 16147:2017**

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**ICS:**

47.020.20	Ladijski motorji	Marine engines and propulsion systems
47.080	Čolni	Small craft

**SIST EN ISO 16147:2017**

**en,fr,de**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN ISO 16147**

August 2017

ICS 47.080

Supersedes EN ISO 16147:2002

English Version

**Small craft - Inboard diesel engines - Engine-mounted fuel  
and electrical components (ISO 16147:2002)**

Petits navires - Moteurs intérieurs diesels - Éléments  
des circuits d'alimentation et des systèmes électriques  
fixés sur le moteur (ISO 16147:2002)

Kleine Wasserfahrzeuge - Eingebaute Dieselmotoren -  
Am Motor befestigte Kraftstoff- und Elektrikbauteile  
(ISO 16147:2002)

This European Standard was approved by CEN on 16 July 2017.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

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## European foreword

The text of ISO 16147:2002 has been prepared by Technical Committee ISO/TC 188 “Small craft” of the International Organization for Standardization (ISO) and has been taken over as EN ISO 16147:2017.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 2018, and conflicting national standards shall be withdrawn at the latest by February 2018.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 16147:2002.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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### Endorsement notice

The text of ISO 16147:2002 has been approved by CEN as EN ISO 16147:2017 without any modification.

## Annex ZA (informative)

### Relationship between this European Standard and the Essential Requirements of EU Directive 2013/53/EU

This European standard has been prepared under a mandate given to CEN by the European Commission to provide one means of conforming to Essential Requirements of the New Approach Directive 2013/53/EU.

Once this standard is cited in the Official Journal of the European Union under that Directive and has been implemented as a national standard in at least one member state, compliance with the normative clauses of this standard given in Table ZA.1 confers, within the limits of the scope of this standard, a presumption of conformity with the relevant Essential Requirements of that Directive and associated EFTA regulations.

**Table ZA.1 — Correspondence between this European Standard and Directive 2013/53/EU**

Clauses/subclauses of this European Standard	Essential requirements (ERs) of EU Directive 2013/53/EU	Qualifying remarks/Notes
4; 5; 6	I.A.5.1.1 - Installation requirements; inboard engine	In respect of fuel and electrical components fitted to diesel inboard-mounted engines.
4; 5	I.A.5.2.1 - Fuel system; general <a href="https://standards.iteh.ai/catalog/standards/sist/39a29e47-7614-4896-8e3b-f808bf78e647/sist-en-iso-16147-2017">https://standards.iteh.ai/catalog/standards/sist/39a29e47-7614-4896-8e3b-f808bf78e647/sist-en-iso-16147-2017</a>	In respect of minimising the risk of fuel leakage and risk/spread of fire from fuel components that are engine mounted.  Fire resistant fuel hoses meeting the requirements of EN ISO 7840 deal with the use of biofuels.
4; 6	I.A.5.3 - Electrical system	In respect of minimising the risk/spread of fire from electrical components that are engine mounted.  This Standard does not deal with the following elements of this essential requirement in relation to engine mounted electrical components: <ul style="list-style-type: none"> <li>— AC electrical engine-mounted components;</li> <li>— Protection from electric shock;</li> <li>— Overload and short circuit protection;</li> <li>— Interaction with electric propulsion circuits;</li> <li>— Ventilation of explosive</li> </ul>

		gases emitted from batteries; — Battery installation.
4; 5; 6	I.A.5.6.1 Fire protection - General	In respect of the design and installation arrangements for engine mounted fuel and electrical components on inboard diesel engines.

**WARNING:** Other requirements and other EU Directives may be applicable to the product(s) falling within the scope of this standard.

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# INTERNATIONAL STANDARD

**ISO**  
**16147**

First edition  
2002-10-15

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## **Small craft — Inboard diesel engines — Engine-mounted fuel and electrical components**

*Petits navires — Moteurs intérieurs diesels — Éléments des circuits  
d'alimentation et des systèmes électriques fixés sur le moteur*

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Reference number  
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