



# SLOVENSKI STANDARD SIST EN ISO 18647:2019

01-december-2019

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**Industrija za predelavo nafte in zemeljskega plina - Modularne vrtalne ploščadi za priobalne pritrjene ploščadi (ISO 18647:2017)**

Petroleum and natural gas industries - Modular drilling rigs for offshore fixed platforms (ISO 18647:2017)

## iTeh STANDARD PREVIEW

Industries du pétrole et du gaz naturel - Spécifications pour une foreuse modulaire à bord de plateformes fixes offshore (ISO 18647:2017)

[SIST EN ISO 18647:2019](http://standards.itih.si/catalog/standard/sist-en-iso-18647-2019)

**Ta slovenski standard je istoveten z: EN ISO 18647:2019**

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75.180.10	Oprema za raziskovanje, vrtanje in odkopavanje	Exploratory, drilling and extraction equipment
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EN ISO 18647

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## Petroleum and natural gas industries - Modular drilling rigs for offshore fixed platforms (ISO 18647:2017)

Industries du pétrole et du gaz naturel - Spécifications  
pour une foreuse modulaire à bord de plateformes  
fixes offshore (ISO 18647:2017)

This European Standard was approved by CEN on 9 September 2019.

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## European foreword

The text of ISO 18647:2017 has been prepared by Technical Committee ISO/TC 67 "Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 18647:2019 by Technical Committee CEN/TC 12 "Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries" the secretariat of which is held by NEN.

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**Petroleum and natural gas  
industries — Modular drilling rigs for  
offshore fixed platforms**

*Industries du pétrole et du gaz naturel — Spécifications pour une  
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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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 [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

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For an explanation on 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 the following URL: [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html). (standards.iteh.ai)

This document was prepared by Technical Committee ISO/TC 67, *Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries*, Subcommittee SC 4, *Drilling and production equipment*. <https://standards.iteh.ai/catalog/standards/sist/e649857f-117b-438e-946f-92742cf3fb0c/sist-en-iso-18647-2019>

## Introduction

This document is applicable to modular drilling rigs on offshore fixed platform. It is intended to provide wide latitude in the design, construction, installation and commissioning of offshore modular drilling rigs on fixed platforms, without hindering innovation. Sound engineering judgment is therefore necessary in the use of this document.

The design of a modular drilling rig includes choices of drilling equipment, layout of modules, system interface, modular structures and so on. The construction of modular drilling rigs includes the assembly of structures, welding and inspection of structures, prefabrication and installation of the piping and cables, outfitting, corrosion control and onshore installation of equipment.

[Annex A](#) provides background to, and guidance on, the use of this document, and is intended to be read in conjunction with the main body of this document. The clause numbering in [Annex A](#) follows the same structure as that in the body of the normative text in order to facilitate cross-referencing.

[Annex B](#) provides a guidance of load and resistance factor design/working stress design method.

[Annex C](#) provides a list of typical fabrication design documents of modular drilling rigs.

[Annex D](#) provides a typical loadout and seafastening design document.

[Annex E](#) provides a typical acceptance report for modular drilling rigs on offshore fixed platform.

[Annex F](#) provides a typical completion acceptance document and record for modular drilling rigs on offshore fixed platform.

[Annex G](#) provides a typical in-service inspection plan for modular drilling rigs.

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# Petroleum and natural gas industries — Modular drilling rigs for offshore fixed platforms

## 1 Scope

This document gives requirements for the design, fabrication, installation, commissioning and integrity management of modular drilling rigs on offshore fixed platforms.

The modular drilling rig includes some or all of the equipment as follows:

- drilling equipment including a derrick/mast and its controls that can be moved by skidding a drilling support structure;
- drilling support equipment which includes support facilities such as power supply/distribution system;
- mud and cement storage, mixing, monitoring and control equipment.

This document is applicable to the modular drilling equipment on offshore structures for the petroleum and natural gas industries, as follows:

- new equipment arranged in a modularized form;
- the equipment contained in several modules, each of which can be lifted and installed on to the platform, however, the equipment may be arranged within the modules as is convenient;
- the modules assembled together offshore for hook up and commissioning;
- intended for long term use on a new fixed offshore structure;
- Intended for temporary use on a number of different offshore platforms.

This document is not applicable to drilling equipment

- installed on mobile offshore units, and
- intended primarily for onshore use.

This document does not apply to those parts and functions of an offshore platform that are not directly related to drilling.

## 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 4406, *Hydraulic fluid power — Fluids — Method for coding the level of contamination by solid particles*

ISO 6807, *Rubber hoses and hose assemblies for rotary drilling and vibration applications — Specification*

ISO 13501, *Petroleum and natural gas industries — Drilling fluids — Processing equipment evaluation*

ISO 13535, *Petroleum and natural gas industries — Drilling and production equipment — Hoisting equipment*