
**Marine structures — Mobile offshore
units — Mooring positioning
windlasses and winches**

Structures maritimes — Unités mobiles au large — Treuils d'ancrage





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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).

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).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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 www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee 8, *Ships and marine technology*, Subcommittee 4, *Outfitting and deck machinery*.

This second edition cancels and replaces the first edition (ISO 9089:1985), which has been technically revised.

The main changes compared to the previous edition are as follows:

- Added no-load, nominal load, nominal speed, stalling/slipping load, anchor deployment (anchor dropping) speed limitation, anchor line length, speed and tension measurement, cable/wire rope stopper, ratchet mechanisms, etc. to the functional and operational requirements.
- Refined all sub-items in design and construction, and quantified the requirements of all indicators and formula.
- Provided an overview of various tests, and specified test types, methods and requirements.
- Provided check items, sequence, qualification criteria for type inspection of mooring positioning windlass and winches.

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 www.iso.org/members.html.

Marine structures — Mobile offshore units — Mooring positioning windlasses and winches

1 Scope

This document specifies a classification, technical requirements and test methods, as well as designation, marking and documentation requirements for mooring positioning windlasses and winches of mobile offshore floating units, including drill-ships, semi-submersible drilling rigs, production platforms and offshore accommodation platforms.

It can be used as a reference for ship-shifting positioning winches of pipelaying, crane and pile-driving vessels.

This document is applicable to the design, manufacturing and acceptance testing of mooring positioning windlasses and winches.

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 1704, *Ships and marine technology — Stud-link anchor chains*

ISO 1968, *Fibre ropes and cordage — Vocabulary*

ISO 3108, *Steel wire ropes — Test method — Determination of measured breaking force*

ISO 3730, *Shipbuilding and marine structures — Mooring winches*

ISO 3828, *Shipbuilding and marine structures — Deck machinery — Vocabulary and symbols*

ISO 6336, *Calculation of load capacity of spur and helical gears*

ISO 6482, *Shipbuilding — Deck machinery — Warping end profiles*

ISO 7825:2017, *Shipbuilding — Deck machinery — General requirements*

ISO 9083, *Calculation of load capacity of spur and helical gears — Application to marine gears*

ISO 17893, *Steel wire ropes — Vocabulary, designation and classification*

ISO 18692, *Fibre ropes for offshore stationkeeping — Polyester*

IEC 60092, *Electrical installations in ships*

IEC 61892, *Mobile and fixed offshore units — Electrical installations*

API Spec 2F, *Specification for mooring chain*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 3828 and the following apply.