
**Shipbuilding and marine structures —
Mooring winches**

Construction navale et structures maritimes — Treuils d'amarrage

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

ISO 3730 was prepared by Technical Committee ISO/TC 8, *Ships and marine technology*, Subcommittee SC 4, *Outfitting and deck machinery*.

This third edition cancels and replaces the second edition (ISO 3730:1988), which has been technically revised.

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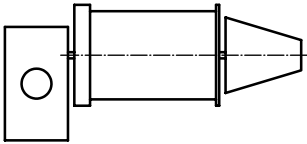
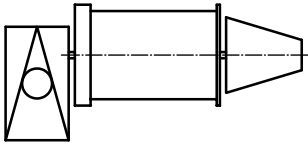
Shipbuilding and marine structures — Mooring winches

1 Scope

This International Standard specifies requirements for the design, operation, performance and acceptance tests of automatic and non-automatic mooring winches, with hydraulic, electric or steam drive, which fulfil the functions of manoeuvring, holding and storing mooring ropes on a single drum.

Such winches can also be used for warping purposes. See Table 1.

Table 1 — Functions

	Non-automatic mooring winch	Automatic mooring winch
Operation		
Mooring		On drum
Rope storing		On drum
Tension-maintaining through brake		On drum
Warping		Optional on warping-end or on drum
Tension-maintaining through automatic device		On drum

2 Normative references

The following referenced documents are indispensable for the application 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 2408, *Steel wire ropes for general purposes — Minimum requirements*

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

ISO 4413, *Hydraulic fluid power — General rules for the application of equipment to transmission and control systems*

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

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

IEC 60092 (all parts), *Electrical installations in ships*

IEC 60529, *Degrees of protection provided by enclosures (IP Code)*

3 Terms and definitions

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

3.1 right-hand winch
winch where the drum drive is on the right-hand side of the drum, in relation to an observer situated on the side of the motor, power supply or controller

NOTE See Figure 1.

3.2 left-hand winch
winch where the drum drive is on the left-hand side of the drum, in relation to an observer situated on the side of the motor, power supply or controller

NOTE See Figure 1.

3.3 central winch
winch where the drum drive is between the two drums

NOTE See Figure 1.

3.4 single drum winch
winch where one drum is driven by drive equipment

NOTE See Figure 1.

3.5 multiple drum winch
winch where two or more drums are driven by drive equipment

NOTE See Figure 1.

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