
**Ships and marine technology —
Navigation and shallow-water
engineering vessels — Anchor winches**

*Navires et technologie marine — Vaisseaux d'ingénierie de navigation
en eau peu profonde — Treuils d'ancres*





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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.

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 8, *Ships and marine technology*, Subcommittee SC 4, *Outfitting and deck machinery*.

Ships and marine technology — Navigation and shallow-water engineering vessels — Anchor winches

1 Scope

This International Standard specifies requirements for the design, construction, operation, safety, performance, and inspection rules of anchor winches.

It is applicable to anchor winches, with hydraulic or electric drive, installed at the stern of seagoing transport ships. It can be used as a reference for shallow-water engineering vessels and inland ships.

It is only applicable to anchor winches with wire ropes used for anchor handling.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 2408:2004, *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 Technical terms

3.1.1

nominal size of anchor winches

represented by 1/10 of the weight (kg) of the ordinary stockless anchor applicable to anchor winches

3.1.2

working load of anchor winches

F_W

maximum pull measured at the drum exit as the winch anchors at the nominal recovery speed with a rope wound on the drum in a single layer

3.1.3

nominal recovery speed

recovery speed measured when the pull of the anchor winch is the working load with a rope wound on the drum in a single layer