
Ships and marine technology — Pilot ladder winch reels

*Navires et technologie maritime — Enrouleurs de winch pour échelles
de pilote*

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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).

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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 ISO/TC 8, *Ships and marine technology*, Subcommittee SC 1, *Maritime safety*.

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.

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Ships and marine technology — Pilot ladder winch reels

1 Scope

This document specifies requirements and characteristics of ships' pilot ladder winch reels provided with hydraulic, pneumatic, electric, or manual drive. It is applicable to the design and test of pilot ladder winch reels. It does not include requirements for the prime mover used to operate the pilot ladder winch reels.

Pilot ladder winch reels specified in this document are intended to be only used with pilot ladders conforming to ISO 799-1. They are not intended to be used for 'man lifting' activities.

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

IMO Assembly resolution A.1045 (27), *Pilot Transfer Arrangements*

3 Terms and definitions

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

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1

drum load

working load

maximum rope tension in the rope or ropes at the drum exit, when the pilot ladder winch reel is hoisting an unloaded pilot ladder at the nominal speed, with the rope or ropes wound on the drum in a single layer

3.2

holding load

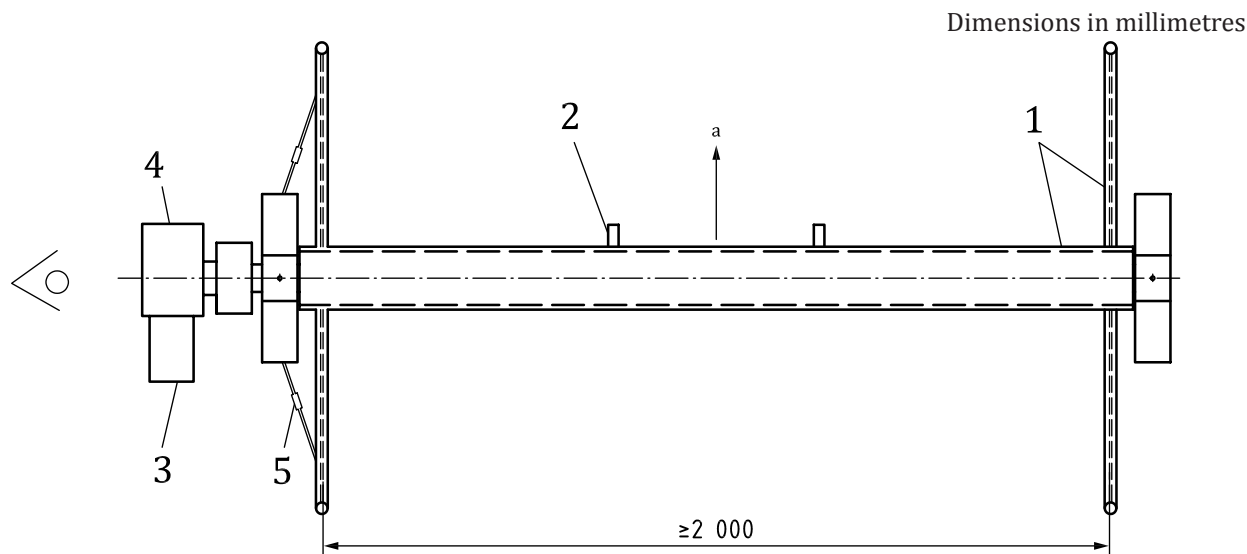
in static mode of the pilot ladder winch reel, maximum rope tension in the rope or ropes at the drum exit in the innermost layer with a minimum value of twice of the *drum load* (3.1)

3.3

left-hand pilot ladder winch reel

pilot ladder winch reel where the rope-out direction of the drum is on the left-hand side of the drum, in relation to an observer situated on the side of reduction gearbox

Note 1 to entry: See [Figure 1](#).



Key

- 1 drum
- 2 structure connected to the pilot ladder
- 3 reduction gear
- 4 drive
- 5 anti-rotating locking device
- a Rope-out direction.

Figure 1 — Top view of a left-hand pilot ladder winch reel

3.4

nominal size

designation of a pilot ladder winch reel corresponding to the *drum load* (3.1)

Note 1 to entry: See [Table 1](#).

3.5

right-hand pilot ladder winch reel

pilot ladder winch reel where the rope-out direction of the drum is on the right-hand side of the drum, in relation to an observer situated on the side of the reduction gearbox

Note 1 to entry: See [Figure 2](#).