INTERNATIONAL STANDARD

ISO 18296

First edition
2014-10-15

Ships and marine technology — Ship-shifting winches

Navires et technologie maritime — Treuils de déplacement des navires

Reference number
ISO 18296:2014(E)

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Published in Switzerland

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Foreword

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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*.

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Ships and marine technology — Ship-shifting winches

1 Scope

This International Standard specifies requirements for the design, operation, safety, performance, and inspection rules of ship-shifting winches, with electric or hydraulic drive.

Such winches are applicable to longitudinal and transverse movements or positioning of engineering vessels for offshore operation. It can be used as a reference for inland operation.

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, *Steel wire ropes for general purposes — Minimum requirements*

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

ISO 4413, *Hydraulic fluid power — General rules and safety requirements for systems and their components*

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

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

IEC 60092 (all parts), *Electrical installations in ships — Special features — High Voltage Shore Connection Systems (HVSC-Systems)*

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

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1 Technical terms

3.1.1
light load pull
pull of steel wire ropes not less than 25 % that of the drum load with a rope wound on the drum in a single layer

3.1.2
light line speed
minimum hauling speed measured when the ship-shifting winch is under the light load pull with a rope wound on the drum in a single layer

3.1.3
normally closed brake
brake that is always in the braking condition except for the operation conditions of hoisting and rendering a rope

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