
Ships and marine technology — Ship-shifting winches

Navires et technologie maritime — Treuils de déplacement des navires

Sample Document

get full document from standards.iteh.ai



Reference number
ISO 18296:2014(E)

© ISO 2014

Sample Document

get full document from standards.iteh.ai



COPYRIGHT PROTECTED DOCUMENT

© ISO 2014

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
3.1 Technical terms.....	1
3.2 Types of ship-shifting winches.....	2
4 Design and operation	2
4.1 General requirements.....	2
4.2 Strength requirements.....	2
4.3 Steel wire ropes.....	3
4.4 Drum design.....	3
4.5 Auxiliary equipment.....	3
4.6 Brakes.....	3
4.7 Safety and protection.....	4
4.8 Speed control.....	4
4.9 Operating devices.....	4
4.10 Drive equipment.....	5
5 Performance specifications	5
5.1 Preferred numbers of drum load.....	5
5.2 Preferred numbers of nominal hauling speed.....	5
5.3 Preferred numbers of drum capacity.....	5
5.4 Light line speed.....	5
5.5 Holding load.....	5
5.6 Breaking strength of ropes.....	5
5.7 Control requirements for automatic tension.....	6
6 Acceptance tests	6
6.1 General.....	6
6.2 Type test.....	6
6.3 Individual test.....	7
7 Designation system	8
7.1 Designation of product models.....	8
7.2 Nameplate.....	8

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 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*.

get full document from standards.iteh.ai

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