
**Shipbuilding — Deck machinery —
General requirements**

Construction navale — Auxiliaires de pont — Prescriptions générales





COPYRIGHT PROTECTED DOCUMENT

© ISO 2017, Published in Switzerland

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
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Environmental condition	1
5 Material and construction	2
6 Drums	2
7 Operation and safety	3
7.1 Operating levers.....	3
7.2 Pedals.....	3
7.3 Handwheels and crankhandles.....	3
7.4 Push-buttons.....	3
7.5 Operational marks	4
7.6 Safety protection	4
8 Inspection access	4
9 Lubrication	4
10 Surface protection	4
11 Hydraulic pressure and electrical	4
12 Markings	4

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 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 the following URL: www.iso.org/iso/foreword.html.

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

This second edition cancels and replaces the first edition (ISO 7825:1985), which has been technically revised.

The main changes compared to the previous edition are as follows:

- environmental condition, material and construction, drums and surface protection have been revised.

Shipbuilding — Deck machinery — General requirements

1 Scope

This document specifies the characteristics common to all deck machinery of any type not detailed in the relevant specific International Standards.

This document is applicable to ships in all navigation zones.

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*

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

ISO 7824, *Shipbuilding and marine structures — Lubrication nipples — Cone and flat types*

ISO 8501-1, *Preparation of steel substrates before application of paints and related products — Visual assessment of surface cleanliness — Part 1: Rust grades and preparation grades of uncoated steel substrates and of steel substrates after overall removal of previous coatings*

ISO 15607, *Specification and qualification of welding procedures for metallic materials — General rules*

IEC 60092, *Electrical installations in ships*

IEC 60529, *Degrees of protection provided by enclosures*

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 terminological databases for use in standardization at the following addresses:

— IEC Electropedia: available at <http://www.electropedia.org/>

— ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1

deck machinery

power-driven (including manpower) mechanical equipment installed on ship deck, such as anchoring and mooring equipment, hoisting equipment, hatch cover opening and closing equipment, survival equipment, mechanical equipment and devices which are needed in the embarking of passengers and crew and equipment for special operations

4 Environmental condition

4.1 Deck machinery shall be operated between $-25\text{ }^{\circ}\text{C}$ and $+45\text{ }^{\circ}\text{C}$. If ambient temperature exceeds the above limitation, it shall be specified in the contract.