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BSI Standards Publication

Ships and marine technology — Deep-sea hydraulic winch equipment

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National foreword

This British Standard is the UK implementation of ISO 5528:2023.

The UK participation in its preparation was entrusted to Technical Committee SME/32, Ships and marine technology - Steering committee.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Design and operation	3
4.1 Composition.....	3
4.2 Types.....	3
4.3 General design requirements.....	3
4.4 Strength requirements.....	4
4.5 Traction winch.....	4
4.6 Cable spooling device.....	4
4.7 Cable storage winch.....	4
4.8 Control system.....	5
5 Performance parameters and requirements	5
5.1 Preferred numbers of working load.....	5
5.2 Nominal speed.....	5
5.3 Pressure.....	5
5.4 Sealing.....	5
5.5 No-load.....	6
5.6 Load.....	6
5.7 Overload.....	6
5.8 Braking.....	6
6 Acceptance tests	6
6.1 General.....	6
6.2 Type test.....	6
6.2.1 Pressure test.....	6
6.2.2 Sealing test.....	6
6.2.3 No-load test.....	6
6.2.4 Load test.....	6
6.2.5 Overload test.....	7
6.2.6 Braking test.....	7
6.3 Delivery test.....	7
6.3.1 No-load test.....	7
6.3.2 Load test.....	7
6.3.3 Overload test.....	7
6.3.4 Braking test.....	7
7 Designation system	7
7.1 Designation of product type.....	7
7.2 Product marking.....	8

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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 document 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 4, *Outfitting and deck machinery*.

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 — Deep-sea hydraulic winch equipment

1 Scope

This document specifies requirements for the design, manufacture, operation, safety, performance, acceptance tests and designation system of deep-sea hydraulic winch equipment (hereafter referred to as “winch equipment”).

The deep-sea hydraulic winch equipment are intended to be used for large load deep-sea operations in depths of 3 000 m to 11 000 m.

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 780, *Packaging — Distribution packaging — Graphical symbols for handling and storage of packages*

ISO 3154, *Stranded wire ropes for mine hoisting — Technical delivery requirements*

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

ISO 4406, *Hydraulic fluid power — Fluids — Method for coding the level of contamination by solid particles*

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

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

IEC 60529:2013, *Degrees of protection provide by enclosure (IP code)*

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

deep-sea hydraulic winch equipment

combined winch equipment adopting hydraulic drive, double drums, traction winch, cable storage winch and right-angle cable spooling device

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