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Ships and marine technology — A-frame launch and recovery system

*Navires et technologie maritime — Lancement du châssis en A et
système de récupération*



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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

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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).

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).

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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 ISO/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.

Ships and marine technology — A-frame launch and recovery system

1 Scope

This document specifies the design, operation, performance and acceptance test of A-frame launch and recovery systems (hereinafter referred to as “A-frame LARS”) for underwater applications excluding lifesaving appliances.

This document is applicable to the design, manufacturing, testing and acceptance of A-frame LARS for underwater applications excluding lifesaving appliances.

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*

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

A-frame launch and recovery system

A-frame LARS

system installed at the stern of ship deck or side-launched, which mainly consists of the structural members, and *associated winches* (3.3) and loose gear, used to achieve the hoisting, towing and recovery of the equipment

3.2

A-frame

mechanism that mainly consists of the main structure, oil cylinder, transverse travel trolley (if any), retractable rack (used for anti-swinging, if any) and pulley block and associated winch used to hoist, traverse, lower and recovery of the equipment in a coordinated way

Note 1 to entry: The rope can be centered through traverse of transverse travel trolley (if any); the sway of the hoisted can be reduced by buffering of the retractable rack (if any) and cylinder.

3.3

associated winch

winch used to fulfill the function of hoisting and launch of subsea equipment as well as towing of subsea equipment in the sea together with the *A-frame* (3.2), by hauling in and paying out steel wire ropes

Note 1 to entry: The associated winch may also act as a functional winch such as a cable winch, to fulfill the function of launching and recovery of operating equipment such as subsea equipment in combination with the A-frame.