
**Ships and marine technology —
Manoeuvring of ships —**

**Part 4:
Stopping, acceleration, traversing**

*Navires et technologie maritime — Manoeuvres des navires —
Partie 4: Arrêt, accélération, déplacement*



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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 Test-related physical quantities	2
5 General test conditions	3
6 Test 4.1 — Stopping test	4
6.1 General	4
6.2 Description	4
6.3 Analysis and presentation of results of a stopping test	5
6.4 Designation of a stopping test	6
7 Test 4.2 — Coasting stop test (inertia test)	6
7.1 General	6
7.2 Description	6
7.3 Analysis and presentation of results of a coasting stop test	7
7.4 Designation of a coasting stop test	8
8 Test 4.3 — Acceleration test	8
8.1 General	8
8.2 Description	8
8.3 Analysis and presentation of results of an acceleration test	8
8.4 Designation of an acceleration test	9
9 Test 4.4 — Traversing test	9
9.1 General	9
9.2 Description	9
9.3 Analysis and presentation of results of a traversing test	9
9.4 Designation of a traversing test	10

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 on 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.

The committee responsible for this document is ISO/TC 8, *Ships and marine technology*, Subcommittee SC 6, *Navigation and ship operations*.

This second edition cancels and replaces the first edition (ISO 13643-4:2013), of which it constitutes a minor revision with the following changes:

- the numbering has changed;
- in [Clause 4, Table 1](#), in the second line of the table (CC-Code DECFAC), the Definition was changed;
- in [Clause 4, Table 1](#), in line 9 of the table (CC-Code TIACC), the SI-Unit was changed from “m” to “s”.

A list of all parts in the ISO 13643 series can be found on the ISO website.

Ships and marine technology — Manoeuvring of ships —

Part 4:

Stopping, acceleration, traversing

1 Scope

This document defines symbols and terms and provides guidelines for the conduct of tests to give evidence about the stopping, acceleration, and traversing of surface ships, submarines, and models. It is intended to be read in conjunction with ISO 13643-1.

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 13643-1, *Ships and marine technology — Manoeuvring of ships — Part 1: General concepts, quantities and test conditions*

ISO 13643-5:2017, *Ships and marine technology — Manoeuvring of ships — Part 5: Submarine specials*

ISO 80000-1, *Quantities and units — Part 1: General*

ISO 80000-3, *Quantities and units — Part 3: Space and time*

IMO MSC Circular 1053, *Explanatory Notes to the Standard for Ship Manoeuvrability*

3 Terms and definitions

For the purposes of this document, the following terms and definitions 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 <https://www.iso.org/obp/>

3.1

acceleration test

manoeuvring test to determine the ship's performance under positive acceleration or negative acceleration (deceleration)

3.2

coasting stop test

manoeuvring test to determine the ship's behaviour after the propulsion plant has been disengaged and/or shut down

3.3

manoeuvring device

rudder, azimuthing thruster, hydroplane, cycloidal propeller, or equivalent system used to manoeuvre a vessel