

SLOVENSKI STANDARD oSIST prEN ISO 20957-7:2022

01-junij-2022

Nepremična oprema za vadbo - 7. del: Oprema za veslanje, dodatne posebne varnostne zahteve in preskusne metode (ISO/DIS 20957-7:2022)

Stationary training equipment - Part 7: Rowing equipment, additional specific safety requirements and test methods (ISO/DIS 20957-7:2022)

Stationäre Trainingsgeräte – Teil 7 Rudergeräte, zusätzliche besondere sicherheitstechnische Anforderungen und Prüfverfahren (ISO/DIS 20957-7:2022)

Équipement d'entraînement fixe - Partie 7: Rameurs, exigences spécifiques de sécurité et méthodes d'essai supplémentaires (ISO/DIS 20957-7:2022)

Ta slovenski standard je istoveten z:ai/catprEN ISO 20957-7:2022

39a5-4b28-a348-034802c38697/osist-pren-iso-20957-7-

2()2.2.

ICS:

97.220.30 Oprema za dvoranske športe Indoor sports equipment

oSIST prEN ISO 20957-7:2022 en,fr,de

oSIST prEN ISO 20957-7:2022

iTeh STANDARD **PREVIEW** (standards.iteh.ai)

oSIST_prEN ISO 20957-7:2022 https://standards.iteh.ai/catalog/standards/sist/5e34b389-39a5-4b28-a348-034802c38697/osist-pren-iso-20957-7-2022

DRAFT INTERNATIONAL STANDARD ISO/DIS 20957-7

ISO/TC 83 Secretariat: DIN

Voting begins on: Voting terminates on:

2022-04-13 2022-07-06

Stationary training equipment —

Part 7:

Rowing equipment, additional specific safety requirements and test methods

Équipement d'entraînement fixe —

Partie 7: Rameurs, exigences spécifiques de sécurité et méthodes d'essai supplémentaires

iTeh STANDARD PREVIEW (standards.iteh.ai)

ICS: 97.220.30

oSIST prEN ISO 20957-7:2022 https://standards.iteh.ai/catalog/standards/sist/5e34b389-39a5-4b28-a348-034802c38697/osist-pren-iso-20957-7-

2022

This document is circulated as received from the committee secretariat.

THIS DOCUMENT IS A DRAFT CIRCULATED FOR COMMENT AND APPROVAL. IT IS THEREFORE SUBJECT TO CHANGE AND MAY NOT BE REFERRED TO AS AN INTERNATIONAL STANDARD UNTIL PUBLISHED AS SUCH.

IN ADDITION TO THEIR EVALUATION AS BEING ACCEPTABLE FOR INDUSTRIAL, TECHNOLOGICAL, COMMERCIAL AND USER PURPOSES, DRAFT INTERNATIONAL STANDARDS MAY ON OCCASION HAVE TO BE CONSIDERED IN THE LIGHT OF THEIR POTENTIAL TO BECOME STANDARDS TO WHICH REFERENCE MAY BE MADE IN NATIONAL REGULATIONS.

RECIPIENTS OF THIS DRAFT ARE INVITED TO SUBMIT, WITH THEIR COMMENTS, NOTIFICATION OF ANY RELEVANT PATENT RIGHTS OF WHICH THEY ARE AWARE AND TO PROVIDE SUPPORTING DOCUMENTATION.

ISO/CEN PARALLEL PROCESSING



Reference number ISO/DIS 20957-7:2022(E)

iTeh STANDARD PREVIEW (standards.iteh.ai)

oSIST prEN ISO 20957-7:2022 https://standards.iteh.ai/catalog/standards/sist/5e34b389-39a5-4b28-a348-034802c38697/osist-pren-iso-20957-7-2022



COPYRIGHT PROTECTED DOCUMENT

© ISO 2022

All rights reserved. Unless otherwise specified, or required in the context of its implementation, 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 CP 401 • Ch. de Blandonnet 8 CH-1214 Vernier, Geneva Phone: +41 22 749 01 11 Email: copyright@iso.org Website: www.iso.org

Published in Switzerland

Eone	rword		
1	-	e	
2	Norn	native references	1
3	Tern	Terms and definitions	
4	Classification		
	4.1	General	
	4.2	Accuracy classes	
	4.3	Usage classes	
5	Safety requirements		
	5.1 5.2	General External construction	
	5.2	5.2.1 Squeeze, shear and reciprocating points within the accessible area	
		5.2.2 Transmission elements and rotating parts	
		5.2.3 Temperature rise of accessible surfaces	4
		5.2.4 Seat	
	5.3	Intrinsic loading	
	5.4 5.5	Handles	5 5
	5.6	Load of ropes, belts, chains and their attachment components Foot strap	5
	5.7	Foot support PREVIEW Endurance	5
	5.8		
	5.9	Stability Requirements for class Adards.iteh.ai	6
	5.10 5.11	Additional instructions for use	6
_			
6	Test	methods oSIST prEN-ISO 20957-7:2022	6
	6.1	General construction of the standards of	6
		6.1.2 Visual examination 6.1.2 Visual examination	6
		6.1.1 3 Dimensional check 802c38697/osist-pren-iso-20957-7- 6.1.2 Visual examination 2022 6.1.3 Tactile examination	6
		6.1.4 Performance test	6
		6.1.5 Weighing test	
	6.2	6.1.6 Load test of ropes, belts, chains and attachment components.	
	6.3	Testing of seat Testing of temperature rise	
	6.4	Testing of intrinsic loading	
	6.5	Testing of foot strap	7
	6.6	Testing of foot support	
	6.7	Endurance testing	
	6.8 6.9	Testing of stabilityTesting of additional requirements for class A	
	0.9	6.9.1 General	
		6.9.2 Rowing equipment using speed-independent resistance system	
		6.9.3 Rowing equipment using speed-dependent resistance system	
7	Toot	report	0

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 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 83, Sports and other recreational facilities and equipment, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 136, Sports, playground and other recreational facilities and equipment, in accordance with the Agreement on technical cooperation between ISO and GEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 20957-7:2020), which has been technically revised.

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

- referenced standards have been updated with year of edition;
- <u>Clause 4</u> has been specified and restructured;
- acceptance criteria have been updated for <u>5.6</u>, <u>5.7</u>, and <u>5.8</u>;
- Clause 7 has been restructured;

A list of all parts in the ISO 20957 series can be found on the ISO website.

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.

Stationary training equipment —

Part 7:

Rowing equipment, additional specific safety requirements and test methods

1 Scope

This document specifies safety requirements for rowing equipment.

This document is intended to be read in conjunction with the general safety requirements of ISO 20957-1:2013.

This document is applicable to rowing type stationary training equipment, hereinafter referred to as rowing equipment, within the classes H, S and I and classes A, B and C regarding accuracy.

2 Normative references Teh STANDARD

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 20957-1:2013, Stationary training equipment — Part 1: General safety requirements and test methods

3 Terms and definitions ards.iteh.ai/catalog/standards/sist/5e34b389-

For the purposes of this document, the terms and definitions given in ISO 20957-1:2013 and the following apply.

ISO and IEC maintain terminological 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

rowing equipment

stationary training equipment with a moving seat simulating a rowing-like motion

Note 1 to entry: See Figures 1 and 2.

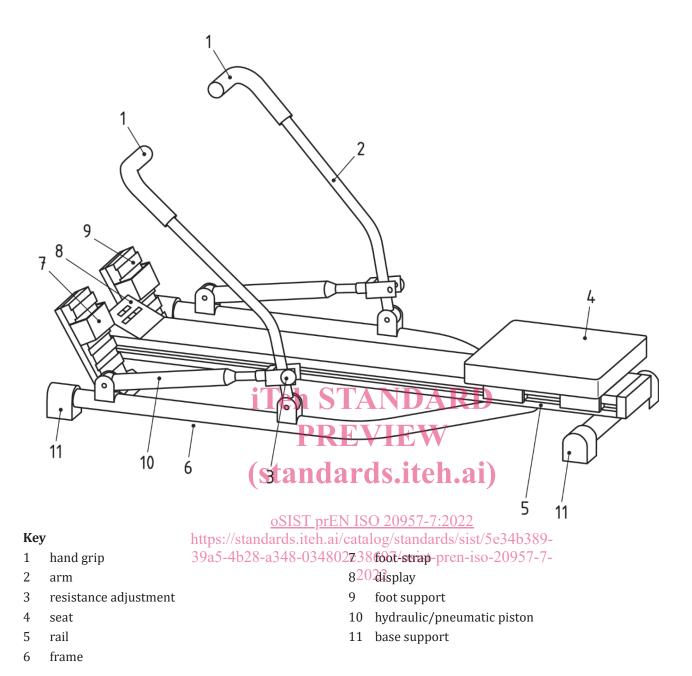
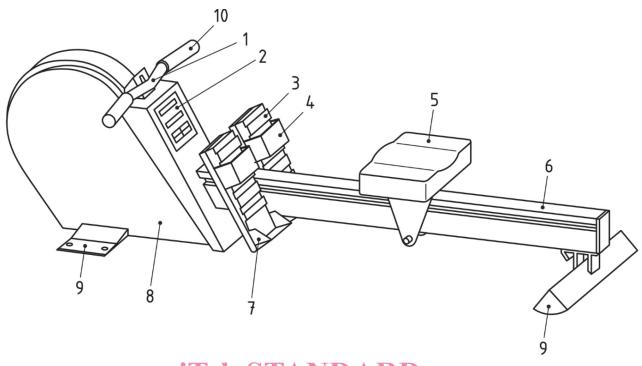


Figure 1 — Example of rowing equipment with hydraulic/pneumatic system



Key

- 1 handle
- 2 display
- 3 foot support
- 4 foot-strap
- 5 seat

iTeh STANDARD

PREV 7E heel support

(standards 91 thase support

10 hand grip

oSIST prEN ISO 20957-7:2022

Figure 2 m Example of rowing equipment with cable system

39a5-4b28-a348-034802c38697/osist-pren-iso-20957-7-

2022

4 Classification

4.1 General

The classification given in ISO 20957-1:2013 shall apply.

Equipment shall be classified in accordance with accuracy and usage classes as described in 4.2 to 4.3.

If the intended use of the equipment is for more than one usage class it shall fulfil the requirements of each class.

4.2 Accuracy classes

- **4.2.1** Accuracy classes only apply to equipment which display training data.
- **4.2.2** Class A: high accuracy.
- **4.2.3** Class B: medium accuracy.
- **4.2.4** Class C: low accuracy.

NOTE The requirements of accuracy classes are shown in the additional specific parts of this International Standard.

4.3 Usage classes

4.3.1 Class S (Studio): professional and/or commercial use.

NOTE Such stationary training equipment is intended for use in training areas of organizations such as sport associations, educational establishments, hotels, clubs and studios, where access and control is specifically regulated by the owner (person who has the legal responsibility).

4.3.2 Class H (Home): domestic use.

NOTE Such stationary training equipment is intended for use in private homes where access to the equipment is regulated by the owner (person who has the legal responsibility).

4.3.3 Class I: professional and/or commercial use provided for inclusive use for people with special needs (e.g. visual, hearing, physical or learning disabilities).

Such equipment shall also be in compliance with class S requirements (see 4.3.1).

NOTE Such stationary training equipment is intended for use in training areas of organizations such as sport associations, educational establishments, hotels, clubs, rehabilitation centres and studios, where access and control is specifically regulated by the owner (person who has the legal responsibility).

5 Safety requirements

iTeh STANDARD PREVIEW

5.1 General

Depending on the design of the piece of equipment, the following requirements shall apply, as appropriate.

5.2 External construction

oSIST prEN ISO 20957-7:2022

https://standards.iteh.ai/catalog/standards/sist/5e34b389-

5.2.1 Squeeze, shear and reciprocating points within the accessible area 57-7-

2022

The squeeze, shear and reciprocating points within the accessible area shall be in accordance with ISO 20957-1:2013.

5.2.2 Transmission elements and rotating parts

Transmission elements, fans and flywheels shall be in accordance with ISO 20957-1:2013.

5.2.3 Temperature rise of accessible surfaces

Accessible surfaces of the rowing equipment shall have a temperature of \leq 65 °C.

Test in accordance with 6.3.

5.2.4 Seat

The seat shall not derail when a load of ≥100 N is applied to the seat in all directions.

Test in accordance with 6.2.

5.3 Intrinsic loading

The rowing equipment shall withstand a load of 2,5 times the maximum user's body mass ± 5 % as specified by the manufacturer or 2 500 N, whichever is greater.