

Stacionárne tréningové zariadenia. Časť 9: Elipsovité tréningové zariadenia, ďalšie špecifické bezpečnostné požiadavky a skúšobné metódy (ISO 20957-9: 2016).

STN EN ISO 20957-9

94 0201

Stationary training equipment - Part 9: Elliptical trainers, additional specific safety requirements and test methods (ISO 20957-9:2016)

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 05/17

Obsahuje: EN ISO 20957-9:2016, ISO 20957-9:2016

Oznámením tejto normy sa ruší STN EN 957-9 (94 0201) z januára 2004

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN ISO 20957-9

November 2016

ICS 97.220.30

Supersedes EN 957-9:2003

English Version

Stationary training equipment - Part 9: Elliptical trainers, additional specific safety requirements and test methods (ISO 20957-9:2016)

Équipement d'entraînement fixe - Partie 9: Appareils d'entraînement elliptiques, exigences spécifiques de sécurité et méthodes d'essai supplémentaires (ISO 20957-9:2016)

Stationäre Trainingsgeräte - Teil 9: Ellipsen-Trainer, zusätzliche besondere sicherheitstechnische Anforderungen und Prüfverfahren (ISO 20957-9:2016)

This European Standard was approved by CEN on 14 August 2016.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

EN ISO 20957-9:2016 (E)

	ge
European foreword	3

European foreword

This document (EN ISO 20957-9:2016) has been prepared by Technical Committee ISO/TC 83 "Sports and other recreational facilities and equipment" in collaboration with Technical Committee CEN/TC 136 "Sports, playground and other recreational facilities and equipment" the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2017, and conflicting national standards shall be withdrawn at the latest by May 2017.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 957-9:2003.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Endorsement notice

The text of ISO 20957-9:2016 has been approved by CEN as EN ISO 20957-9:2016 without any modification.

INTERNATIONAL STANDARD

ISO 20957-9

Second edition 2016-10-15

Stationary training equipment —

Part 9:

Elliptical trainers, additional specific safety requirements and test methods

Équipement d'entraînement fixe —

Partie 9: Appareils d'entraînement elliptiques, exigences spécifiques de sécurité et méthodes d'essai supplémentaires



ISO 20957-9:2016(E)



COPYRIGHT PROTECTED DOCUMENT

© ISO 2016, 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

Con	tents		Page	
Forew	ord		iv	
Introd	luction		v	
1				
_	-	ative references		
2				
3		and definitions		
4	Classi	fication	2	
5	Safety	requirements	4	
	5.1	General		
	5.2	Squeeze and shear points of external construction within the accessible area	4	
	5.3 5.4	Temperature rise of external construction		
	5.4	5.4.1 Movable handlebars		
		5.4.2 Non-movable handlebars		
		5.4.3 Seat handlebars		
	5.5	Footplatforms		
		5.5.1 Non-slip surface		
		5.5.2 Guard		
	5.6	Stability		
	5.7	Endurance Seet graphs		
	5.8 5.9	Seat systemAdditional requirements for class A		
	5.10	Additional requirements for class B		
	5.11	Additional requirements for class C		
	5.12	Additional instructions for use		
	5.13	Additional warnings	<i>6</i>	
6	Test m	nethods	<i>6</i>	
	6.1	General		
		6.1.1 Dimensional check		
		6.1.2 Visual examination		
	6.0	6.1.3 Performance test		
	6.2 6.3	Testing of squeeze and shear points		
	6.4	Testing of intrinsic loading		
	6.5	Testing of handlebars		
		6.5.1 Movable handlebars		
		6.5.2 Non-movable handlebars		
		6.5.3 Seat handlebars		
	6.6	Testing of stability		
	6.7	Endurance testing.		
		6.7.1 Speed-independent elliptical trainers6.7.2 Speed-dependent elliptical trainers		
	6.8	Testing of seat system		
	6.9	Testing of additional requirements for class A		
		6.9.1 General		
		6.9.2 Speed-independent elliptical trainers		
		6.9.3 Speed-dependent elliptical trainers		
	6.10	Testing of power repeatability for class B		
	6.11	Testing of friction	12	
7	Test re	eport	13	
Biblio	granhv		14	

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 meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 83, *Sports and other recreational facilities and equipment.*

ISO 20957-9 was prepared by Technical Committee ISO/TC 83, Sports and other recreational facilities and equipment and by Technical Committee CEN/TC 136, Sports, playground and other recreational facilities and equipment in collaboration.

This second edition cancels and replaces the first edition (ISO 20957-9:2005), which has been technically revised. The main changes are as follows:

- a) publication as an EN ISO;
- b) formulation aligned with ISO 20957-1;
- c) <u>Clause 5</u> specified and restructured;
- d) Clause 6 specified and restructured;
- e) Normative references updated.

ISO 20957 consists of the following parts, under the general title, *Stationary training equipment*:

- Part 1: General safety requirements and test methods
- Part 2: Strength training equipment, additional specific safety requirements and test methods
- Part 4: Strength training benches, additional specific safety requirements and test methods
- Part 5: Pedal crank training equipment, additional specific safety requirements and test methods
- Part 6 Treadmills, additional specific safety requirements and test methods
- Part 7: Rowing machines, additional specific safety requirements and test methods
- Part 8: Steppers, stairclimbers and climbers Additional specific safety requirements and test methods

- Part 9: Elliptical trainers, additional specific safety requirements and test methods
- Part 10: Exercise bicycles with a fixed wheel or without freewheel, additional specific safety requirements and test methods

Introduction

This part of ISO 20957 contains additional requirements to ISO 20957-1. The requirements of this specific International Standard take precedence over those in the general standard.

Stationary training equipment —

Part 9:

Elliptical trainers, additional specific safety requirements and test methods

1 Scope

This part of ISO 20957 specifies additional safety requirements for elliptical trainers in addition to the general safety requirements of ISO 20957-1.

This part of ISO 20957 specifies safety requirements for cardiovascular equipment with a closed pattern motion and/or a reciprocating motion, where the user's feet are designed to be in contact with the footplatform, but not including steppers, performed from either a standing or seated position.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 4649:2010, Rubber, vulcanized or thermoplastic — Determination of abrasion resistance using a rotating cylindrical drum device

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

EN 71-1, Safety of toys — Part 1: Mechanical and physical properties

koniec náhľadu – text ďalej pokračuje v platenej verzii STN