INTERNATIONAL STANDARD



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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



Reference number ISO 20957-9:2005(E)

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Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possible 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.

ISO 20957-9 was prepared by CEN (as EN 957-9) and was adopted, under a special "fast-track procedure", by Technical Committee ISO/TC 83, *Sports and recreational equipment*, in parallel with its approval by the ISO member bodies.

ISO 20957 consists of the following parts, unto 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 specting 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

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Foreword

This document (EN 957-9:2003) has been prepared by the Technical Committee CEN/TC 136 "Sports, playground and other recreational 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 December 2003, and conflicting national standards shall be withdrawn at the latest by December 2003.

This European Standarckis one of the series EN 957 "Stationary training equipment" which consists of the following parts:

- 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 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 afety 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 reewheel, additional specific safety requirements and test methods

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austrial Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxern Durg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

Introduction

This Part of EN 957 amends and supplements EN 957-1. The requirements of this specific European Standard take priority over those in the general standard.

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1 Scope

This Part of EN 957 specifies safety requirements for elliptical trainers also described as cross training machines in addition to the general safety requirements of EN 957-1 and should be read in conjunction with it.

2 Normative references

This European Standated incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

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

EN 957-1:1996, Stationary training guipment — Part 1: General safety requirements and test methods.

Langing mats and surfaces for floor exercises — Determination of resistance to ISO 5904, Gymnastic equipment slipping.

Terms and definitions 3

For the purposes of this European Standard, the regres and definitions given in EN 957-1:1996 and the following apply:

3.1

elliptical trainer

manually operated training equipment which can produce a continuous reciprocating elliptical foot action which can include upper body training devices. Elliptical training functions as a continuous and reciprocating closed loop cycle

3.2

3.2 footplatform pedal device designed to support the foot whilst correctly performing the exercise procedure determined by the manu-

3.3

footplatform guard

pedal guard

fence

rigid part of the footplatform structure which is designed to prevent the foot moving of the footplatform whilst correctly performing the exercise procedure determined by the manufacturer

3.4

cvcle

one cycle of an elliptical trainer equals from start to start through the full range of motion (360°)

Classification 4

The classification as defined in clause 4 of EN 957-1:1996 applies.