



NSAI
Standards

Irish Standard
I.S. EN ISO 20957-2:2021

Stationary training equipment - Part 2: Strength training equipment, additional specific safety requirements and test methods (ISO 20957-2:2020)

I.S. EN ISO 20957-2:2021

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National Foreword

I.S. EN ISO 20957-2:2021 is the adopted Irish version of the European Document EN ISO 20957-2:2021, Stationary training equipment - Part 2: Strength training equipment, additional specific safety requirements and test methods (ISO 20957-2:2020)

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 20957-2

June 2021

ICS 97.220.30

Supersedes EN 957-2:2003

English Version

**Stationary training equipment - Part 2: Strength training
equipment, additional specific safety requirements and
test methods (ISO 20957-2:2020)**

Équipement d'entraînement fixe - Partie 2:
Équipement d'entraînement de force, exigences
spécifiques de sécurité et méthodes d'essai
supplémentaires (ISO 20957-2:2020)

Stationäre Trainingsgeräte - Teil 2: Kraft-
Trainingsgeräte, zusätzliche besondere
sicherheitstechnische Anforderungen und
Prüfverfahren (ISO 20957-2:2020)

This European Standard was approved by CEN on 30 July 2020.

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.

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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN ISO 20957-2:2021 (E)

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European foreword

This document (EN ISO 20957-2:2021) 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 December 2021, and conflicting national standards shall be withdrawn at the latest by December 2021.

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

This document supersedes EN 957-2:2003.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Endorsement notice

The text of ISO 20957-2:2020 has been approved by CEN as EN ISO 20957-2:2021 without any modification.

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INTERNATIONAL STANDARD

**ISO
20957-2**

Second edition
2020-08

Stationary training equipment —

Part 2:

Strength training equipment, additional specific safety requirements and test methods

Équipement d'entraînement fixe —

*Partie 2: Équipement d'entraînement de force, exigences spécifiques
de sécurité et méthodes d'essai supplémentaires*



Reference number
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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).

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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 83, *Sports and other recreational facilities and equipment*, Subcommittee, 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 CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 20957-2:2005), which has been technically revised.

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

- the formulation has been aligned with ISO 20957-1;
- [Clause 3](#) has been updated;
- [Clause 5](#) has been specified and restructured;
- [Clause 6](#) has been specified and restructured;
- additional requirements for externally loaded equipment have been added to [Clauses 5](#) and [6](#).

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 2:

Strength training equipment, additional specific safety requirements and test methods

1 Scope

This document specifies additional safety requirements for stationary strength training equipment.

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

This document is applicable to stationary training equipment type strength training equipment with stacked weight resistance or other means of resistance, such as elastic cords, hydraulic, pneumatic, electrical, magnetic, springs and externally loaded weights (type 2) (hereinafter referred to as training equipment) with the classes H, S and I according to ISO 20957-1.

NOTE Free-weight barbell racks are subject to the requirements of ISO 20957-4 and ISO 20957-1.

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 12100, *Safety of machinery — General principles for design — Risk assessment and risk reduction*

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

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 20957-1 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 <http://www.electropedia.org/>

3.1

selectorized equipment

strength training equipment where the resistance means is a load that is an integral part of the device that can be varied by the user without adding or removing components to and from the equipment

Note 1 to entry: An example of equipment where this component is relevant is shown in [Figure 1](#).

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