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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 17498.5-2008

Replacing GB 17498.5-2008

**Indoor stationary training equipment - Part 5: Stationary
exercise bicycles and upper body crank training equipment -
Additional specific safety requirements and test methods
(English Translation)**

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1.Structure and Drafting Rules of Standardization Documents".

Drafting.

This document is Part 5 of GB/T 17498 "Indoor Fixed Fitness Equipment". GB/T 17498 has already published the following parts.

---Part 1.General safety requirements and test methods;

---Part 2.Additional Special Safety Requirements and Test Methods for Strength Training Equipment;

---Part 4.Additional Special Safety Requirements and Test Methods for Strength Training Benches;

---Part 5.Additional special safety requirements and test methods for stationary exercise bikes and upper limb crank exercise equipment;

---Part 6.Additional Special Safety Requirements and Test Methods for Treadmills;

---Part 7.Additional Special Safety Requirements and Test Methods for Rowing Machines;

---Part 8.Additional special safety requirements and test methods for steppers, stair climbers and climbing machines;

---Part 9.Additional Special Safety Requirements and Test Methods for Elliptical Trainers;

---Part 10.Additional special safety requirements and test methods for exercise bikes with fixed wheels or without flywheels.

This document replaces GB 17498.5-2008 "Fixed Fitness Equipment - Part 5.Special Features for Crank Pedal Training Equipment".

Compared with GB 17498.5-2008, the main technical changes in "Safety Requirements

and Test Methods" are as follows, apart from structural adjustments and editorial modifications.

- Change "crank pedal training equipment" to "crank fitness equipment" (see 3.1,.2008 version 3.1);
- Added terms and definitions (see 3.2~3.14);
- The illustrations have been changed (see Figures 1-3, Figures 1-3 from the.2008 version);
- The term "fan" has been changed to "wind impeller" (see 5.2.1,.2008 version 5.2.1);
- Some requirements have been added (see 5.3.1~5.3.3, 5.4.2, 5.7, 5.9);
- The "Additional Level Requirements" have been changed (see 5.8, 5.8, 5.9, and 5.10 in the.2008 edition);
- The "Additional User Notes" have been revised (see Chapter 7 of the.2008 edition, 5.10);
- The "Additional Warnings" have been changed (see Chapter 8 of the.2008 edition, 5.11);
- The "pedal" requirement has been removed (see 5.6 in the.2008 version);
- Some experimental methods have been added (see 6.3.1, 6.3.2, 6.4.1~6.4.3, 6.6, 6.9, 6.10);
- The "manufacturer's certificate" has been removed (see 6.1.5 in the.2008 version).

This document is modified to adopt ISO 20957-5:2016 "Stationary exercise equipment - Part 5.Stationary exercise bikes and upper limb crank exercises".

Special safety requirements and test methods for equipment.

The technical differences between this document and ISO 20957-5:2016, and the reasons therefor, are as follows.

- ISO 20957-1 has been replaced with the normatively referenced GB/T 17498.1 to adapt to my country's technical conditions.

The following editorial changes have been made to this document.

- To align with existing standards, the standard title has been changed to "Indoor Stationary Fitness Equipment Part 5.Stationary Exercise Bikes and Upper Limb Exercises".

Special safety requirements and test methods for crank-type fitness equipment.

- Correct the following in ISO 20957-5:2016.6.10, "Disconnect the signal and check if the power drop is in accordance with the requirements in 5.9".

The instruction is to "disconnect the signal and check if the power drop is performed as required in 5.8".

---The formula in Annex A of ISO 20957-5:2016 is corrected as follows.

- (A.2) $m \times g \times \Delta t =$

$2m \times$

$2J \times$

Corrected to $m \times g \times \Delta t =$

$2m \times$

$2J \times$

$2;$

- (A.6) $b =$

$2 \times \Delta t$

Δt

Corrected to $b =$

$2 \times \Delta t$

Δt^2

- (A.7) $b =$

$2 \times \Delta t$

Δt

Corrected to $v =$

$2 \times \Delta t$

Δt

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the China National Light Industry Council.

This document is under the jurisdiction of the National Technical Committee on Standardization of Stationery and Sports Equipment (SAC/TC514).

Introduction

GB/T 17498 "Indoor Fixed Fitness Equipment" is divided into 9 parts. Part 1 covers general requirements, while the other parts cover specific requirements for particular equipment.

Special requirements. For fitness equipment covered by special requirements, the safety

requirements are a combination of general requirements and these special requirements. GB/T 17498 is proposed.

It consists of 9 parts.

---Part 1.General Safety Requirements and Test Methods. This section describes the general safety requirements and test methods for indoor stationary fitness equipment.

Verification method.

---Part 2.Additional Special Safety Requirements and Test Methods for Strength Training Equipment. The purpose is to describe strength training equipment.

Additional special safety requirements and testing methods for materials.

---Part 4.Additional Special Safety Requirements and Test Methods for Strength Training Benches. The purpose is to describe the specific safety requirements and test methods for strength training benches.

Additional special safety requirements and testing methods for the stool.

---Part 5.Additional special safety requirements and test methods for stationary exercise bikes and upper limb crank exercise equipment. The purpose is to...

This describes the special safety requirements and test methods for stationary exercise bikes and upper limb crank exercise equipment.

---Part 6.Additional Special Safety Requirements and Test Methods for Treadmills. The purpose is to describe the additional special safety requirements for treadmills.

Requirements and test methods.

---Part 7.Additional Special Safety Requirements and Test Methods for Rowing Machines. The purpose is to describe the additional special safety requirements for rowing machines.

Requirements and test methods.

---Part 8.Additional Special Safety Requirements and Test Methods for Steppers, Stair Climbers, and Mountain Climbers. The purpose is to describe the specific safety requirements and test methods for steppers.

Additional special safety requirements and testing methods for ladder machines, stair climbers, and mountaineering machines.

---Part 9.Additional Special Safety Requirements and Test Methods for Elliptical Trainers. The purpose is to describe the additional safety requirements and test methods for elliptical trainers.

Special safety requirements and testing methods.

---Part 10.Additional Special Safety Requirements and Test Methods for Exercise Bikes with