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

GB/T 34454-2017

**Dry cleaning robots for household use -- Methods of measuring
performance**

家用干式清洁机器人 性能测试方法
(English Translation)

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard uses the translation method identical with IEC 62929:2014 "Household cleaning robot dry. Performance testing methods." the documents of our country that are consistent with the corresponding international documents that are normative references in this standard are as follows.

--- GB/T 1804-2000 General tolerances Tolerances for linear and angular dimensions without tolerance (eqvISO 2768-1:1989)

--- GB/T 17671-1999 cement mortar strength test method (ISO method) (ISO 679:1989, IDT) this standard made the following editorial changes.

--- The standard name changed to "household dry cleaning robot performance testing methods." Please note that some of this document may be patentable. The issuing agencies of this document do not bear the responsibility of identifying these patents.

This standard proposed by the China Light Industry Federation.

This standard by the National Standardization Technical Committee appliances (SAC/TC46) centralized.

This standard was drafted unit. Cobos Robot Co., Ltd., Jiangsu United States clean Electric Co., Ltd., Shenzhen Silver Star Intelligent Technology Co., Ltd., China Household Electrical Appliances Research Institute, Shenzhen Hua Measurement Technology Co., Ltd., Bo Xihua Electric (Jiangsu) Co., Ltd., Shanghai Flying Branch Electric Co., Ltd., Suzhou Green Detection Technology Co., Ltd., Suzhou Exit Inspection and Quarantine, Chongqing University of Posts and Telecommunications, Western Communications University of Liverpool, Robotics Research Center, Zhejiang University.

Introduction

In addition to the performance testing methods covered by this standard, there are several performance testing methods already under consideration. Already discussed but not yet written into the standard performance test items. Corner dust removal capabilities, noise, return to the charging seat, anti-drop, in addition to fiber capacity, dust and so on.

Test items that have been put on hold during the drafting of this standard will continue to be discussed and written into future versions.

Household dry cleaning robot performance testing methods

1 Scope

This standard specifies the basic performance of dry cleaning robot test methods.

This standard applies to dry cleaning robots used at home and similar conditions.

This standard does not involve safety and performance requirements.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article. For undated references, the latest edition (including all amendments) applies to this document.

Household vacuum cleaners - Part 1. Performance test methods for dry vacuum cleaners (IEC 60312-1:2010, IDT) ISO 554 conditioning and/or testing Standard atmosphere specification (Standard atmospheres for conditioning and testing-Specifications) ISO 679:2009 cement test methods Determination of strength (Cement-Test methods-Determination of strength ISO 2768-1-1989 General tolerances Part 1. Tolerances for linear and angular dimensions without tolerance (General tolerances-Part 1: Tolerances for linear and angular dimensions without individual tolerance indications)

3 Terms and definitions

GB/T 20291.1-2014 defined and the following terms and definitions apply to this document.

Cleaning robot Battery-powered automatic cleaner automatic battery-powered cleaners in certain areas, automatic floor cleaning can work independently without any human intervention.

Note The cleaning robot consists of moving parts and possibly a charging stand and/or accessories for assisting work.

Dry cleaning robot Cleaning robots used only to clean non-liquid substances on the floor without the aid of a liquid or a solution.

Note: Typical cleaning methods include vacuum, roller brush, rag and duster.

Cleaning head the air inlet on the bottom of the robot.

NOTE The width of the cleaning head refers to the width of the air inlet in the direction of advancement of the appliance.

Agitation device an electromechanical device or blower connected to the robot to aid in dust removal.