

ICS 97.080
CCS Y 62



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

GB/T 46495-2025

Commercial cleaning robots

商用清洁机器人

Issued on: October 5, 2025

Implemented on: May 1, 2026

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

Table of Contents

1.Scope	1
2 Normative References	1
3.Terms and Definitions	2
5.Technical Requirements	3
6.Test Methods	5
7.Inspection Rule	27
31 References	35

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. 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 Household Appliances (SAC/TC46). This document was drafted by: China Household Electric Appliance Research Institute, Ecovacs Commercial Robotics Co., Ltd., and Haibo (Suzhou) Robotics Technology Co., Ltd. The company, Huizhi Robotics Technology (Shenzhen) Co., Ltd., Guangdong Baiyun Cleaning Co., Ltd., Hangzhou Ezviz Software Co., Ltd., and Vorwerk Manufacturing Co., Ltd. Manufacturing Co., Ltd., Zhejiang Yuefuren Intelligent Technology Co., Ltd., Guangdong Product Quality Supervision and Inspection Institute, China Quality Certification Center Co., Ltd. Company, Meizhi Zongheng Technology Co., Ltd., China Household Electric Appliance Research Institute (Beijing) Testing and Certification Co., Ltd., Youdi Robot (Wuxi) Co., Ltd. Qingdao Haier Smart Technology R&D Co., Ltd., Suzhou Lvchuang Testing Service Co., Ltd., and Anhui Zhongren Beijia Technology Co., Ltd. The main drafters of this document are. Qu Zongfeng, Xiao Xiang, Qu Weixin, Wang Kun, Xu Shaoqiang, Huang Guangjian, Jiang Xiaochun, Lei Yonggan, Chen Xiangzhi, and Bi Chongqiang. Guo Hui, Shen Zhiyi, Sun Tao, Wang Gang, Luo Pei, Yu Cailing, Wei Mingran, Xiong Kaisheng, Wang Xuan, He Yunyue. Commercial cleaning robots

1 Scope

GB/T 46495-2025 is the Chinese national standard covering the scrubber or sweeper that works a shopping centre or an airport on its own - the cleaning performance and coverage,

the navigation and the obstacle and person detection, the safety in a public space, the water and chemical handling, and the docking and endurance. At 20,000 words. First edition, in force from 1 May 2026. Issued on 5 October 2025, it has been in force since 1 May 2026.

This document specifies the classification, technical requirements, inspection rules, marking, packaging, transportation, and storage of commercial cleaning robots, and describes the corresponding... Experimental methods. This document applies to commercial cleaning robots with a rated voltage not exceeding 250V. This document does not apply to.

---A robot intended for use in outdoor environments;

--- Robots intended for use in corrosive or explosive environments (such as dust, vapor, or gas).

---A robot intended for use in other extreme environments.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document. GB/T

73 Slotted flat-end set screws

GB/T 191 Packaging and Storage Graphic Symbols

GB/T 923 Hexagonal cap nuts

GB/T 4100-2015 Ceramic Tiles

GB 4343.1 Electromagnetic compatibility requirements for household appliances, power tools and similar appliances - Part