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

GB/T 36321-2018

Special robots - Classification, symbols and marking

特种机器人 分类、符号、标志

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard is proposed and managed by the National Specialized Robot Standardization Working Group (SAC/SWG13). This standard was drafted. Fujian Special Equipment Inspection and Research Institute, Hong Kong Chinese University (Shenzhen), Southeast University, China Special Equipment Testing Research Institute, Shandong Luneng Intelligent Technology Co., Ltd., Shenyang Xinsong Robot Co., Ltd., Nanjing Special Equipment Safety Supervision and Inspection Research Institute, Shanghai Shishi Intelligent Technology Co., Ltd., China Agricultural University, Zhongrui Funing Robot (Shenyang) Co., Ltd., Guangzhou Guide Electronic Technology Co., Ltd., Shenzhen Huichuan Technology Co., Ltd., CZ Zhuzhou Motor Co., Ltd., China University of Mining and Technology, Chinese Academy of Sciences Chongqing Green Intelligent Technology Research Institute, Qinchuan Machine Tool Group Co., Ltd., CITIC Heavy Industry Kaicheng Intelligent Equipment Co., Ltd., Shanghai Jiaotong University, Beijing Post Electric University, Zhijiu (Xiamen) Robot Technology Co., Ltd., Shanghai Wadi Intelligent Equipment Co., Ltd., Qingdao Luobofei Marine Technology Co., Ltd. Company, China Machine Productivity Promotion Center, Shenzhen Jinzhengfang Technology Co., Ltd., Hangzhou Hengsheng Technology Co., Ltd., Fuzhou Xin Autona Technology Limited. The main drafters of this standard. Zeng Qinda, Ding Ning, Song Aiguo, Hu Sufeng, Guo Rui, Ren Taolin, Wang Huifang, Lu Qihong, Zhang Chunlong, Liu Qian, Li Rongxi, Chen Peizheng, Zhang Wei, Li Yunwang, He Guotian, Hu Wanliang, Zhang Shusheng, Cao Qixin, Zhang Yanheng, Zhang Long, Wang Daping, Yang Minle, Zhang Ping, Fan Jun, Huang Chunxi. Special robot classification, symbols, signs

1 Scope

China's national standard for classifying special robots and for the symbols and model codes used to designate them. It specifies the terms and definitions, the categories, the symbols, the product model code rules and the marking, with an informative annex of

worked model examples. It is the companion to the special robot vocabulary, and it does the more practical half of the job. A classification puts the field's very disparate machines - firefighting, rescue, underwater, explosive disposal, inspection, agricultural, military - into a structure, which is what a procurement catalogue, a regulator and a statistical office all need. The model code rule is what turns that structure into something usable on a nameplate: an encoding that says what kind of robot this is, what it is for and what its principal parameter is, in a form that can be read without reference to the manufacturer's brochure. For a category defined by its diversity, that is more valuable than it would be in a settled industry.

This standard specifies the classification, general symbols and signs of special robots. This standard applies to special robots and is easy to identify and manage during manufacturing, use and maintenance.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article. Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 36239-2018 special robot terminology

3 Terms and definitions

The following terms and definitions as defined in GB/T 36239-2018 apply to this document. For ease of use, the following is repeated Some terms and definitions in GB/T 36239-2018.

3.1 Special robot specialrobot;professionalservicerobot A robot that is used in a professional field and is generally operated or used by specially trained personnel to assist and/or replace a person performing a task.

Note. Special robots refer to robots other than industrial robots, public service robots, and personal service robots. Generally refers to professional service robots. [GB/T 36239-2018, definition 2.1.1]

3.2 Agricultural robot agriculturalrobot Robots used in various production processes in the agricultural sector (including crop, forestry, animal husbandry, agricultural and sideline industries, fisheries, etc.). [GB/T 36239-2018, definition 3.1]

3.3 Power robot electricpowerrobot In the power industry, robots used in power production, transmission, and use. [GB/T 36239-2018, definition 3.2]

3.4 Construction robot constructionrobot In the construction industry, robots used in engineering construction, decoration, repair, inspection and other aspects. [GB/T 36239-2018, definition 3.3]

3.5 Logistics robot logisticsrobot In the warehousing, logistics, and transportation industries, robots used for cargo transportation, sorting, and inspection. [GB/T 36239-2018, definition 3.4]

3.6 Medical robot medicalrobot In the field of health care, robots used to prevent screening, diagnosis, treatment, surgery, medical training and other aspects.

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