

Report on the Chinese service robotics industry 2019-2023

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Abstracts

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According to the definition given by the International Federation of Robotics (IFR), a Service Robot is a semi-autonomous or a completely autonomous robot that provides beneficial services for human but is not used for manufacturing. The key difference between industrial robots and service robots lie in the fact that an industrial robot's working conditions are always known, while a service robot's working environment consists of a large number of unknown variables.

There are only a few types of service robots (cleaning, military, agricultural) to have been successfully commercialized so far on the international market, with advanced robotics such as medical robots and rehabilitation robots being still in developmental stages. Service robotics products for individuals and domestic use include home-keeping robots, entertainment robots, disability aid robots and surveillance robots. Robotic lawn mowers in particular have reached a high degree of commercialization, with many different products available for purchase, such as the Lawn Da Vinci, the Milking Bot and military drones that each possess their own fully mature supply chains.

According to statistical data from the IFR, a total of XX service robots were sold in 2018. Home and personal use service robots reached a sales volume of XX million units and a sales figure of XX billion USD. Social issues caused by aging populations around the world and an increase in living standards have caused a surge in demand for service robotics products, with technological innovations creating many different variations of service robots for different uses. Total sales are expected to reach a figure of XX billion USD in 2023.

The Chinese service robot industry is still in its earliest stages, with most products still in the R&D stage. Commercialized products are relatively rare in the Chinese market. The Chinese service robotics industry does possess a large amount of potential however, with the industry expected to expand at a fast rate in the near future. The total sales figure for Chinese service robotics products was XX billion CNY.

The population aging problem and the increasing degree of commercialization of robotics products are expected to create higher demand for robotics products on the Chinese market, with total sales figures expected to reach a total of XX billion CNY by 2023.

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