



CLOUDWALKER ROBOTICS

THE WORLD'S FIRST BIONIC CURTAIN WALL CLEANING ROBOT BUILT FOR CLEANING COMPLEX BUILDING FACADES AT HEIGHT



ABOUT CLOUDWALKER ROBOTICS

The company is positioned as a provider of unmanned integrated solutions for high-altitude curtain wall cleaning robots and high-altitude cleaning operations.

In 2023, the company won the "Blue Ocean Talent Program" innovation and entrepreneurship Team of Nanhai District of Foshan City, the first prize and the Organizing Committee award of HIT Global Alumni Innovation and Entrepreneurship Competition in 2024, and the Innovation Award of the annual Finals of Hong Kong University of Science and Technology in 2024. At present, the products have completed the construction and application of multiple projects in Foshan/Shenzhen/Hefei. It has been unanimously recognized by customers, and has signed cooperation agreements with a number of industry head customers such as curtain wall building property owners/operators/cleaning service providers in China, Hong Kong, Macao, Singapore and other regions.



CLOUDWALKER ROBOTICS PRODUCT ADVANTAGE

Featuring a bionic wheel-leg design, it can easily surmount 20cm obstacles and adapt to various complex facade structures. The coaxial twin-rotor system delivers strong adhesion and intelligent force adjustment, ensuring safe and stable operation at height. Equipped with an AI binocular system, it identifies obstacles and dirt levels in real time, automatically matching cleaning modes for more precise operation. The high-frequency oscillating roller brush, paired with flexible wiper technology, deeply removes stubborn stains without leaving water marks, enabling standardized high-quality cleaning results. From flat surfaces to obstacle-crossing scenarios, and from single materials to composite facades, CloudWalker Robotics tackles diverse challenges with intelligent cleaning solutions. It transforms high-risk aerial work into a safe, controllable, efficient and standardized process, redefining the standards for curtain wall cleaning. The company is committed to effectively solving the industry pain points of "high risk, high intensity, difficult recruitment and expensive labor" in traditional high-altitude cleaning operations through robots + buildings. After several projects' actual work verification, CloudWalker robotics have the following four significant advantages compared with traditional Spidermen:



SECURITY

It can reduce hundreds of high-altitude safety accidents every year.



HIGH EFFICIENCY

Robot cleaning efficiency is much higher than manual.



REDUCE COSTS

The robot effectively reduces the cost of Spider-Man's high-altitude work.



HIGH QUALITY

Standardized operation, cleaning quality is better than manual.

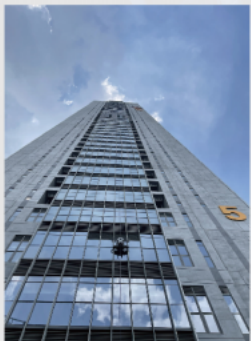
TNQ1 ROBOT PRODUCT PARAMETERS

Type	TNQ1
Weight	50Kg
Size	L1100 x W760 x H1280mm
Rated power	0.8KW
Working voltage	AC220V
Operating frequency	50/60Hz
Applicable curtain wall types	Various combinations of curtain walls, including hidden frame curtain walls, exposed frame curtain walls, composite curtain walls, windows, as well as those made of stone and glass
Applicable curtain wall material types	Glass, stone, metal plate
Comprehensive efficacy	1500-2000m ² /day
Cleaning width	0.6 ~ 1.5m
Construction height	≤200m
Obstacle clearance height	≤200mm
Working environment temperature	5 ~ 50°C
wind resistance rating	VI
Protection level	IP54

TNQ1 ROBOT APPLICATION SCENARIO

Cloudwalker robotics can be applied to almost all types of building curtain wall surface, such as flat glass curtain wall, horizontal and vertical frame partition glass curtain wall, rough stone curtain wall, metal plate curtain wall and other types of modeling and structural surface.

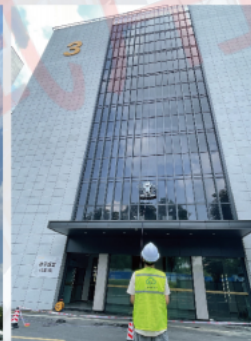
The facade of the building is complex, compared with the competing products can only be made of flat surface, Tiannius Q1 can easily cross 20cm high obstacles through the bionic wheel leg design, and the scene adaptability is increased from 5% to more than **90%**.



Super high-rise composite curtain wall



Flat glass curtain wall



Horizontal and vertical framed glass curtain wall



Metal + glass curtain wall



Podium curtain wall



Stone + glass curtain wall



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