



Professional cleaning made simple

Nanjing TVX Cleaning Equipment Co., Ltd.

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Website



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TVX Intelligent Cleaning Robot

*The image shown here is indicative only. If there is inconsistency
*Between the image and the actual product, the actual product shall govern

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TVX Robot Series

Highlights

TVX Full Scene Intelligent Cleaning Robot



Automatic Driving

Unattended and safe operation, environmental perception, autonomous obstacle avoidance
 Vehicle regulations and standards, reliable technology, continuous sweeping after power failure, supplementary sweeping for missed areas

Intelligent Supply

Self-charging, rapid replenishment, water filling and drainage, intelligent pile supply for multi machines with cross matching

Cleaning Efficiency

Continuous operation, lasting endurance, synchronous operation, dust removal without trace
 Graded cleaning on-demand, intelligent path and reasonable planning



Convenient Maintenance

Cloud operation, remote upgrade, quick start and simple interaction
 Easy to disassemble and maintain, supports manual operation for effective complementation

Flexible Performance

Smooth movement, flexible turning, linked scenes for cross-area cleaning
 Rapid mapping, accurate and efficient, cleaning for close edges and dead corners

Safe and Reliable

Hardware algorithm, comprehensive support, electromagnetic braking, safe parking
 Electrical protection, man-machine safety, voice broadcast, safety reminder



Comprehensive Service Guarantee

One-to-one butler services

Follow up the progress of machine fault resolution until resolved

7×24 online services

Free engineer on-site maintenance within the warranty period, and extra charges may apply outside the warranty period

General knowledge of machine operation, troubleshooting and consulting services

Lifelong free remote hardware and software support services

Product Value



Effort-Saving

Self-cleaning, cost reduction and efficiency increase
 All weather operation, unlimited endurance
 Full protection, safe and reliable
 Cloud management, decision basis



Powerful Support

Patent granted, leading technology
 Linked scenes, outstanding performance
 Scientific layout, improved image
 Case verification, rich experience



Satisfactory Service

Professional strength, comfortable communication
 Business team, considerate services
 Brand raw materials, assured quality
 Agile after-sales, easy maintenance



Upgraded image

Flexible obstacle avoidance

Remote control

Intelligent positioning

Cloud data

Autonomic regulation

Panoramic observation

Intelligent replenishment and drainage

SECURITY ALARM

TVX ROBOT Scrubber 50

Dust pushing / Sweeping / Floor scrubbing / Dirt suction
Efficient, intelligent, safe and professional driverless floor scrubber

Professional Cleaning

Dual roller brush, dual side brush, washing and sweeping in one, greatly reducing the blocking chance of air suction pipe;
Support various cleaning methods such as floor scrubbing / dust pushing, adaptive to various types of hard floors;
1.5kwh large battery and 72L large water tank greatly extend the battery duration of single operation

Automatic Driving

Fast and efficient mapping on site, supporting map expansion and automatic map update;
Multi sensor fusion supports intelligent perception and accurate positioning of complex scenes;
Automatic full coverage path planning, supporting intelligent obstacle avoidance and precise control

Safe and Reliable

Outdoor driverless safe driving with an accumulated one million plus kilometers;
Multiple safety guarantees such as anti-collision, anti-falling and anti-skidding;
Comply with EU safety certification and vehicle regulation and standards, assured and reliable quality



Actuator



Advanced algorithm



Navigation and positioning



Perception fusion



Application scenarios / Floors



Business building



Shopping mall



Supermarket



Exhibition hall



Hotel



Factory



Hospital



Railway station



Community



Airport



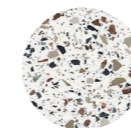
Warehouse



Underground garage



Cement ground



Terrazzo



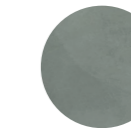
Epoxy floor



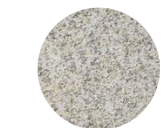
Ceramic tile



Marble



PVC ground

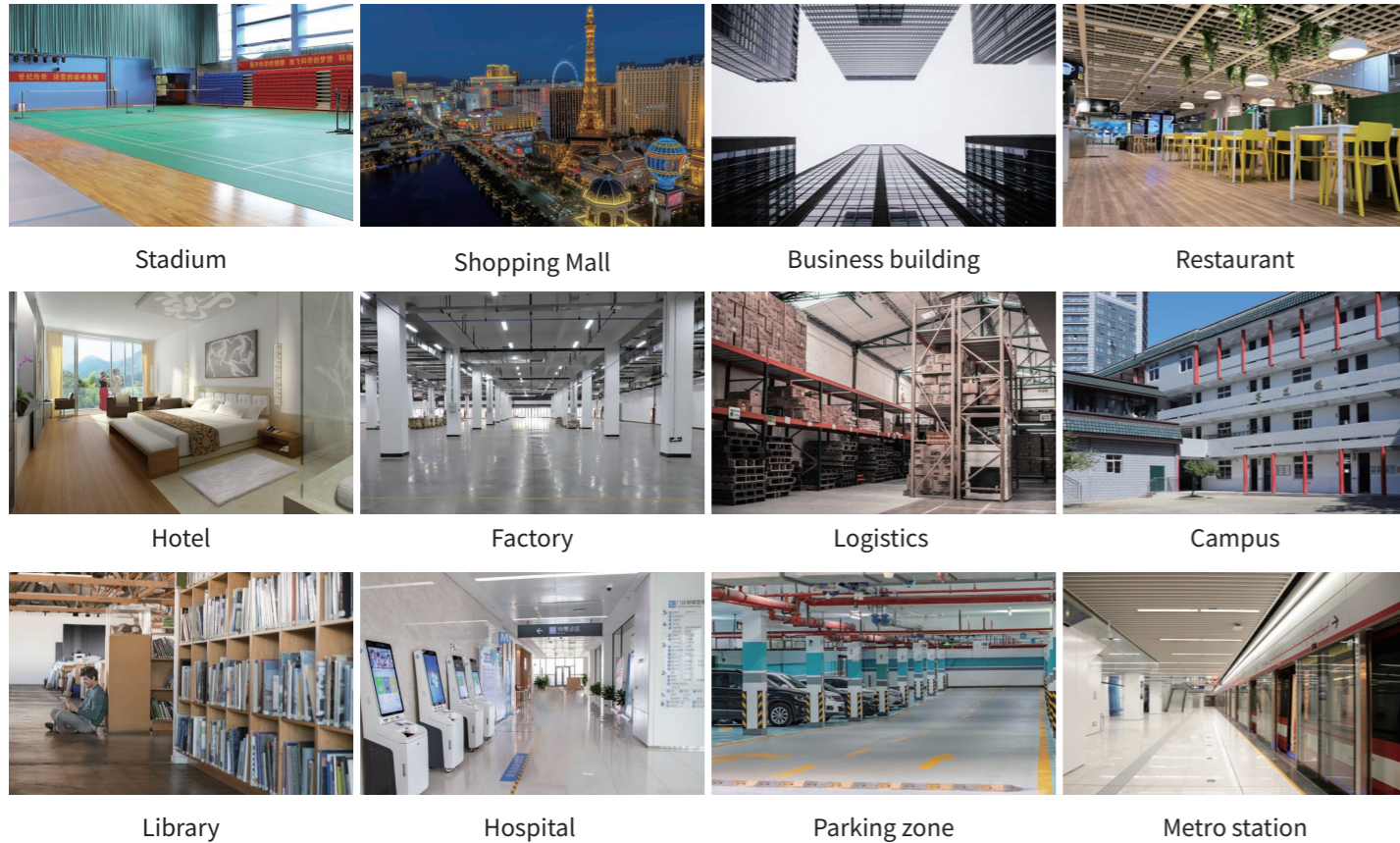
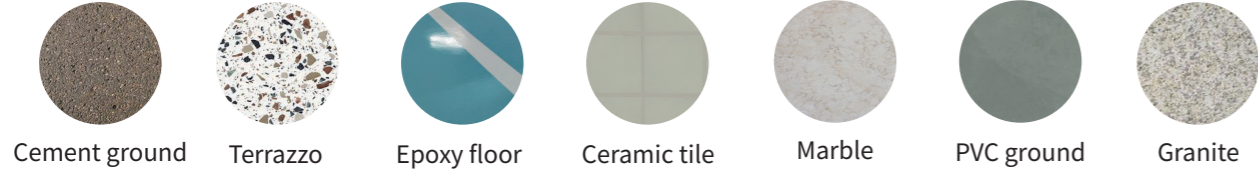


Granite

Parameters

TVX ROBOT Scrubber 50			
Overall Dimensions	800x700x1200mm	Solution tank capacity	42L
Net weight of unit	200Kg	Squeegee width	706mm
Maximum cleaning efficiency	1800m ² /h	Recovery tank capacity	30L
Battery specification	Lithium-iron battery 24V/60Ah	Garbage container capacity	1.5L
Battery duration	2.5-3h	Operation noise	<70dB(A)
Cleaning width	800mm	Climbing gradient	8°
Floor scrubbing width	500mm	Sensor configuration	Laser radar, ultrasonic radar, visual sensor, wheel speedometer, IMU, collision sensor, anti-fall sensor

Application scenarios / Floors



Parameters

TVX ROBOT Scrubber 80			
Overall Dimensions	1340x1024x1350mm	Recovery tank capacity	170L
Net weight of unit	430Kg	Garbage container capacity	1.5L
Maximum cleaning efficiency	4000m ² /h	Volume of cleaning solution	1000ml
Battery specification	Lithium-iron battery 38V/200Ah	Operation noise	<70dB(A)
Battery duration	5-6h	Climbing gradient	10°
Cleaning width	1160mm	Minimum u-turn passage width	1540cm
Floor scrubbing width	760mm	Sensor parameters	16-line laser radar, single-line laser radar, depth camera, ultrasonic radar, wheel speedometer, IMU, collision sensor, anti-fall sensor
Squeegee width	1024mm	Solution tank capacity	140L

TVX ROBOT Scrubber 80

Dust pushing / Sweeping / Floor scrubbing / Dirt suction
Efficient, intelligent, safe and professional driverless floor scrubber

Professional Cleaning

Dual roller brush, dual side brush, washing and sweeping in one, greatly reducing the blocking chance of air suction pipe;
Support various cleaning methods such as floor scrubbing / dust pushing, adaptive to various types of hard floors;
7.2kwh large battery and 300L large water tank greatly extend the battery duration of single operation



Actuator



Advanced algorithm



Navigation and positioning



Perception fusion

Automatic Driving

Fast and efficient mapping on site, supporting map expansion and automatic map update;
Multi sensor fusion supports intelligent perception and accurate positioning of complex scenes;
Automatic full coverage path planning, supporting intelligent obstacle avoidance and precise control

Safe and Reliable

Outdoor driverless safe driving with an accumulated one million plus kilometers;
Multiple safety guarantees such as anti-collision, anti-falling and anti-skidding;
Comply with EU safety certification and vehicle regulation and standards, assured and reliable quality



TVX ROBOT Sweeper 100

Cleaning / Vacuuming

Driverless sweeper opens a new era of intelligence

Unattended operation

Fusion sensor provides redundant information security;
 Detailed safety strategy enables the safe product operation in various scenarios;
 Complete software security architecture ensures driverless security from end to cloud;
 Bad road test over 1,200 kilometers ensures the reliability of software and hardware



Actuator



Advanced algorithm



Navigation and positioning



Perception fusion

Intelligent Operation

Auto wake-up for start-up operation, can tailor the cleaning plan based on your scenes;
 Intelligent voice reminder during cleaning process can help people understand the operation, with additional customized voice service available;
 Data monitoring and cloud management throughout the cleaning process, background real-time display of machine information and historical operation data;
 Featured with the intelligent functions such as breakpoint resume, automatic return in low power, automatic sprinkling, etc., which makes the cleaning ever simpler

Cleaning Quality

Truly solving the industrial pain points of zero-distance roadside cleaning, indoor + outdoor cleaning, so as to meet the multi-faceted needs;
 The 100-cm cleaning width of dual side brush ensures the cleaning quality, avoids secondary dust pollution and improves the working efficiency;
 The main and side brush linkage sweeping technology can efficiently clean the floor within a single pass;
 With double counter-rotating brushes and unique sweeping angle, only one machine is needed to sweep away all garbage



Application scenarios / floors



Park



Stadium



Scenic Spots and Historical Sites



Street



Factory



Logistics



Campus



Parking zone



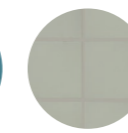
Commercial building



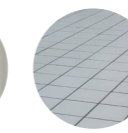
Terrazzo



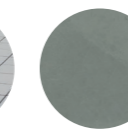
Epoxy floor



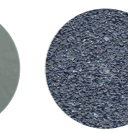
Ceramic tile



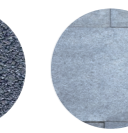
Small square brick



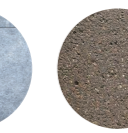
PVC ground



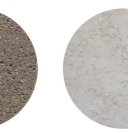
Asphalt ground



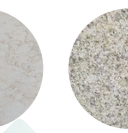
Rubble ground



Cement ground



Marble



Granite

Parameters

TVX ROBOT Sweeper 100			
Cleaning width	1000mm	Radius of turning circle	150cm
Working efficiency	3000m ² /h	Dimension	1450×916×1196mm
Gradeability	10°	Maximum running speed	5Km/h
Dustbin capacity	60L	Net weight	395Kg
Battery type	Ternary lithium battery	Battery performance	200Ah
Charging duration	4-5h	Applicable environment (outdoor)	-15°C - 40°C
Endurance mileage	30 - 40Km (comprehensive working condition)	Battery duration	6h (comprehensive working condition)