

INTRODUCING CC5 >>



32-Inch Autonomous Floor Scrubber

32-Inch Autonomous Floor Scrubber

CC5



Safe, efficient, hassle-free

- The CC5 is an intelligent autonomous 32-inch floor sweeper and scrubber ideal for large facilities and spaces such as manufacturing facilities, warehouses, arenas, convention centers, airports and other transportation hubs, retail stores and shopping centers, and more.
- Facilities can improve custodial efficiency and reduce costs by incorporating CC5 into their operations. CC5 effectively cleans most types of hard floors and is equipped with the most advanced environmental sensing, automatic mapping, autonomous cleaning and self-maintenance technology.

Autonomous Cleaning is Cleaning Made Easier

Fully
automatic
Safe
autonomous
operation

Adaptable to
complex
scenarios

»»
A-SPICE
compliance
Reliable
quality

Sweeper
and
scrubber in
one
Edge
cleaning

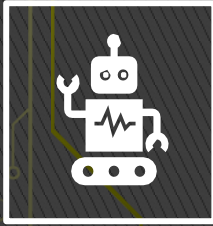
Large water
tank.
Large
battery
capacity

Quick and
easy to use
Simple
interaction

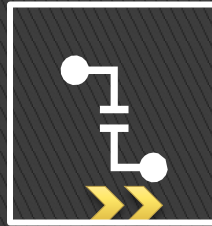
Cloud-based
monitoring,
In-depth
training and
responsive
customer
service



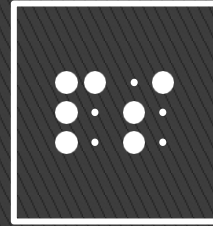
Eight Special Functions That Make Cleaning Easy and Efficient



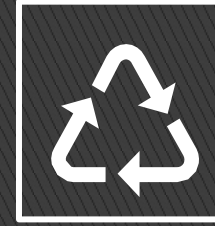
Automatic
charging, filling,
and draining



Break point
resuming



Cleaning of
missed areas



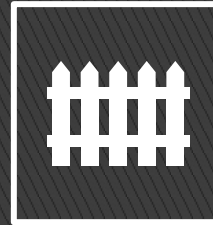
Automatic
cleaning of
recovery tank



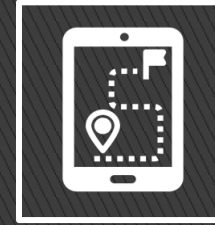
Detailed
Cleaning Report



Scheduled
tasks



Autonomous obstacle
avoidance



Intelligent
mapping



Cleans a variety of large spaces with ease



Indoor Parking Lot



Manufacturing Plant



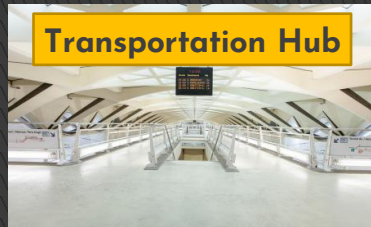
Warehouse



Shopping Center



Transportation Hub



Airport Lobby



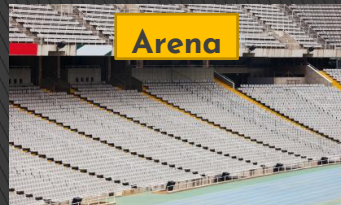
Sports Facility



Convention Center

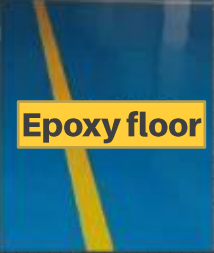


Arena

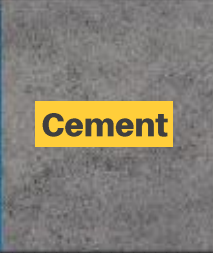




Ideal for most types of common hard floors



Epoxy floor



Cement



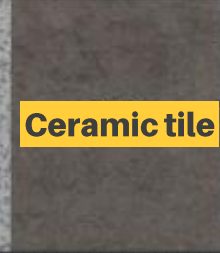
Marble



Terrazzo



Rubble



Ceramic tile



Silicon



PVC floor

Sweeper and Scrubber in One, Continuous Operation

Helping Facilities to Reduce Costs and Improve Efficiency

**Double roller brushes
+ double side
brushes, applicable
to a wide range of
scenarios**

1+1

Sweeper and scrubber
in one

**Large water tank
and battery
capacity, hassle-
free**



Large battery capacity

**Effective operating
hours exceed
industry standards by
a wide margin**



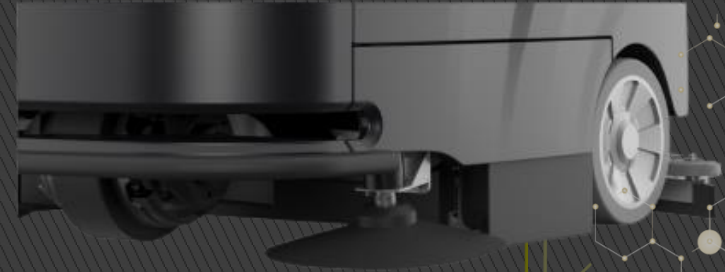
Continuous operation



Sweeper and Scrubber in One, Applicable to Multiple Scenarios

Double roller brushes +
double side brushes,
scrubbing and sweeping at
the same time >>>

Highly adaptable, with low risk of
blocking the squeegee

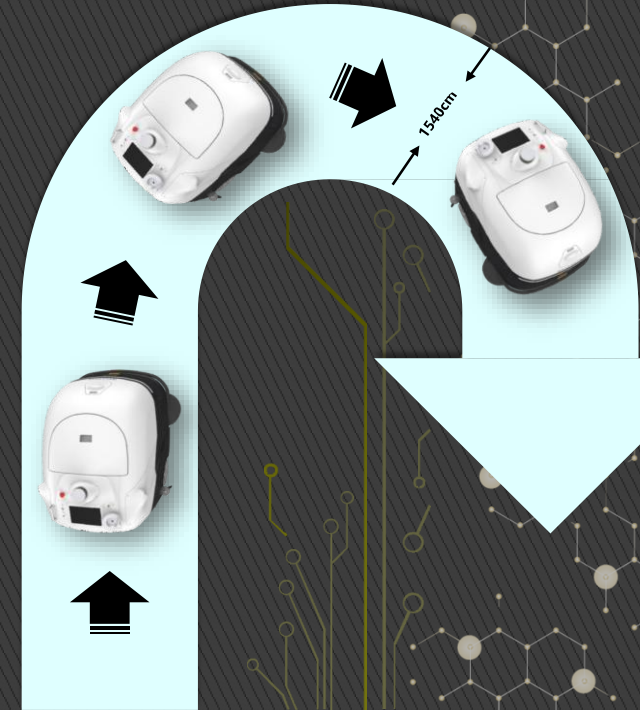


Double roller brushes + double
side brushes

Nimble & Smart, 33% Higher than Similar Products in Cleaning Efficiency



CC5 Parameters	
Dimension (mm)	L1340*W1024*H1350
Net weight (kg)	380
Maximum cleaning efficiency (m ² /h)	4000
Sweeping width (mm)	1160
Scrubbing width (mm)	800
Squeegee width (mm)	1024
Minimum U-turn width (cm)	1540
Maximum Slope	10 degrees





PRINGLE[™]
ROBOTICS

Large Water Tank, No Manual Intervention Needed



CC5

=



Similar product



Similar product



Similar product

Large Water Tank

140L solution tank + 170L recovery tank
Comparable to traditional large floor scrubbers, with 2.5 times the capacity of similar products

Q: Why is no filtering needed?

The 140L + 170L large water tanks enable a continuous and efficient operation of the scrubber even without the filtration function, effectively reducing the costs of materials and maintenance.

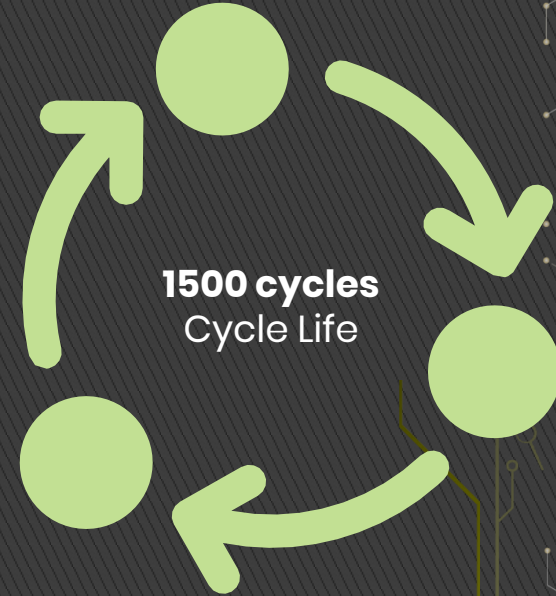
Safe Large-Capacity Battery,

Long-Lasting Operation on One
Charge



Safe Large-Capacity Battery

36V~200Ah LiFePO4 battery with
over 1500 cycles of life



25% better than similar products in
battery capacity (7.2kwh)

Long-Lasting Operation on One Charge, No Manual Intervention



Automatic charging, filling and draining

Automatic docking, automatic addition of cleaning agents and defoamers

7x24 continuous operation

Automatic cleaning of Recovery Tank

Maintenance-free, less manual intervention, longer running time on one charge

Odor-free, less manual intervention, improved sanitation

Well-Designed Safety System: Double Protection Supported by Hardware and Algorithm

Hardware



Anti-collision, anti-skid, anti-fall functions



Electromagnetic braking, safe parking



Algorithm



Multi-sensor fusion sensing, 360° coverage
without blind spot



Supporting multi-mode intelligent obstacle
avoidance and mapping

Leading Fusion Positioning & Fusion Sensing Technologies

Fusion Positioning Solutions

“Four-in-One” Framework for Fusion Positioning



Laser SLAM: positioning and navigation in areas with specific features



RTK: positioning and navigation in open or spacious areas



IMU: low-cost IMU with guaranteed accuracy of fast positioning (DR)



Wheel speedometer: high-precision wheel speedometer with guaranteed accuracy of fast positioning (DR)

Recommended hardware configuration

Standard



LiDAR: 16-beam



Vision: FOV $60^\circ \times 1 + \text{FOV } 90^\circ \times 2$



Ultrasonic sensor: 12

Optional



Surround view: FOV $190^\circ \times 4$



LiDAR: 16-beam * 1 (complex scenario / small obstacle detection)

LiDAR 16-beam * 1 (complex scenario / small obstacle detection)

Algorithms

Laser obstacle detection

Visual detection

Laser-vision space time synchronization

Ultrasonic detection

Multi-sensor fusion

Main Functions

Position, type, length, width, height, etc. of the obstacle

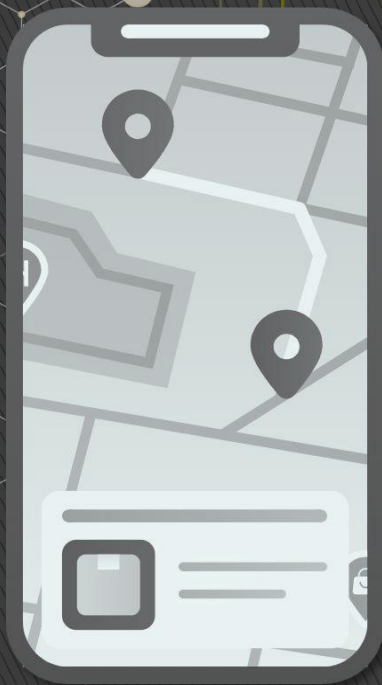
Typical obstacle, traffic light, lane line detection, etc.

External parameter calibration of high-precision laser camera; laser-vision time synchronization triggered by hardware

Ultrasonic radar target output

Multi-source information fusion based on GNN/EKF/DST

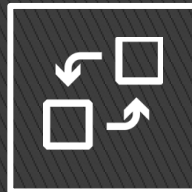
User-Friendly Interface



Operator



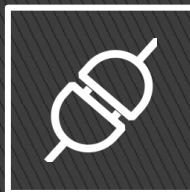
One-click
start



One-click manual-
Automatic switch



Cleaning the
missed areas



Break Point
Resuming



Scheduled
task

Supervisor



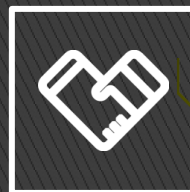
Operation
Report



Cloud-based
operation



Cloud-based
service



Worry-Free
after sales
service



OTA
Service

Thank You



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ROBOTICS