



PUDU CCI Series

Auto Workstation Series





User Pain Points

**Forgot to refill
water and
recharge**

**Manual
interference
reduces
efficiency**

**oversight
during shift
handover**

**missed routine
cleaning
component
maintenance**



Solution - Automatic Workstation Series

Freely configurable to meet any automated replenishment requirements.



PUDU CC1 series+ **Charging Station:**

Full-function cleaning + **auto power charging**



PUDU CC1 series + **Docking Station:**

Full-function cleaning + **auto water and power replenishment**



PUDU CC1 series + (Self-cleaning)**Docking Station:**

Full-function cleaning + **auto water and power replenishment** + **self-cleaning functionality**



PUDU CC1 series+ (Self-cleaning)**Docking Station** + **Mobile Water Station:**

Unrestricted by space, full-function cleaning + **auto water and power replenishment**



Solution - Automatic Workstation Series

01 Charging Station

Auto dry cleaning

Supports auto charging and is primarily used for sweeping and vacuuming. (The PUDU CCI series also offers manual water addition and drainage for wet cleaning.)



02 Docking Station

Auto dry & wet cleaning

Supports automatic charging, water supply and drainage, and detergent addition.



03 Docking Station

Auto dry & wet cleaning without plumbing modifications

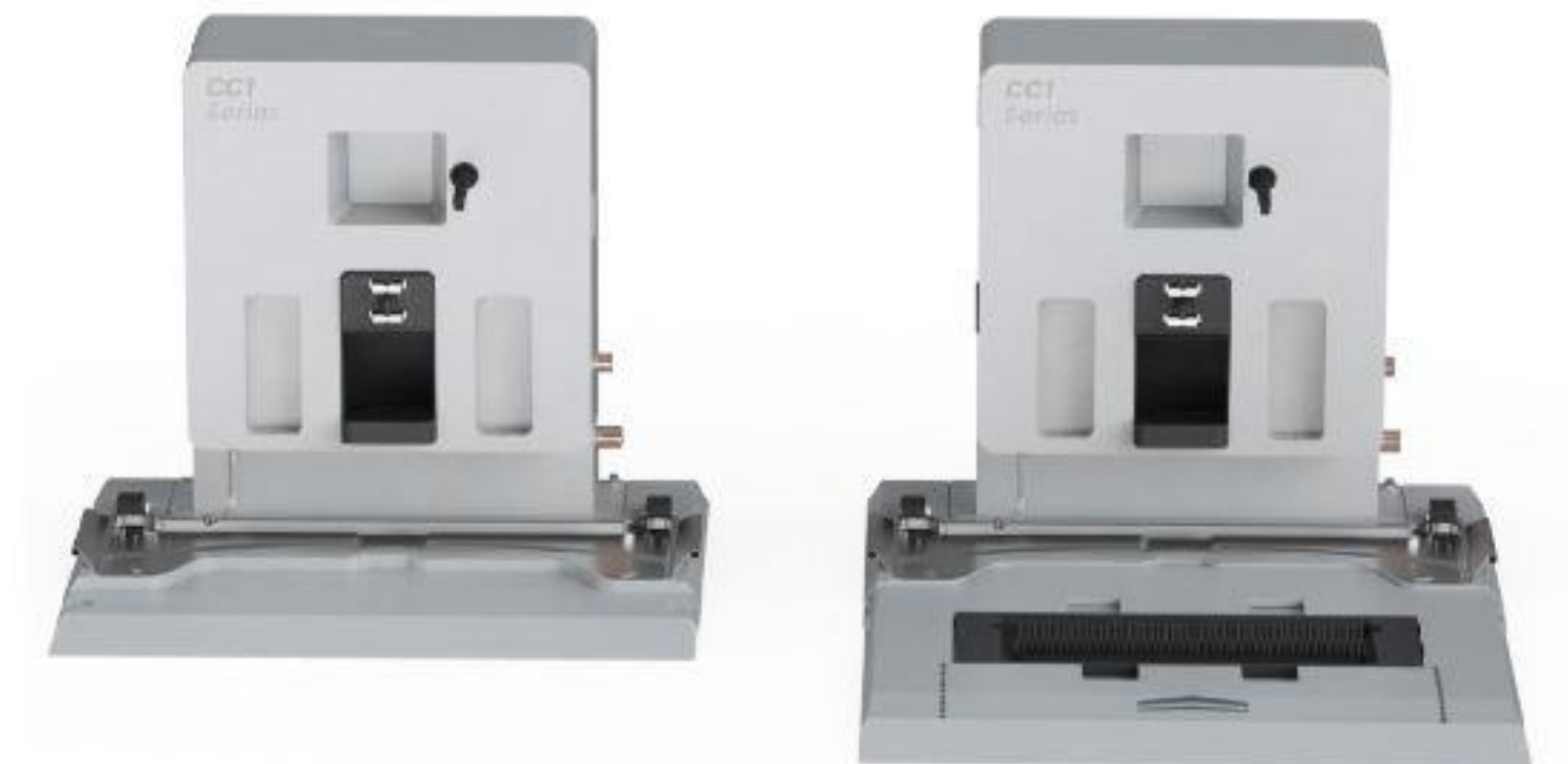
No need for plumbing modifications, Supports automatic charging, water supply and drainage, and detergent addition.



04 Self-cleaning Docking Station

Auto dry & wet cleaning

Supports automatic self-cleaning, charging, water supply and drainage, and detergent addition.





Solution – **Charging Station**

Enhancing Overall Cleaning Efficiency, Achieving Full Automation in Dry Cleaning

Auto charging allows for 24/7 continuous dry cleaning with minimal daily intervention, only requiring periodic maintenance.

Auto charging reduces downtime caused by battery depletion, improving overall cleaning efficiency.





Solution – **Docking Station**

Achieving Unattended Cleaning, Maximizing Cleaning Productivity

Auto charging eliminates the need for manual intervention, freeing up cleaning staff, enhancing daily cleaning efficiency, and allowing them to focus on more valuable tasks.

When water or power levels are low, the docking station automatically refills, ensuring 24/7 operation and surpassing manual cleaning frequency.





Solution – **Docking Station + Mobile Water Station**

Eliminate Water and Power Concerns with Effortless, Efficient Collaboration

For locations without water sources, the mobile water station can be easily deployed, supporting up to 9 hours of continuous auto cleaning and covering up to 6,000m² on a single charge.

No modifications needed—the docking station simply connects to a power source and the water station base. The mobile water tank can be easily moved to any location for refilling and drainage.





Solution – Docking Station + Mobile Water Station

Eliminate Water and Power Concerns with Effortless, Efficient Collaboration

Powered by 100W ultrasonic vibration, 65°C hot water, and a built-in cleaning brush, the system automatically deep-cleans the squeegee and roller brush. No manual upkeep needed, delivering a fully automated cleaning loop.

Supports two modes: full mode cleans both squeegee and roller brush, while compact mode cleans only the squeegee, saving space. Easily switch based on site needs for greater convenience.



Solution – Docking Station + Mobile Water Station



Solution – Self-cleaning Docking Station

Docking Station(new)

New CC1 Series docking station, compatible with the self-cleaning base.

Cleaning Tank Inlet

Heated water flows from the fixed workstation into the squeegee cleaning tank.

Squeegee Cleaning Tank

When docked, CC1 series places the squeegee into the cleaning tank, where ultrasonic vibration and hot water deliver a thorough clean. Quick removal of dirt and residue.

Ultrasonic Transducer

Generates up to 100W high-frequency vibrations to strip away stubborn dirt from the squeegee.

Self-Cleaning Base

Works with the docking station to perform automatic squeegee self-cleaning.

Roller Brush Cleaning Tank

When docked, CC1 places the roller brush into the tank for deep cleaning. Hidden rotating brushes wash away dirt for easy removal.

Hidden Cleaning Brush

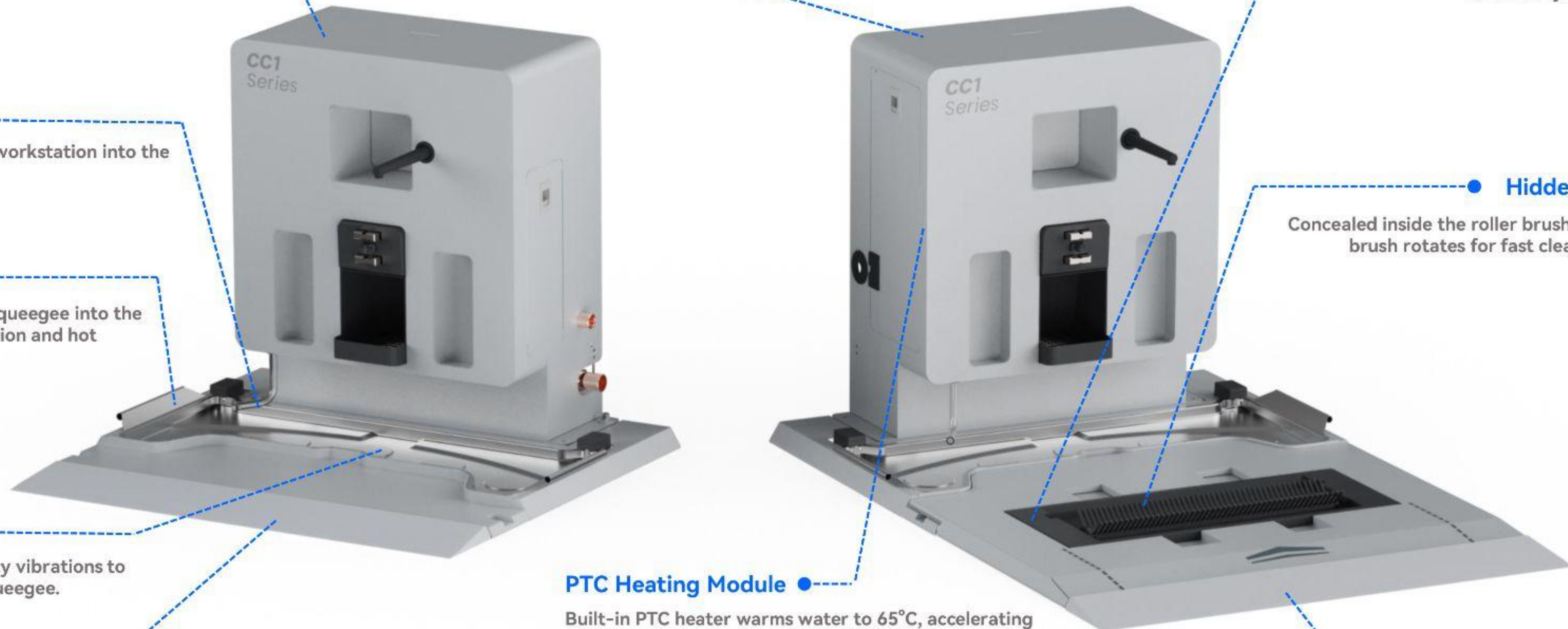
Concealed inside the roller brush cleaning tank. Spiral brush rotates for fast cleaning or replacement.

PTC Heating Module

Built-in PTC heater warms water to 65°C, accelerating the breakdown of oil, grease, and sticky residues.

Self-Cleaning Base Pro

Combines with the fixed workstation to form Self-Cleaning Workstation Pro, enabling both squeegee and roller brush self-cleaning.





Solution – Docking Station + Mobile Water Station



Product Dimensions	Docking station: 404 x 274 x 497 mm 15.91 x 10.79 x 19.57 in Base: 170 x 113 x 787 mm 6.69 x 4.45 x 30.98 in Mobile water tank: 480 x 470 x 740 mm 18.90 x 18.50 x 29.13 in
Product Weight	Docking station: 20 kg 44.09 lbs Base: 8 kg 17.64 lbs Mobile water tank: 20 kg 44.09 lbs
Clean Water Tank Capacity	30L, 7.93 gal (equivalent to 2 times the capacity of the PUDU CC1 series' clean water tank)
Waste water Tank Capacity	30L, 7.93 gal (equivalent to 2 times the capacity of the PUDU CC1 series' waste water tank)
Power Supply Method	The base draws power from the docking station.
Working Environment	Ambient temperature: 0-40 °C (32-104 °F) Ambient humidity: ≤90% RH (40°C)
Storage Environment	Ambient temperature: -20-60 °C (-4-140 °F) Ambient humidity: ≤90% RH (40 °C)
Usage Method	To be used in conjunction with the PUDU CC1 series docking station.



Solution – Docking Station + Mobile Water Station



Product Name	CC1 Seires Self-Cleaning Docking Station
Product Form	Self-Cleaning Docking Station / Self-Cleaning Docking Station Pro (Manual Switch)
Product Function	Supports auto charging, auto filling and drainage, auto filling of detergent, automatic cleaning of squeeze and roller brush of CC1 series robots
Product Dimensions (L, W, H)	Docking Station: 374 x 618 x 546 mm / 14.72 x 24.33 x 21.50 in Self-Cleaning Docking Station: 632 x 715 x 571 mm / 24.88 x 28.15 x 22.48 in Self-Cleaning Docking Station Pro: 1013 x 715 x 571 mm / 39.88 x 28.15 x 22.48 in
Product Weight	Docking Station: 25 Kg / 55.12 lbs Self-Cleaning Docking Station: 35 Kg / 77.16 lbs Self-Cleaning Docking Station Pro: 41 Kg / 90.39 lbs
Input Voltage	100-240 Vac
Output Voltage	29.2 Vdc
Working Temperature	0-40°C
Working Humidity	≤ 90% (40°C)
Storage Temperature	-20°C ~ 70°C
Communication Method	Bluetooth
Installation Requirements	Ground fixed or back against the wall fixed
External Dependencies	Water Source, Floor Drain, Power Supply, Mobile Water Station(Optional)



Benefits

Improve Operational Efficiency

Automatic Recharging: The PUDU CC1 can automatically return to the workstation series for recharging when the battery is low, ensuring the device always has enough power for cleaning tasks. This significantly reduces downtime caused by battery depletion and boosts work efficiency.

Automatic Water Refill and Drainage: After completing a cleaning task, the robot can automatically return to the docking station for water refilling and wastewater drainage, reducing the time needed for manual intervention.



Reduce Labor Costs

Save Manpower: The auto charging and auto water refill and drainage functions significantly reduce the need for manual operations, allowing employees to focus on more complex and value-added tasks, thus optimizing human resource allocation.

Minimize Human Errors: Automatic charging and water management systems minimize errors from manual handling, ensuring more reliable operations.

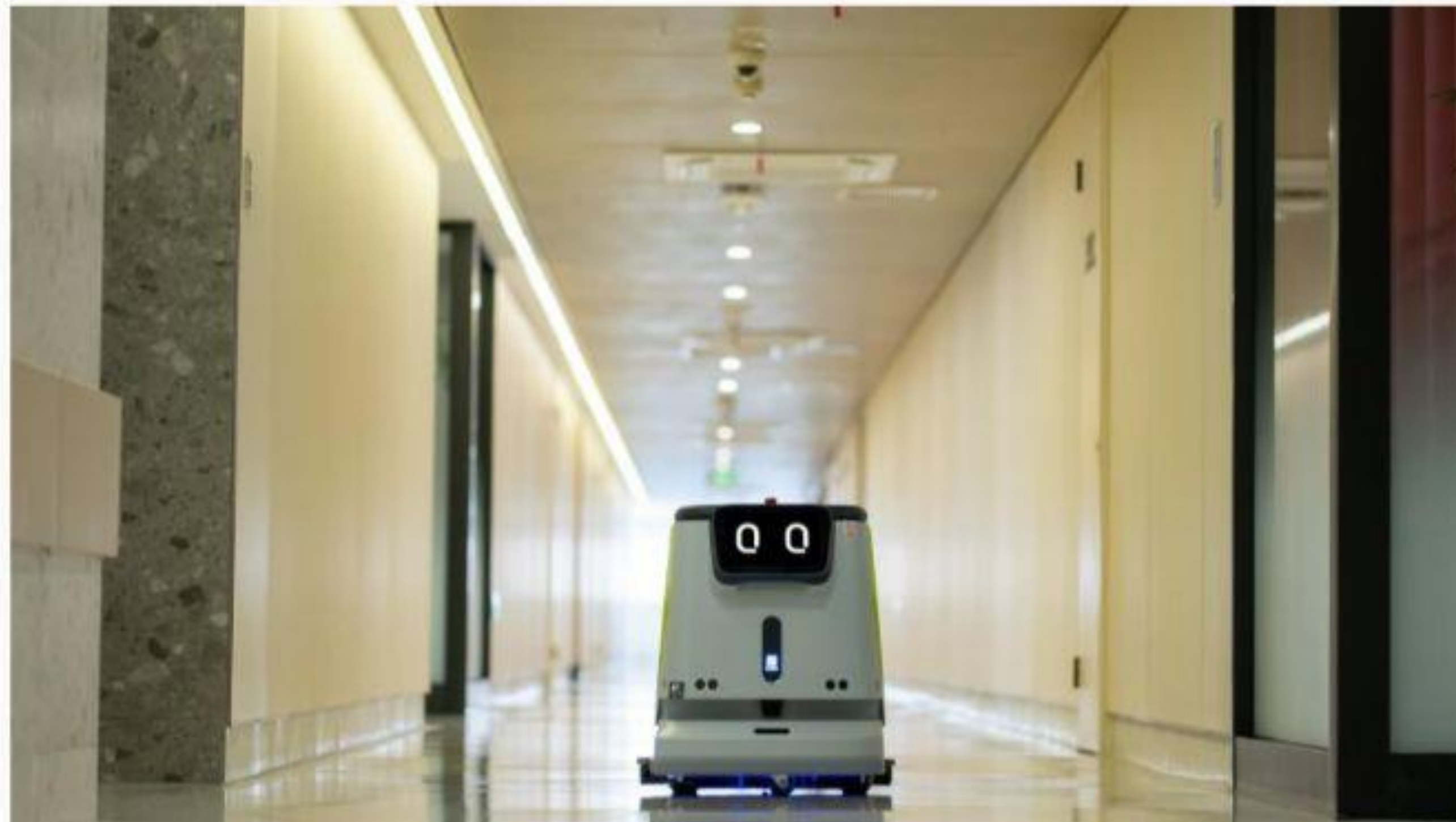


Benefits

Enhance Cleaning Effectiveness

Continuous Cleaning Capability: The workstation series ensures that the cleaning robot can run continuously for extended periods by providing automatic water refill and drainage functions, allowing it to complete large-area cleaning tasks without interruption.

Cover Larger Areas: With efficient charging and water management, the PUDU CC1 can operate more frequently and for longer periods, effectively covering larger areas—ideal for expansive venues like shopping malls and public transit hubs.



Data Management and Optimization

Smart Monitoring: Paired with the workstation series, the PUDU CC1 series can monitor its status in real time, including battery life, water levels, and operational conditions. This allows the staff to remotely monitor and manage the equipment through PC or mobile devices.

Data Analysis: The collected data can be used to analyze cleaning efficiency, equipment usage frequency, and maintenance needs. This information helps optimize cleaning schedules and resource allocation, enhancing operational management's effectiveness and scientific basis.



Benefits

Enhance User Experience

Simplified Operation: With just a few simple settings, the system can automatically manage the robot's charging and water tank maintenance, reducing tedious steps and enhancing user experience.

High Reliability: Automated workflows ensure stable equipment operation, minimizing the risk of sudden failures and increasing service reliability.



Enhance Safety

Charging Safety: The intelligent charging system provided by the charging and docking station ensures that batteries are protected from overcharging or damage, guaranteeing a safe charging process.

Water Management Safety: The automatic water refill and drainage system prevents potential leaks or contamination that could occur during manual handling, thereby enhancing operational safety.

Thank You

For more information
Visit

www.pringlerobotics.ai

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