Caiva

PRECISION. POWER. PERFECTION.

OUR SOLUTIONS. YOUR ADVANTAGE.

Cleaning Robots | Hospitality Robots
Material Handling Robots | Pool Robots | Solar Robots

Intelligent Solutions.
Built for a Better Tomorrow.

Robotic Solutions for Every Industry.

From autonomous cleaning and smart hospitality to advanced material handling and solar maintenance, our intelligent robots deliver precision, efficiency, and reliability where it matters most.





Trusted Quality | Advanced Technology | Reliable Support

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Prahlad Nagar, Ahmedabad, Gujarat 380015



INNOVATE. AUTOMATE. ELEVATE.

Caiva

ABOUT US

At Caiva, we build intelligent robotic and automation solutions that help businesses work smarter, operate efficiently, and deliver better experiences.

From cleaning and hospitality to material handling and autonomous delivery, our solutions are designed to automate operations, reduce costs, and drive tangible results across industries.

We don't just automate tasks.
We empower people and businesses to achieve more.

WHAT WE DO

Service Automation
Robotic solutions for cleaning, food delivery, hospitality, and customer service.

Material Handling
Autonomous solutions for transportation, loading, and internal logistics.

AI & Software Integration
Intelligent navigation, fleet management, and real-time analytics.

Custom Automation
Tailored solutions designed to fit your workflow and business needs.

WHY CHOOSE CAIVA

End-to-End Expertise
From consultation and solution design to deployment and support.

Industry-Focused Solutions
Solutions built to solve real challenges across diverse industries.

Reliable & Scalable
Robust, safe, and scalable systems that grow with your business.

Customer-Centric Approach
Dedicated support and continuous improvement you can count on.

OUR PROCESS

01 Discover
We understand your needs, challenges, and goals.

02 Assess
We analyze your operations and identify the right opportunities.

03 Design
We design a tailored solution that fits your workflow.

04 Deploy
We install, test, and integrate seamlessly into your environment.

05 Train
We train your team for smooth and confident operations.

06 Support
We provide ongoing support and optimize for lasting impact.

INDUSTRIES WE SERVE

- Hospitality
- Healthcare
- Retail
- Corporate Offices
- Manufacturing
- Warehousing & Logistics
- Education
- Public Sector

Our Mission: Deliver intelligent automation that creates value, improves productivity, and enhances lives.

Our Vision: A world where automation empowers every business to thrive.

Core Spare Parts Brands

Quality components from trusted global leaders.

AMETEK

DELIXI

SICK

MAIKAI

amer

HENGYE

LINATEX®

LINQI

Our Esteemed Clients

TAJ

VANTARA

adani

rexroth
A Bosch Company

ITC
Enduring Value

JAPL
JIGNESH AGENCY PVT LTD

colors
ગુજરાતી

zydus
Hospitals

brandworks

TIME SQUARE
RESORT & SPA

HMEL

DELIVERY & SERVICE

ROBOTS



AUTONOMOUS • INTELLIGENT • RELIABLE

CAIVA D1

SMART DELIVERY ROBOT

Intelligent delivery.
Seamless service.

Advanced autonomous delivery robot designed to elevate hospitality experiences with efficiency, safety, and seamless interaction.



Multi-Table Delivery
Serve multiple tables in one optimized run.

Autonomous Navigation
Smart route planning with LiDAR + vision fusion.

Interactive Experience
Engaging UI with voice, emojis & animations.

Safe & Reliable
360° obstacle avoidance with smart stop logic.

Fleet Management
Real-time monitoring and performance analytics.

30 kg Total Payload (10 kg per tray)

0.8 – 1.2 m/s Speed

12 – 24 hrs Battery Life

~3 hours Charging Time

TECHNICAL SPECIFICATIONS

CIRCULAR TRAY VARIANT	
Tray Configurations	Circular trays and rectangular trays
Number of Trays	3
Total Payload	30 kg (10 kg per tray)
Dimensions (L×W×H)	48 × 47 × 116 cm
Tray Size	41 cm diameter
Net Weight	48.5 kg
Minimum Passage Width	60 cm
RECTANGULAR TRAY VARIANT	
Dimensions (L×W×H)	51 × 50 × 116 cm
Tray Size	43 cm (approx.)
Net Weight	51.5 kg
Minimum Passage Width	65 cm

Speed	0.8 – 1.2 m/s
Charging Time	~3 hours
Battery Life	12 – 24 hours
Network	WiFi / 4G
Service Life	5 – 8 years
Motor	150W high-power hub motor
Noise	Low / quiet operation
Navigation System	Dual SLAM (Vision + Laser)
Sensors	LiDAR + upward camera + downward camera
Obstacle Detection	360° omnidirectional
Reaction Time	~0.5 seconds
Positioning Accuracy	Centimeter-level
Control System	Millisecond-response electric control
Frame	Vehicle-grade integrated frame
Chassis	Self-balancing platform
Tray Opening	300° access
Safety	Stop-on-obstacle + stepping protection

KEY FEATURES

DELIVERY & OPERATION
- Multi-Table Delivery
- Intelligent Route Planning
- Autonomous Cruise
- Remote Control
- Multi-Robot Collaboration
- Multi-Sensor Fusion

AI & NAVIGATION
- Smart Stop Logic
- Low Object Protection

CUSTOMER INTERACTION
- Voice Interaction
- Customer Greeting
- Emoji & Animation Display
- Interactive Presence

MARKETING & BRANDING
- Custom Branding
- Promotional Content
- Ambient Light Show
- Moving Advertisement

FOOD SERVICE
- Dual Tray Options (Circular + Rectangular)
- 360° Open Access
- Ambient Food Light
- Fall-Protection Buckle
- High Volume Carrying (Up to 102 dishes / 40 plates)
- Plate Collection Mode
- Recycle Box Support

PERFORMANCE & RELIABILITY
- Long Battery Life (Up to 24 hours)
- Fast Charging (~3 hours)
- Quiet Operation
- High Torque Motor
- Stable Movement (No shaking / spillage)

SYSTEM & SERVICE
- Cloud Monitoring
- Real-time Robot Tracking


Smart Interactive Screen


Intuitive Touch Interface


Optimized for Hospitality

AUTONOMOUS • INTELLIGENT • RELIABLE

CAIVA D2

SMART SHELF ROBOT

Smart shelving.
Seamless service.

Autonomous shelving robot designed to deliver items safely and efficiently in dynamic environments.



Smart Shelf System
Multi-tier shelving with LED illumination.

Gesture & Touch Control
Intuitive interaction for effortless operation.

Precision Delivery
Accurate navigation for timely item delivery.

Safe Navigation
Advanced sensors ensure safe movement around people and obstacles.

Long Battery Life
Built for extended shifts with fast recharging.

30 kg	Total Payload (~10 kg per tray)
0.6 – 1.2 m/s	Max Speed
10 – 12 hrs	Battery Life
~2.5 hrs	Charging Time

*Specifications may vary based on configuration.

TECHNICAL SPECIFICATIONS

Model Name	CAIVA D2
Tray Configuration	3 Detachable Layers
Tray Dimensions	320mm × 400mm per layer
Payload Capacity	10 kg per tray (~30 kg Total)
Dimensions (W×H)	500mm × 1300mm
Net Weight	48.5 kg
Minimum Passage Width	80 cm (Narrow Aisle Capability)
Maneuverability	Rotation Radius: 0 (In-place turning)
Climbing Ability	≤ 5° Slope
Battery Specification	24V / 20Ah
Operation Time	10 – 12 Hours
Charging Time	~4 Hours
Charging Method	Autonomous Return to Fixed Charging Pile
Network Connectivity	WiFi / 4G
Operating System	Android 5.1
Display Screen	7-inch Touch Screen (Resolution: 1024 × 600)
Navigation System	Laser SLAM + LiDAR + 3D Depth Camera
Sensor Fusion	Multi-sensor algorithm for real-time dynamic info
Detection Range	Up to 25 meters
Voice Prompt	Customizable voice broadcast
Light Interaction	Tray Light Prompt system
Swing Radius	254mm

KEY FEATURES

Autonomous Dispatching
Automatically plans optimal paths for multi-point distribution tasks.

Multi-Layer Trays
Detachable design allows more plates to be placed across 3 layers.

Independent Charging
Equipped with independent charging pile with fixed position for auto-return.

Laser SLAM + 3D Camera
Multi-sensor fusion algorithms for highly accurate navigation and positioning.

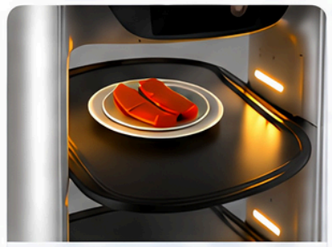
Intelligent Voice Broadcast
Automatic broadcast upon arrival at the delivery position to save time.

Light Status Indication
Intelligent light interaction clarifies status when delivering to many tables.

Humanized Design
Easy access for staff loading and customer unloading.

Real-Time Monitoring
Cloud platform allows remote monitoring of robot status and location.


Touch Control Interface


Illuminated Trays


Autonomous Navigation


Ideal for Hospitality

AUTONOMOUS • INTELLIGENT • RELIABLE

CAIVA D3

SMART DELIVERY ROBOT

Smart delivery.
Seamless service.

Advanced autonomous robot built for efficient and reliable multi-point delivery in dynamic environments.



Multi-Layer Delivery
3-layer design with large payload capacity.

Intelligent Navigation
SLAM + LiDAR + TOF for precise and safe navigation.

Smart Interaction
10.1-inch touchscreen with customizable voice.

Long Standby
Up to 18 hours of standby time for extended shifts.

Safe & Reliable
Multi-sensor protection ensures safe operation.

10 kg Load Capacity (per tray)
0 – 0.8 m/s Movement Speed
~10 hrs Operation Time
18 hrs Standby Time
~4 hrs Charging Time

TECHNICAL SPECIFICATIONS

Model Number	CAIVA D3
Tray Configuration	3 Layers (Pallets)
Pallet Dimensions	398mm × 493mm
Single Tray Load Capacity	10 kg
Overall Dimensions	505mm × 547mm × 1220mm
Net Weight	58 kg
Minimum Passage Width	> 800 mm
Rotation Radius	0 (Zero turn radius)
Climbing Ability	≤ 5° Slope
Surmountable Obstacle Height	< 10 mm
Surmountable Trench Width	< 40 mm
Battery Capacity	24V / 20Ah
Operation Time	~10 Hours
Standby Time	18 Hours
Charging Time	~4 Hours
Movement Speed	0 – 0.8 m/s (User-defined)
Noise Level	< 50 dB (Normal operation without broadcast)
Mapped Area Limit	< 10,000 m²
Network	4G / WiFi
Operating System	Android 7.1
CPU	RK3288
Memory (RAM/ROM)	2GB RAM / 8GB ROM
Display Screen	10.1-inch Touch Screen (Resolution: 1280×400)
Navigation Sensors	Single-line Laser + RGBD TOF Camera (Optional) + Ultrasonic + 6-axis Gyroscope
Positioning Accuracy	± 5 cm
Wheel Configuration	2 Differential Wheels + 4 Mecanum Wheels + Auxiliary Directional Wheel
Speaker Output	Dual Speakers

KEY FEATURES

Multiple Delivery Modes
Supports independent tasks, multi-tasking, and ready-to-schedule workflows.

Autonomous Recharge
Automatically returns to the charging station when power drops below a default level.

High Volume Carrying
Equipped with 3 large pallets capable of holding significant volume per run.

SLAM + LiDAR + TOF
Powerful AI-driven navigation for complex environments.

Customizable Voice
Supports customizable voice broadcasts for brand needs or announcements.

Quiet Operation
Operates at less than 50dB, ensuring a quiet environment for restaurants/hotels.

Long Standby
Up to 18 hours of standby time allows for extended shifts.

Safety Protection
Includes ultrasonic sensors and gyroscope for fall prevention and collision detection.

Easy Maintenance
Designed for routine cleaning and simple fault diagnosis via the system interface.


10.1-inch Touchscreen


3-Layer Pallet Design


Advanced Navigation System


Ideal for Restaurants

AUTONOMOUS • INTELLIGENT • RELIABLE

DINEBOT X1

SMART DELIVERY ROBOT

Smart delivery.
Seamless service.

Advanced autonomous robot built for efficient and reliable multi-point delivery in dynamic environments.

Multi-Robot Collaboration
D1 robots seamlessly communicate within the network for coordinated tasks.

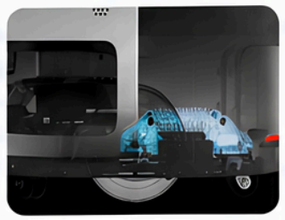
Intelligent Route Optimization
Real-time route calculation and optimization to maximize delivery capacity.

Dynamic Environment Adaptation
Operates safely in busy environments with moving people and obstacles.

High-Capacity Delivery
4 adjustable layers with up to 40 kg total payload capacity.

Reliable & Efficient
Long battery life, fast charging, and quiet operation for full-shift service.









40 kg
Total Payload
(Max 10 kg per layer)

0.5 – 1.2 m/s
Operating Speed

12 – 24 hrs
Battery Life

< 5 hrs
Charging Time

TECHNICAL SPECIFICATIONS

Model Name	Dinebot X1
Dimensions (L×W×H)	525mm × 529mm × 1277mm
Net Weight	55.5 kg
Tray Configuration	4 Layers (Adjustable Height)
Tray Mat Material	Food-grade Silica Gel
Total Payload Capacity	40 kg (Max 10 kg per layer)
Operating Speed	0.5 – 1.2 m/s
Minimum Passage Width	65 cm
Battery Life	12 – 24 Hours
Charging Time	< 5 Hours
Display Screen	10.1 inch LCD Touch Screen
Operating System	Linux-based OS
Navigation System	SLAM (Simultaneous Localization and Mapping)
Sensors	Multi-sensor Fusion (LiDAR + Depth Cameras + Ultrasonic)
Connectivity	Wi-Fi / 4G / 5G Ready
Software Updates	OTA (Over-The-Air) Automatic Update Supported
Frame Design	Ergonomic “C” shape chassis for stability
Application Area	Restaurants, Hotels, Hospitals, Offices

KEY FEATURES

Intelligent Multi-Robot Collaboration
D1 robots seamlessly communicate within the network, enabling swift calculation and decision-making for coordinated tasks.

Real-Time Route Optimization
Leverages multi-robot collaboration to dynamically calculate and optimize paths, significantly boosting delivery capacity.

Dynamic Environment Adaptation
Especially adept in dynamic settings like restaurants and hotels where humans and obstacles move unpredictably.

High-Capacity Delivery
Equipped with 4 adjustable layers capable of carrying up to 40kg total weight, maximizing efficiency per run.

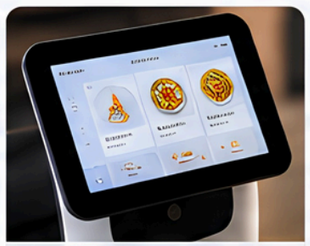
Autonomous Dispatching
Intelligent task allocation system that assigns deliveries to the most efficient robot automatically.

Advanced SLAM Technology
Uses powerful Simultaneous Localization and Mapping for precise navigation without external markers.

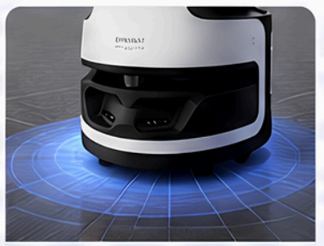
360° Obstacle Avoidance
Comprehensive sensor fusion (LiDAR + Cameras) detects static and dynamic obstacles from all angles.

Extended Battery Life
Up to 24 hours of operation supports full shift coverage without frequent recharging.


Smart Delivery Solutions


10.1-inch Touchscreen


Multi-Robot Collaboration


360° Obstacle Avoidance


Ideal for Hospitality

AUTONOMOUS • INTELLIGENT • RELIABLE

CAIVA X SERVE MINI

SMART DELIVERY ROBOT

Smart delivery.
Seamless service.

Advanced autonomous robot built for efficient and reliable multi-table delivery in dynamic environments.













Multi-Table Delivery
Delivers to multiple tables in a single run with optimal path planning.

High-Capacity Transport
3 trays / 4 loading places with up to 40 kg total payload capacity.

Autonomous Recharge
Automatically returns to charging station when battery is low.

Safe & Intelligent
360° multi-sensor fusion ensures safe navigation and obstacle avoidance.

Smart Interaction
AI expressions, voice interaction and HD display for engaging customer experience.

TECHNICAL SPECIFICATIONS

Model Name	Caiva X serve Mini
Overall Dimensions (L×W×H)	551mm × 484mm × 1265mm
Net Weight	55 kg
Gross Weight	85 kg
Body Material	ABS (Automotive-grade Q345 alloy steel chassis)
Color	Grey (Customizable skins available)
Tray Configuration	3 Trays / 4 Loading Places
Single Tray Area	38cm × 42cm
Load Capacity per Tray	10 kg
Total Load Capacity	40 kg
Passage Width	≥ 650 mm
Climbing Abillity	≤ 5° Slope
Obstacle-Surmounting Height	15 mm
Movement Speed	0.3 – 1.0 m/s (Adjustable)
Battery Capacity	20Ah LiFePO4 Battery
Working Endurance	~6 Hours (Continuous Operation)
Standby Time	~12 Hours
Charging Time	~4 Hours
Charging Method	Line Charging / Automatic Recharging (Requires Docking Station)
Network Support	4G (TDD-LTE, FDD-LTE), WiFi 2.4G/5G, LoRa
Operating System	Linux / Android
Touch Screen Size	10.1 inch (FHD 1200×1920)
Advertising Screen Size	21.5 inch (FHD 1920×1080, 16:9)
Navigation Sensors	Lidar (x1), RGBD Depth Cameras (x2), Top Camera (QR code), Front Camera (Face Rec), Ultrasonic (x2)
Mic Array	6 Matrix Microphones
Positioning Accuracy	Centimeter-level

KEY FEATURES

U-SLAM Fusion Positioning
Uses Laser SLAM with QR code scanning for high-accuracy and stable positioning.

360° Multi-Sensor Fusion
Combines LiDAR, radar, RGBD cameras and ultrasonic sensors for blind-spot-free detection.

Intelligent Tray Sensors
Built-in infrared sensors detect pick-up status and tray lights indicate operation.

270° Open Tray Design
User-friendly open tray structure for easy placement and quick retrieval of items.

AI Expressions & Voice Interaction
Lifelike animated expressions with 6-mic array for natural voice communication.

21.5" HD Advertising Display
Ultra-HD screen for dynamic marketing, menus, or brand videos.

Long Battery Life
Up to 12 hours standby and 6+ hours of continuous working endurance.

Cloud Platform (CRMS)
Centralized scheduling, monitoring, and fleet management for multi-robot collaboration.

40 kg
Total Payload
(Max 10 kg per tray)

0.3 – 1.0 m/s
Movement Speed

~6 Hours
Working Endurance

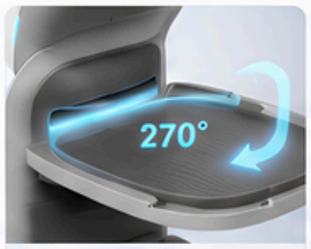
~4 Hours
Charging Time



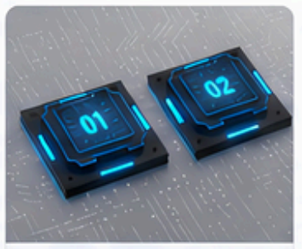
Multi-Table Delivery



AI Expressions & Voice Interaction



270° Open Tray Design



Dual-Chip Intelligence



Autonomous Recharge

AUTONOMOUS • INTELLIGENT • RELIABLE

DINEBOT X2

SMART DELIVERY ROBOT

Smart delivery.
Seamless service.

Advanced autonomous robot built for efficient and reliable multi-point delivery in dynamic environments.









Multi-Layer Delivery
4 adjustable layers for versatile delivery of food, drinks, and other items.

Multi-Robot Collaboration
Supports up to 20 robots working together to expand capacity and coverage.

Advanced Navigation
Robust SLAM, LiDAR, and stereo vision for safe and precise movement.

Smart Interaction
Touchscreen, voice prompts, and expressive animations for a better user experience.

Reliable & Efficient
Long battery life, fast charging, and stable performance for all-day operations.

40 kg Total Load Capacity (Max 10 kg per layer)

0.1 – 0.8 m/s Movement Speed

13 – 18 hrs Battery Life

~4 hrs Charging Time (15% to 100%)

Up to 20 Points Multi-Point Delivery in a Single Run

TECHNICAL SPECIFICATIONS

Model Name	Dinebot X2
Dimensions (W×D×H)	500mm × 527mm × 1266mm
Net Weight	63 kg (Charging pile not included)
Box Dimensions (W×D×H)	550mm × 610mm × 1305mm
Tray Configuration	4 Layers (Adjustable / Dismountable)
Layer Size (Standard)	490mm × 404mm
Adjustable Layer Heights	Config A: 195mm (Top), 169mm (Lower 3) Config B: 253mm (Top), 228mm (Lower 2)
Total Load Capacity	40 kg (Max 10 kg per layer)
Tray Access	Open access from Front and Rear
Minimum Passage Width	70 cm
Maximum Coverage Area	200m × 200m per device
Movement Speed	0.1 – 0.8 m/s (Adjustable)
Braking Distance	80 cm (at Max speed & full load on dry road)
Slope Climbing Ability	≤ 5°
Battery Type / Capacity	Ternary Lithium Battery / DC 48V, 12Ah
Battery Life	13 – 18 Hours
Service Life Cycle	20,000 Hours
Charging Time	~4 Hours (from 15% to 100%, robot powered on)
Charging Mode	Automatic (Charging Pile) or Manual (Recharger)
Charging Input	100–240V~, 50/60Hz
Operating System	Linux (Control) + Android (Interaction)
Touch Screen	11.6 inch HD (1080p) with High Refresh Rate
Positioning Method	Laser Positioning / Label Positioning (if no pile)
Positioning Accuracy	Centimeter Level
Navigation Sensors	LiDAR, Stereo Vision Sensor, Image Module, Collision Sensor, IMU
LIDAR Range	216° coverage, ≤ 20m detection distance
Stereo Vision Range	140° coverage, 0.1m – 1.5m detection distance
Image Module	120° FOV (Ceiling height required: 2–8m)
Network Connectivity	Wi-Fi (2412-2472MHz), 2.4G/5G
Multi-Robot Support	Up to 20 Robots collaborating
Multi-Point Delivery	Up to 20 Points in a single run

KEY FEATURES

Exceptional Load Capacity
Equipped with 4 adjustable layers capable of carrying up to 40kg (10kg/layer), suitable for diverse food types.

Flexible Tray Design
Trays are dismountable and heights are adjustable (19.5cm/16.9cm/25.3cm/22.8cm) to fit tall bottles or stacked plates.

Multi-Point Delivery
Capable of delivering to up to 20 different points in a single run efficiently.

Precise SLAM Technology
Uses independently developed SLAM technology for accurate positioning and movement without external markers.

Smart Obstacle Crossing
Capable of surmounting obstacles up to 15mm height and climbing slopes up to 5°.

User-Friendly Interface
11.6-inch HD touchscreen with intuitive UI for effortless user interaction.

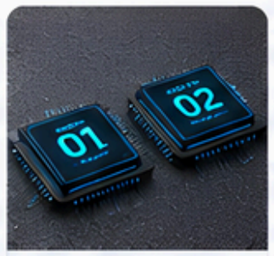
Long Battery Life
Up to 18 hours of operation on a single charge for all-day service.

Auto Charging
Automatically returns to the charging station when battery is low and supports both auto charging pile and manual charging.


Multi-Layer Delivery


11.6-inch Touchscreen


Advanced Navigation



Dual-Chip Intelligence


Auto Charging

AUTONOMOUS • INTELLIGENT • RELIABLE

CAIVA

X-SERVE DELIVERY ROBOT

Smarter routes.
Seamless service.
Elevated hospitality.

Next-generation delivery robot built for high-efficiency service in restaurants, hotels, and dynamic environments.



Effortless Food Delivery
Multi-tray system for smooth and efficient service.

Smart & Safe Navigation
Advanced sensors ensure precise and secure movement.

Long-Lasting Performance
Extended battery life for all-day operations.

See It. Share It. Promote It.
Built-in display for ads, promotions, and engagement.

10–15 kg	≤ 5°	10 – 14 hrs	< 4 hrs
Payload per Tray	Climbing Ability	Battery Life	Charging Time

TECHNICAL HIGHLIGHTS

Adaptive Movement	Adjusts speed and path in real-time for smooth and safe delivery.
360° Awareness	Up & Down RGBD cameras with LiDAR for complete obstacle detection.
Stable & Steady	Car-grade suspension for vibration absorption on any surface.
Narrow Aisle Expert	Slim design and tight turning radius for crowded spaces.
Smart Operations	Auto elevator integration, return-to-charge, and task scheduling.
Built for Business	Durable, reliable, and easy to maintain for daily commercial use.

KEY BENEFITS

Boost Efficiency
Handles more deliveries with less effort.

Enhance Guest Experience
Faster service with a modern touch.

Reduce Labor Costs
Automate repetitive tasks and optimize staffing.

Increase Sales Potential
Built-in display drives promotions and revenue.

Safe & Contactless
Minimize contact and ensure hygiene.

Reliable 24/7
Consistent performance day and night.



Friendly LED Interface
Engaging expressions for better guest interaction.



Vibrant HD Display
Showcase promotions and menu items in full color.



Smooth All the Way
Advanced suspension for a steady and quiet ride.

AUTONOMOUS • INTELLIGENT • RELIABLE

DINEBOT X3

SMART FOOD DELIVERY ROBOT

Smart delivery.
Seamless service.

Advanced autonomous robot built for efficient and reliable multi-point food delivery in dynamic environments.



Enclosed Hygienic Cabin
180L enclosed space keeps food safe, clean, and at the perfect temperature.

Step-Activated Doors
Automatic doors open when guests step close, ensuring touch-free pickup.

360° Obstacle Avoidance
LiDAR + RGBD + ultrasonic sensors provide ultra-far range protection up to 25m+.

Safe & Stable
Independent suspension and shock-absorbing chassis for smooth movement on any floor.

Smart Fleet Management
Cloud platform for monitoring, scheduling, and real-time analytics.







40 kg
Total Payload
(Max ~13.3 kg per layer)

0.1 – 1.0 m/s
Speed
(Adjustable)

10 – 14 hrs
Battery Life
(Continuous Operation)

~4 hrs
Charging Time
(Fast Charging)

Up to 20 Points
Multi-Point Delivery in a Single Run

TECHNICAL SPECIFICATIONS

Model Name	Dinebot X3
Overall Dimensions (W×D×H)	496mm × 623mm × 1351mm
Net Weight	71 kg
Cabin Volume	180 Liters (Spacious enclosed space)
Tray Configuration	3 Layers (Adjustable Height)
Adjustable Layer Heights	Config A: 23cm, 38cm, 69cm (Standard) Config B: Customizable spacing based on tray
Total Payload Capacity	40 kg (Max ~13.3 kg per layer distributed)
Layer Dimensions	422mm × 575mm per layer
Minimum Passage Width	75 cm
Movement Speed	0.1 – 1.0 m/s (Adjustable)
Slope Climbing Ability	≤ 5°
Battery Life	Up to 12 Hours (Continuous Operation)
Charging Time	~4 Hours (From low battery to full)
Charging Method	Autonomous Docking (Contact Charging Pile)
Operating System	Linux (Control) + Android (Interaction)
Touch Screen	15.6 inch Large HD Touch Screen
Navigation Sensors	LiDAR + Stereo Vision Sensors + Depth Cameras + IMU
Sensor Coverage	360° Obstacle Detection (Front/Rear/Side)
Positioning Accuracy	Centimeter-level (SLAM Technology)
Network Connectivity	Wi-Fi (2.4GHz / 5GHz) / 4G (Optional)
Door Mechanism	Automatic Step-Activated Doors (Hygienic)
Security Feature	Password-Protected Access (Optional/Configurable)
Body Material	ABS Plastic & Aluminum Alloy Composite
Application Area	Restaurants, Hotels, Hospitals, Malls, Offices
Service Life Cycle	Designed for >20,000 hours of operation

KEY FEATURES

5 Distinct Delivery Modes
Single-drop, Multi-drop, Patrol, Cruise, and Custom scenarios to suit any venue.

Remote Rapid Mapping
One-of-a-kind tech for effortless remote deployment and map construction without on-site manual mapping.

High-Capacity Transport
With 40kg total capacity and 180L volume, handles large orders and bulky items securely.

Autonomous Charging
24/7 readiness with automatic return to charging station when battery is low.

Synergizing 3D Perception
LiDAR + Stereo Vision for instant environmental perception and swift obstacle avoidance.

Large Touch Interface
High-definition 15.6" touchscreen for clear instructions and interactive entertainment.

Advanced Voice AI
Natural voice interaction for smooth queuing management and guest engagement.

Cloud Fleet Management
Monitor robot status, assign tasks, and analyze delivery data in real time.



Multi-Robot Collaboration



Smart Interaction



Enclosed Hygienic Cabin



Autonomous Charging

AUTONOMOUS • INTELLIGENT • RELIABLE

DINEBOT X4

AUTONOMOUS ELEVATOR RIDING DELIVERY ROBOT

Smart delivery.
Elevated service.

DineBot X4 is an intelligent delivery robot that autonomously rides elevators, navigates multiple floors, and delivers items securely across multi-floor buildings. Built for hotels, restaurants, offices and hospitals.



Elevator Riding
Autonomously call elevators, select floors and deliver.

4 Independent Compartments
Secure & private delivery to multiple floors or recipients.

Hygienic & Private
Fully enclosed cabin with auto doors and ventilation for safe delivery.

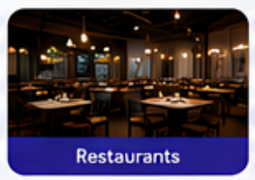
Advanced Navigation
LiDAR + SLAM for precise mapping and dynamic obstacle avoidance.

Reliable Performance
Long battery life, stable chassis and quiet operation.

Smart Interaction
Touchscreen interface, voice prompts and status indicators.

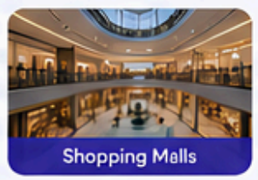
20 kg Total Payload Capacity	**0.8 m/s** Max Moving Speed	**Up to 12 hrs** Battery Life (~3 deliveries/hour)	**~6.5 hrs** Charging Time (15% to 100%)	**360°** Obstacle Detection	**>20,000 hrs** Service Life Cycle


Hotels


Restaurants


Offices


Hospitals


Shopping Malls

TECHNICAL SPECIFICATIONS

Model Name	DineBot X4
Dimensions (L×W×H)	459mm × 549mm × 1081mm
Net Weight	48 kg
Cabin Configuration	4 Independent Compartments (Adjustable)
Total Payload Capacity	20 kg
Minimum Passage Width	70 cm
Maximum Moving Speed	0.8 m/s
Slope Climbing Ability	≤ 7°
Battery Life	Up to 12 Hours (Based on ~3 deliveries/hour)
Charging Time	~6.5 Hours (From 15% to 100%)
Charging Method	Autonomous Docking (Contact Charging Pile)
Operating System	Linux (Control) + Android (Interaction)
Navigation System	SLAM (Simultaneous Localization and Mapping)
Sensors	LiDAR + Stereo Vision Sensors + Depth Cameras + IMU
Display Screen	15.6-inch Large HD Touch Screen
Connectivity	Wi-Fi (2.4GHz / 5GHz) / 4G (Optional)
Software Updates	OTA (Over-The-Air) Automatic Update Supported
Frame Design	Ergonomic "C" shape chassis for stability
Application Area	Restaurants, Hotels, Hospitals, Offices

KEY FEATURES

IoT Elevator Riding
Equipped with an IoT module that allows the robot to autonomously call elevators, enter, select floors, and exit, enabling multi-floor delivery without human assistance.

4 Independent Compartments
Features 4 separate storage spaces that can be adjusted and locked; allows one dispatch to serve up to 4 different locations simultaneously.

Secure & Private Delivery
Each compartment can be locked with a unique password, ensuring that only the intended recipient can access their specific items.

Hygienic Enclosed Design
Fully enclosed cabin with automatic doors and built-in ventillation prevents food spills, contains odors, and ensures contactless, sanitary service.

Precise SLAM Navigation
Uses independently developed SLAM technology to create precise positioning maps with seamless spatial data collection for reliable navigation.

Dynamic Obstacle Avoidance
Real-time detection of moving pedestrians and objects ensures safe navigation even in busy hallways and lobbies.

Smart Touchscreen Interaction
Large HD Touchscreen provides clear instructions, order details, and interactive prompts for guests to retrieve items easily.

Long Battery Life
Up to 12 hours of operation supports multi-shift coverage without frequent recharging.

Cloud Fleet Management
Centralized cloud platform for monitoring, task assignment, data analysis, and remote updates.

Safety First
Equipped with emergency stop buttons, anti-pinch door mechanisms, collision sensors, and multi-layer safety protections.

AUTONOMOUS • INTELLIGENT • RELIABLE

CAIVA R1D1

SMART DELIVERY ROBOT

Smart delivery.
Seamless service.

Advanced autonomous robot built for efficient and reliable multi-point delivery in dynamic environments.

Multi-Layer Delivery
3-layer design with large payload capacity.

Intelligent Navigation
SLAM + LiDAR + TOF for precise and safe navigation.

Smart Interaction
10.1-inch touchscreen with customizable voice.

Long Standby
Up to 18 hours of standby time for extended shifts.

Safe & Reliable
Multi-sensor protection ensures safe operation.

Easy Maintenance
Routine cleaning and simple fault diagnosis.



Multiple Delivery Modes
Independent tasks, multi-tasking, and ready-to-schedule workflows.

Autonomous Recharge
Returns to the charging station when power is low.

High Volume Carrying
3 large pallets capable of holding significant volume per run.

SLAM + LiDAR + TOF
Powerful AI-driven navigation for complex environments.

Customizable Voice
Supports voice broadcasts for brand needs or announcements.

Quiet Operation
Operates at less than 50dB for quiet environments.

Long Standby
Up to 18 hours of standby time allows for extended shifts.

Safety Protection
Includes ultrasonic sensors and gyroscope for full protection.

10 kg	0 – 0.8 m/s	~10 hrs	Up to 18 hrs	~4 hrs
Load Capacity (per tray)	Movement Speed	Operation Time	Standby Time	Charging Time



AUTONOMOUS • INTELLIGENT • RELIABLE

CAIVA R1D2

SMART DELIVERY ROBOT

Smart delivery.
Seamless service.

Intelligent delivery robot designed for safe and efficient distribution in hospitals, hotels, restaurants and more.

Smart Navigation
Real-time mapping and precise positioning for smooth travel.

QR Code Verification
Secure cabinet access with automatic identity check.

Auto Call & Door Control
Calls elevator and opens doors autonomously across floors.

Autonomous Path Planning
Optimized routes for faster and more efficient delivery.

Auto Recharge
Returns to dock and recharges automatically when needed.

Safe & Reliable
Multi-layer safety protection ensures secure operations.



Three-Layer Cabinet
Large capacity storage with independent electric hatches.

Smart Lighting
Built-in lighting for better visibility of delivered items.

3D Vision Perception
3D camera + LiDAR for accurate sensing and obstacle avoidance.

Voice Interaction
Customizable voice prompts for easy communication.

Long Battery Life
Up to 20 hours of operation on a single charge.

Fast Recharge
3–4 hours to fully recharge automatically.

High Load Capacity
Each layer supports up to 10KG for heavy payloads.

Task Customization
Flexible task settings for different delivery scenarios.

10 kg	3 Layers	3–4 hrs	15–20 hrs	Auto	4G / WiFi
Load Capacity (per layer)	Storage Cabinet	Charging Time	Battery Life	Path Planning	Network

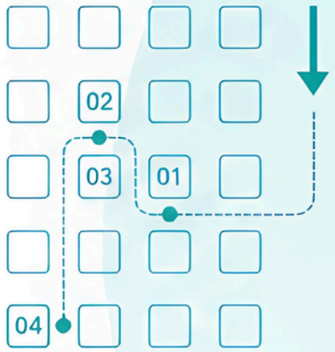


INTELLIGENT • RELIABLE • EFFICIENT

CBOT16N

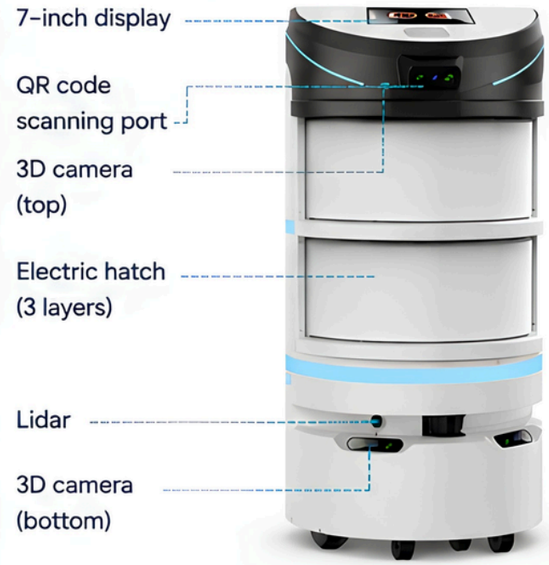
NURSE HOSPITAL DELIVERY ROBOT

Nurse delivery robot is an intelligent terminal device for the overall solution of intelligent distribution of hospital robots. It has high-precision navigation and positioning and autonomous obstacle avoidance functions, enabling them to safely and efficiently perform material distribution in the hospital.



FBOT16N







Indoor autonomous navigation

No coding required, autonomous path planning, real-time high-precision navigation and positioning

QR code verification

Three-layer independent electric hatch, identity verification and retrieval, more secure

Autonomous call/door control

Take the elevator autonomously, automatically open/close doors, and deliver items across floors

Autonomous path planning

Automatically plan the optimal driving route for efficient delivery

Product Size	500mm(L) x 500mm(W) x 1170mm(H)
Net Weight	60KG
Display	7 inches (resolution 1024 × 600)
Storage Bin Height	Single layer height 150mm (3 layers in total)
Charging Time	3–4 hours (automatically rechargeable)
Battery Life	15–20 hours
Battery	25Ah / 25.6V Lithium Iron Phosphate
Open Cabinet	QR code verification
Load Bearing	10kg / layer
Task Settings	Custom task settings

10 kg Load Capacity (per layer)

3 Layers Storage Cabinet

3–4 hrs Charging Time

15–20 hrs Battery Life

Auto Path Planning

4G / WiFi Network











APPLICABLE SCENE

Widely used in hospitals, nursing homes, office buildings, government agencies and other places.

Hospitals

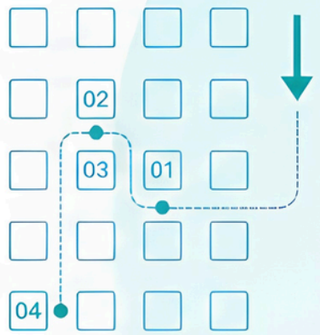


INTELLIGENT • RELIABLE • EFFICIENT

CBOT18S

FLASH FOOD DELIVERY ROBOT

The Flash food delivery robot is equipped with autonomous scheduling system, multi-machine collaboration, high-precision navigation and positioning, free passage in narrow lanes, autonomous obstacle avoidance, and automatic recharging. It is widely used in restaurants, hotels, hospitals and other scenarios.



FBOT18S





No coding required
Navigation deployment, no need to paste code,Real-time high-precision navigation and positioning

3D obstacle avoidance
3D camera automatically recognizes obstacles and automatically detours

Autonomous scheduling system
Multi-machine collaboration, orderly operation, avoid blocking "machines", and improve the efficiency of food delivery

Automatic recharge
Low battery automatically returns to charging, no manual operation required

Product Size	540mm(L) x 360mm(W) x 1216mm(H)
Net weight	About 40KG
Display	7 inches (resolution 1024 × 600)
Tray size	335mm x 465mm (4th floor)
Charging time	3-4 hours (rechargeable automatically)
Battery life	15 hours
Battery parameters	LiFePO4 25AH-8S1P 640WH 25.6V
Light interaction	Quick release plate design
Pallet weight limit	20kg/layer
Task Configuration	Customize Task Settings

20 kg Load Capacity (per layer)

4 Layers Storage Tray

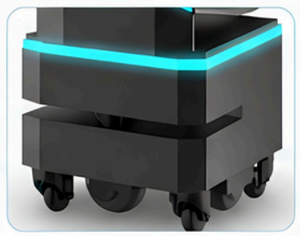
3-4 hrs Charging Time

15 hrs Battery Life

Autonomous Scheduling

4G / WIFI Network




APPLICABLE SCENE

Widely used in hospitals and other medical environments as well as restaurants, hotels and more.


Hospitals


Restaurants


Hotels


Other Places

INTELLIGENT • RELIABLE • EFFICIENT

SPRAY
DISINFECTION ROBOT

Using the robot as the carrier, the diluted disinfectant is diffused and disinfected in the form of atomization, the disinfection path is independently planned, and regular and fixed-point disinfection is supported.

AUTOMATIC OBSTACLE AVOIDANCE
Automatically avoid obstacles, automatically detour

AUTOMATIC RECHARGE
When the power is lower than the preset value, it will automatically return to charging

3000mL/h SPRAY VOLUME
13L large water tank, three-speed fog volume adjustment

REMOTE NAVIGATION DEPLOYMENT
Cloud platform intelligent control, remote construction of maps



KEY COMPONENTS



SPECIFICATIONS

Mobile way	Autonomous path planning
Moving speed	0.1 ~ 1.0 m/s
Disinfection efficiency	The fastest 15 minutes to complete 1000m³ disinfection
Battery life	5 ~ 6 hours when fully charged
Spray particle size	2 ~ 5μm
Spray rate	1200mL/h, 2000mL/h, 3000mL/h
Applicable media	Hypochlorous acid, sodium hypochlorite, hydrogen peroxide, peracetic acid
Disinfection level	Efficient disinfection, up to 6-log level
Tank volume	13L
Weight	42KG
Overall size	450mm(L) x 450mm(W) x 1360mm(H)

13L Tank Volume

3000mL/h Max Spray Volume

5~6 hrs Battery Life

15 min/ 1000m³ Disinfection

Auto Recharge

Autonomous Navigation

DETAILED DESIGN


Atomizing Nozzle


7-inch Display


Lidar & 3D Camera


Fog Control Panel


Automatic Charging Contact

APPLICABLE SCENE

Suitable for hospitals, office buildings, nursing homes, banks, tax halls, hotels, schools, airports, customs ports, railway stations, factories and more.

Hospitals · Office Buildings · Nursing Homes · Airports · Schools · Factories · More

INTELLIGENT • RELIABLE • EFFICIENT

UVC
STERILIZING ROBOT

The ultraviolet disinfection robot uses PHILIPS UV-C ultraviolet light source, and the inactivation rate of COVID-2019 is as high as 99.9999%. It has high efficiency, broad spectrum, thoroughness, no drug resistance and no secondary pollution. And other significant advantages,It is an efficient and environmentally friendly disinfection product.



WBOT11U

UVC STERILIZATION TECHNOLOGY
254nm wavelength ultraviolet light technology, the sterilization rate is as high as 99.9999%

HUMANIZED OPERATION INTERFACE
7-inch high-definition large screen, the interface is more intuitive and easy to operate

AUTOMATICALLY SET WORKING HOURS
Autonomous mobile operation, automatically start the disinfection task within the specified time

CUSTOMIZABLE WORKING HOURS
Product design can be customized according to actual needs

254nm Wavelength

99.9999% Sterilization Rate

Auto Working Schedule

2.5~3 Hrs Battery Life

Environmentally Friendly

No Secondary Pollution

KEY COMPONENTS



PRODUCT PARAMETERS

Mobile mode	Autonomous mobile indoor navigation
Moving speed	0.1 ~ 1.0 m/s
Weight	46KG
Disinfection efficiency	Above 99.9999%
Battery life	2.5 ~ 3 hours
UV output	67.2W UVC
Lamp power	180W (30W/piece, 6 pieces in total)
Tube length	90cm
Battery capacity	37V / 20Ah
Overall size	450mm(L) x 450mm(W) x 1536mm(H)

DETAILED DESIGN



Atomizing Nozzle | 7-inch IPS Screen | PHILIPS UV Light Source | Lidar Obstacle Avoidance | Universal Wheel | Charging Contact

APPLICABLE SCENE

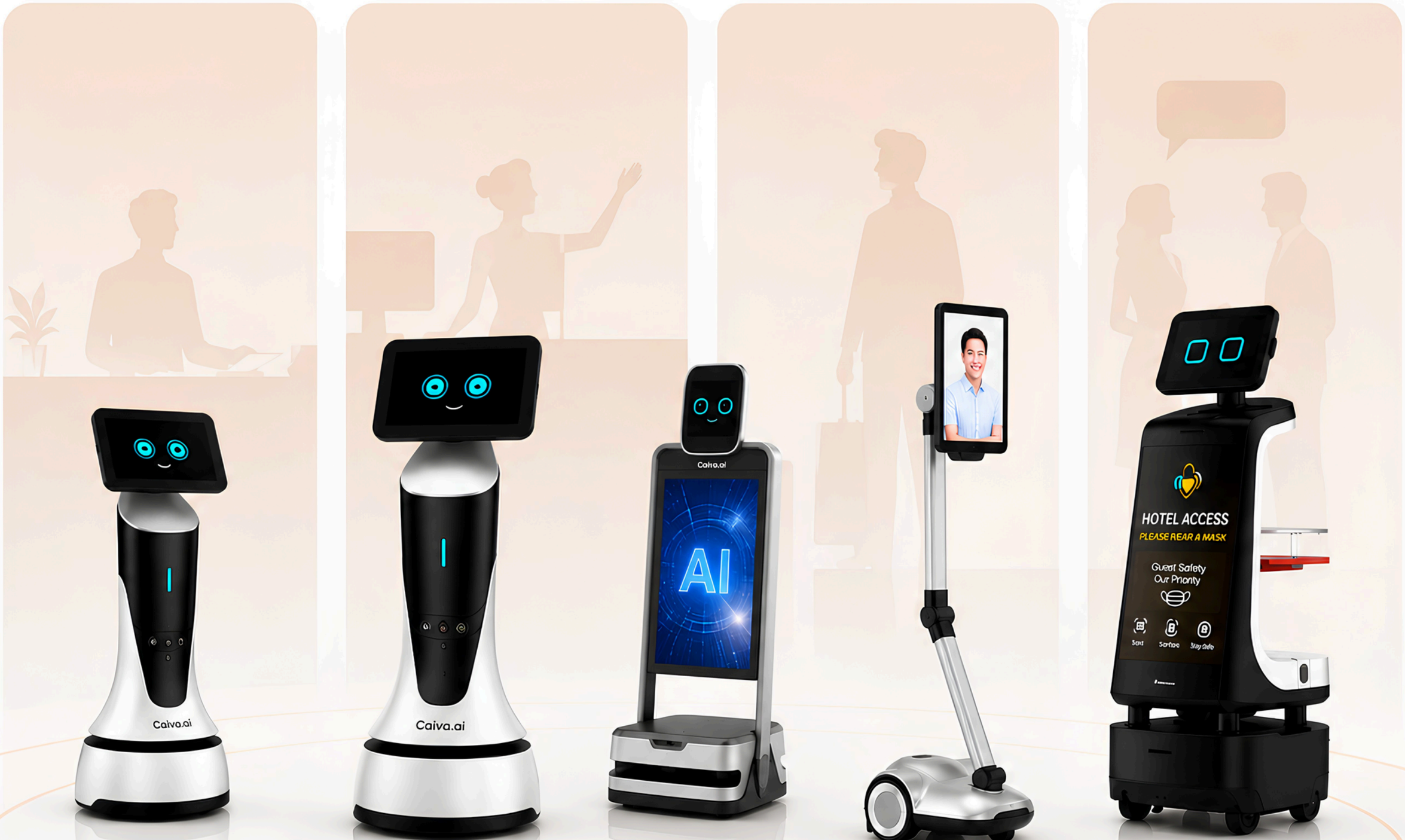
Suitable for hospitals, post offices, tax halls, company halls, subway cars, schools, hotels and other fields.



Hospitals | Schools | Hotels | Office Buildings | Other Places

GREET & MEET

ROBOTS



Caiva.ai

SMART • CONNECTED • ANYWHERE

CAIPAD BOT

TELEPRESENCE & REMOTE COMMUNICATION ROBOT

CaiPad Bot is an advanced telepresence and remote communication robot designed for business, education, and healthcare scenarios.

It enables real-time two-way video calls, remote navigation, and face-to-face interaction from anywhere.

Equipped with auto-charging, obstacle avoidance, and smooth motion control, it helps users attend meetings, monitor offices, or visit classrooms virtually, creating a seamless communication experience across distances.



REMOTE CONTROL

Go anywhere, be everywhere.

VIDEO CHAT

Real-time face-to-face communication.

OBSTACLE AVOIDANCE

Detects and avoids obstacles automatically.

4G ENABLED

Stay connected anytime, anywhere.

AUTO CHARGING

Automatically returns to dock for charging.

SCREEN INTEGRATED WITH THE HEAD

All-in-one display for smart interaction.

KEY FUNCTIONS

Way Leading
Guide visitors to destinations accurately and efficiently.

Communication & Inquiry
Human-like interaction for engaging communication and quick support.

Promotion & Display
18.5-inch large screen for dynamic promotion and display.

Cruising for Service Introduction
Customizable cruising with service introductions and immersive experience.

Self-Assisted Elevator Taking
Intelligent elevator integration for smooth vertical movement.

Automatic Recharging
Returns to dock automatically when battery is low.

PARAMETERS

Product Size	390 × 380 × 1030 mm
Product Weight	32 Kg
Obstacle Height	< 15 mm
Ramp Angle	< 5°
HD Camera	800W HD Camera
Interaction Mode	Voice, screen or sensor control
Operation Screen	13.3-inch touch LCD screen
Display Screen	18.5-inch high-definition screen
Battery Specifications	24V 18Ah
Charging Time	3 ~ 4 hours
Speed	Autonomous speed change within the range of 0 ~ 1.2 m/s
Battery Life	6 ~ 8 hours

BUSINESS MEETINGS
Attend meetings remotely with ease.

OFFICE MONITORING
Monitor your workplace from anywhere.

EDUCATION
Join classrooms and interactive learning.

HEALTHCARE
Connect with patients and staff remotely.

HOME CONNECTION
Stay connected with loved ones anytime.

MULTI-SCENARIO USE
Perfect for multiple industries and environments.

Caiva.ai

COMMERCIAL • INTELLIGENT • RELIABLE

INTELLIGENT RECEPTION ROBOT

A smart assistant for modern spaces, delivering exceptional interaction, information, and security with intelligence and style.



GREETINGS

Welcomes visitors with intelligent services and creates a positive first impression.

INFORMATION INQUIRY

Natural language system with 10M+ Q&A knowledge, including ticket and policy inquiries.

SECURITY PATROL

HD camera for real-time monitoring, face recognition, and instant alerts for suspicious activities.

CRUISING & GUIDANCE

Customizable routes with multilingual introductions and accurate way leading for a seamless experience.

KEY FUNCTIONS

Way Leading

Guide visitors to destinations accurately and efficiently.

Communication & Inquiry

Human-like interaction for engaging communication and quick support.

Promotion & Display

18.5-inch large screen for dynamic promotion and display.

Cruising for Service Introduction

Customizable cruising with service introductions and immersive experience.

Self-Assisted Elevator Taking

Intelligent elevator integration for smooth vertical movement.

Automatic Recharging

Returns to dock automatically when battery is low.

PARAMETERS

Product Size 390 × 380 × 1030 mm	**Operation Screen** 13.3-inch touch LCD screen
Product Weight 32 Kg	**Display Screen** 18.5-inch high-definition screen
Obstacle Height < 15 mm	**Battery Specifications** 24V 18Ah
Ramp Angle < 5°	**Charging Time** 3 ~ 4 hours
HD Camera 800W HD Camera	**Speed** Autonomous speed change within the range of 0 ~ 1.2 m/s
Interaction Mode Voice, screen or sensor control	**Battery Life** 6 ~ 8 hours

Smart Interaction
Engage naturally with visitors

Accurate Navigation
Move smoothly and avoid obstacles

Multilingual Support
Communicate in multiple languages

Customizable Content
Tailor information and services to your needs

High Reliability
Stable performance all day long

Elegant Design
Modern, sleek and space-friendly

Caiva.ai

AUTONOMOUS • INTELLIGENT • RELIABLE

TINYBOT X1

SMART INTERACTION ROBOT

Small in size.
Big on impact.

A compact AI-powered robot designed to enhance human interaction with intelligent communication, guidance, and assistance across diverse environments.



LIGHTWEIGHT	OPERATING TIME	BATTERY CAPACITY	MAX SPEED
2.8 kg	8 – 10 hrs	10,000 mAh	0.8 m/s

SPECIFICATIONS

Compact & Lightweight
Easy to deploy and move

AI-Powered Communication
Natural conversations with voice recognition

HD Display
Crisp visual responses

Battery Life
Long-lasting performance for all-day operation

Autonomous Navigation
Smart movement with obstacle avoidance

Multi-Language Support
Communicate across multiple languages

Wi-Fi & Connectivity
Seamless integration with smart systems

Safe & Reliable
Built-in safety sensors for secure interaction

KEY FEATURES

Voice Interaction
Understands and responds intelligently.

Touch Display
Interactive screen for easy control and customization.

Real-Time Engagement
Adapts to user behavior for better experiences.

Versatile Applications
Ideal for businesses, retail, hospitals, education & more.

IDEAL FOR

Corporate Offices | Retail Stores | Hospitals & Healthcare | Educational Institutions | Hotels & Hospitality

Caiva.ai

AUTONOMOUS • INTELLIGENT • RELIABLE

BUZZ BOT

SMART SERVICE ROBOT

Smarter service.
Stronger connections.

Buzz Bot is designed to deliver information, engage customers, and elevate service experiences with intelligent interaction and sleek performance.



SPECIFICATIONS

Overall Size
20.87 in x 19.69 in x 51.97 in

Net Weight
94.8 lbs

Head Screen Size
10.1-inch touchscreen,
1200 × 1920 pixel

Ad Screen Size
27-inch display,
1080 × 1920 pixel

Hardware Interface
Standard 5V/2A USB-A data communication port ×1, standard DC12V/3A power supply port ×1, Ethernet port ×1

Charging Method
Supports automatic recharging

Cruising Time
9 H
(typical cruising scene)

Charging Time
4.5 H
(charge when turned off)

KEY FEATURES

Intelligent Interaction
Engage customers with a smart and friendly interface.

Vibrant Display
High-resolution dual screens for clear communication.

Autonomous Navigation
Move smoothly and safely in dynamic environments.

Reliable Performance
Built for long hours of operation with stable performance.

Auto Recharging
Returns to dock automatically when battery is low.

ENGAGE
Interact naturally with customers

INFORM
Dynamic display for promotions & announcements

GUIDE
Navigate and assist with precision

AUTONOMOUS
Auto recharging for continuous operation

CUSTOMER ENGAGEMENT
Boost interaction and satisfaction

PROMOTION DELIVERY
Display ads and announcements

INFORMATION ASSISTANCE
Provide guidance and support

EFFICIENCY IMPROVEMENT
Streamline service operations

POOL

ROBOTS.



PS100

Solar Surface Skimmer



Solar Powered · Ultrasonic Navigation · Auto Recharge · Obstacle Avoidance · Water Surface Cleaning · Temp Monitor

SPECIFICATIONS	
Connection / Control	Wi-Fi / BLE + App & Remote
Motor Power	Solar-Powered
Motor Configuration	N/A
Battery Capacity	Up to 20 Hours
Runtime / Working Time	Up to 20 Hours
Charging Time	Solar + External Power
Cleaning Area / Coverage	Water Surface Only
Cleaning Depth	Surface Only
Cleaning Zones	Water Surface Only
Compatible Surfaces	All Surface Types
IP Rating	IP68
Traction System	Ultrasonic Navigation
Filter Capacity / Type	180-Micron Fine Basket
Cleaning Modes	Path Planning + Auto-Recharge
Key Smart Features	Solar Tracking, Ultrasonic Obstacle Avoidance, Auto Recharge, Temp Monitor
Adapter Input	Solar + External Power
Adapter Output	–
Dimensions (Unit)	460 × 390 × 165 mm
Weight (Unit)	3.8 kg

Designed for effortless surface cleaning, PS100 uses solar power and intelligent navigation to keep your pool surface debris-free all day, every day.

PC10

Cordless Robotic Pool Cleaner



Dual Drive + Water Pump · Wall & Floor Cleaning · Auto Path Planning · Auto Park Function · Smart Navigation · High Efficiency

SPECIFICATIONS	
Connection / Control	Wireless
Motor Power	80W
Motor Configuration	2 Driver + 1 Water Pump
Battery Capacity	5,200 mAh
Runtime / Working Time	2 Hours
Charging Time	2.5 Hours
Cleaning Area / Coverage	170m²
Cleaning Depth	0.5 – 2.5m
Cleaning Zones	Floor, Walls, Waterline
Compatible Surfaces	Gunite, Vinyl, Fiberglass, Pebble, Tile
IP Rating	IP68
Traction System	2 Wheel Drivers
Filter Capacity / Type	4L / 150 LPM
Cleaning Modes	3 (Auto/Wall/Floor)
Key Smart Features	Auto-Park, Auto-Stop, Smart Navigation, Auto Path Planning
Adapter Input	AC100-240V, 50/60Hz, 2.0A MAX
Adapter Output	N/A
Dimensions (Unit)	475 × 390 × 232 mm
Weight (Unit)	10.4 kg

Powerful cleaning for floors, walls, and waterline with smart navigation and auto-parking for maximum convenience.

PC01

Cordless Robotic Pool Cleaner



Cordless Operation · Button Start (One Touch) · Quick Drainage · Climbing Angle 10° · Floor Cleaning · Eco-Friendly ABS

SPECIFICATIONS	
Connection / Control	Wireless (Button Start on Unit)
Motor Power	~36W
Motor Configuration	2 Wheel Drivers
Battery Capacity	5,000 mAh
Runtime / Working Time	2 Hours (120 mins)
Charging Time	3.5 – 4 Hours
Cleaning Area / Coverage	~80 m² (approx. 860 sq. ft.)
Cleaning Depth	0.5 – 3m
Cleaning Zones	Floor Only
Compatible Surfaces	Vinyl, Fiberglass, Tile (Smooth surfaces)
IP Rating	IP68
Traction System	2 Wheel Drivers (with treads)
Filter Capacity / Type	1.3L (Fine Mesh Filter)
Cleaning Modes	1 Mode (Auto: Floor Mode)
Key Smart Features	Quick Drainage Design, 10° Climbing Angle, Eco-Friendly ABS
Adapter Input	AC100-240V, 50/60Hz
Adapter Output	24V / 1A
Dimensions (Unit)	340 × 300 × 240 mm (approx. 13.4" × 11.8" × 9.4")
Weight (Unit)	3.5 kg (7.7 lbs)

Simple one-touch operation with powerful cleaning performance. Ideal for flat-bottom pools with smooth surfaces.

PC20

Cordless Robotic Pool Cleaner



App Control · Dual Drive + Water Pump · Auto Wall Cleaning · OTA Updates · Smart Scheduling · High Efficiency

SPECIFICATIONS	
Connection / Control	Wireless + App Control
Motor Power	80W
Motor Configuration	2 Driver + 1 Water Pump
Battery Capacity	5,200 mAh
Runtime / Working Time	2 Hours
Charging Time	2.5 Hours
Cleaning Area / Coverage	170m²
Cleaning Depth	0.5 – 2.5m
Cleaning Zones	Floor, Walls, Waterline
Compatible Surfaces	Gunite, Vinyl, Fiberglass, Pebble, Tile
IP Rating	IP68
Traction System	2 Wheel Drivers
Filter Capacity / Type	4L / 150 LPM
Cleaning Modes	3 (Auto/Wall/Floor)
Key Smart Features	App Control, OTA Firmware Updates, Smart Scheduling
Adapter Input	AC100-240V, 50/60Hz, 2.0A MAX
Adapter Output	N/A
Dimensions (Unit)	475 × 390 × 232 mm
Weight (Unit)	10.4 kg

Smarter cleaning at your fingertips. Control, customize and schedule cleanings anytime with the mobile app.

PC200 Lite

Cordless Robotic Pool Cleaner



Button + Remote Control

300m² Coverage

Floor / Walls / Waterline

Auto-Park

Temp Detection

Surface Cleaning Mode

PRIMARY FUNCTION	
Connection / Control	Button + Remote Control
Motor Power	130W
Motor Configuration	130W Motor
Battery Capacity	10,400 mAh
Runtime / Working Time	3 Hours
Charging Time	2 Hours
Cleaning Area / Coverage	300m²
Cleaning Depth	0.5–3m
Cleaning Zones	Floor, Walls, Waterline
Compatible Surfaces	Gunite, Vinyl, Fiberglass, Pebble, Tile
IP Rating	IP68
Traction System	4 Wheel Drivers
Filter Capacity / Type	4L
Cleaning Modes	3 (Auto/Wall/Floor)
Key Smart Features	Temp Detection, Surface Cleaning Mode, Auto-Park
Adapter Input	AC100-240V, 50/60Hz, 2.0A MAX
Adapter Output	25.2V-3.0A / 75.6W
Dimensions (Unit)	475×390×232 mm
Weight (Unit)	10.4 kg

Temperature Detection, Surface Cleaning Mode, Auto-Park, 300m² coverage, Floor/Wall/Waterline cleaning.

PC200

Cordless Robotic Pool Cleaner



App + Remote Control

Dual Water Pumps

Ultra Suction

Surface Cleaning

Auto-Park & Recall

Wi-Fi + BLE Control

PRIMARY FUNCTION	
Connection / Control	Wi-Fi & BLE + App & Remote
Motor Power	130W
Motor Configuration	2 Driver + 2 Water Pumps
Battery Capacity	10,400 mAh
Runtime / Working Time	3 Hours
Charging Time	2 Hours
Cleaning Area / Coverage	300m²
Cleaning Depth	0.5–3m
Cleaning Zones	Floor, Walls, Waterline, Surface
Compatible Surfaces	Gunite, Vinyl, Fiberglass, Pebble, Tile
IP Rating	IP68
Traction System	4 Wheel Drivers
Filter Capacity / Type	4L
Cleaning Modes	6 Cleaning Modes
Key Smart Features	Temp Detection, Auto-Park & Recall, Dual Pumps, Ultra Suction
Adapter Input	AC100-240V, 50/60Hz, 2.0A MAX
Adapter Output	25.2V-3.0A / 75.6W
Dimensions (Unit)	475×390×257 mm
Weight (Unit)	12 kg

Wi-Fi + BLE control, Dual Pumps, Ultra Suction, Surface Cleaning, Auto-Park & Recall.

Ultra Plus

Cordless Robotic Pool Cleaner



Up to 9 Hours Runtime

1,250m² Coverage

AdaptiveNav 4.0

12 Built-in Sensors

6L Filter Basket

5070 GPH Suction Power

PRIMARY FUNCTION	
Dimensions	550 × 470 × 262 mm
Net Weight	9.4 kg
Suitable Pool Size	≤ 1,250 m²
Max Pool Depth	3.6m / 12ft
Max Pool Slope	50°
Runtime	Up to 9 hours
Battery Capacity	20,000 mAh (370 Wh)
Cleaning Areas	Floor, Walls, Waterline, Edges, Surface
Max Suction	320 L/min (5070 GPH)
Filter Basket	6 L
Filter Options	25/75/150 μm
Active Brush	200RPM Active Inverter Brush
Cleaning Speed	0.5 m/s (30 m/min)
Cleaning Efficiency	12m²/min or 600 m²/h
Navigation	AdaptiveNav 4.0
Sensors	12 Built-in Sensors

Up to 9 hours runtime, 1,250m² coverage, AdaptiveNav 4.0, 12 built-in sensors.

ACE 600 Plus

Cordless Robotic Pool Cleaner



Up to 7.5 Hours Runtime

500m² Coverage

AdaptiveNav 4.0

Bluetooth + Wi-Fi

5070 GPH Suction Power

Wall-to-Waterline Cleaning

PRIMARY FUNCTION	
Dimensions	550 × 470 × 262 mm
Net Weight	9.4 kg
Suitable Pool Size	≤ 500 m²
Max Pool Depth	3.6m / 12ft
Max Pool Slope	50°
Runtime	Up to 7.5 hours
Battery Capacity	18,000 mAh (333 Wh)
Cleaning Areas	Floor, Walls, Waterline, Edges, Surface
Max Suction	320 L/min (5070 GPH)
Filter Basket	6 L
Filter Options	25/75/150 μm
Active Brush	200RPM Active Inverter Brush
Cleaning Speed	0.5 m/s (30 m/min)
Cleaning Efficiency	12m²/min or 600 m²/h
Navigation	AdaptiveNav 4.0
Sensors	12 Built-in Sensors

Commercial-grade performance with AdaptiveNav 4.0, Bluetooth/Wi-Fi control and powerful wall-to-waterline cleaning.

ACE 300

Robotic Pool Cleaner



≤ 250m² Coverage

Up to 4.5 Hours Runtime

11 Built-in Sensors

AdaptiveNav 4.0

Bluetooth Control

Self-Rescue Supported

SPECIFICATIONS	
Dimensions	550 × 430 × 262 mm
Net Weight	8.9 kg
Suitable Pool Size	≤ 250 m²
Max Pool Depth	3.6m / 12ft
Max Pool Slope	50°
Runtime	Up to 4.5 hours
Battery Capacity	10,400 mAh (187.2 Wh)
Cleaning Areas	Floor, Walls, Waterline
Max Suction	320 L/min (5070 GPH)
Filter Basket	6 L
Filter Options	25/75/150 μm
Brush	200RPM Active Inverter Brush
Cleaning Speed	0.5 m/s (30 m/min)
Cleaning Efficiency	12m²/min or 600 m²/h
Navigation	AdaptiveNav 4.0
Sensors	11 Built-in Sensors
App Control	Bluetooth only
Remote Control	Not Supported
Voice Prompt	Not Supported
Self-Rescue	Supported
Basket Reminder	Supported

Compact commercial-grade cleaner with AdaptiveNav 4.0, wall-to-waterline cleaning, and intelligent self-rescue functionality.

Commercial Pro

Heavy-Duty Commercial Pool Cleaner



Up to 1,250m² Pool Size

Up to 8 Hours Runtime

40,000 mAh Battery

640 L/min Suction

16 Built-in Sensors

App + Remote + Voice Prompt

Dual High-Speed Brushes

SPECIFICATIONS	
Dimensions	550 × 896 × 262 mm
Weight	18.3 kg
Pool Size	Up to 1,250 m²
Depth	3.6m (up to 6m supported)
Slope	50°
Runtime	Up to 8 hours (Energy-Saving Mode)
Battery	40,000 mAh (740 Wh)
Cleaning Areas	Floor, Walls, Waterline, Edges
Surfaces	Concrete, Fiberglass, Vinyl, Tiles
Max Suction	640 L/min (10,140 GPH)
Filter Basket	12L (24L optional)
Filter Options	25/75/150 μm
Brush	Dual High-Speed Brushes
Cleaning Speed	0.5 m/s (30 m/min)
Efficiency	Up to 1,250 m² in 90 minutes
Modes	Floor, Waterline, All, Manual, Weekly
Navigation	AdaptiveNav 4.0
Sensors	16 Built-in Sensors
Control	Bluetooth/Wi-Fi App + Remote + Voice Prompt
Features	Basket Reminder, Self-Rescue, Adaptive Suction Control, Status Display

High-capacity commercial solution engineered for large aquatic facilities with dual-drive cleaning, adaptive suction control, and all-surface coverage.

COMMERCIAL

CLEANING MACHINES & ROBOTS.



COMMERCIAL VACUUM CLEANERS

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INDUSTRIAL VACUUM CLEANERS

1600W Commercial Vacuum Cleaners



	CRS1625
Barrel capacity (L)	25
Rated voltage (V)	220
Rated power (W)	1,600
Vacuum degree (kPa)	22.7
Barrel material	410 stainless steel (frosted)
Noise level (db)	78
Frequency (Hz)	50-60
Filtering system	HEPA + filtering sponge + dust compartment
Steel pipe length (m)	0.5 * 2
Hose length (m)	2.5 m (can be extended to 10 m)
Cable length (m)	5
Product size (mm)	355 * 350 * 612



	CRS1635
Barrel capacity (L)	35
Rated voltage (V)	220
Rated power (W)	1,600
Vacuum degree (kPa)	22.7
Barrel material	410 stainless steel (frosted)
Noise level (db)	78
Frequency (Hz)	50-60
Filtering system	HEPA + filtering sponge + dust compartment
Steel pipe length (m)	0.5 * 2
Hose length (m)	2.5 m (can be extended to 10 m)
Cable length (m)	5
Product size (mm)	355 * 350 * 735

2800W Commercial Vacuum Cleaners



	CRS2870
Barrel capacity (L)	70
Rated voltage (V)	220
Rated power (W)	2,800
Vacuum degree (kPa)	22.5
Barrel material	410 stainless steel (frosted)
Noise level (db)	78
Frequency (Hz)	50-60
Filtering system	HEPA + filtering sponge + dust compartment
Steel pipe length (m)	0.5 * 2
Hose length (m)	2.5 (can be extended to 10 m)
Cable length (m)	8
Product size (mm)	610 * 540 * 800



	CRS2890
Barrel capacity (L)	90
Rated voltage (V)	220
Rated power (W)	2,800
Vacuum degree (kPa)	22.5
Barrel material	410 stainless steel (frosted)
Noise level (db)	78
Frequency (Hz)	50-60
Filtering system	HEPA + filtering sponge + dust compartment + dust bag
Steel pipe length (m)	0.5 * 2
Hose length (m)	2.5 m (can be extended to 10 m)
Cable length (m)	8
Product size (mm)	610 * 540 * 970

CG1580D Industrial Vacuum Cleaner



	CG1580D
Barrel capacity (L)	80
Rated voltage (V)	24
Power (W)	1500
Vacuum degree (mbar/kPa)	355/35.5
Frequency (Hz)	50-60
Filtering system	HEPA + filtering sponge + dust compartment
Noise level (dB)	65
Barrel material	201stainless steel
Steel pipe length (m)	0.5*2
Suction hose length (m)	2.5
Cable length (m)	/
Product size (mm)	800*450*1100

CG3680 Industrial Vacuum Cleaner



	CG3680
Barrel capacity (L)	80
Rated voltage (V)	220
Power (W)	3600
Vacuum degree (mbar/kPa)	375/37.5
Frequency (Hz)	50-60
Filtering system	HEPA + filtering sponge + dust compartment
Noise level (dB)	72
Barrel material	201stainless steel
Steel pipe length (m)	0.5*2
Suction hose length (m)	2.5
Cable length (m)	8
Product size (mm)	620*620*1150

CG3080/4080 Industrial Vacuum Cleaner



	CG3080	CG4080
Barrel capacity (L)	80	80
Rated voltage (V)	380	380
Power (W)	3000	4000
Vacuum degree (mbar/kPa)	275/27.5	318/31.8
Frequency (Hz)	50-60	50-60
Filtering system	HEPA + filtering sponge + dust compartment	
Noise level (dB)	68	68
Barrel material	201stainless steel	201stainless steel
Steel pipe length (m)	0.5*2	0.5*2
Suction hose length (m)	2.5	2.5
Cable length (m)	5	5
Product size (mm)	1145*585*1270	1145*585*1270

CG55100 Industrial Vacuum Cleaner



	CG55100
Barrel capacity (L)	100
Rated voltage (V)	380
Power (W)	5500
Vacuum degree (mbar/kPa)	425/42.5
Frequency (Hz)	50-60
Filtering system	HEPA + filtering sponge + dust compartment
Noise level (dB)	74
Barrel material	201stainless steel
Steel pipe length (m)	1.5 (S-shaped metal pipe)
Suction hose length (m)	5
Cable length (m)	8
Product size (mm)	1170*550*1400

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FLOOR SCRUBBERS

X06CPLUS



	Basic
Cleaning width (mm)	520
Squeegee width (mm)	550
Continuous running time (h)	1.5
Theoretical cleaning efficiency (㎡/h)	1200
Battery capacity (V/Ah)	24/1
Suction motor power (W)	2 120

	Basic
Brush motor power (W)	160*2
Driving motor power (W)	/
Solution tank capacity (L)	4
Recovery tank capacity (L)	6
Total weight (kg)	24
Product size (mm)	518*377*120 8

360-degree rotatable body, effortlessly cleaning narrow spaces.
Detachable water tank for easier cleaning.
9-inch dual brush discs with high-density bristles and branded water-absorbent rubber strips, leaving floors spotlessly clean.
Durable and corrosion-resistant metallic body with spray coating technology.
User-friendly digital control panel for easy operation.

M30



	Basic
Cleaning width (mm)	350
Squeegee width (mm)	450
Continuous running time (h)	1-2
Theoretical cleaning efficiency (㎡/h)	1350
Battery capacity (V/Ah)	24/32
Suction motor power (W)	400

	Basic
Brush motor power (W)	300
Driving motor power (W)	/
Solution tank capacity (L)	10
Recovery tank capacity (L)	15
Total weight (kg)	58
Product size (mm)	700*450*1000

13-inch brush plate with central water outlet design, combining washing, scrubbing, and suction in one unit.
Unobstructed front water injection port for easy water filling;Foldable body for space-saving storage.
Cast aluminum silent wheels and advanced noise reduction technology make it ideal for commercial space cleaning ;Water tank made of linear low-density polyethylene with rotational molding process, ensuring durability and sturdiness.
Powered by a branded battery, providing ample power and long-lasting battery life.

M30+



	Basic
Cleaning width (mm)	450
Squeegee width (mm)	600
Continuous running time (h)	1.5-3
Theoretical cleaning efficiency (㎡/h)	2000
Battery capacity (V/Ah)	24/63
Suction motor power (W)	350

	Basic
Brush motor power (W)	360
Driving motor power (W)	/
Solution tank capacity (L)	25
Recovery tank capacity (L)	33
Total weight (kg)	100
Product size (mm)	1253*605*105 6

The machine offers flexible adjustments with lift wheels and a yaw control knob for tailored comfort and efficiency. Its anti-fouling technology prevents wastewater from entering the wind turbine, ensuring stable operation and longer service life. Convenient features like an easy-to-use steering handle and universal casters make operation and transfer effortless.

XMD 50/50



	Basic	Self-walking
Cleaning width (mm)	520	520
Squeegee width (mm)	825	825
Continuous running time (h)	3	3
Theoretical cleaning efficiency (㎡/h)	2800	2800
Battery capacity (V/Ah)	24/100	24/100
Suction motor power (W)	300	300

	Basic	Self-walking
Brush motor power (W)	550	550
Driving motor power (W)	/	100
Solution tank capacity (L)	45	45
Recovery tank capacity (L)	50	50
Total weight (kg)	138	145
Product size (mm)	1400*825*1040	

Floating brush plate with pressure adjustment for versatile cleaning on different surfaces.
Front collision protection guide wheel safeguards the brush plate and machine.
High tear-resistant and flexible natural rubber strips.
Durable 60um spray coating for rust resistance.
Powerful suction motor from a renowned international brand.
Floating cage ball liquid level indicator for wastewater alert.

M50



	Wired	Wireless
Cleaning width (mm)	500	500
Squeegee width (mm)	825	825
Continuous running time (h)	/	2-3
Theoretical cleaning efficiency (㎡/h)	2800	2800
Battery capacity (V/Ah)	/	24/100
Suction motor power (W)	600	500

	Wired	Wireless
Brush motor power (W)	550	550
Driving motor power (W)	/	/
Solution tank capacity (L)	50	50
Recovery tank capacity (L)	55	55
Total weight (kg)	136	158
Product size (mm)	1200*825*1000	

Floating brush plate with pressure adjustment for versatile cleaning on different surfaces.
Front collision protection guide wheel safeguards the brush plate and machine.
High tear-resistant and flexible natural rubber strips.
Durable 60um spray coating for rust resistance.
Powerful suction motor from a renowned international brand.
Floating cage ball liquid level indicator for wastewater alert.

M50+



	Basic
Cleaning width (mm)	500
Squeegee width (mm)	825
Continuous running time (h)	3
Theoretical cleaning efficiency (㎡/h)	2800
Battery capacity (V/Ah)	24/100
Suction motor power (W)	500

	Basic
Brush motor power (W)	550
Driving motor power (W)	/
Solution tank capacity (L)	60
Recovery tank capacity (L)	55
Total weight (kg)	165
Product size (mm)	1265*825*1040

Isolated air duct design to effectively reduce fan noise and heat dissipation; the squeegee adopts a hinged structure and has better water-absorbing performance when it attaches the floor
Adoption of double adjustment knobs to flexibly adjust the pressure of the brush plate on the ground; the eccentric brush plate design can effectively clean and sanitize dead corners
Adoption of an integrated frame chassis with higher structural strength; LED front lighting is highly practical and convenient for operations in low-light environment

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RIDE ON FLOOR SRUBBERS

M60



	Basic	Self-walking
Cleaning width (mm)	500	
Squeegee width (mm)	825	
Continuous running time (h)	2-3	3-3.5
Theoretical cleaning efficiency (㎡/h)	3300	
Battery capacity (V/Ah)	24/100	
Suction motor power (W)	500	

	Basic	Self-walking
Brush motor power (W)	550	
Driving motor power (W)	/	300
Solution tank capacity (L)	55	
Recovery tank capacity (L)	65	
Total weight (kg)	150	154
Product size (mm)	1150*825*1120	

Splash guard for the brush disc, effectively preventing dirty water from splashing outside.
Right-positioned brush disc guide wheel, facilitating cleaning in narrow spaces and protecting the brush disc.
Flip-open sewage tank for easier and quicker cleaning;Mechanical water suction handle design, allowing manual control for lifting and lowering operations.
Intelligent control panel with one-touch water flow adjustment;60um spray-coated metallic body with a 7mm roller brush, providing corrosion resistance, durability, and rust prevention.

K68



	Basic
Cleaning width (mm)	550
Squeegee width (mm)	825
Continuous running time (h)	3-4
Theoretical cleaning efficiency (㎡/h)	4600
Battery capacity (V/Ah)	24/100
Suction motor power (W)	550

	Basic
Brush motor power (W)	550
Driving motor power (W)	450
Solution tank capacity (L)	70
Recovery tank capacity (L)	80
Total weight (kg)	175
Product size (mm)	1250*825*1080

Minimalistic control panel for easy and intuitive operation.
Compact body with a small turning radius for effortless cleaning in tight spaces.
15kg brush plate pressure for powerful removal of floor stains.
Full plastic-coated chassis that is corrosion-resistant and easy to clean.
Double-layer plastic soundproof panels for reduced operational noise.
6.5mm water tank wall with top-tier industry quality for strong resistance against negative pressure.

K69



	Basic
Cleaning width (mm)	690
Squeegee width (mm)	825
Continuous running time (h)	3-4
Theoretical cleaning efficiency (㎡/h)	5200
Battery capacity (V/Ah)	24/100
Suction motor power (W)	550

	Basic
Brush motor power (W)	300*2
Driving motor power (W)	450
Solution tank capacity (L)	70
Recovery tank capacity (L)	80
Total weight (kg)	182.5
Product size (mm)	1250*825*1080

Triple motor protection to prevent water mist damage.
0.5mm diameter nylon bristles for versatile cleaning on various floor types.
Dual 13-inch brush plate design for a 30% increase in cleaning area.
Powerful rear-wheel drive motor from a top-tier brand, providing ample power and a 15% climbing capability.
Long-lasting battery performance from an industry-leading brand.
Minimalistic control panel with two physical buttons and a hand crank handle for easy and intuitive operation.

K70 Single-brush



	Single-brush
Cleaning width (mm)	550
Squeegee width (mm)	1000
Continuous running time (h)	2-3
Theoretical cleaning efficiency (㎡/h)	4600
Battery capacity (V/Ah)	24/100
Suction motor power (W)	500

	Single-brush
Brush motor power (W)	550
Driving motor power (W)	500
Solution tank capacity (L)	80
Recovery tank capacity (L)	85
Total weight (kg)	203.5
Product size (mm)	1300*1000*1100

0.5mm diameter nylon bristles for deep floor cleaning.
Digital icon-based control panel for easy operation and user-friendly training.
Forward-leaning design with a lower center of gravity for enhanced stability.
Transparent water tank with liquid level warning display for real-time water monitoring.
Reinforced curved design of the water tank for strong resistance against negative pressure.
Quadruple motor waterproofing system to ensure safe operation of the suction motor.

K70 Double-brush



	Double-brush
Cleaning width (mm)	750
Squeegee width (mm)	1000
Continuous running time (h)	2-3
Theoretical cleaning efficiency (㎡/h)	5900
Battery capacity (V/Ah)	24/100
Suction motor power (W)	500

	Double-brush
Brush motor power (W)	350*2
Driving motor power (W)	500
Solution tank capacity (L)	80
Recovery tank capacity (L)	85
Total weight (kg)	207.5
Product size (mm)	1300*1000*1100

0.5mm diameter nylon bristles for deep floor cleaning.
Digital icon-based control panel for easy operation and user-friendly training.
Forward-leaning design with a lower center of gravity for enhanced stability.
Transparent water tank with liquid level warning display for real-time water monitoring.
Reinforced curved design of the water tank for strong resistance against negative pressure.
Quadruple motor waterproofing system to ensure safe operation of the suction motor.

K70+



	Basic
Cleaning width (mm)	750
Squeegee width (mm)	1000
Continuous running time (h)	3
Theoretical cleaning efficiency (㎡/h)	5900
Battery capacity (V/Ah)	24/140
Suction motor power (W)	500

	Basic
Brush motor power (W)	350*2
Driving motor power (W)	450
Solution tank capacity (L)	80
Recovery tank capacity (L)	85
Total weight (kg)	207.5
Product size (mm)	1400*1000*1100

Mechanized hand crank handle for easy brush plate control.
Transparent water level display for monitoring remaining water.
Stainless steel-coated chassis for durability and corrosion resistance.
Renowned brand power battery for stable and long-lasting performance.
Foot pedal with anti-slip texture and operational warning lights for enhanced safety.
Reinforced curved water tank design for strong negative pressure resistance.

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RIDE ON FLOOR SCRUBBERS

K79



	Basic		Basic
Cleaning width (mm)	800	Brush motor power (W)	380*2
Squeegee width (mm)	1000	Driving motor power (W)	750
Continuous running time (h)	4	Solution tank capacity (L)	100
Theoretical cleaning efficiency (m^2/h)	6000	Recovery tank capacity (L)	110
Battery capacity (V/Ah)	24/200	Total weight (kg)	316
Suction motor power (W)	600	Product size (mm)	1400*1000*1250

Dual splash-proof design to prevent secondary contamination.
Mechanical and electronic valve controls for customizable water flow.
Natural rubber material for high tear resistance and durability.
Reinforced gold chassis with anti-corrosion coating.
Quadruple waterproof design to protect the motor from water damage.
Double-layer rotational molding soundproof panels for reduced noise during operation.

K80



	Basic		Basic
Cleaning width (mm)	800	Brush motor power (W)	350*2
Squeegee width (mm)	1200	Driving motor power (W)	600
Continuous running time (h)	3-5	Solution tank capacity (L)	138
Theoretical cleaning efficiency (m^2/h)	6800	Recovery tank capacity (L)	140
Battery capacity (V/Ah)	24/200	Total weight (kg)	345.5
Suction motor power (W)	600	Product size (mm)	1520*1200*1300

Dual brush plates with one-key lifting for easy and convenient operation.
Guiding wheel and ball joint structure enable flexible movement, leaving no dead corners during floor cleaning.
Top-tier branded battery ensures long-lasting power.
Traceless double-cast aluminum front wheels provide stability, while the reverse warning light enhances safety.
Internationally renowned drive motor delivers ample power.
Extra-large clean/dirty water tank with intelligent water control electromagnetic valve for efficient operation.

K80+



	Basic		Basic
Cleaning width (mm)	800	Brush motor power (W)	350*2
Squeegee width (mm)	1200	Driving motor power (W)	600
Continuous running time (h)	3-5	Solution tank capacity (L)	120
Theoretical cleaning efficiency (m^2/h)	6800	Recovery tank capacity (L)	150
Battery capacity (V/Ah)	24/200	Total weight (kg)	340
Suction motor power (W)	600	Product size (mm)	1600*1200*1300

Mechanically adjusted water valve knob allows easy control of the water outlet from the double brush plates; branded brush motor + nylon brush filament to provide strong power and long service life
Seamless double cast aluminum front wheels ensure stable walking and strong pressure resistance; extra large solution/recovery tank avoids frequent water adding/draining and increases working efficiency
The design of tool storage space is user-friendly; the squeegee angle adjustment knob can adapt to a variety of floor cleaning

K90

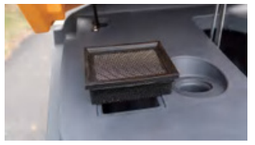


	Basic		Basic
Cleaning width (mm)	900	Brush motor power (W)	650*2
Squeegee width (mm)	1200	Driving motor power (W)	800
Continuous running time (h)	4-5	Solution tank capacity (L)	240
Theoretical cleaning efficiency (m^2/h)	7800	Recovery tank capacity (L)	260
Battery capacity (V/Ah)	36/200	Total weight (kg)	555
Suction motor power (W)	600	Product size (mm)	1790*1200*1450

Internationally renowned front-wheel drive motor for excellent maneuverability and climbing capability.
Dual magnetic suction brush plate for convenient and user-friendly disassembly/installation.
Extra-large clean/dirty water tank minimizes frequent refills and simplifies wastewater disposal.
Reinforced curved surfaces in the water tank enhance overall durability.
ECO mode reduces power consumption and noise of the suction motor.
Single rotating button adjusts water output; reliable branded battery ensures long-lasting performance.









K100



	Basic		Basic
Cleaning width (mm)	1000	Brush motor power (W)	650*2+200*1
Squeegee width (mm)	1200	Driving motor power (W)	1400
Continuous running time (h)	3-4	Solution tank capacity (L)	280
Theoretical cleaning efficiency (m^2/h)	10000	Recovery tank capacity (L)	300
Battery capacity (V/Ah)	36/320	Total weight (kg)	977
Suction motor power (W)	600*2	Product size (mm)	2060*1200*1660

High-quality leather + high-rebound sponge shock-absorbing seats make driving more comfortable; LCD reversing image display makes reversing operations safer
Brushless AC driving motor, surging power output, easy climbing; powerful double suction motors to clean sewage effectively
The steering wheel is integrated with the smart panel, making it easy to operate; the magnetic suction brush plate with adjustable ground pressure + vehicle-mounted high-pressure water gun can achieve thorough cleaning









FLOOR SWEEPERS



	Ordinary	Skylight	Spray
Cleaning width (mm)	920	920	920
Rolling brush width (mm)	480	480	480
Side brush width (mm)	350*2	350*2	350*2
Side brushes quantity	2	2	2
Debris hopper capacity (L)	55	55	55
Spray function	/	/	yes
Total weight (kg)	23	24	27.5
Product size (mm)	1300*920*1035	1300*920*1035 / 200*200*50 (skylight size)	

The hand push rod is foldable and can be stored upright to save space; the side brush height can be adjusted to fit the ground and clean better
The operation of the whole machine relies on mechanical principles, and the tires drive the belt to drive the machine; the 55L dust collection box can eliminate frequent garbage dumping
The first 920mm hexahedral roller brush + high-density dust collection double brush to achieve thorough cleaning; can be operated in any weather, without time limit



	Single-brush	Double-brush
Cleaning width (mm)	775	1050
Rolling brush width (mm)	500	
Side brush width (mm)	350*2	
Continuous running time (h)	3-4	
Theoretical cleaning efficiency (㎡/h)	4200	5250
Battery capacity (V/Ah)	24/23Ah	
Suction motor power (W)	36	

	Single-brush	Double-brush
Rolling brush motor power (W)	250	
Side brush motor power (W)	/	
Driving motor power (W)	/	
Debris hopper capacity (L)	45	
Water tank capacity (L)	8	
Total weight (kg)	56	
Product size (mm)	1470*1040*1040	

Adopting an integrated injection molded chassis to ensure stronger operation stability and controllability; the rotary cleaning switch is simple and easy to operate
The steering adopts a universal wheel mechanism to flexibly adjust the cleaning angle; the adjustable push rod can adapt to different user heights
The rolling brush adopts V-shaped knitted wool form, which does better in dust collection; double spray cleaning and dust suppression can effectively prevent secondary pollution



	Basic
Cleaning width (mm)	1000
Rolling brush width (mm)	435
Side brush width (mm)	400*2
Continuous running time (h)	4-5
Theoretical cleaning efficiency (㎡/h)	4000
Battery capacity (V/Ah)	12/100
Suction motor power (W)	100

	Basic
Rolling brush motor power (W)	120
Side brush motor power (W)	35*2
Driving motor power (W)	/
Debris hopper capacity (L)	22
Water tank capacity (L)	12
Total weight (kg)	90
Product size (mm)	1000*1000*1000

Fully sealed structure, with high performance, long service life, no pollution as well as maintenance-free, safe and reliable performance
The filtration system uses a plate design filter element integrated with imported highly breathable fibers, which has a large filtration area and good absorption performance
Suction turbine technology to provide strong suction power and thorough cleaning effect
Multi-function operation panel, with clear buttons to be operated independently

SR 45/60 W



	Basic
Cleaning width (mm)	1000
Rolling brush width (mm)	450
Side brush width (mm)	350*2
Continuous running time (h)	2.5-3
Theoretical cleaning efficiency (㎡/h)	6500
Battery capacity (V/Ah)	48/67
Suction motor power (W)	360

	Basic
Rolling brush motor power (W)	500
Side brush motor power (W)	90*2
Driving motor power (W)	650
Debris hopper capacity (L)	60
Water tank capacity (L)	40
Total weight (kg)	267
Product size (mm)	1300*1000*980

Features a panel-type filter for effective air purification.
40L polyethylene water tank for durability.
Electric lifting roller brush and side brush for easy maneuverability.
Equipped with a powerful suction motor for efficient cleaning.
Ultra-small turning radius for flexibility in narrow spaces.
One-touch dust shaking button and multi-sided roller brush for improved cleaning efficiency.

U125



	Basic
Cleaning width (mm)	1250
Rolling brush width (mm)	490
Side brush width (mm)	450*2
Continuous running time (h)	2-2.5
Theoretical cleaning efficiency (㎡/h)	7000
Battery capacity (V/Ah)	48/67
Suction motor power (W)	216

	Basic
Rolling brush motor power (W)	700
Side brush motor power (W)	90*2
Driving motor power (W)	1000
Debris hopper capacity (L)	80
Water tank capacity (L)	10
Total weight (kg)	330
Product size (mm)	1600*1250*1300

Front bumper for enhanced collision protection and overall machine safety.
7mm body thickness + integrated plastic shell, surpassing industry standards.
High-quality copper-core vacuum motor for strong suction power and low noise.
Hand crank dust shaking handle for effective protection of the filter and motor.
80L cold-rolled steel garbage bin, corrosion-resistant and odor-proof.
Equipped with high-quality battery for long-lasting battery life, stainless steel single misting head for efficient dust suppression.

U135



	U135
Cleaning width (mm)	1350
Rolling brush width(mm)	590
Side brush width (mm)	500*2
Continuous running time (h)	2-3
Theoretical cleaning efficiency (㎡/h)	7500
Battery capacity (V/Ah)	48/83
Suction motor power (W)	360 216

	U135
Rolling brush motor power (W)	700
Side brush motor power (W)	90*2
Driving motor power (W)	1000
Debris hopper capacity (L)	120
Water tank capacity (L)	50*2
Total weight (kg)	382 412
Product size (mm)	1600*1350*1300/1920

Hydraulic disc brakes + ABS anti-lock braking system for safer driving.
50L dual water tanks + dual misting system for long-lasting dust suppression.
One-touch dust shaking button + hexahedral roller brush for higher cleaning efficiency.
Front LED headlights + warning lights for enhanced safety during operations.
Chassis made of stainless steel and electrophoretic process for durability, corrosion resistance.
Adjustable leather seats for a comfortable driving experience.

U135P



	U135P
Cleaning width (mm)	1350
Rolling brush width(mm)	590
Side brush width (mm)	500*2
Continuous running time (h)	2-3
Theoretical cleaning efficiency (㎡/h)	7500
Battery capacity (V/Ah)	48/83
Suction motor power (W)	360 216

	U135P
Rolling brush motor power (W)	700
Side brush motor power (W)	90*2
Driving motor power (W)	1000
Debris hopper capacity (L)	120
Water tank capacity (L)	50*2
Total weight (kg)	382 412
Product size (mm)	1600*1350*1300/1920

Hydraulic disc brakes + ABS anti-lock braking system for safer driving.
50L dual water tanks + dual misting system for long-lasting dust suppression.
One-touch dust shaking button + hexahedral roller brush for higher cleaning efficiency.
Front LED headlights + warning lights for enhanced safety during operations.
Chassis made of stainless steel and electrophoretic process for durability, corrosion resistance.
Adjustable leather seats for a comfortable driving experience.

U190



	Basic
Cleaning width (mm)	1900
Rolling brush width (mm)	690
Side brush width (mm)	500*4
Continuous running time (h)	4
Theoretical cleaning efficiency (㎡/h)	10000
Battery capacity (V/Ah)	48/103
Suction motor power (W)	216

	Basic
Rolling brush motor power (W)	1000
Side brush motor power (W)	90*4
Driving motor power (W)	1200
Debris hopper capacity (L)	180
Water tank capacity (L)	50*2
Total weight (kg)	650
Product size (mm)	2000*1900*1170

High-strength front nitrogen shock-absorbing system ensures smooth driving; high-quality anti-skid rear driving wheels are wear-resistant and durable.
Double spray to suppress dust; motor protective cover to effectively protect the side brush motor; well-known brand battery for longer battery life.
Sheet metal anti-rust treatment: phosphating/pickling/electrophoresis process; four powerful internal rotating side brushes to achieve efficient cleaning and strong dust collection.

U190P



	Basic
Cleaning width (mm)	1900
Rolling brush width (mm)	690
Side brush width (mm)	500*4
Continuous running time (h)	4
Theoretical cleaning efficiency (㎡/h)	10000
Battery capacity (V/Ah)	48/103
Suction motor power (W)	216

	Basic
Rolling brush motor power (W)	1000
Side brush motor power (W)	90*4
Driving motor power (W)	1200
Debris hopper capacity (L)	180
Water tank capacity (L)	50*2
Total weight (kg)	650
Product size (mm)	2000*1900*2000

Super-sized roof design + panoramic driving view for enhanced sun protection and peace of mind during travel;One-touch dust shaking to protect the filter and motor; High-strength front nitrogen gas shock absorption system for smooth and stable driving;High-quality anti-skid rear-wheel drive for long-lasting durability, with dual mist sprayers to suppress dust.
Motor protection cover effectively safeguards the side brush motor; Equipped with a renowned brand battery for extended battery life.

CG-SP 190/180



	Basic
Cleaning width (mm)	1900
Rolling brush width (mm)	690
Side brush width (mm)	520*4
Continuous running time (h)	2.5-3
Theoretical cleaning efficiency (㎡/h)	19500
Battery capacity (V/Ah)	48/100
Suction motor power (W)	360

	Basic
Rolling brush motor power (W)	1000
Side brush motor power (W)	90*4
Driving motor power (W)	1200
Debris hopper capacity (L)	180L
Water tank capacity (L)	80
Total weight (kg)	780
Product size (mm)	2200*1900*1950

Features a super-sized roof design and panoramic driving view for enhanced sun protection and a safer driving experience; One-touch dust shaking function to protect the filter and motor.
Equipped with a high-strength front nitrogen gas shock absorption system for smooth and stable driving; High-quality anti-slip rear-wheel drive for long-lasting durability, with dual mist sprayers to suppress dust; Motor protection cover effectively safeguards the side brush motor; Utilizes renowned brand batteries for extended battery life and longer-lasting performance.

U200CAR



	Basic
Cleaning width (mm)	2050
Rolling brush width (mm)	800
Side brush width (mm)	600*4
Continuous running time (h)	4-6
Theoretical cleaning efficiency (㎡/h)	15000
Battery capacity (V/Ah)	48/150
Suction motor power (W)	500*2

	Basic
Rolling brush motor power (W)	800
Side brush motor power (W)	90*4
Driving motor power (W)	1800
Debris hopper capacity (L)	200
Water tank capacity (L)	150
Total weight (kg)	990
Product size (mm)	2630*2050*2400

6-nozzle high-pressure mist cannon system effectively suppresses dust; Powerful dual suction motor with copper core effortlessly captures solid waste.
Hydraulic disc brakes + ABS anti-lock braking system for emergency braking without skidding; Rearview camera in the driver's area for safer reverse maneuvering.
High elasticity adjustable leather seats for a comfortable driving experience; Equipped with a high-pressure water gun to wash away stubborn stains for a cleaner ground cleaning.

U220CAR



	Basic
Cleaning width (mm)	1900-2200
Rolling brush width (mm)	690*5
Side brush width (mm)	500*4
Continuous running time (h)	5
Theoretical cleaning efficiency (㎡/h)	22000
Battery capacity (V/Ah)	48/300
Suction motor power (W)	500*2

	Basic
Rolling brush motor power (W)	800*2
Side brush motor power (W)	90*4
Driving motor power (W)	5000
Debris hopper capacity (L)	240
Water tank capacity (L)	200
Total weight (kg)	1580
Product size (mm)	3950*2050*2000

Equipped with a high-pressure washing system and a 9-meter, 3-layer composite high-pressure explosion-proof hose, capable of cleaning hard-to-reach corners;Electrically adjustable garbage bin lifting system for time and energy savings.
Four-wheel drive + front and rear drum brakes, providing strong power for climbing obstacles; Electronic power steering system for easy control of the vehicle's cleaning direction.
High-definition reverse imaging system + reverse assist lines for safer driving during reverse maneuvers; Electrically extendable side brush push rod for easy control of the cleaning width.

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AUTO CLEANING ROBOTS

SC50



	Basic
Cleaning width (mm)	800
Squeegee width (mm)	706
Continuous running time (h)	2-3(scrubber mode)
Vertical obstacle clearance height(cm)	1.5
Theoretical cleaning efficiency (㎡/h)	1800
Battery capacity (V/Ah)	24/60
Maximum driving speed(M/S)	1

	Basic
Trash bin capacity (L)	1.5
Solution tank capacity (L)	42
Recovery tank capacity (L)	30
Total weight (kg)	180
Product size (mm)	800*700*1200
Sensor configuration:2D lidar*1, RGBD*3, ultrasonic radar *6, collision sensor, anti-drop sensor, IMU, wheel speedometer	

Automatically adjustable roller brush,automatic water filling/draining,automatic charging, access control and elevator linkage.
Long-time operation:24V/60Ah battery, 42L water tank, optional filtering.
Double roller brushes+double side brushes,low risk of blocking the suction pipe, fully automatic during the operation process.

SC50P



	Basic 800
Cleaning width (mm)	706
Squeegee width (mm)	2-3(scrubber
Continuous running time (h)	mode)
Vertical obstacle clearance height(cm)	1.5
Theoretical cleaning efficiency (㎡/h)	1800
Battery capacity (V/Ah)	24/60
Maximum driving speed(M/S)	1

	Basic
Trash bin capacity (L)	1.5
Solution tank capacity (L)	42
Recovery tank capacity (L)	30
Total weight (kg)	180
Product size (mm)	800*700*1200
Sensorconfiguration: 2D lidar*1, RGBD*5, ultrasonic radar *6, collision sensor, anti-drop sensor, IMU, wheel speedometer	

Roller brush pressure to the ground: 46kg, roller brush module adaptive lifting, light and heavy stains solved by one machineTimed tasks, planned schedule and operation, task and data reports, supporting synchronous management from mini programs, apps, and web side Elevator, access control, automatic charging, automatic water drainage, continued working during power-off, no missed spots and corners

SC80



	Basic
Cleaning width (mm)	1160
Squeegee width (mm)	1024
Continuous running time (h)	4-6(scrubber mode)
Vertical obstacle clearance height(cm)	2.5
Theoretical cleaning efficiency (㎡/h)	4000
Battery capacity (V/Ah)	36/200
Maximum driving speed(M/S)	1.5

	Basic
Trash bin capacity (L)	1.5
Solution tank capacity (L)	140
Recovery tank capacity (L)	170
Total weight (kg)	400
Product size (mm)	1340*1024*1350
Sensor configuration: 16-line lidar, single-line lidar, depth camera, ultrasonic radar, wheel speedometer IMU, collision sensor, anti-fall sensor	

Add corridor lights, warning lights, and flash lights; cooperate with voice reminders to improve warning security in different scenarios
Scrubbing,Mopping can be replacement quickly, Mopping module upgrade, Scrubbing needn' t manual intervention.
Elevator, access control, automatic charging, automatic water drainage, continued working during power-off, no missed spots and corners

SC80P



	Basic
Cleaning width (mm)	1160
Squeegee width (mm)	1024
Continuous running time (h)	4-6(scrubber mode)
Vertical obstacle clearance height(cm)	2.5
Theoretical cleaning efficiency (㎡/h)	4000
Battery capacity (V/Ah)	36/200
Maximum driving speed(M/S)	1.5

	Basic
Trash bin capacity (L)	1.5
Solution tank capacity (L)	140
Recovery tank capacity (L)	170
Total weight (kg)	400
Product size (mm)	1340*1024*1350
Sensor configuration: 3D lidar*1, 2D lidar*1, RGBD*4, ultrasonic radar *6, collision sensor, anti-drop sensor, IMU, wheel speedometer	

Timed tasks, planned schedule and operation, task and data reports, supporting synchronous management from mini programs, apps, and web side
Roller brush pressure to the ground: 46kg, roller brush module adaptive lifting, light and heavy stains solved by one machine
Leading positioning and perception technology, multi-sensor fusion, intelligent identification of feature obstacles, escalators, isolation belts, forklifts, etc

S100N



	Basic
Cleaning width (mm)	1000
Continuous running time (h)	6
Side brush motor power (W)	60*2
Theoretical cleaning efficiency (㎡/h)	3000
Battery capacity (V/Ah)	24/200
Rolling brush motor power (W)	600

	Basic
Driving motor power (W)	1000
Water tank capacity (L)	60
Trash bin capacity (L)	60
Total weight (kg)	395
Product size (mm)	1706*927*1199
Sensor configuration:2D lidar*1, RGBD*5, ultrasonic radar *6, collision sensor, anti-drop sensor, IMU, wheel speedometer	

Break point resuming,automatic recall under low-battery conditions, automatic parking
Combination of main brush and side brush,cleaning rate>98%.
Large air volume vacuuming,side brush spray dust suppressing.

WSC50/WSC80 work station



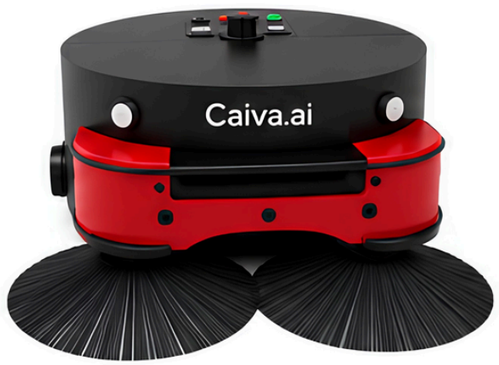
WSC50	
Input voltage	150~265VAC
Water filling speed	7~10L/min
Net weight	46kg
Maximum charging current	50±0.5A
Drainage speed	3~6L/min
Dimensions	530(L)x530(W)x1200(H)mm

WSC80	
Input voltage	150~265VAC
Water filling speed	8~11L/min
Net weight	43kg
Maximum charging current	40±0.5A
Drainage speed	4~7L/min
Dimensions	540(L)x420(W)x950(H)mm

The advanced automatic docking technology is used to realize the automatic return and charging of the unmanned, ensuring that the machine is fully charged at any time, extending the operation time, improving the cleaning efficiency, and achieving truly unlimited endurance.
It adopts multiple safety protection designs, including overload protection, short-circuit protection, etc. during the charging process to ensure a safe and reliable charging process, stable operation, reduce maintenance costs, and increase the service life.
The high-efficiency and energy-saving charging technology is used to reduce energy consumption and carbon emissions, which is in line with the concept of green cleaning, contributes to the environmental protection cause, and makes cleaning work more green and sustainable.

AUTO CLEANING ROBOTS

Monster Sweeping Robot



PRODUCT PARAMETER			
Brand	Reeman	Models	MBOT201
Product Size	745mm*690mm*391mm	Navigation method	Laser SLAM
Battery Type	38.4V/27Ah LiFePO4 battery	Sweeping method	Sweep the floor
Weights	40Kg	Sweeping routes	"弓"-shaped sweeping paths
Power	95W	Working method	Customisation
Endurance	9~10 hours	Number of side brushes	2
Charging time	4 hours	Roller Brush	1
Networking method	2.4G/5GHz	Dust box capacity	30L
Operation system	Android (operating system)	Sweeping width	890mm
Screen size	7" (Resolution 1024x600)	Sweeping efficiency	Max 1000m²/h
Sensors	Laser radar & Attitude Sensors	Climbing angle	12°

one-touch sweeping

Virtual Wall Setup

APP Intelligent Control

"弓" sweeping route

Automatic recharge

Built-in Li-FePO4 battery,
[illegible]
without manual operation.

RoboSweep



PRIMARY FUNCTION	
Primary Function	Washing, mopping & vacuuming
Ideal Use Case	Warehouses, large commercial areas
Dimensions (L×W+H)	503×503×629 mm
Weight	42 kg
Cleaning Width	440 mm
Cleaning Modes	Wash, mop, vacuum
Dust / Water Capacity	10 L clean + 10 L sewage tank
Navigation	2D LiDAR, vision, IMU
Obstacle Avoidance	TOF, ultrasonic, anti-drop
Speed	0.1–0.8 m/s
Cleaning Efficiency	~800 m²/hr
Battery Runtime	3 – 6 hours
Charging Time	1 hour
Noise Level	≤60dB
Control System	Touchscreen, app, cloud
Connectivity	4G / 5G / Wi-Fi
Maintenance	Standard industrial maintenance
Best Fit Environment	Large open industrial spaces
Special Features	Multi-mode cleaning

Roller brush pressure to the ground: 46kg, roller brush module adaptive lifting, light and heavy stains solved by one machine.
Timed tasks, planned schedule and operation, task and data reports, supporting synchronous management from mini programs, apps, and web side
Elevator, access control, automatic charging, automatic water drainage, continued working during power-off, no missed spots and corners

Sweep pro



PRIMARY FUNCTION	
Primary Function	Floor cleaning, mopping, vacuuming
Ideal Use Case	Hotels, restaurants, shopping malls, KTV
Dimensions (L×W+H)	540 × 440 × 590 mm
Weight	45 kg
Cleaning Width	< 52 cm
Cleaning Modes	Mop + vacuum + dust pushing
Dust / Water Capacity	12.5 L Clean + 11 L Sewage + 8L Dust bag
Navigation	LDS SLAM + VSLAM
Obstacle Avoidance	Vision-based
Speed	0.3 – 0.6 m/s
Cleaning Efficiency	400–700 m²/hr
Battery Runtime	5 –12 hours (max 6 hrs continuous)
Charging Time	1.5 hours
Noise Level	≤ 70dB
Control System	Android-based system
Connectivity	4G / 5G / Wi-Fi
Maintenance	Video technical support
Best Fit Environment	Large commercial indoor spaces
Special Features	Long runtime, big-area cleaning focus

Add corridor lights, warning lights, and flash lights ; cooperate with voice reminders to improve warning security in different scenarios

·Scrubbing, Mopping can be replacement quickly, Mopping module upgrade, Scrubbing needn't manual intervention.

·Elevator, access control, automatic charging, automatic water drainage, continued working during power-off, no missed spots and corners

Sweep pro Plus



PRIMARY FUNCTION	
Primary Function	Sweeping, scrubbing, vacuuming, mopping, dust pushing
Ideal Use Case	Hotels, office buildings, shopping malls, commercial complexes
Dimensions (L×W+H)	595 × 540 × 715 mm
Weight	50 kg
Cleaning Width	400 mm (scrub) / 500 mm (dust pushing)
Cleaning Modes	Sweep, scrub, vacuum, mop, dust push
Dust / Water Capacity	17 L clean + 14 L sewage
Navigation	LDS SLAM + vision + multi-sensor fusion
Obstacle Avoidance	Ultrasonic + ToF + vision
Speed	Up to 1 m/s
Cleaning Efficiency	500 – 1,400 m²/hr (mode-dependent)
Battery Runtime	2.5 – 12 hours (depends on cleaning mode)
Charging Time	Auto-charging
Noise Level	≤ 70 dB
Control System	Screen + app + cloud platform
Connectivity	Wi-Fi / 4G
Maintenance	Standard commercial maintenance
Best Fit Environment	Large indoor commercial environments
Special Features	Zero-gap wall cleaning, autonomous water handling, self-maintenance support

Timed tasks, planned schedule and operation, task and data reports, supporting synchronous management from mini programs, apps, and web side
Roller brush pressure to the ground: 45kg, roller brush module adaptive lifting, light and heavy stains solved by one machine
Leading positioning and perception technology, multi-sensor fusion, intelligent identification of feature obstacles, escalators, isolation belts, forklifts, etc

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AUTO CLEANING ROBOTS

MINI SWEEP



DIMENSIONS & WEIGHT	
Robot Dimensions (L×W×H)	490×610×750 mm (With Dust Push) 490×520×750 mm (Without Dust Push) 490×646×990 mm (Raise Handle)
Box Dimensions (L×W×H)	490×610×750 mm
Robot Weight	35kg (With Battery) 30kg (Without Battery)
Moving Speed	0.8 m/s
Slope Angle	≤ 8°

PERFORMANCE	
Cleaning Area	1500㎡/task (Under Full Charge)
Cleaning Efficiency	540㎡/h
Maximum Vacuum Degree	11000pa
Dust Collection	3.5L/bag
Maximum Cleaning Width	530mm (Double Side Brushes + Sweeping Brush)

BATTERY & CHARGING	
Battery Type	Ternary lithium battery
Battery Capacity	DC 25.6V 28.5Ah
Charging Mode	Automatic charging with the bundled charging pile and manual charging by recharger
Charging Time	5–6h

HARDWARE & SYSTEM	
Positioning Method	Laser Positioning
Sensing Techniques	LiDAR, Stereo Vision, Collision Sensor, Anti-fall Sensor
Sensor Coverage	Lidar detection range: 228°, ≤25M; 3D Stereo vision range: 120°, 0.1–1.5m
Network	Wi-Fi (2412–2472MHz)/4G
Operation Screen	7 inch (1920*1080)

KEY FEATURES

- Experience a hands-free clean – Sweeping, Dust Mopping, and Vacuuming functions of C30 make it easy.
- New screen handle design – You can adjust the screen to a comfortable height, providing a more convenient and comfortable cleaning experience.
- Experience a comprehensive clean – in addition to floor sweeping and Dust Mopping, the powerful 11000Pa suction of C30 ensures that it picks up every last speck of dust.
- Achieve maximum cleaning productivity – 540 /h cleaning speed and 1500 of coverage per charge.
- User friendly design – with the charging pile in front, charge and operate with ease.
- Safety is prioritized with the inclusion of three stereo vision sensors, which safeguarding both human and robot interactions.
- Easy maintenance – with quick-release features for all Mini Sweep components.

STORM SWEEP



PRODUCT PARAMETERS	
Size	160L * 120W * 122H (cm) 64L * 47W * 48H (in)
Weight	320kg (705lb)
Battery Weight	38kg (84lb)
Dustbin Volume	100L (26gal)
Average Battery Life	4–6 hours
Maximum Power	2000W (2.6hp)
Rated Voltage	48V
Sweeping Width	1200 mm (47.2in)
Cleaning Efficiency	Max4000 ㎡/h 43055ft²/h
Security System	Lidar, Vision Systems, Ultrasonic Sensors
Speed	0–8 km/h
Operating Temperature	-15°C ~ +60°C
Running Noise	55~70 dB (a)
Running Slope	≤12 degrees

KEY ADVANTAGES

- More Intelligence: High-precision mapping, intelligent trajectory planning, dynamic memory sweeping.
- More Efficiency: Up to 6 hours battery life, 24h Non-stop Operation, 100L large-capacity trash can.
- More Precise: LIDAR, Stereo Vision, Collision Sensor, Anti-fall Sensor for accurate operation.
- More Security: Multiple sensors for 360° perception without blind spots.
- More Economical: One machine equals four cleaners, reducing cleaning costs.
- More Technological: Technological appearance design, various appearance colors are optional.

FUNCTIONAL HIGHLIGHTS

- Cleaning in super large area scenes
- Automatic cleaning of the whole area
- Automatically clean the designated area
- Timing automatic cleaning operation function
- Built-in audio and LED screen
- Autonomous driving monitoring and patrolling
- Built-in camera
- Sweep along the edge
- Auto-avoidance
- Battery management and automatic charging system
- Energy saving technology
- AI warning technology
- Clean data report
- Notification
- API interface
- OTA remote update

AMR

ROBOTS



Caiv Mini Loaded

Compact Electric Stacker

Small in Size.
Big on Performance.

1000 kg
Rated Load Capacity

1,173 mm
Min. Turning Radius

1,300 mm
Max. Lifting Height

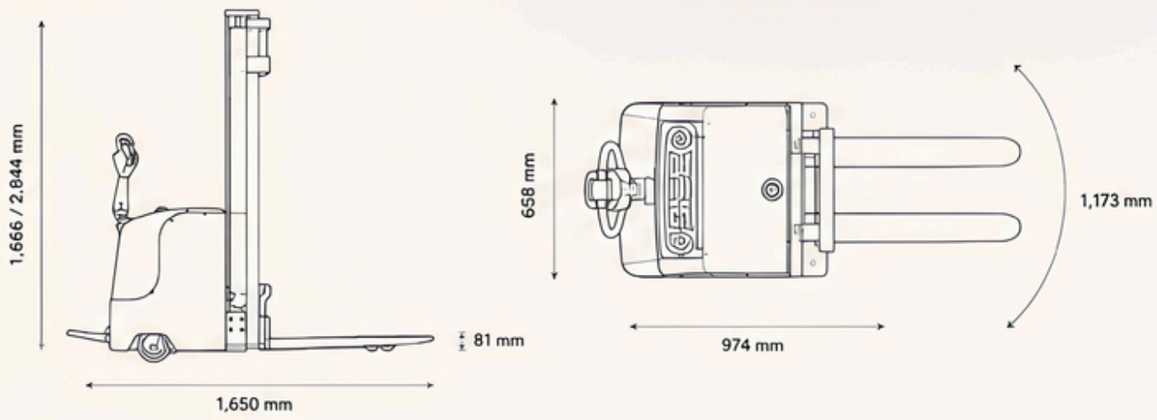
4.5 km/h
Max. Travel Speed

48V 15Ah
Lithium Battery

382 kg
Self-Weight (Est.)



DIMENSIONS



SPECIFICATIONS

General	Model Type	Compact Electric Stacker
	Rated Load Capacity	1,000 kg
	Load Center Distance	500 mm (Standard for 1T class)
	Driving Style	Walk-Behind
	Self-Weight (Est.)	382 kg (Confirmed)
Dimensions	Total Length	1,650 mm
	Vehicle Width	658 mm
	Wheelbase	974 mm
	Min. Turning Radius	1,173 mm
	Min. Ground Clearance	30 mm (Standard for PU wheels)
	Min. Fork Height	81 mm
Fork Specs	Fork Length	1,195 mm
	Fork Width (Single)	253 mm
	Fork Thickness	50 mm (Industry Std for 1T)
	Fork Outer Width	~560 mm (Calc: 253x2 + gap)
Lifting	Max. Lifting Height	1,300 mm
	Collapsed Mast Height	1,666 / 2,844 mm (Low / High)
	Lift Speed (No Load)	~25 mm/s (Est. based on 2.2kW motor)
	Lift Speed (Full Load)	~30 mm/s (Est. based on 2.2kW motor)
	Descending Speed	~35 mm/s (Est.)
Performance	Drive Motor Power	0.6 kW
	Lift Motor Power	2.2 kW
	Travel Speed (Max.)	4.5 km/h (Est. for 0.6kW)
	Gradeability (Full)	5° (~8.7%)
	Gradeability (Empty)	10° (~17.6%)
Power System	Battery Voltage	48V
	Battery Capacity	15 Ah (Lithium)
	Energy Content	720 Wh
	Runtime (Est.)	2–3 Hours (Intermittent)
	Braking System	Mechanical / Electric Regen
Wheels	Drive Wheel Size	Φ250 × 74 mm
	Front/Bearing Wheel	Φ80 × 60 mm
	Balance/Middle Wheel	Φ65 × 30 mm
	Tire Material	Super Polyurethane

FEATURES & BENEFITS

Ultra-Tight Spaces
Ideal for narrow aisles where turning radius is critical and loads are under 1 ton.

Superior Agility
Smallest turning radius (1.17m) and narrow body (658mm) for extremely tight corners.

Operator Comfort
Operator walks behind the unit. Can be pushed manually if battery dies or for very short distances.

Lifting Efficiency
Focused on stability rather than speed. Suitable for occasional lifts up to 1.3m.

Battery & Runtime
Modern 48V/15Ah Lithium battery. Lighter weight, no memory effect, ideal for intermittent use.

Safety Features
Silent operation with super polyurethane wheels ensures safe & quiet movement.

Floor Protection
Lowest fork entry (81mm) allows access to damaged pallets; lightweight design reduces floor stress.

Key Advantage
"The Space Saver": Fits where others can't turn.

Caistacker Mini

Walking Electric Stacker

Versatile. Reliable. Built for Everyday Warehouse Performance.

1500 kg
Rated Load Capacity

1,350 mm
Min. Turning Radius

3,000 mm
Max. Lifting Height

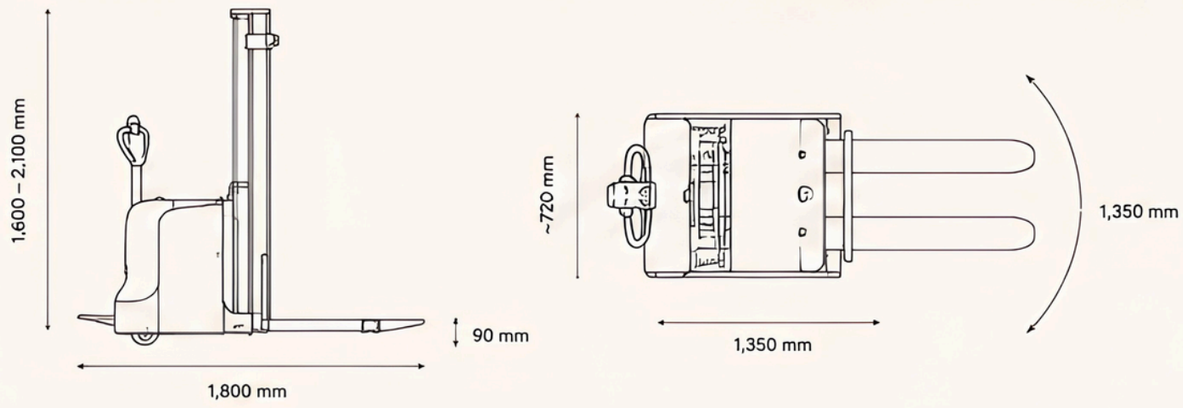
4.5 km/h
Max. Travel Speed

48V 30Ah
Lead-Acid Battery

~460 kg
Self-Weight (Est.)



DIMENSIONS



SPECIFICATIONS

General	Model Type	Walking Electric Stacker
	Rated Load Capacity	1,500 kg
	Load Center Distance	500 mm
	Driving Style	Walk-Behind
	Self-Weight (Est.)	~460 kg (Est. based on 1.5T frame)
Dimensions	Total Length	1,800 mm
	Vehicle Width	~720 mm (Est. based on 505mm track + tires)
	Wheelbase	1,350 mm
	Min. Turning Radius	1,350 mm
	Min. Ground Clearance	30 mm
	Min. Fork Height	90 mm
Fork Specs	Fork Length	1,000 mm
	Fork Width (Single)	160 mm
	Fork Thickness	55 mm
	Fork Outer Width	~480 mm (Calc: 160x2 + gap)
Lifting	Max. Lifting Height	1,600 / 2,000 / 2,500 / 3,000 mm
	Collapsed Mast Height	1,600 – 2,100 mm (Varies by option)
	Lift Speed (No Load)	23 mm/s
	Lift Speed (Full Load)	35 mm/s
	Descending Speed	30 – 38 mm/s
Performance	Drive Motor Power	0.75 kW
	Lift Motor Power	2.2 kW
	Travel Speed (Max.)	4.5 km/h (Est. for 0.75kW)
	Gradeability (Full)	~4% (Est. for 1.5T walkie)
	Gradeability (Empty)	~6% (Est.)
Power System	Battery Voltage	48V
	Battery Capacity	30 Ah (Lead-Acid)
	Energy Content	1,440 Wh
	Runtime (Est.)	4–6 Hours (Standard Shift)
	Braking System	Mechanical/ Electric Regen
Wheels	Drive Wheel Size	250 × 80 mm
	Front/Bearing Wheel	80 × 60 mm
	Balance/Middle Wheel	100 × 50 mm
	Tire Material	Polyurethane

FEATURES & BENEFITS

Versatile Warehousing
Best for general warehouse tasks requiring medium capacity (1.5T) and variable lifting heights.

Compact Walker
Good maneuverability for a walking stacker, but requires more space than the Caiv.

Ergonomic Handle
Easy-to-use ergonomic control handle designed to reduce wrist strain during operation.

Moderate Efficiency
Balanced speeds (35mm/s loaded). Efficient for standard pallet racking up to 3 meters.

Battery & Runtime
48V/30Ah lead-acid battery provides decent runtime for a standard 8-hour shift.

Stability Focus
Reinforced door frame and thickened forks provide robust safety for 1.5T loads.

Floor Protection
Standard 90mm entry; polyurethane wheels protect concrete floors.

Key Advantage
"The All-Rounder": Perfect balance of cost, capacity, and size for standard warehouses.

Walkie Stacker Mini

Stand-On Electric Stacker

Maximum Power. Superior Stability.
Built for Demanding Workloads.

2000 kg
Rated Load Capacity

1,619 mm
Min. Turning Radius

3,500 mm
Max. Lifting Height

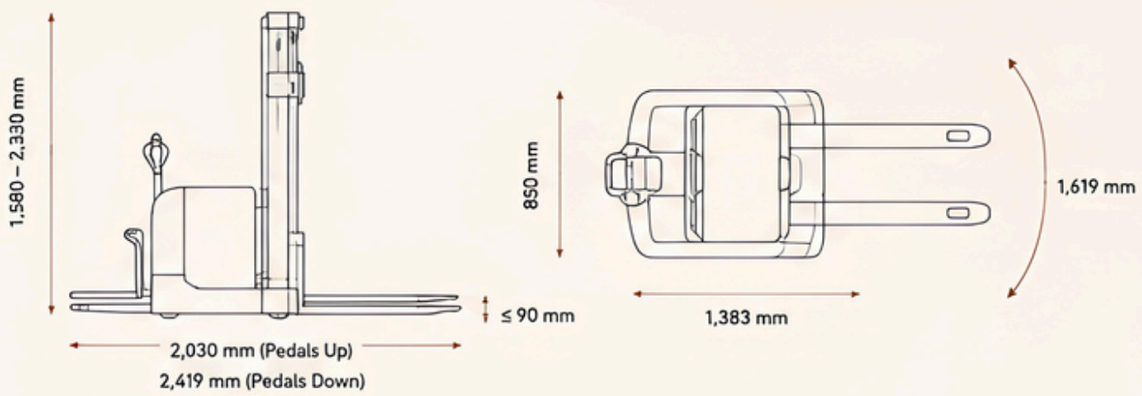
5.0 km/h
Max. Travel Speed (Unloaded)

24V 120Ah
Lead-Acid Battery

~650 kg
Self-Weight (Est.)



DIMENSIONS



SPECIFICATIONS

General	Model Type	Stand-On Electric Stacker
	Rated Load Capacity	2,000 kg
	Load Center Distance	500 mm
	Driving Style	Stand-On Platform
	Self-Weight (Est.)	~650 kg (Est. based on 2T frame + platform)
Dimensions	Total Length	2,030 mm (Pedals Up) 2,419 mm (Pedals Down)
	Vehicle Width	850 mm
	Wheelbase	1,383 mm
	Min. Turning Radius	1,619 mm (Pedals Retracted)
	Min. Ground Clearance	30 mm
	Min. Fork Height	≤ 90 mm
Fork Specs	Fork Length	1,000 mm
	Fork Width (Single)	160 mm
	Fork Thickness	55 mm
	Fork Outer Width	680 mm
Lifting	Max. Lifting Height	1,600 / 2,000 / 2,500 / 3,000 / 3,500 mm
	Collapsed Mast Height	1,580 – 2,330 mm (Varies by option)
	Lift Speed (No Load)	100 mm/s
	Lift Speed (Full Load)	50 mm/s
	Descending Speed	~45 mm/s (Est.)
Performance	Drive Motor Power	1.5 kW
	Lift Motor Power	2.2 kW
	Travel Speed (Max.)	5.0 km/h (Unloaded) 4.0 km/h (Loaded)
	Gradeability (Full)	5%
	Gradeability (Empty)	3%
Power System	Battery Voltage	24V (2 × 12V)
	Battery Capacity	120 Ah (Lead-Acid)
	Energy Content	2,880 Wh
	Runtime (Est.)	8+ Hours (Heavy Duty)
	Braking System	Electromagnetic Brake
Wheels	Drive Wheel Size	Φ250 × 80 mm
	Front/Bearing Wheel	Φ80 × 70 mm
	Balance/Middle Wheel	Φ125 × 40 mm
	Tire Material	Polyurethane

FEATURES & BENEFITS

High-Volume & Heavy Duty
Designed for frequent, heavy lifting (2T) to high shelves (3.5m) with operator comfort in mind.

Stable Platform
Largest footprint due to stand-on pedal, requiring wider aisles, but offers superior stability at height.

Premium Stand-Up
Includes a dedicated standing platform with pedals. Reduces operator fatigue significantly.

High Performance
Fastest lift speed (100mm/s empty; 50mm/s loaded). Drastically reduces cycle times in busy environments.

Heavy-Duty Endurance
Massive 120Ah capacity (24V system). Built for continuous, all-day operation without frequent recharging.

Advanced Braking
Equipped with an Electromagnetic Brake for instant stopping power and enhanced safety on slopes.

Floor Protection
Standard entry; heavier machine requires solid flooring but distributes weight well via larger balance wheels.

Key Advantage
"The Workhorse": Maximum power, speed, and height for demanding logistics centers.

ROBOT CHASSIS (HOT WHEELS)

CBOT11B

The robot chassis has multiple functions such as visual positioning, indoor navigation, and intelligent obstacle avoidance. It is mainly composed of core hardware such as lidar sensors, depth cameras, and modular positioning and navigation systems. Laser SLAM and V-SLAM multi-sensor fusion algorithms can plan the robot walking route more flexibly.



60 kg Load Capacity

0.5 s Obstacle Avoidance

Multi-mode Navigation

16 hrs Battery Life

Elevator Compatible

Auto Return to Charging

SPECIFICATIONS

Total Weight	36 kg
Universal Wheel Size	3 inches
Charging Time	4 ~ 5 hours
Battery Life	16 hours
Cruising Speed	0.1 m/s ~ 1 m/s
Load Bearing	60 kg
Battery Capacity	38.4V 25Ah (LiFePO4 battery)
Recharging Current	Max 3A
Current Consumption	1.3A
External Power Supply	42V, maximum current 10A
Rated Power Consumption	45W
Overall Size (L×W×H)	450 × 450 × 317 mm

KEY FEATURES

Large Carrying Capacity
60 kg super large carrying, stable and not deformed

Multi-mode Indoor Driverless Technology
Flexible collocation of V-SLAM + Laser SLAM

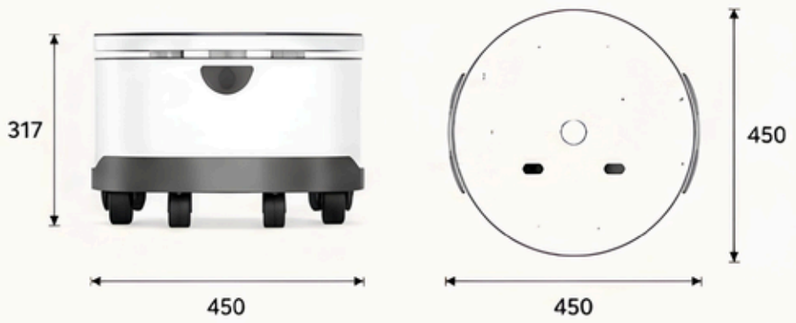
Intelligent Obstacle Avoidance in Seconds
Fast obstacle avoidance in 0.5 seconds, intelligent safety protection

Original Remote Deployment Capability
Remote automatic deployment, convenient and efficient

Automatic Return to Charging
Battery is too low, automatically return to charging

Take the Elevator Autonomously (Expandable)
Can be linked with the elevator control system to work across floors

DIMENSIONS (mm)



Custom Size

Width: 1517 px

Height: 1037 px

DELIVERING VALUE ACROSS INDUSTRIES

Warehousing | Manufacturing | Retail & E-Commerce | Hospitals | Office & Commercial Buildings

Reliable. Intelligent. Ready to Integrate.
The CBOT11B robot chassis is your trusted foundation for next-generation automation.

CaiBov Delivery Robot

The CaiBov Delivery Robot has a 600KG capacity. It is equipped with SLAM 2.0 autonomous positioning and navigation system developed by Reeman. No need any code, the robot can realize the high accuracy of navigation and position. Open SDK platform, provide API interface, support customized development services to meet different robot development needs.

600kg Extra Large Load Capacity

Autonomous Obstacle Avoidance

Laser Navigation, No Code Required

Open SDK Platform



600kg Extra Large Load Capacity
Large load capacity for a wider range of applications

Autonomous Obstacle Avoidance
Front-facing 3D cameras and laser radar for real-time awareness of dynamic surroundings

Laser Navigation, No Code Required
Extremely scalable, allowing users to customise the upper layer of the application architecture according to their actual needs

DETAILED PARAMETERS

Applicable Scene	Products are widely used in factory workshops, libraries, hazardous locations, logistics and storage, special industries
Product Size	900mm (L) × 650mm (W) × 340 mm (H)
Maximum Load Capacity	600KG
Endurance	8h fully loaded, 25h unloaded
Product Weight	About 115KG
Charging Time	About 6h

Travel Speed	0.1~1m/s
Navigation Accuracy	±10cm
Product Material	Sheet metal
Gyroscope	Single-axis gyroscope
Motor Drive	5.5" hub motor
Adapters	Input: AC110-240V 50-60HZ Output: 43.2V-5A
Charging Pile Parameters	Overcurrent protection, intelligent power failure, output rated voltage: 43.2V DC Output rated current: 5A

STRUCTURE DIAGRAM



CUSTOM SIZE

Width: 1517 px

Height: 1037 px

OPEN SDK
Completely open software and hardware platform, providing application development and SDK access

REDUCE DEVELOPMENT COSTS
Shorten development cycles and reduce R&D investment costs

REMOTE NAVIGATION DEPLOYMENT
Reduce labor costs and improve work efficiency

SUPPORT CUSTOMIZED DEVELOPMENT
Can be customized according to the actual needs of users

Caiva T1
Factory Delivery Robot

Caiva T1 factory delivery robot, 100KG large load capacity, 3D camera, active obstacle avoidance, laser navigation, no need to paste the code, central scheduling system, multi-machine collaboration, orderly operation, support for remote one-key call, support for patting on and off the lift, automatic control of the electric door, to meet the needs of a variety of complex scenarios under the use of demand.



100 KG

Extra Large Load Capacity

Large load capacity for a wider range of applications

Autonomous Obstacle Avoidance

Front-facing 3D cameras and laser radar for real-time awareness of dynamic surroundings

Autonomous dispatch system

Robotics unique autonomous scheduling system, multi-machine collaboration, orderly operation, orderly operation

Autonomous up and down lifts

Support the docking of ladder convey systems, cross-floor execution of delivery tasks

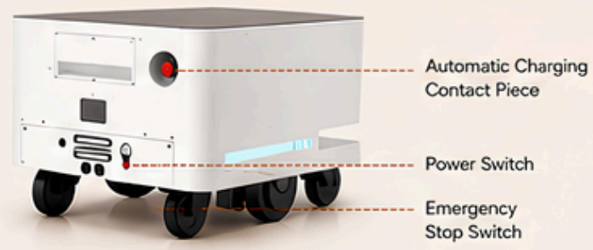
DETAILED PARAMETERS

Applicable Scene	Products are widely used in factory workshops, libraries, hazardous locations, logistics and storage, special industries
Product Size	704mm(L)x470mm(W)x1148mm(H)
Maximum Load Capacity	100KG
Endurance	12h fully loaded, 22h unloaded
Product Weight	About 55KG
Charging Time	About 6h

Travel Speed	0.1~1m/s
Navigation Accuracy	±10cm
Product Material	Sheet metal
Gyroscope	Single-axis gyroscope
Motor Drive	5.5 " hub motor
Adapters	Input: AC110~240V 50~60HZ Output: 43.2V~5A
Charging Pile Parameters	Overcurrent protection, intelligent power failure, over voltage protection, 43.2V DC output rated current: 5A

STRUCTURE DIAGRAM





OPEN SDK

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REDUCE DEVELOPMENT COSTS

Shorten development cycles and reduce R&D investment costs

REMOTE NAVIGATION DEPLOYMENT

Reduce labor costs and improve work efficiency

SUPPORT CUSTOMIZED DEVELOPMENT

Can be customized according to the actual needs of users

Caiva T1 Tower

Factory Delivery Robot

Caiva T1 Tower factory delivery robot, 100KG large load capacity, 3D camera+laser and Single-line LIDAR(60 meters), active obstacle avoidance, laser navigation, no need to paste the code, central scheduling system, multi-machine collaboration, orderly operation, support for remote one-key call, support for getting on and off the lift, automatic control of the electric door, to meet the needs of a variety of complex scenarios under the use of demand.

100KG Extra Large Load Capacity

3D Camera + Laser Perception

Single-line LIDAR (60 Meters)

Autonomous Dispatch System

Autonomous Up and Down Lifts



Extra Large Load Capacity

Large load capacity for a wider range of applications

Autonomous Obstacle Avoidance

Front-facing 3D cameras and laser radar for real-time awareness of dynamic surroundings

Autonomous dispatch system

Reeman Robotics' unique autonomous scheduling system, multi-machine collaboration, orderly operation, orderly operation

Autonomous up and down lifts

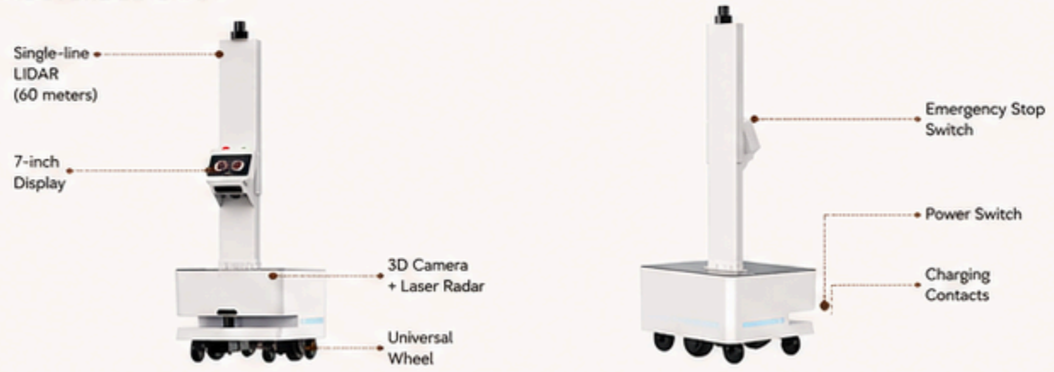
Support the docking of ladder control system, cross-floor execution of delivery tasks

DETAILED PARAMETERS

Applicable Scene	Products are widely used in factory workshops, libraries, hazardous locations, logistics and storage, special industries
Product Size	704mm(L)x470mm(W)x1820mm(H)
Maximum Load Capacity	100KG
Endurance	12h fully loaded, 22h unloaded
Product Weight	About 55KG
Charging Time	About 6h

Travel Speed	0.1~1m/s
Navigation Accuracy	±10cm
Product Material	Sheet metal
Gyroscope	Single-axis gyroscope
Motor Drive	5.5" hub motor
Adapters	Input: AC110~240V 50~60HZ Output: 43.2V-5A
Charging Pile Parameters	Overcurrent protection, intelligent power failure, output rated voltage: 43.2V DC Output rated current: 5A

STRUCTURE DIAGRAM



OPEN SDK

Completely open software and hardware platform, providing application development and SDK access

REDUCE DEVELOPMENT COSTS

Shorten development cycles and reduce R&D investment costs

REMOTE NAVIGATION DEPLOYMENT

Reduce labor costs and improve work efficiency

SUPPORT CUSTOMIZED DEVELOPMENT

Can be customized according to the actual needs of users

Caiva T1 Pro

Factory Delivery Robot

Caiva T1 Pro factory delivery robot, 100KG large load capacity, 3D camera+Dual laser and Single-line LIDAR(60 meters), active obstacle avoidance, laser navigation, no need to paste the code, central scheduling system, multi-machine collaboration, orderly operation, support for remote one-key call, support for getting on and off the lift, automatic control of the electric door, to meet the needs of a variety of complex scenarios under the use of demand.



- 100KG Extra Large Load Capacity
- 3D Camera + Dual Laser Perception
- Dual Laser Navigation
- Single-line LIDAR (60 Meters)
- Autonomous Dispatch System
- Autonomous Up and Down Lifts

Extra Large Load Capacity

Large load capacity for a wider range of applications

Autonomous Obstacle Avoidance

Front-facing 3D cameras, dual laser radar for real-time awareness of dynamic surroundings

Autonomous dispatch system

Reeman Robotics' unique autonomous scheduling system, multi-machine collaboration, orderly operation, orderly operation

Autonomous up and down lifts

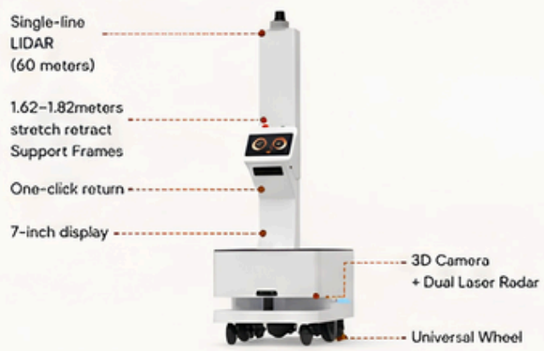
Support the docking of ladder control system, cross-floor execution of delivery tasks

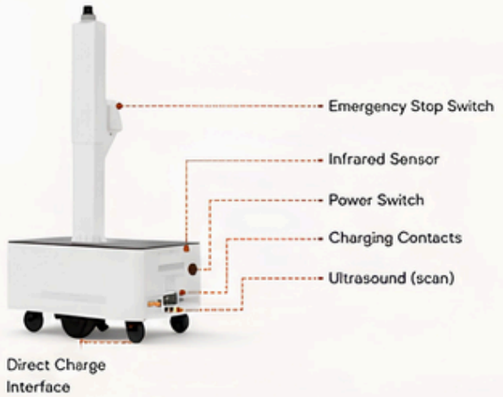
DETAILED PARAMETERS

Applicable Scene	Products are widely used in factory workshops, libraries, hazardous locations, logistics and storage, special industries
Product Size	704mm(L)x470mm(W)x1820mm(H)
Maximum Load Capacity	100KG
Endurance	8h fully loaded, 15h unloaded
Product Weight	About 60KG
Charging Time	About 6h

Travel Speed	0.1-1m/s
Navigation Accuracy	±10cm
Product Material	Sheet metal
Gyroscope	Single-axis gyroscope
Motor Drive	5.5" hub motor
Adapters	Input: AC110-240V 50-60HZ Output: 43.2V-5A
Charging Pile Parameters	Overcurrent protection, intelligent power failure, output rated voltage: 43.2V DC Output rated current: 5A

STRUCTURE DIAGRAM





OPEN SDK

Completely open software and hardware platform, providing application development and SDK access

REDUCE DEVELOPMENT COSTS

Shorten development cycles and reduce R&D investment costs

REMOTE NAVIGATION DEPLOYMENT

Reduce labor costs and improve work efficiency

SUPPORT CUSTOMIZED DEVELOPMENT

Can be customized according to the actual needs of users

Caiva T3 lite

Factory Delivery Robot

Caiva T3 lite factory delivery robot, 300KG large load capacity, 10cm lifting height, equipped with Reeman self-developed SLAM 2.0 autonomous positioning and navigation system, no need to paste the code, high-precision navigation and positioning, autonomous obstacle avoidance, one-key call, autonomous ride on the lift (optional), Open SDK platform, provide API interface, support customized development services, to meet the handling needs of different factories



- 300KG Extra Large Load Capacity
- 3D Camera + Laser Perception
- 10cm Lifting Height
- SLAM 2.0 Navigation
- Autonomous Dispatch System
- Autonomous Up and Down Lifts

Extra Large Load Capacity
Large load capacity for a wider range of applications

Autonomous Obstacle Avoidance
Front-facing 3D cameras and laser radar for real-time awareness of dynamic surroundings

SLAM 2.0 Navigation, High Precision
Self-developed SLAM 2.0 system combines laser and visual fusion for accurate navigation and positioning

Open SDK Platform
Provide API interface, support customized development services to meet diverse application needs

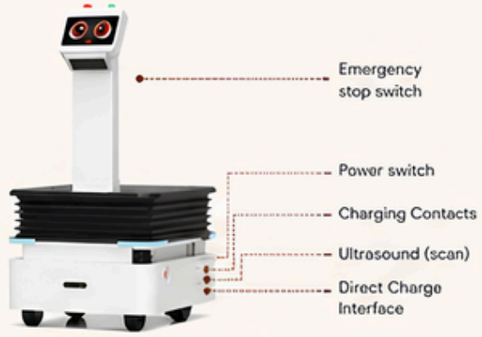
DETAILED PARAMETERS

Applicable Scene	Products are widely used in factory workshops, libraries, hazardous locations, logistics and storage, special industries
Product Size	891.6mm(L)x560mm(W)x1160mm(H)
Maximum Load Capacity	300KG
Endurance	8h fully loaded, 25h unloaded
Product Weight	About 70KG
Charging Time	About 6h

Travel Speed	0.1~1m/s
Navigation Accuracy	±10cm
Product Material	Sheet metal
Gyroscope	Single-axis gyroscope
Motor Drive	5.5" hub motor
Adapters	Input: AC110~240V 50~60HZ Output: 43.2V~5A
Charging Pile Parameters	Overcurrent protection, intelligent power failure, output rated voltage: 43.2V DC Output rated current: 5A

STRUCTURE DIAGRAM





OPEN SDK
Completely open software and hardware platform, providing application development and SDK access

REDUCE DEVELOPMENT COSTS
Shorten development cycles and reduce R&D investment costs

REMOTE NAVIGATION DEPLOYMENT
Reduce labor costs and improve work efficiency

SUPPORT CUSTOMIZED DEVELOPMENT
Can be customized according to the actual needs of users

Caiva T3 Pro

Factory Delivery Robot

Caiva T3 Pro factory delivery robot, 300KG large load capacity, 10cm lifting height, equipped with Reeman self-developed SLAM 2.0 autonomous positioning and navigation system, no need to paste the code, high-precision navigation and positioning, autonomous obstacle avoidance, one-key call, autonomous ride on the lift (optional), Open SDK platform, provide API interface, support customized development services, to meet the handling needs of different factories



- 300KG Extra Large Load Capacity
- 3D Camera + Dual Laser Perception
- 10cm Lifting Height
- SLAM 2.0 Navigation
- Autonomous Dispatch System
- Autonomous Up and Down Lifts

Extra Large Load Capacity
Large load capacity for a wider range of applications

Autonomous Obstacle Avoidance
Front-facing 3D cameras + dual laser radar for real-time awareness of dynamic surroundings

SLAM 2.0 Navigation, High Precision
Self-developed SLAM 2.0 system combines laser and visual fusion for accurate navigation and positioning

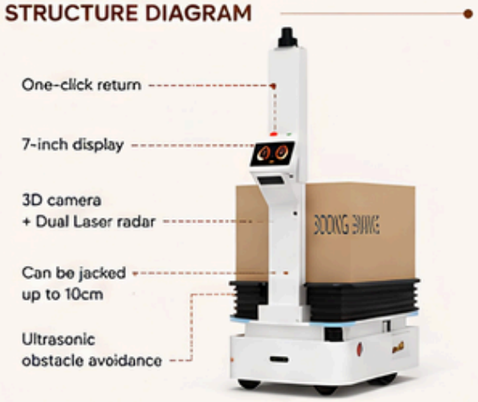
Open SDK Platform
Provide API interface, support customized development services to meet diverse application needs

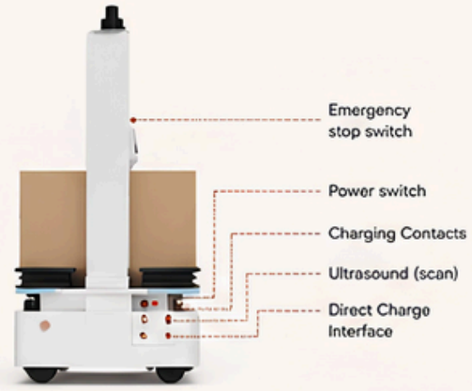
DETAILED PARAMETERS

Applicable Scene	Products are widely used in factory workshops, libraries, hazardous locations, logistics and storage, special industries
Product Size	791.6mm(L)x560mm(W)x1682mm(H)
Maximum Load Capacity	300KG
Endurance	8h fully loaded, 15h unloaded
Product Weight	About 92KG
Charging Time	About 6h

Travel Speed	0.1~1m/s
Navigation Accuracy	±1cm
Product Material	Sheet metal
Gyroscope	Single-axis gyroscope
Motor Drive	5.5" hub motor
Adapters	Input: AC110~240V 50~60HZ Output: 43.2V~6.5A
Charging Pile Parameters	Overcurrent protection, intelligent power failure, output rated voltage: 43.2V DC Output rated current: 6.5A

STRUCTURE DIAGRAM





OPEN SDK
Completely open software and hardware platform, providing application development and SDK access

REDUCE DEVELOPMENT COSTS
Shorten development cycles and reduce R&D investment costs

REMOTE NAVIGATION DEPLOYMENT
Reduce labor costs and improve work efficiency

SUPPORT CUSTOMIZED DEVELOPMENT
Can be customized according to the actual needs of users

Caiva T3 Max

Factory Delivery Robot

Caiva T3 Max factory delivery robot, 300KG large load capacity, 10cm lifting height, equipped with Reeman self-developed SLAM 2.0 autonomous positioning and navigation system, no need to paste the code, high-precision navigation and positioning, autonomous obstacle avoidance, one-key call, autonomous ride on the lift (optional), Open SDK platform, provide API interface, support customized development services, to meet the handling needs of different factories



- 300KG Extra Large Load Capacity
- 3D Camera + Dual Laser Perception
- 10cm Lifting Height
- SLAM 2.0 Navigation
- Autonomous Dispatch System
- Autonomous Up and Down Lifts

Extra Large Load Capacity
Large load capacity for a wider range of applications

Autonomous Obstacle Avoidance
Front-facing 3D cameras + dual laser radar for real-time awareness of dynamic surroundings

SLAM 2.0 Navigation, High Precision
Self-developed SLAM 2.0 system combines laser and visual fusion for accurate navigation and positioning

Open SDK Platform
Provide API interface, support customized development services to meet diverse application needs

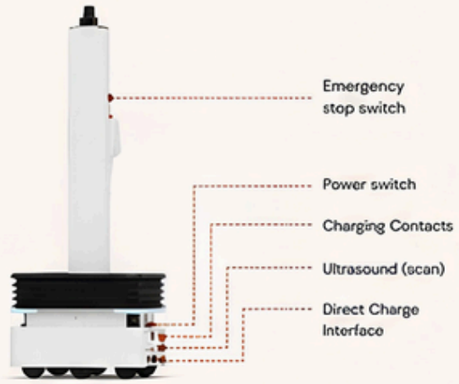
DETAILED PARAMETERS

Applicable Scene	Products are widely used in factory workshops, libraries, hazardous locations, logistics and storage, special industries
Product Size	791.6mm(L)x560mm(W)x2085mm(H)
Maximum Load Capacity	300KG
Endurance	8h fully loaded, 15h unloaded
Product Weight	About 96.5KG
Charging Time	About 6h

Travel Speed	0.1-1m/s
Navigation Accuracy	±1cm
Product Material	Sheet metal
Gyroscope	Single-axis gyroscope
Motor Drive	5.5" hub motor
Adapters	Input: AC110-240V 50-60HZ Output: 43.2V-6.5A
Charging P&e Parameters	Overcurrent protection, intelligent power failure, output rated voltage: 43.2V DC Output rated current: 6.5A

STRUCTURE DIAGRAM





OPEN SDK
Completely open software and hardware platform, providing application development and SDK access

REDUCE DEVELOPMENT COSTS
Shorten development cycles and reduce R&D investment costs

REMOTE NAVIGATION DEPLOYMENT
Reduce labor costs and improve work efficiency

SUPPORT CUSTOMIZED DEVELOPMENT
Can be customized according to the actual needs of users

Caiva L10-10

Autonomous Forklift

Caiva L10-10 Autonomous Forklift has 1T load capacity and 1m lifting height, equipped with Reeman self-developed SLAM 2.0 autonomous positioning and navigation system, no need for reflectors, with various sensors such as 3D obstacle avoidance, safety edge contact for 360° three-dimensional safety protection, suitable for multiple scenarios such as material handling and pallet stacking.



1T Load Capacity | 1m Lifting Height | 3D Obstacle Avoidance | SLAM 2.0 Navigation | Automatic Recharge | Laser Mapping

1T Load Capacity

Strong load capacity for efficient material handling and transportation

3D Obstacle Avoidance

Equipped with 3D cameras and multiple sensors for comprehensive obstacle detection and avoidance

SLAM 2.0 Navigation

Reeman self-developed SLAM 2.0 system, no need for reflectors, high-precision positioning and stable navigation

Automatic Recharge

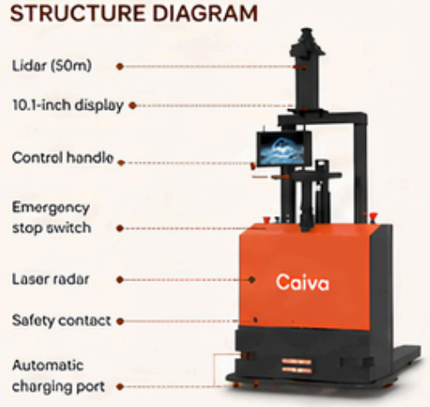
Automatic return to charging, fully charged in 1 hour, 24/7 continuous operation

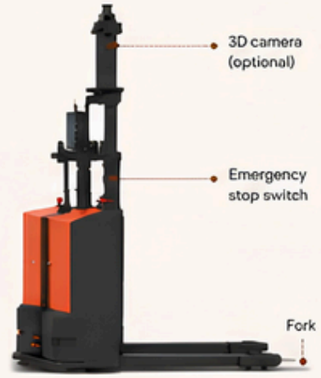
DETAILED PARAMETERS

Applicable Scenarios	Widely used in logistics, manufacturing, factory floors, ports, stations, airports, warehouses, distribution centres and other scenarios.
Product Size	1350mm(L)x 920mm(W)x1680mm(H)
Max Load	1000KG
Battery Life	Full load range 6 hours, no load range 8 hours
Lifting Height	1000mm
Weight	About 430KG

Navigation Accuracy	±10mm
Min. Aisle Width	1.1m (Pallet 1000x1200mm)
Turning Radius	1.3m (in-situ rotation)
Travel Speed	0.1-1.5m/s
Operation Type	Walking & Automatic
Charging Time	About 1 hour
Battery Capacity	48V/50AH LiFePO4 Battery
Lidar	50m single line LIDAR

STRUCTURE DIAGRAM





OPEN SDK

Completely open software and hardware platform, providing application development and SDK access

REDUCE DEVELOPMENT COSTS

Shorten development cycles and reduce R&D investment costs

REMOTE NAVIGATION DEPLOYMENT

Reduce labor costs and improve work efficiency

SUPPORT CUSTOMIZED DEVELOPMENT

Can be customized according to the actual needs of users

Caiva L15-Lo

Autonomous Forklift

Caiva L15-Lo Autonomous Forklift has 1.5T load capacity and low-profile fork height of 85mm, designed for low-clearance pallet handling. Equipped with Reeman self-developed SLAM 2.0 autonomous positioning and navigation system, no need for reflectors, with various sensors such as 3D obstacle avoidance, safety edge contact for 360° three-dimensional safety protection, suitable for multiple scenarios such as material handling and pallet stacking.

- 1.5T Load Capacity
- Low Profile Fork Height (85mm)
- 3D Obstacle Avoidance
- SLAM 2.0 Navigation
- Automatic Recharge
- Laser Mapping



1.5T Load Capacity

Strong load capacity for efficient material handling and transportation

3D Obstacle Avoidance

Equipped with 3D cameras and multiple sensors for comprehensive obstacle detection and avoidance

SLAM 2.0 Navigation

Reeman self-developed SLAM 2.0 system, no need for reflectors, high-precision positioning and stable navigation

Automatic Recharge

Automatic return to charging, fully charged in 1 hour, 24/7 continuous operation

DETAILED PARAMETERS

Applicable Scenarios	Widely used in logistics, manufacturing, factory floors, ports, stations, airports, freight yards, warehouses, distribution centres and distribution centres.
Product Size	1690mm(L)x1090mm(W)x1985mm(H)
Fork Dimensions	1150mm/160mm/85mm (L/W/H)
Max Load	1500KG
Fork Lifting Height	2.5m
Weight	About 1800KG

Charging Time	4 hours/120Ah
Battery Life	Full load range 6 hours, no load range 8 hours
Navigation Accuracy	±10mm
Turning Radius	1248mm
Travel Speed	0.1–1.5m/s
Battery Capacity	48V/100AH LiFePO4 Battery
Lidar	50m single line LIDAR

STRUCTURE DIAGRAM





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REMOTE NAVIGATION DEPLOYMENT

Reduce labor costs and improve work efficiency

SUPPORT CUSTOMIZED DEVELOPMENT

Can be customized according to the actual needs of users

Caiva L15-25

Autonomous Forklift

Caiva L15-25 Autonomous Forklift has 1.5T load capacity and 2.5m lifting height, designed for high-level shelving and multi-layer stacking. Equipped with Reeman self-developed SLAM 2.0 autonomous positioning and navigation system, no need for reflectors, with various sensors such as 3D dbstacle avoidance, safety edge contact for 360° three-dimensional safety protection, suitable for multiple scenarios such as material handling and pallet stacking.



1.5T Load Capacity | 2.5m Lifting Height | 3D Obstacle Avoidance | SLAM 2.0 Navigation | Automatic Recharge | Laser Mapping

1.5T Load Capacity
Strong load capacity for efficient material handling and transportation

3D Obstacle Avoidance
Equipped with 3D cameras and multiple sensors for comprehensive obstacle detection and avoidance

SLAM 2.0 Navigation
Reeman self-developed SLAM 2.0 system, no need for reflectors, high-precision positioning and stable navigation

Automatic Recharge
Automatic return to charging, fully charged in 1 hour, 24/7 continuous operation

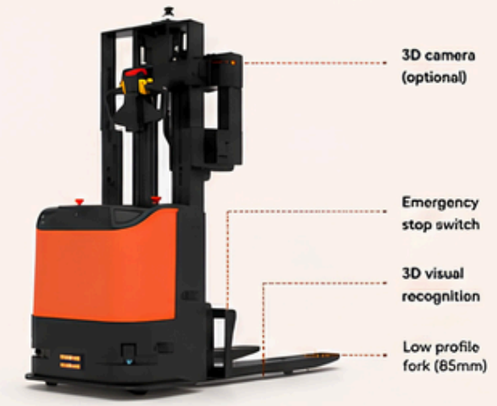
DETAILED PARAMETERS

Applicable Scenarios	Widely used in logistics, manufacturing, factory floors, ports, stations, airports, freight yards, warehouses, distribution centres and distribution centres.
Product Size	1927mm(L)x911mm(W)x1099mm(H)
Fork Dimensions	1150mm/160mm/85mm (L/W/H)
Max Load	1500KG
Fork Lifting Height	2.5m
Weight	About 1800KG

Charging Time	4 hours/120ah
Battery Life	Full load range 6 hours, no load range 8 hours
Navigation Accuracy	±10mm
Turning Radius	1248mm
Travel Speed	0.1–1.5m/s
Battery Capacity	48V/100AH LiFePO4 Battery
Lidar	50m single line LiDAR

STRUCTURE DIAGRAM





OPEN SDK
Completely open software and hardware platform, providing application development and SDK access

REDUCE DEVELOPMENT COSTS
Shorten development cycles and reduce R&D investment costs

REMOTE NAVIGATION DEPLOYMENT
Reduce labor costs and improve work efficiency

SUPPORT CUSTOMIZED DEVELOPMENT
Can be customized according to the actual needs of users

Caiva L12-CB

Counterbalanced Autonomous Forklift

Caiva L12-CB Counterbalanced Autonomous Forklift has 1.2T load capacity and 3.0m lifting height, equipped with counterbalanced structure for enhanced stability and safety. Powered by Reeman self-developed SLAM 2.0 autonomous positioning and navigation system, no need for reflectors, with various sensors such as 3D obstacle avoidance, safety edge contact for 360° three-dimensional safety protection, suitable for material handling, stacking, and multi-scenario logistics operations.



1.2T Load Capacity

3.0m Lifting Height

Counterbalanced Design

3D Obstacle Avoidance

SLAM 2.0 Navigation

Automatic Recharge

1.2T Load Capacity

Strong load capacity for efficient material handling and transportation

Counterbalanced Design

Counterbalanced structure ensures higher stability and operational safety

SLAM 2.0 Navigation

Reeman self-developed SLAM 2.0 system, no need for reflectors, high-precision positioning and stable navigation

Automatic Recharge

Automatic return to charging, fully charged in 1 hour, 24/7 continuous operation

DETAILED PARAMETERS

Applicable Scenarios	Widely used in logistics, manufacturing, factory floors, ports, stations, airports, freight yards, warehouses, distribution centres and distribution centres.
Product Size	1934mm(L)x1096mm(W)x2050mm(H)
Max Load	1200KG
Lifting Height	3.0m
Weight	About 1600KG
Turning Radius	1740mm

Travel Speed	0.1~1.5m/s
Navigation Accuracy	±10mm
Battery Life	Full load range 6 hours, no load range 8 hours
Charging Time	1 hour
Battery Capacity	48V/200AH LiFePO4 Battery
Lidar	50m single line LiDAR

STRUCTURE DIAGRAM



OPEN SDK

Completely open software and hardware platform, providing application development and SDK access

REDUCE DEVELOPMENT COSTS

Shorten development cycles and reduce R&D investment costs

REMOTE NAVIGATION DEPLOYMENT

Reduce labor costs and improve work efficiency

SUPPORT CUSTOMIZED DEVELOPMENT

Can be customized according to the actual needs of users

GL-LD SERIES
VACUUM LIFTER

SMALL SIZE, EASY TO TRANSPORT.

Special design for handling difference kind of heavy plate, such as steel, glass, granite, marble and so forth, with vacuum suction caps.

Customization is accepted.



GL-LD series Vacuum Lifter: small size, easy to transport.

Model Type		GL-LD-300	GL-LD-400	GL-LD-500	GL-LD-600	GL-LD-800
Load Capacity		300kg (arm retract)	400kg (retract)	500kg (retract)	600kg (retract)	800kg (retract)
		150kg (extend)	200kg (extend)	250kg (extend)	300kg (extend)	400kg (extend)
Lifting Height		3500mm	3500mm	3700mm	3700mm	5000mm
Suction Cups		4pcs,Ø300mm	4pcs,Ø300mm	6pcs,Ø300mm	6pcs,Ø300mm	8pcs,Ø300mm
Deep Cycle Battery		2x12V/80AH	2x12V/100AH	2x12V/120AH	2x12V/120AH	2x12V/120AH
Battery Charger		Smart Charger	Smart Charger	Smart Charger	Smart Charger	Smart Charger
Drive Motor		24V/1200W	24V/600W	24V/900W	24V/900W	24V/1200W
Lifting Motor		24V/2000W/5L	24V/2000W/5L	24V/2000W/5L	24V/2000W/5L	24V/2000W/12L
Chassis L*W		2660*810mm	2660*810mm	2800*810mm	2800*810mm	2800*810mm
Driving Wheel		Ø250x80mm	Ø250x80mm	Ø300x100mm	Ø300x100mm	Ø300x125mm
N.W/G.W		1100/1150kg	1280/1330kg	1300/1350kg	1400/1450kg	1600/1650kg
Packing Size		2560x1030x1700mm		2580x1050x1700mm		300x1250x2300mm
Movement	Automatic (4kinds)	1. Pad frame vertical up/down 180°automatic				
		2. Boom in/out 610/760mm automatic				
		3. Powered arm lifty up/down automatic				
		4. Lateral side shift 100mm automatic				
	Manual (2kinds)	5. Pad frame tilt left/right 90° manual (Pls look at Optional 1. automatic turn lift/right)				
		6. Pad frame rotation 360°manual (Pls look at Optional 2. automatic rotation 360°)				
Optional(Extra charged)		Optional1>Need pad frame automatic tilt left/right 90°				
		Optional2>Need pad frame automatic rotation 360°				
		Optional3>Need proportional valve remote control with lifting speed is adjustable				
		Optional4>Use maintenance free lead acid battery				

COMPACT DESIGN
Easy to Transport

MULTI-MATERIAL HANDLING
Steel, Glass, Granite, Marble

CUSTOMIZABLE OPTIONS
Fit Your Needs

SAFE & EFFICIENT
Vacuum Suction Technology

CE

RYG-F
WALKING TYPE GLASS MANIPULATOR

VACUUM LIFTER INSTALLING ROBOT



MAX. LOAD
600 / 800 KG

LIFTING HEIGHT
3700 / 4500 MM

BATTERY POWERED
24V DC

INTELLIGENT CONTROL SYSTEM

DUAL VACUUM SYSTEM

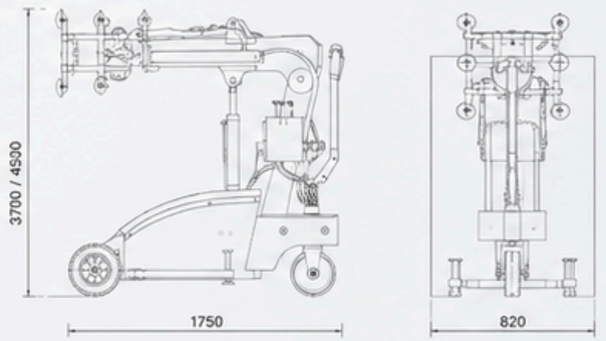
STRONG POWER STEADY & SAFE

EFFICIENT ENERGY SAVING

SPECIFICATIONS

MODEL		RYG-F
Driving Mode	/	Front Axle Drive
Max. Load	kg	600 / 800
Rotating	°	Manual 360° (Automatic type for optional)
Turn to Side	°	Manual 90° (Automatic type for optional)
Lifting Height	mm	3700 / 4500
Manipulation	/	Walkie Type
Power	/	Tractive-type Free Maintenance Battery
Controling Type	/	Stepless adjusting speed
Battery	V/Ah	2*12/120
Charger	V/A	24/18
Climbing gradient	%	15
Braking type	/	Electromagnetic braking
Driving Motor	V/W	24/2200 / 24/2500
Lifting Motor	V/W	24/2200
Front Wheel Size	mm	Φ466*195 (Pneumatic Tires)
Front Wheel Qty	pcs	2 (2+2 Dual wheel optional)
Rear Wheel Size	mm	Solid Φ400*100 (Pneumatic tires for optional)
Rear Wheel Qty	pcs	2
Pads Size	mm	Φ300
Pads Qty	pcs	6 / 8

DIMENSIONS





WORKING POSITION



MAX. LIFT POSITION

FEATURES & ADVANTAGES

1. Front driving, rough terrain wheels
Can walk on bad situation road.
Strong power, steady lifting and lowering.

2. Intelligent control system
DC24V reliable actuators for lifting, extension and tilting.

3. High-quality components
Japan Panasonic sensor and Taiwan Airtac pneumatic controller system, no external air source is required.

4. Dual vacuum system
One for normal operation and the other as spare system.

5. Premium quality & maintenance-free
High quality vacuum pump, hydraulic pump, as well as maintenance-free battery.

6. Pressure auto-maintaining system
Even if power fails, pressure remains, safer to use.

7. Independent Air Inlets
Each suction cup can be disabled individually if not all are needed.

8. Side shift function
For easier installing, without driving the machine. (50+50mm)

9. Integrated control system
Secures quick and automatic operating.

10.Competitive advantages
Competitive price, staff saving and strong improvement of working environment.

DETAILS



CONTROL PANEL



BATTERY (24V DC)



VACUUM PUMP UNIT



SUCTION CUP FRAME

Max. Load 600 / 800 KG | Lifting Height 3700 / 4500 MM | Battery Power 24V DC | Dual Vacuum System Safe & Reliable | Walkie Type Flexible Operation

CE

DGF-33130
STONE UNLOADING ROBOT
TILE PRODUCTION LINE

Automatic Unloading Solution for Tile & Stone Production Lines



120 KG
Maximum Payload

VERTICAL & HORIZONTAL
Material Handling

HIGH PRECISION
Squaring & Positioning

AUTOMATED
Unloading Process

VACUUM GRIPPER SYSTEM

HOT-MELT APPLICATOR


LASER MEASUREMENT


HMI CONTROL PANEL

TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
Model	DGF-33130
Application	Stone & Tile Production Lines
Payload Capacity	Up to 120 kg
Material Orientation	Vertical / Horizontal
Positioning System	High Accuracy Alignment
Hot-Melt System	Automatic
Measurement System	Laser Assisted
Operation	Fully Automatic
Process Integration	Tile Lines, CNC Machines
Production Optimization	Speed Optimization
Power Supply	3 Phase, 380V, 50/60Hz
Installed Power	Approx. 15 kW
Air Consumption	Approx. 300 Nl/min
Control System	Industrial PLC + HMI
Safety	CE Compliant, Safety Fencing
Working Temperature	0 – 45 °C
Weight (Approx.)	1,500 kg

*Specifications may vary depending on line configuration and options.

FEATURES & ADVANTAGES

INTELLIGENT AUTOMATION
Fully automatic unloading process reduces manual handling and improves production efficiency.

120 KG PAYLOAD CAPACITY
Designed to handle heavy stone and tile products with stability and safety.

PRECISION POSITIONING
High accuracy squaring and alignment ensure perfect stacking and material quality.

VERTICAL & HORIZONTAL HANDLING
Flexible handling for different material orientations and production requirements.

LASER MEASUREMENT SYSTEM
Laser assisted system for improved positioning consistency and repeatability.

HOT-MELT INTEGRATION
Automatic Hot-Melt adhesive application for secure and efficient bonding.

PRODUCTION LINE READY
Seamlessly integrates with tile lines, CNC machines and automated stone processing systems.

INCREASED PRODUCTIVITY
Optimized unloading speed and cycle time improve overall line output.


AUTOMATIC UNLOADING


VERTICAL HANDLING


HORIZONTAL HANDLING


INTEGRATED PRODUCTION LINE

FULLY AUTOMATED
Unattended Operation

PRECISION POSITIONING
High Accuracy & Stability

STONE & TILE INDUSTRY
Engineered for Heavy Duty

LASER GUIDED
Accurate & Reliable

PRODUCTION OPTIMIZATION
Higher Output & Efficiency

INDUSTRY 4.0 READY
Smart Manufacturing

SCAN TO WATCH DEMO VIDEO

CE

SOLAR

ROBOTS



X7 Remote control track photovoltaic cleaning machine





X7 Remote control track photovoltaic cleaning machine

Focusing on solving the environment where people cannot stand or telescopic poles cannot be cleaned,robots can be used for remote control cleaning.It is a special cleaning equipment designed,developed and manufactured according to the special environment of my country's photovoltaic power stations.





1 Crawler chassis all terrain operation

Under the control of a remote control,robots can move forward,backward, and turn left and right,enabling them to walk in any direction on the photovoltaic panel and perform all-round cleaning operations without blind spots.

2 The water curtain is faster and cleaner

The front end of the roller brush is provided with a plurality of water spraying devices,and the fan-shaped spray is connected into a piece to form a strong water curtain,which can quickly drive the sewage down to the solar panel;

3 150 meter remote control cleaning

The robot adopts a long-distance wireless remote control method,with a control distance of up to 150 meters,making it more flexible to use

4 Approximately 1.2MW of cleaning per day

5 Anti drop function

The allraround anti drop sensor detects no obstruction when the cleaning vehicle moves remotely to the edge of the photovoltaic panel,triggering a command to stop moving forward/backward;(At this time,the red warning light above the vehicle body is constantly on;at the same time,the cleaning vehicle can only run in the opposite direction.After the cleaning vehicle is remotely controlled to the safe area of the photovoltaic panel,it can move forward,backward,left and right.)

The installation gap (about 2cm)between each photovoltaic panel will naturally filter and will not trigger a stop when passing through nomally.

6 Active shielding of sensors

Cross spacing function:When there is a visual distance of 10-15cm between each array of photovoltaic panels,the shielding function handle on the upper left side of the remote control can be long pushed,and then the joysick can be operated to make the cleaning vehicle pass through this distance.After that, the shielding function handle can be loosened.

7 Indicator light function

①Ultrasonic sensor triggered to the edgered warming light always on.

②Low battery (battery voltage<21 volts,ed waming light flashing slowly (approximately once every 1 second).

③The walking motor is overloaded,and the red waning light flashes rapidly synchronously (about 5 times in 1 second).After 3 seconds,it can return to normal.

PACKAGING LIST



Host



Remote control



Lithium battery(24V26AH)



Charger



Lithium battery backpack



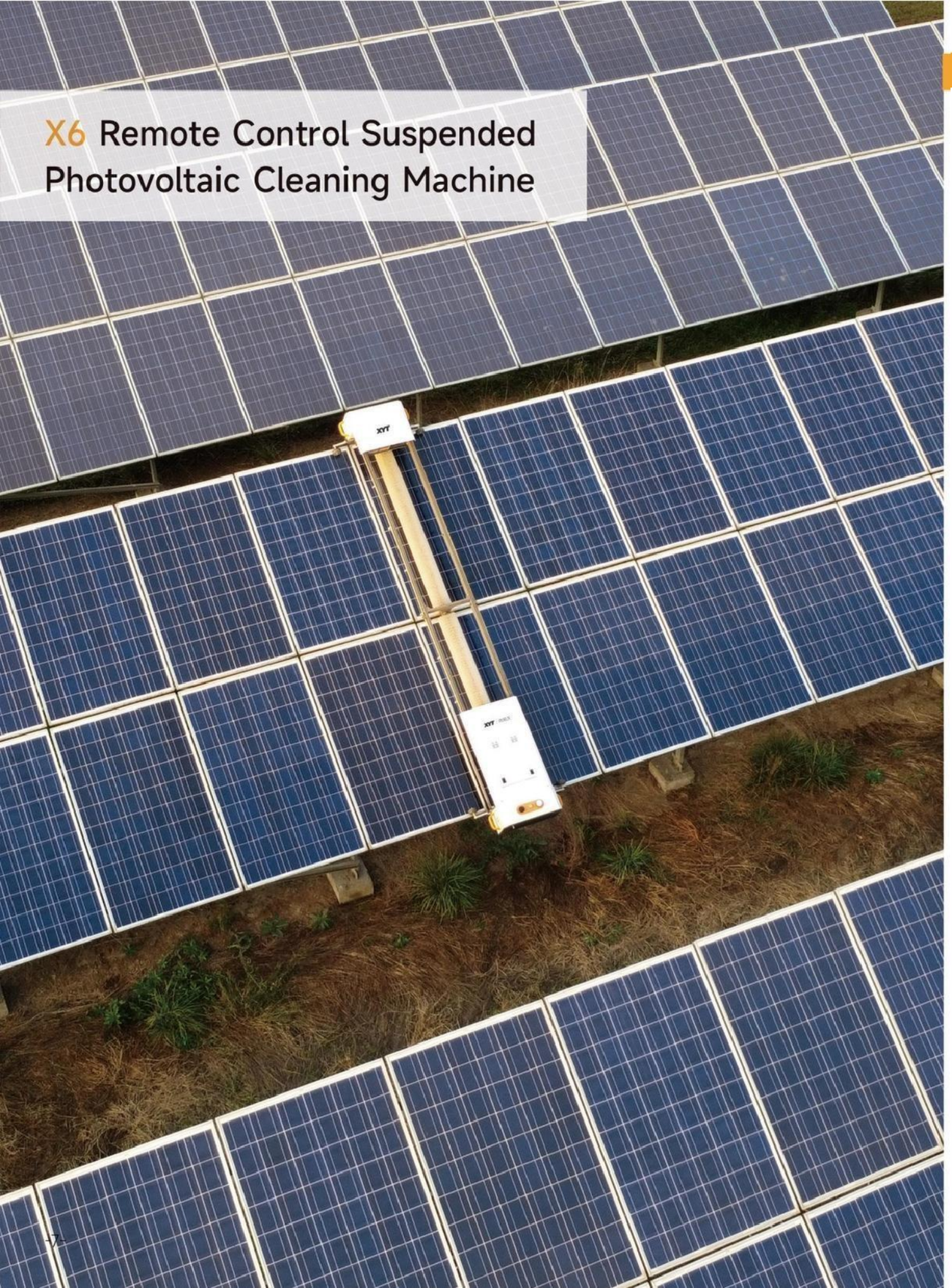
Spare tool accessory kit

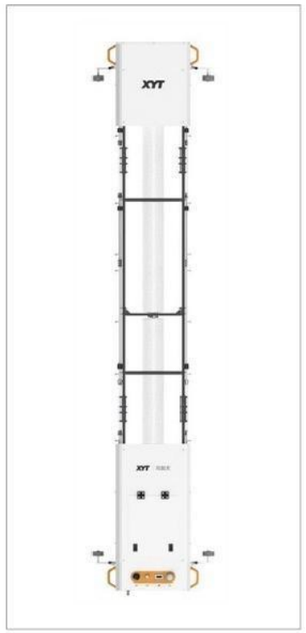
Technical parameter

Operational principle	DC motor control for travel and brush rotation	Travel speed	20m/min(±2m)
Working voltage	24V	Water consumption	Max 24L/min
Power supply method	Lithium battery (24V)	Control methods	Remote control handle control
Battery life	Regular version 4-5h/Long endurance version 8-10h	Work perspective	≤20°
Charging time	6-7h	Working temperature range	-20-50° C
Landing speed	230-250 r/min	Cleaning width	1200mm
Cleaning type	Water washing	External dimensions	1300*1000*350mm
Brush briste material	Nylon	Equipment weight	30.5kg (Excuding batter)
Drive motor power	40w-2	Remote control single battery votage	1.5V
Brush head motor power	150W	Remote control single baery capacity	2800mA

About Storage

- To prevent deformation of the bristles,the equipment should be stored on tiptoes,the brush head should be kept suspended,and placed in a dry and ventilated environment.
- To prevent battery damage due to low power,it should be stored in a dry and ventilated environment.When fully charged,the battery can be replenished every 2 months.





X6 Remote Control Suspended Photovoltaic Cleaning Machine

X6 adopts a three-section split splicing structure,with a variety of sizes for the middle section,easy installation,and suitable for all photovoltaic sizes!It can be suspended on photovoltaic modules and is suitable for photovoltaic power stations within 50°.Compared with traditional electric tools or crawler cleaning robots and other products that clean row by row,it can achieve a sweep, breaking through terrain restrictions,and the cleaning efficiency is increased by more than 76%,which can be called the efficiency ceiling of photovoltaic cleaning products.

It is suitable for mountainous,centralized,fishing,agricultural and other power station types,achieving large-area,high-angle,and efficient cleaning.







TECHNICAL	PARAMETERS		
Model	Applicable photovotaic size (mm)	Roller brush length (mm)	Whole machine weight(kg)
X601	Suitable for 1640-1650 photovoltaic trains	1640	40
X602	Suitable for 1990-2000 photovoltaic trains	2000	45
X603	Suitable for 2268-2278 photovoltaic trains	2278	50
X604	Suitable for 2370-2384 photovoltaic trains	2384	55
X605	Suitable for 3310-3320 photovotaic trains	1640*2	60
X606	Suitable for 4010-4020 photovotaic trains	2000*2	65
X607	Suitable for 4566-4576 photovoltaic trains	2278*2	70
X608	Suitable for 4768-4788 photovotaic trains	2384*2	75
Customized	Other sizes can be customized	Other sizes can be customized	-

Cleaning method	Dry cleaning/washing	Protection level	IP65	working temperature	-20-60℃
Battery weight	6.5kg/block	**Remote control distance**	100m	**Suitable for photovoltaic tilt angle**	≤50°
Travel speed	≤15m/min	**Rolling** brush speed	300r/min	Plane misalignment crossing obstacles	≤40mm
power supply	Lithium batteries*2	Rolling brush motor power	400W	**Auxiliary bridge crossing capability**	600mm or larger
Voltage capacity	48V20AH	**Power of walking motor**	200W*2	Charging duration	7-8h
Battery life	6-8h	Misalignment of left and right panels up and down		≤10mm	





X5 Rolling brush photovoltaic cleaning machine

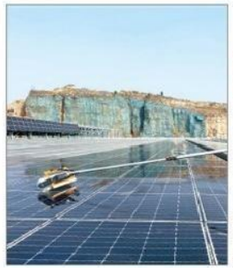
Commercial version/Lithium battery version /Dual-use version

X5 Rolling brush photovoltaic cleaning machine,patented product.
It is suitable for cleaning various photovoltaic panels within 10 meters, 0.8-1.2MW a day,and adopts the head gooseneck design,which is more labor-saving than straight rods.This product weighs only 5.7kg,and the aluminum alloy material has low strength.Easy to operate,high efficiency, one machine for both washing and dry cleaning.

Obtained utility model patent certificate








1 Rolling brush head cleans more cleanly

- Curved gooseneck design,construction workers hold the cleaning rod and press to clean more in line with human mechanics,and save effort

2 The brush structure design is easy to use for dry cleaning and washing

- The brush is composed of compact rows of bristles,which can continuously sweep up dust like a broom or drive away sewage like a wiper,reducing secondary pollution caused by splashing.Therefore,whether dry cleaning or washing,it can achieve good cleaning effects,

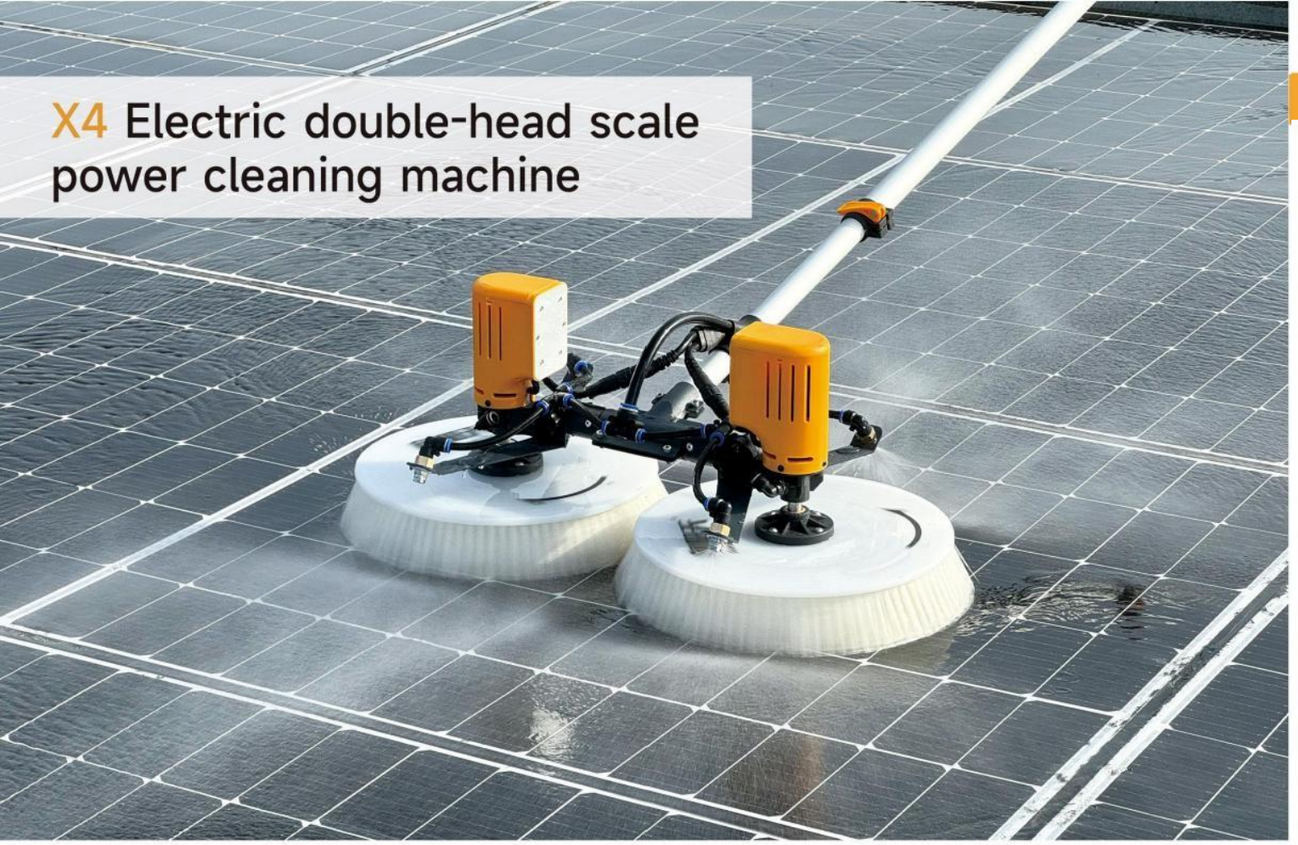
	Commercial version	Lithium battery	Dual-use version
	■ The mains version has stable power and lasting supply. . Configure 220V to 24V power converter.	■ Flexible operation,independent of power supply distance. ■ Configure lithium battery pack and battery charger. . Equipped with battery backpack, more flexible cleaning.	. Strong applicability,taking into account both the commercial version and the lithium battery version Advantages and integration,more flexible electricity use, suitable Use more work environment.

Technical parameter				
Motor speed	r/min	680	680	680
Motor power	W	150	150	150
Motor votage	V	24	24	24
Wall thickness of telescopic rod	mm	1.0	1.0	1.0
Extensio ro lengt/number of secions	m/knot	3.513 ·5.514 ·7.515	3.513 ·5.514 ·7.5/5	3.513 ·5.514 ·7.515
Maximum diameter of expansion pipe	mm	36.5/40.5/44.5	36.5/40.5/44.5	36.5140.5 /44.5
Water pipe length	m	9	9	9
Wire length	m	14/16/18	51719	14/16/18
Power suply method	-	220V mains electricity	Lithium battery pack	220V mains and lithium batery pack
Lithium battery voltage/capacity	V/Ah	24126	24/26	24/26
Lithium battery current	A	10	10	10
Usage time/battery charging	h	-	3.5-4.518-10	3.5-4.518-10
Brush bristle material		New nylon thread	New nylon thread	New nylon thread
Material of telescopic rod	-	Aluminum ally	Aluminum alloy	Aluminum ally
Cleaning width	cm	60	60	60

Configuration

Power converter/extended power cord	■		■
Lithium battery pack/charger/backpack/spring cord		■	■

■ Standard







X4 Electric double-head scale power cleaning machine

Commercial version /Lithium battery version /Dual-use version

It is suitable for the large-scale cleaning of non-electric environment in commercial large-scale areas such as distributed plant roofs,large-scale power stations,agricultural and photovoltaic complementary,fishing and photovoltaic complementary,mountain photovoltaics,photovoltaic power stations,etc.,and provides a complete set of cleaning solutions for water supply and power supply.Wide application range and high efficiency.The product has obtained national utility model patents.



Obtained utility model patent certificate













1 Double-head structure design is more stable

- Equipped with three kinds of telescopic poles,it can clean the photovoltaic power station from 3.5-7.5 meters long.
- The dual brush heads rotate in opposite directions and are balancedThe friction of high-speed rotation combined with the powerful water spray removes dust,sticky dirt and stubborn bird droppings on the surface of the photovoltaic panel,which is more stable,and is dual-purpose for dry cleaning and washing.

2 Innovative patented technology for water curtain rapid cleaning

- After a large amount of dirt is peeled off from the photovoltaic panel by the brush head, it may cause secondary pollution;XYTX4 is equipped with four water sprinklers at the front and rear ends of the brush head to shoot fan-shaped spray and connect them into pieces,forming a powerful water curtain,which can quickly drive sewage down the photovoltaic panel,and improve the cleaning efficiency by 75%;

	Commercial version	Lithium battery	Dual-use version
	■ The mains version has stable power and lasting supply ■ Configure 220V to 24V power converter	■ Flexible operation,independent of power supply distance ■ Configure lithium battery pack and battery charger ■ Equipped with battery backpack,more flexible cleaning	■ Strong applicability,taking into account both the commercial version and the lithium battery version advantages and integration,more flexible electricity use,suitable use more work environment

Technical parameter				
Motor speed	r/min	350	350	350
Motor Power	w	300	300	300
Motor voltage	V	24	24	24
Telescopic rod wall thikness	mm	1.0	1.0	1.0
Telescopic pole length/number of sections	m/knot	3.513 •5.514 •7.5/5	3.513 •5.514 •7.5/5	3.513 •5.514*7.5/5
Maximum diameter of telescopic tube	mm	36.5/40.5/44.5	36.5/40.5/44.5	36.5/40.5/44.5
Water pipe length	m	9	9	9
Wre length	m	14/16/18	51719	14/16/18
Power supply	-	220V mains	Lithium battery pack	220V mains and Iithium battery pack
Lithium battey type	-	-	Lithium iron phosphate battery	Lithium iron phosphate battery
Lithium battery voltage/capacity	V/Ah	24126	24/26	24126
Litium battey curent	A	10	10	10
Batery chargeluse ime	h	-	3.5-4.516-7	3.5-4.5/6-7
Bristle material	-	New material nylon yarn	New material nylon yarn	New material nylon yarn
Telescopic rod material	-	Aluminum alloy	Aluminum alloy	Aluminum alloy
Brush head diameter	cm	32*2	32*2	32 •2

Configuration

Power converter /extended power cord	■		■
Lithium battery pack /charger /backpack / electronically controlled spring cord		■	

■ Standard





X3 Single head photovoltaic cleaning machine

Commercial version /Lithium version /Dual use version

Equipped with a 3.5/5.5/7.5-meter telescopic rod,the brush head speed reaches 350 revolutions per minute.Connecting to the water source can achieve water spraying and brushing.Compared to the dual head balance power cleaning machine,the advantage is that t is,more flexible,and lighter in weight.This cleaning machine can be considered for small-scale short distance photovoltaic power plants.

Obtained utility model patent certificate







1 Independent intellectual property rights universal micro gear adjustment

- Patented technology micro gear rotation structure design,with 30 rotating gears adjustable at wilL
- The brush head angle can be adjusted according to different construction angles and 180°inclined surfaces,combined with a large-sized photovoltaic fiber brush head with a diameter of 30cm,making it easy to brush and worry free!

2 Angle adaptive brush head does not deviate

- During cleaning,a certain range of adaptive brush head angles can be provided according to the angle of the photovoltaic panel,and the adaptive angle range can be adjusted.The brush head is completely attached to the photovoltaic panel surface,with uniform force distribution and less likely to deviate,making it easier to control

	Commercial version	Lithium battery	Dual-use version
	■ The mains version has stable power and lasting supply. ■ Configure 220V to 24V power converter.	■ Flexible operation, independent of power supply distance. ■ Configure lithium battery pack and battery charger. ■ Equipped with battery backpack, moreflexible cleaning.	■ Strong applicability tking into account both the commercial version and the lithium battery version advantages and integration,more flexible electricity use,suitable use more work environment.

Technical parameter

Motor speed	r/min	350	350	350
Motor power	w	150	150	150
Motor voltage	V	24	24	24
Wall thickness of telescopic rod	mm	1.0	1.0	.0
Extension rod length/number of sections	m/knot	3.513 ·5.514 ·7.515	3.513 ·5.514 ·7.515	3.513 ·5.514 ·7.515
Maximum diameter of expansion pipe	mm	36.5140.5/44.5	36.5/40.5/44.5	36.5/40.5/44.5
Water pipe length	m	9	9	9
Wire length	m	14/16/18	517/9	14/16/18
Power suply method	-	220V mains electricity	Lithium batery pack	220VMains and itium battery packs
Lithium battery votage/capacity	V/Ah	24/26	24/26	24126
Lithium battery curent	A	10	10	10
Usage time/battery charging	h	-	6-7/6-7	6-716-7
Brush briste material	-	New nylon yarn	New nylon yarn	New nylon yarn
Material of telescopic rod	*	Aluminium alloy	Aluminium alloy	Aluminium alloy
Brush head diameter	cm	32	32	32

Configuration

220V to 24V power converter/switch control box	■		
Lithium battery pack/charger /backpack/ electronic control spring cable		■	■

■ Standard

X2 Manual water spray brush



X2 Manual water spray brush

Standard version /Water pump version(3.6m,4.8m,6m, 7.5m,9m,10m,11.4m)

X2 manual water spray brush,the thickness of pole is 1mm,the telescopic pole can freely expand and adapt to different heights,making storage convenient.With a maximum length of 33 meters of water pipe, it can meet the needs of rural/household photovoltaic panel cleaning, household and commercial high-altitude cleaning,and is sufficient for use.

Obtained utility model patent certificate







1 Carbon fiber telescopic pole with a maximum length of 11.4 meters,with a lifespan of ten years

- To maintain good usability,carbon fiber telescopic rods can reach up to 10 meters and 11.4 meters,while aluminum alloy telescopic rods can reach up to 3.6 meters,4.8 meters,6meters,7.5 meters,and 9 meters,respectively.
- The telescopic rod is made of high-strength aluminum alloy and carbon fiber material,which is strong and lightweight.

2 Selected 0.26mm photovoltaic cleaning specialized nanofiber bristles

We use photovoltaic dedicated cleaning brushes launched by Vanst Cleaning Company in the United States,which not only do not harm objects but also better clean dirt.

Brushing while spraying water instantly cleans the dirt thoroughly.

	Standard Edition	Pump version	Water pump
	▪ Meet the needs of rural/home photovoltaic cleaning.	▪ Low requirements for water source distance and water pressure. ■ To a certain extent,it meets the requirements of mobile cleaning, with a larger cleaning range and stronger water pressure for cleaner cleaning.	■ You can pump water directly from the bucket or tap water. Perform secondary pressurization.

Technical parameter

Water pipe material	-	anaowngnoe uniesat foralseason	Weaving hose,universal inall seasons (anti-winding)	Lift:10m
Water pipe length	m	25-33	25-32	Maximum pressure:1.0Mpa
Outer diameter of water pipe	mm	8	8	Maximum power:60W
lnner diameter of water pipe	mm	5	5	Maximum flow rate:4.0L/min
Material of spray brush head	—	Nanofiber material	Nanofiber material	
Brush head width	cm	35	35	
Brush briste length	cm	6	6	
Material of telescopic rod	-	Highstength aluminum aloy	Hfigh-strength auminum aloy	
Wallthickness of telescopic rod	mm	1.0	1.0	
Shortest telescopic rod	m	36	36	
The longest telescopic rod	m	11.4	11.4	
Water suply method	-	Equipped with universal joint,can be connected Alfaucetswitin 30mm in diameter, Orany joint	Equipped wit a universl connecto,which can be connected to the tap for water suply: Equipped with a 60W DC water pump to pumo water from the bucket; The water pump suction pipe is connected to the faucetto reaize secondary pressurzation.	

Configuration

Artfeeze hose/faucet uriersad joint/water fiow contrd valve	■	■
Aumrum telescopic rod/nbber wiper/cton wol head	■	■
Water pump/220v poner corveter		■

■ **Standard**

X1 High altitude cleaning machine



X1 High altitude cleaning machine

Municipal electricity version /Dual-purpose version /Entrepreneurship package version

All cleaning services below 12 meters have been completed!Not only can it be used for billboard cleaning,but it can also be used for mid to high altitude cleaning of exterior walls,display windows,LED screens,etc.It can undertake almost all high-altitude cleaning businesses.

Obtained utility model patent certificate







1 Up to 12 meters of telescopic pole, with high cleaning efficiency at high

- It uses a telescopic rod with a maximum diameter of 43mm, which can be extended to its longest length without bending or shaking.
- It is recommended to choose a 5.5m aluminum alloy telescopic rod for those below 7m,and with the addition of height,it can achieve cleaning within 7m;It is recommended to choose carbon fiber telescopic rods for heights above 7.5 m.Compared to aluminum alloy rods,they are lighter to use and can be lifted higher.

2 Store self pickup,convenient water usage

- The entire series is equipped with a self suction pump,with a head of up to 15m,and the water source s taken from a commercial store.
- It can be cleaned by carrying water in a bucket,and can be optionally equipped with an extended water pipe connected to a faucet.

Municipal electricity version

Dual-purpose version

- Can realize high-atitude electric scrubbing function.
- Add 24V lithium battery pack efficient cleaning for 4 hours.
- Increase the double adjustment function of water volume and speed
- Add wireless remote control switch and lithium battery

Entrepreneurship package version

- Pioneer version,can complete a full set of high-altitude cleaning.
- Add auxiliary telescopic rods, scrapers and other auxiliary equipments.
- Increase special detergents and marketing programs.

Technical parameter				
Motor speed	r/min	300	300	300
Motor power	w	120	120	120
Motor voltage	V	24	24	24
Telescopic rod wal thickness	mm	1.0	1.0	1.0
Telescopic ple length/numberof sections	m/knot	3.513 • 5.5/4 • 7.5/5	3.513 • 5.514 • 7.5/5	3.513 • 5.514 • 7.515
Cartbon fiber rod length/numberof knots	m/knot	7.315 • 10.16 • 1216	7.315 • 10.16 • 12/6	7.315 • 10.1/6 • 12/6
Maxirmum diamete of aluminum aly pipe	mm	36.5/40.5/44.5	36.5/40.5144.5	36.5/40.5/44.5
Maximum diametero carbon fber tube	mm	40143	40143	40143
Pump head	m	15	15	15
Maxirmum fow of water pump	L/min	10	10	10
Power supply	-	220V Municipal electricity	Lithium battery pack power supplyou e swpy	
Brush dameter /Brush diameter	cm	30/0.03	30/0.03	30/0.03
Brush material	-	New nylon yam	New nylon yarn	New nylon yarn

Configuration

Suction pipe/hycropower and ral lire/water pump/controd box/power corwerter	■		
Word seam brush head/waxing brush/hard object brush/wiping ball sleeve/spare accessory kit	■	■	■
Water supply+bnush head speed adjustment/lithium battery control box/wreless controler		■	■
Water applicator /glass scraper /cleaning blade/8 barrels of bilboard ceaner/6 meter cleaning rod			■
Practical technical materials/marketing manuals/printed promotional templates			■

■ **Standard**