UNISER
SMARTSPACES

Caiva

Where Premium Meets Innovation

Caiva

Smart Display
Real-time insights.

Self Cleaning
Maintenance made easy.

Total Hair Care
Dry and protect with one machine.

Dual-Speed, Quad-Temperature: Personalized drying experience.

High Velocity: Wind speed of 75m/s

Versatile Modes: 8 unique drying settings.

Caiva

AEROSMART
T50 PRO
(With both attachments)

+
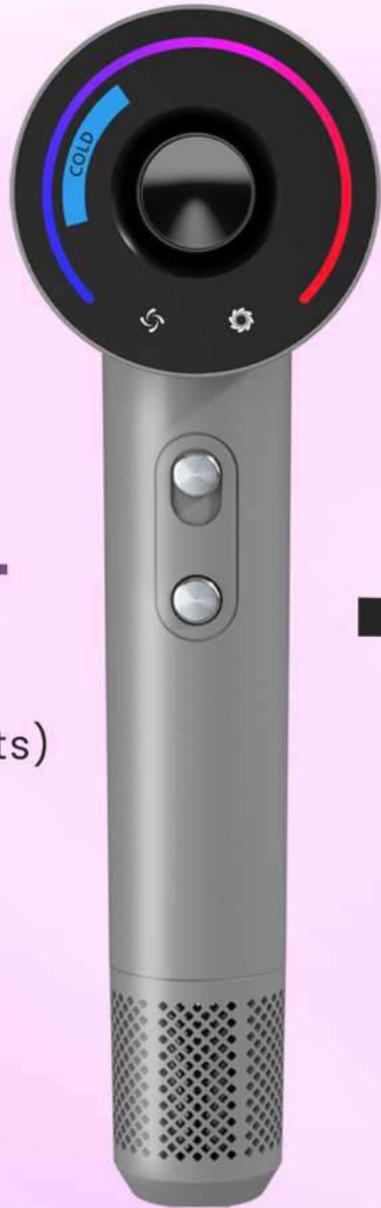
FLYAWAY
ATTACHMENT

DIFFUSER-
MAGNETIC

COLD

Caiva

Dual Battery life

500 W
High speed motor, better than ever

6 Professional Filters

Fully Automatic One-Click Dust Collection

Dust-collection station, energy saving and time saving

145 AW ultra-strong suction power, ultimate model

Caiva

210AW
Ultra-Powerful Suction

Captures 99.99% of particles, ensuring cleaner air in your home.

Perfect for **hard-to-reach places and vehicle cleaning.**

Effortlessly cleans carpets, hard floors, and even pet hair.

Maintains consistent suction and traps fine dust.

- 10-in-1 versatility with 5 brush types

- Perfect for cleaning cars, stairs, walls, and furniture

Tangle-free Brush

Caiva

Smart Dual-Sided
Spray System

Equipped with **4 protection methods, including anti-fall mechanisms,** for safe operation on any surface.

Reliable Performance and Adaptability

• Comes with a UPS backup, providing 20-30 minutes of operation during power outages.

• The updated 3.0 chassis with automatic pressure compensation adapts seamlessly to various glass surfaces for consistent cleaning results.

Caiva

Ultrasonic
Navigation

Dual Charging
Solar power & Type C

Large and Easy
to Clean Basket

- SCT Motors: Salt & chlorine resistant

- App Control: Operate anytime, anywhere.

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Unbeatable
Cleaning Power

5,500 GPH
suction rate

5.5L debris canister

Built for
Bigger Pools

- Capacity to clean pools up to **2,250 sq. ft. or 45 feet in length.**

- Powered by 4 brushless motors.

The Turtlebot is designed with a powerful **15,000 mAh cordless battery,** delivering up to **270 mins** of runtime for uninterrupted pool cleaning.

TESVOR

AUTOVAC S10
SUPREME

Dual line Laser

Oversized Water tank

₹ 1,10,499

TESVOR

TOF
Sensor

Ultrasonic Radar,
Carpet Identification

SELF-CLEANING
Mop

Bleach

Electrolyzed
water module

• Rotating mop pressure: improve mopping effect

• Automatic water up and down efficient cleaning

TESVOR

2-IN -1
Automatic Dust Collection
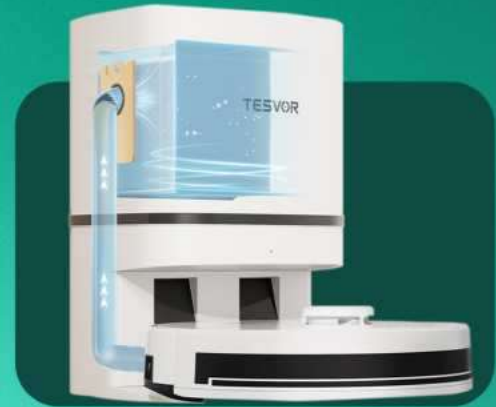
SUPERFAST
Recharging

5200 MAH
Long-Lasting Battery

Manage and schedule cleaning anytime with the app.

- Dust bags last over a month, with 6 spares for convenience.

- With 6000 PA suction, it picks up dirt and debris effortlessly for a spotless home.

TESVOR

1 Touch Instant Self Clean & Dry

45 Min Long Battery

Docking Station, **Convenient** Charging.

- Smart System: Optimal performance

- LED Display for Real-time
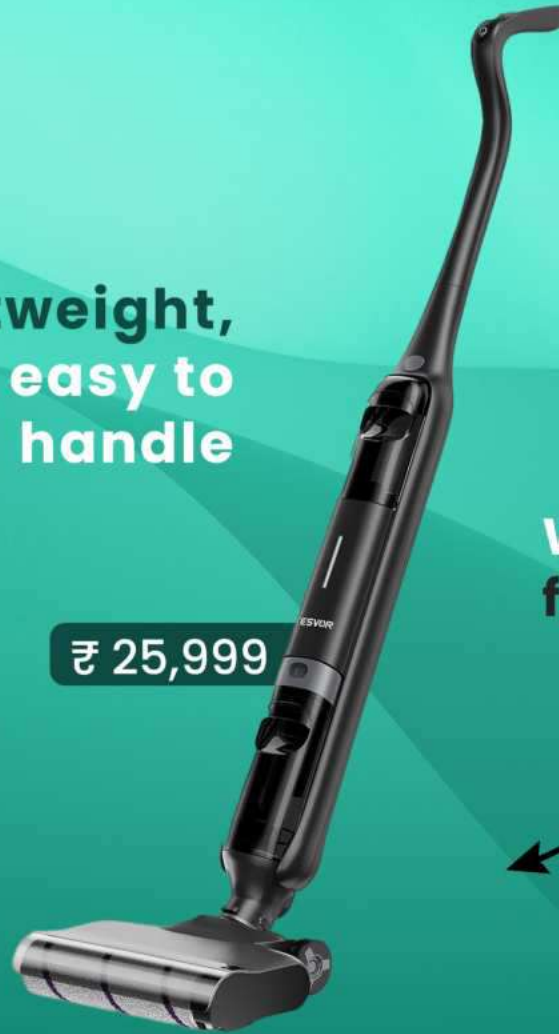
IN ONE TOUCH
150-SECOND ROLLER BRUSH CLEANING.

Versatile, 180° lie-flat for tight spaces.

Powerful Suction of **13800Pa**

TESVOR

IP66
Waterproof & Rain Avoidance

SUPERFAST
Recharging

RTK + V-SLAM
Dual Navigation

Automotive
Grade battery

- Intelligent Path Planning withS-Shaped Virtual Boundary

- Adaptive Mower with 24/7 Operation

Caiva.ai

Dinebot X2

Sleek Sweep

Storm Sweep

Mighty Sweep

Dinebot X1

X serve

Mini Sweep

Dinebot X3

FOOD SERVING/DELIVERY
ROBOT

Caiva.ai

X
SERVE

One of its Kind Mapping: The first-ever remote rapid mapping for effortless deployment.

All-in-One Smart Display: Seamlessly manage deliveries, promotions, and hospitality with a versatile Large HD screen.

Swift Moves, Smarter Routes: 3D obstacle avoidance for seamless navigation in crowded spaces.

Tray Smarter, Not Harder: Efficient delivery and pickup with an intelligent smart tray.

Speed with Precision: Fast yet steady movement tailored for any task.

Your AI Assistant on Wheels: Smooth scheduling, queuing, and voice interaction powered by advanced AI.

FOOD DELIVERY ROBOT

NEW UPGRADED TECHNOLOGY, NEW SMART DELIVERY EXPERIENCE

3D OBSTACLE AVOIDANCE

Up and down RGBD cameras No blind spot, 360 flexible obstacle avoidance

LARGE HD SCREEN

Large size, max resolution, ultra high definition Display your marketing AD

POWERFUL TLIDAR

360 detection Ultra far range, ultra high precision

SMART IOT SYSTEM

Automatic take lift, pass through auto gate and auto door Robot calling system Smart table locator system

SMART TRAY

LSmart payload sensor, improve delivery efficiency AI light belt reminder Flexible and adjustable trays

INDEPENDENT SUSPENSION

Car-grade independent suspension of chassis Flexible adjustment, effective damping

*Smart tray, smart lighting indication, smart IoT systems are optional units

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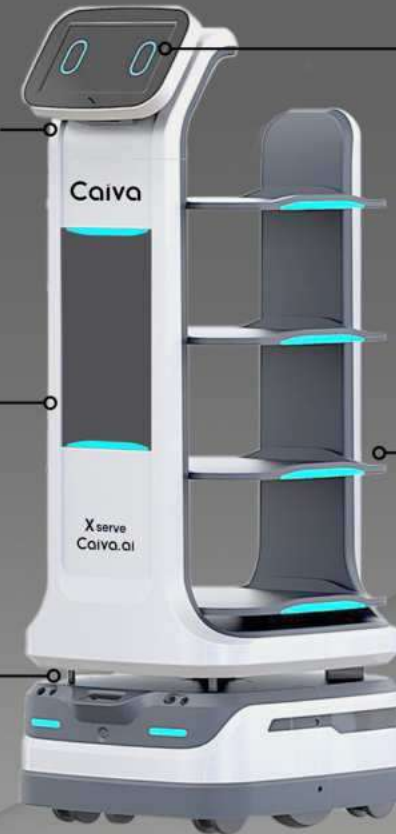
MULTI-FUNCTIONAL LARGE SCREEN, EYE-CATCHING MARKETING

SMART, EFFICIENT, COLLABORATIVE, INNOVATIVE ROBOT

STRONGER SURMOUNTING ABILITY AND GREATER MANEUVERABILITY

- 15.6 inch
- HD dpi 1920*1080
- Picture/video/GIF/Music, various format support
- Fixed-time/festival/birthday, flexible time setting
- Robot/phone/PC end resource management

- Large HD screen; delivery, promotion and hospitality all-in-one
- Independent suspension, stable movement
- 4 large smart trays, independent and high efficiency
- 3D obstacle avoidance, no blind area, ultimate passibility 5 delivery modes, suit your scenario
- IoT smart connection, remote calling, dynamic table locator

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DINEBOT
X1

Swift and **agile** deliveries
- **204°** obstacle detection
- Superior mobility
- Tray detection

Product Specifications

Product Size (WxDxH) 384 x 468 x 1111 mm	**Minimum Passage Width** 55 cm
Product Weight 34 kg	**Battery Life** 11-14 h
Number of Layers 3	**Charging Time** 5 hours
Load Capacity 20 kg (5 kg per layer with bottom layer capacity up to 10 kg)	**Operating System** Android

*All battery claims depend on many other factors: actual results will vary. Battery has limited recharge cycles and may eventually need to be replaced. Battery life and charge cycles vary by use and settings.

10.1-inch Operation Screen

Emergency Stop Button

Tray Indicators

Stereo Vision Sensors

Caiva.ai

Compact efficiency at your service:
Agile handling for seamless deliveries.

FULLY AUTONOMOUS NAVIGATION

Caiva.ai's proprietary SLAM system enables seamless navigation, with swift deployment for efficient performance in diverse settings.

ADVANCED TRAY DETECTION

Caiva.ai's proprietary SLAM system enables seamless navigation, with swift deployment for efficient performance in diverse settings.

MULTI-ROBOT COLLABORATION

Our robust planning system enables smooth collaboration between multiple robots, boosting efficiency and enhancing service experiences.

Caiva.ai

DINEBOT
X2

High-capacity, reliable load deliveries.

- User-Friendly Interaction
- Steady Delivery
- Self Charging

11.6-inch HD touchscreen

Emergency stop button

Turning indicators

Silicon placemat

Ternary lithium battery

3D vision

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Upgraded Interface:
Your Dependable and
Economical Choice.

USER-FRIENDLY INTERACTION

Featuring an 11.6-inch HD touchscreen and ergonomic design, the system ensures easy operation for both staff and customers. Staff can navigate the robot while standing, and customers can control it from their seats.

SMOOTH AND RELIABLE DELIVERIES

The next-gen shock-absorbing chassis employs a multi-link damping system for obstacle-crossing stability across diverse terrains. Enhanced by a novel PID control algorithm, the robot accelerates, brakes, and turns seamlessly, ensuring a steady delivery

SELF CHARGING (CHARGING PILE REQUIRED)

Configure the robot's operating hours according to your usage schedule. It autonomously returns to recharge after shifts, ensuring optimal energy levels for worry-free operation during service hours.

EXCEPTIONAL LOAD CAPACITY

With an impressive load capacity of 4*10kg and an adjustable tray design, the robot caters to a wide range of delivery demands with ease.

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DATASHEET

KEY FEATURES

1. Industry-leading autonomous navigation solutions to ensure precise localization and movements

2. 3D stereo obstacle avoidance performance with 120° wider viewing angle

3. Automatically lift taking performance ensured by Caiva.ai's own robots lift control solution

4. Long service time: 15 hours uninterrupted service can be provided(actual results may vary)

5. Arc-shaped body design, advanced and rounded to avoid accidental bumping

6. Fully automatic design of cabin opening and closing, designed to prevent pinching hands

7. Extra large 90L delivery space with 4 independent compartments to private distribution of multiple items during peak periods

8. Extreme Obstacle Crossing Performance: 7 degree climbing capacity, 15mm Vertical Height, 30mm Gap Width

DINEBOT X3

SPECIFICATIONS

Product Size(W*D*H)	450*550*1080mm
Product Weight	48KG
Number of Cabins	2/3/4
Cabin Size	390*385*300mm (contain 66 bottles of 550ml water)
Layer Detachable	Yes
Cabin Load Capacity	20kg (5kg per layer, with bottom layer capacity at 10kg)
Screen Size	11.6 inch
Screen Resolution	1920*1080 P
Screen Interactive	light/Touch
Speaker	2 sound tracks
Positioning & Navigation	Laser, IMU, encoder multi-sensor positioning & navigation
Obstacle Avoidance	Dual stereo vision, Anti-collision strips
Sensors	LiDAR, depth vision sensor, and touch sensor
Main Material	ABS Plastic for body
Color Optional	Silver/Champagne gold

DATASHEET

PERFORMANCE

Max Speed	0.8m/s (normal pedestrian speed)
Battery Endurance	9-12h (3 deliveries/hr, 5 mins each)
Standby Time	Max 15h
Maximum Climbing Angle	Slope≤7°
Overpass Height	Max 15mm
Minimum Pass Width	70cm
Service Life	20000 hours
Obstacle Avoidance Coverage	Lidar range: 270°, ≤20m; Stereo vision :120°, 0.1-1.5m
Multi-robot Collaboration	Maximum 20 robots
Multi-point Delivery	Up to 4 rooms (Single journey)

BATTERY AND CHARGING

Battery Capacity	DC48V 12AH
Battery Dismountable	No
Charging Mode	Auto/Manual
Charging Input	100-240V~,50/60Hz
Charging Time Approx.	6.5 hours
Charging Pile Dimension	230*220*290 mm
Charging Pile Weight	2.5 KG

OPERATION ENVIRONMENT

Operating Temperature, Humidity	Operating Conditions: 0-45°C, 5%-85% RH, dust-free
Working Environment	Flat and smooth ground indoors
Storage Temperature	0°C-60°C

OTHERS

WIFI	802.11b/g/n transmission
WIFI Frequency	2.4-2.484GHZ
LoRa Frequency	850.125MHz~930.125MHz

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DATASHEET
PACKAGE CONTENT

Battery Recharger*1
*The actual recharger may be different.

Charging pile*1

Product Manual*1

Inset Compartment

Compartment Splitter Plate

MAIN UNIT AND DIMENSION

Cabin (delivery)

11.6-inch touchscreen

Power switch

Lidar

Dual stereo vision

Anti-collision touch strip

Sports Chassis

Emergency stop switch

Speaker

Manual charging port

Turn signals

DATASHEET
MAIN UNIT AND DIMENSION

1087mm

478mm

1087mm

552mm

1087mm

478mm

552mm

478mm

GREET & MEET
ROBOT

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INTRODUCTION

The Tinybor X1 is a cutting-edge device designed to enhance human interaction through intelligent communication. Compact and efficient, this robot leverages advanced AI technology to provide seamless user experiences. Whether in offices, retail environments, or homes, it acts as a friendly companion, greeting and assisting users with remarkable precision and warmth.

KEY FEATURES

FEATURES	TINYBOT X1
Intelligent Interaction	Equipped with AI-powered conversational abilities to engage users naturally and effectively.
Compact Design	Lightweight and portable, making it suitable for a variety of settings.
Multi-Language Support	Facilitates communication with users in multiple languages, catering to diverse audiences.
Customizable Responses	Offers tailored interactions to meet specific user needs and preferences.
Energy-Efficient	Designed for long operational hours with minimal energy consumption.
User-Friendly Interface	Simple setup and easy navigation for seamless user engagement.

ADVANTAGES

ADVANTAGES	TINYBOT X1
Enhanced Customer Experience	Provides personalized greetings and assistance, boosting satisfaction.
Time Efficiency	Handles routine interactions, saving time for users and staff.
Cost-Effective	Reduces the need for human staff in repetitive tasks while maintaining efficiency.
Versatility	Perfect for diverse environments, including retail spaces, offices, and homes.
Improved Accessibility	Serves as a reliable tool for individuals requiring assistance, such as elderly users or non-native speakers.
Innovative Appeal	Adds a modern, tech-savvy element to any environment.

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SPECIFICATIONS OF THE MINI AI GREETING ROBOT

The Mini AI Greeting Robot boasts advanced technological features and a compact design, offering exceptional versatility and performance. Below is a detailed overview of its specifications:

GENERAL SPECIFICATIONS

Dimensions	Compact and lightweight, designed for portability.
Material	Durable, eco-friendly materials ensuring longevity.
Weight	Optimized for easy handling and installation in various environments.

PERFORMANCE FEATURES

AI Processor	Equipped with a high-speed, efficient processor for smooth AI-driven interactions.
Battery Life	Long-lasting power capacity for extended operation without frequent recharging.
Operating Modes	Multiple modes tailored for different environments and user needs.

FUNCTIONALITY & COMMUNICATION

Voice Recognition	Supports multi-language voice inputs for wide usability.
Display Features	High-definition screen to display text and visual responses.
Response Customization	Pre-programmable responses and adaptive learning capabilities to enhance personalization.

CONNECTIVITY & COMPATIBILITY

Network Support	Seamless integration with Wi-Fi and Bluetooth for robust connectivity.
Device Compatibility	Compatible with smartphones, tablets, and other smart devices for enhanced control.
Software Updates	Regular updates to ensure the system remains state-of-the-art.

SAFETY & MAINTENANCE

User Safety	Built-in safety mechanisms to prevent overheating and ensure user security.
Maintenance Requirements	Low-maintenance design with easy access for repairs and cleaning.

APPLICATIONS & USE CASES

The Mini AI Greeting Robot is ideal for a wide range of environments:

Retail and Hospitality	Personalized greetings for customers, enhancing their experience.
Corporate Offices	Acts as an intelligent receptionist or guide.
Healthcare Facilities	Provides assistance to patients and visitors.
Educational Institutions	Supports students and staff with interactive features.

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SALU BOT

The First Large Language Model Explainer Robot

- Intelligent Q&A
- Smart Reception
- Tour Guide
- Smart Guidance
- Promotion

PRODUCT ADVANTAGES

- Smooth Communication
- Multi-language Supported
- Customized Ads
- Rich Hardware Interfaces
- Marker-Free Deployment
- Auto-Navigation

Product parameters	Technical Parameters	Metrics and Performance
General parameters	Overall Dimension	558mm×525mm×1350mm
	Net weight	56kg
	Color	silver and gray
	Body material	High strength PC+ABS
	screen size	14 inches, full HD 1080P
Storage compartment parameters	Neck load space	Length 104mm Width 80mm" Height 16mm
	Chest load space	Length 135mm Width 129mm* Height 190mm
	Chest loading weight	5kg
	Single layer loading weight	Max 15kg
	Head pitch angle	-15° to 40°
	Gradeability	5
	Narrowest passing width	70cm
	Movement speed	0.5-1.2m/s (adjustable)
System performance	Hardware platform	Qualcomm 8-core chip + industrial-grade MCU
	operating system	RobotOS robot operating system deeply customized based on Android 9.0
	RAM(Memory)	8GB
	ROM(capacity)	64GB
	Navigation sensor	Lidar × 1 + depth vision sensor × 3 + fisheye camera × 1 + infrared recharge camera × 1 + odometer + inertial measurement unit × 1
	Maximum mapping area	≤5000㎡
	Head wide angle color camera	2 million pixels, wide-angle camera
	Mic array	6-mic array full-range radio and noise reduction, 360° sound source positioning
	Battery life	12-14h (Typical cruising mode)
	positioning accuracy	Centimeter level
	Support interfaces	USB 2.0 A port*2, Type-C port*1; LAN 100M network port*1; DC power supply port 12V 3A
Network and charging	Network support	4G (supports TDD-LTE, FDD-LTE), WiFi supports 2.4G/5G
	Battery	Ternary lithium battery, 24.3Ah/25.55V
	Charging method	Supports two methods: automatic recharge at charging station + wired charging
	Charging time	4.5 hours (Charging Dock)
Adapter	Adapter parameters	Input: AC100-240V, 50/60Hz, 3.5A MAX Output: DC 32V, 7.8A, 249.6W
Charging Dock	Charging Dock Dimension	350mm*142mm*342mm
	Charging Dock electrical parameters	CE and CE relative countries input: DC 32V /MAX 7.8A ouput: DC 32V / 7A Other countries Input: DC 32V /MAX 7.8A Output: DC 32V /MAX 7.5A

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BUZZ
BOT

BUZZBOT PRODUCT SPECIFICATION

| Product parameters	Technical Parameters	Metrics and Performance
General parameters	Dimension	530mm x 500mm x 1320mm
	Weight	43kg
	Interactive screen parameters	10.1 inch, touch screen, 1200 × 1920 pixel resolution
	Large screen parameters	27 inches, display, 1080 × 1920 pixel resolution
	Interaction pattern	Support facial detection, voice interaction, touch screen interaction
Movement capacity	Climbing ability	5°
	Minimum pass width	70cm
	Positioning accuracy	Centimeter-level navigation accuracy
System performance	Operating system	RobotOS robot operating system based on Android 9 deep customization
	RAM (memory)	8GB
	ROM (capacity)	64GB
	Mic array	Microphone Array, 360° Audio Source Positioning
	Speaker	3W* 2 channels
	Standard mapping area	Not more than 5000m²
	Hardware platform	Qualcomm 8-core chip + 32-bit MicroChipMCU
	Hardware interface	Standard 5V/2A USB-A data communication interface × 1 Standard DC12V/3A power supply interface ×1 Ethernet port x1
	Face Interaction Camera	13M
	Bluetooth	Bluetooth 5.0
	Navigation sensor	Infrared sensor × 2, LIDAR × 1, Inertial measurement unit 1, Depth vision camera *1
	Hardware expansion	Rear small tray • Capacity: 3kg • Size: 456 (left and right) 130 (front and back) *100mm (height)
Network and charging	Network	WiFi, 4G-LTE
	Battery life	9 hours (typical cruising scenario)
	Battery	Ternary lithium battery, battery capacity 24.3Ah/25.55V
	Charging time	4.5 hours (power off charging)
	Charging method	Automatic recharge
Charging Dock	Charging Dock size	204mm×221mm×251mm
	Charging Dock parameters	Input: AC100-240V, 50/60Hz, 3.5A MAX Output: DC 32V, 7.8A, 249.6W

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RUMIEE

27" split-screen display for engaging visuals.

Six-microphone array ensures clear audio interaction.

Stands 1.52m tall with a sleek design.

SDK support for custom business applications.

Ideal for reception, guidance, and customer engagement.

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610 MM

640 MM

1520 MM

1250 MM

540 MM

540 MM

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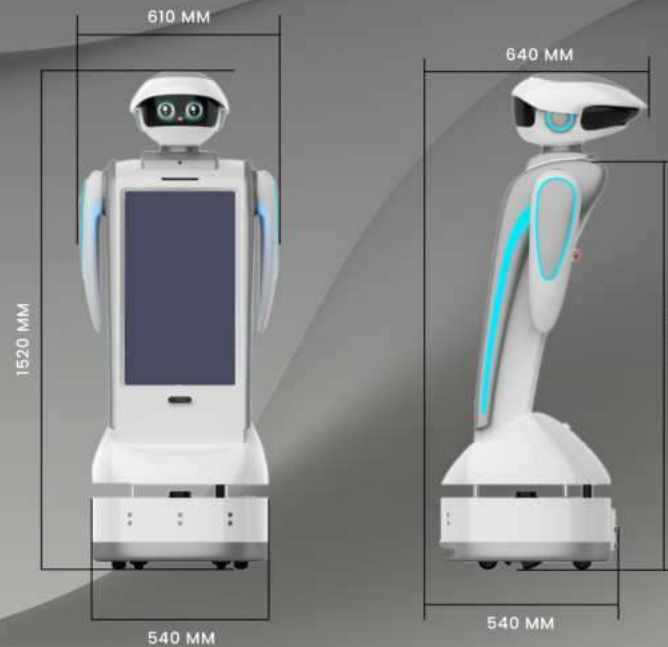
Robot size	54*56*152(cm)
Body Weight	80Kg
Screen	80Kg
Operation System	27 inch (1920*1080 resolution, support split-screen display)
RAM	Android 7.1
Memory	4GB (Upgradable)
Camera	32GB(Upgradable)
Run Time	8 mega Pixels
Run Time	8 hours
Charging Time	3.5 hours
Microphone	Circular 6-microphone array
Navigation	Lidar SLAM
Working Speed	Max 0.7 m/s
2nd Development	Yes, SDK for development

Robot

App

Cloud
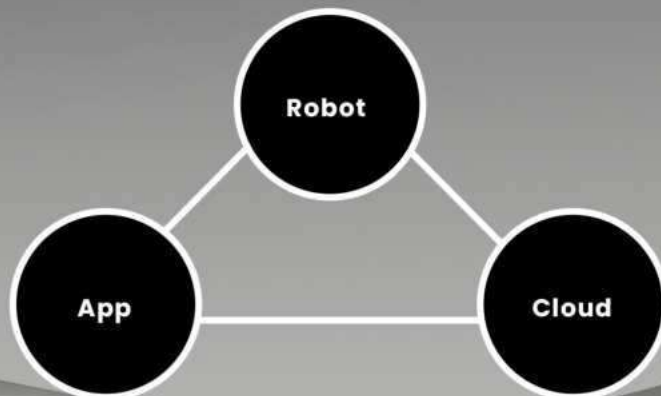
USING SCENARIOS

- HOSPITALITY
- RETAIL
- HEALTHCARE
- CORPORATE OFFICES
- EDUCATION
- EVENT VENUES
- MUSEUMS AND TOURIST ATTRACTIONS
- GOVERNMENT AND PUBLIC SERVICES

USING SCENARIOS

- IT DISTRIBUTORS & SYSTEM INTEGRATORS
- HOTELS AND RESORTS
- RETAIL STORES & SHOPPING MALLS
- HOSPITALS AND HEALTHCARE FACILITIES
- CORPORATE OFFICES & BUSINESS CENTERS
- EDUCATIONAL INSTITUTIONS (SCHOOLS, UNIVERSITIES)
- EVENT ORGANIZERS & EXHIBITION CENTERS
- TOURIST ATTRACTIONS & MUSEUMS
- GOVERNMENT AGENCIES AND PUBLIC
- SERVICE PROVIDERS

CONTACT

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Website: www.doodlegroup.in
Phone: +91 7021696720

COMMERCIAL CLEANING
ROBOT

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ROBO
SWEEP

1. Z1: 2000m² on One Charge
• Covers large spaces efficiently with long-lasting battery performance.

2. Smart Navigation, Zero Obstacles
• Autonomous navigation with obstacle avoidance for seamless cleaning.

3. All-in-One Cleaning Power
• Sweeps, mops, and scrubs for comprehensive floor care.

4. Clean Anytime, Recharge Automatically
• Scheduled cleaning with auto- recharge for uninterrupted performance.

5. Touch or Tap to Command
• Dual control via touchscreen and mobile app for ease of use.

6. Self-Cleans While Cleaning
• Real-time self-cleaning ensures optimal functionality during operation.

7. Business-Ready Cleaning Robot
• Designed for large-scale tasks with reliable, advanced technology.

8. Effortless Cleaning, Anywhere
• Cross-area and remote cleaning tailored for commercial needs.

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Dimensions	503*503*629 mm
Weight	42KG
Sensor	2D obstacle avoidance radar, ultrasonic wave, structured light camera
Navigation system	2D single-line laser + IMU + odometer multi-sensor fusion navigation
Obstacle avoidance system	2D single-line laser + color camera + structured light camera + ultrasonic wave
Driving speed	0.1~0.8m/s, multi-gear adjustable
Water/sewage capacity	10L/10L
Cleaning width	440mm
Roller brush down force	20~40N
Cleaning mode	Floor washing, vacuuming (optional), dust pushing
Working mode	Timed cleaning, hand-push cleaning, remote control cleaning
Maximum cleaning efficiency	800m/h
Battery	Lithium iron phosphate, 25.6V 36Ah (magazine type replaceable
Charging/endurance	hours full charge, 5~12 hours battery life
Display size	7 inches
Network communication	46/5G/i-Fi
Control software	Mobile APP/onboard software/cloud platform
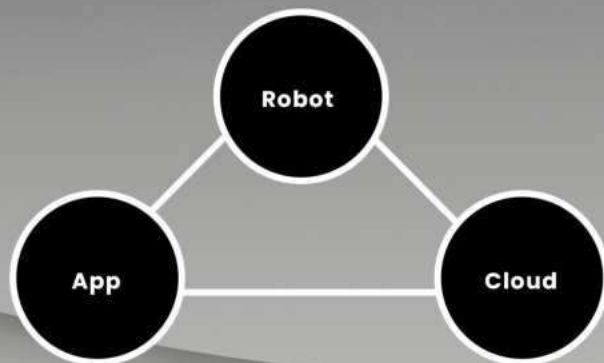
USING SCENARIOS

- OFFICES AND CORPORATE BUILDINGS
- RETAIL STORES AND SHOPPING MALLS
- HOTELS, RESORTS, AND HEALTHCARE FACILITIES
- FACTORIES, WAREHOUSES, AND INDUSTRIAL SITES
- EDUCATIONAL INSTITUTIONS AND GOVERNMENT BUILDINGS
- AIRPORTS, TRANSPORTATION HUBS, AND EVENT VENUES

USING SCENARIOS

- IT DISTRIBUTORS AND SYSTEM INTEGRATORS
- PUBLIC PLACES (AIRPORT, MUSEUM,GASSTATION ETC.)
- OFFICE
- HOTEL & RESTAURANT & SHOPPING MALLS ETC.
- COMMERCIAL PLACES MANUFACTURING AND INDUSTRIAL COMPANIES

CONTACT

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Robot

App

Cloud

Caiva.ai

DATASHEET

KEY FEATURES

1. Experience a hands-free clean - Sweeping, Dust Mopping, and Vacuuming functions of C30 make it easy.

2. New screen handle design - You can adjust the screen to a comfortable height, providing a more convenient and comfortable cleaning experience.

3. 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

4. Achieve maximum cleaning productivity - 540 /h cleaning speed and 1500 of coverage per charge.

5. User friendly design - with the charging pile in front, charge and operate with ease.

6. Safety is prioritized with the inclusion of three stereo vision sensors, which safeguarding both human and robot interactions.

7. Easy maintenance - with quick-release features for all Mini Sweep components

MINI SWEEP

SPECIFICATIONS

PERFORMANCE

Robot Dimension(WxDxH)	490*610*750mm (With Dust Push)
	490*520*750mm (Without Dust Push)
	490*646*990mm (Raise Handle)
Box Dimension(WxDxH)	Box Dimension(WxDxH)
Robot Weight	35kg (With Battery)
	30kg (Without Battery)
Moving Speed	0.8m/s
Slope Angle	≤ 8°
Battery Life	3-5h (Sweeping&Vacuuming Mode)
	10h (Dust Mopping Mode)
Service Life Circle	5 Years
Cleaning Mode	Vacuuming Mode (Vacuuming Function +Sweeping Function)
	Dust Mopping Mode

Cleaning Area	1500㎡/task (Under Full Charge)
Cleaning Efficiency	540㎡/h
Maximum Vacuum Degree	11000pa
Braking Distance	50cm
Noise	≤70dB
Dust Collection	3.5L/bag
Maximum Cleaning Power	450W
Obstacle Climbing Ability	20mm
Carpet Cleaning Ability	10mm
Maximum Cleaning Width	530mm (Double Side Brushes + Sweeping Brush)

ENVIRONMENT

Operating Temperature, Humidity	0 - 40°C, RH: < 80%
Operating environment	Indoor environment, carpet (regular low-pile carpet, ≤10mm), hard floor, no dust
Storage Temperature	-10°C -60°C

BATTERY AND CHARGING

Battery Type	Ternary lithium battery
Battery Capacity	DC 25.6V 28.5Ah
Battery Dismountable	Yes
Charging Mode	Automatic charging with the bundled charging pile and manual charging by recharger
Charging Input	100-240V~, 50/60Hz
Charging Time	5-6h
Charging Pile Dimension(L*W*H)	305*220*146mm
Charging Pile Weight	2.2kg

HARDWARE

Machine Material	ABS and aluminum alloy
Positioning Method	Laser Positioning
Positioning Accuracy	Centimeter level
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)
Interactive Ability	Light/Touch

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SYSTEM AND FUNCTION

System	Linux(Control) & Android(Interact)
App Language	Chinese, English, Japanese, Korean, French
App Functions	Dust Mopping Mode/Vacuuming Mode (Vacuuming Function + Sweeping Function)

OFFICIAL STANDARD AND OPTIONAL PART

Package Contents	Robot*1, Charging Pile*1, Product Manual*1, Side Brush*2, Mopping Cloth*3, Sweeping Brush*2, Wiper Blade*3, Dust Bag*20, HEPA*2
Consumables (Available for purchase)	Side Brush, Mopping Cloth, Sweeping Brush, Wiper Blade, Dust Bag, HEPA
Robot Color Optional	Pearl White

PACKAGE CONTENT
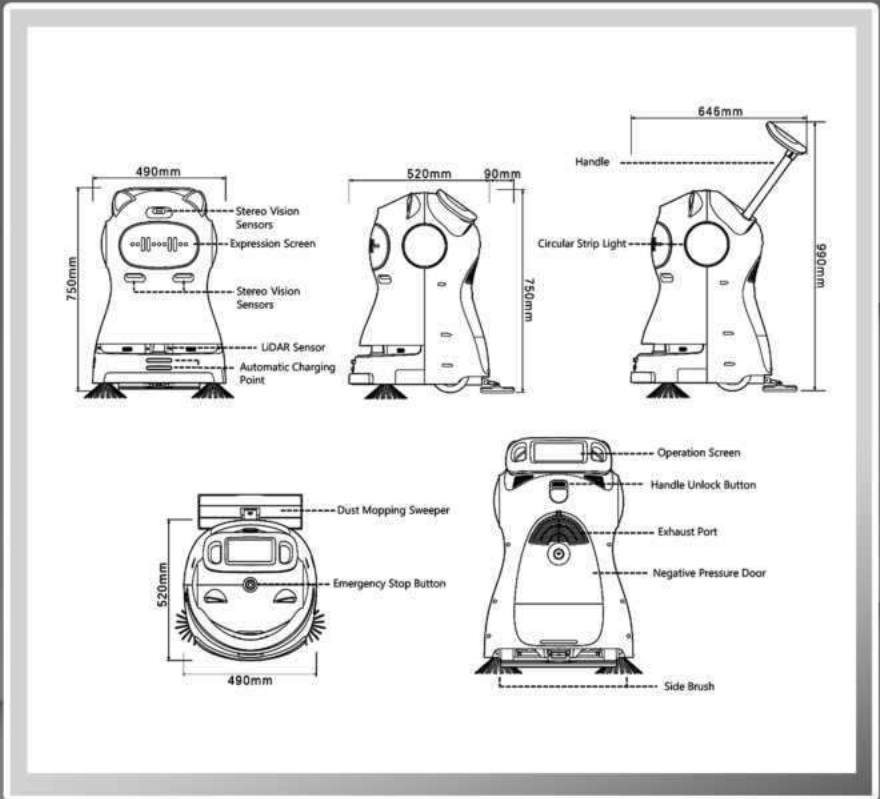
Side Brush*2

Mopping Cloth*3

Sweeping Brush*2

HEPA*2

Wiper Blade*3

Dust Bag*20

Charging Pile*1

Product Manual*1

MAIN UNIT AND DIMENSION

646mm

490mm

520mm   90mm

Handle

Circular Strip Light

750mm

750mm

990mm

Stereo Vision Sensors

Expression Screen

Stereo Vision Sensors

LiDAR Sensor

Automatic Charging Point

Operation Screen

Handle Unlock Button

Exhaust Port

Negative Pressure Door

520mm

Dust Mopping Sweeper

Emergency Stop Button

490mm

Side Brush

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MIGHTY SWEEP

COMMERCIAL CLEANING ROBOT

Caiva.ai

WIPING, SWEEPING AND VACUUMING ALL IN ONE CLEANING ROBOT

Mighty Sweep Commercial Cleaning Robot is specially built for ground cleaning in commercial and industrial environments, truly re-alizing unmanned cleaning. It solves the difficulty that most of the cleaning robots in the market nowadays can't completely deal with the ground leakage caused by the small capacity of the water tank and poor range while avoiding the problem that the ground cleaning robots encounter very troublesome to clean themselves and can't really get rid of the manual intervention. Widely used in public places such as shopping malls, hotels, factories and conference centres in small and medium scenarios.

PRODUCT HIGHLIGHTS

"True" Unmanned cleaning

Complete coverage cleaning + edge cleaning + supplementary cleaning, wiping, sweeping and vacuuming all in one, with scheduled task, automatic charging and other functions for all-day cleaning.

Delicate floor wiping

Microfibre soft bristle roller brush, high-speed wiping, "not a speck of dust to spare"

Quadruple filtration system

The HEPA-rated quadruple filtration system ensures that the filtered and exhausted air has no impact on the surrounding environment.

Compatible with carpet and many hard floors

Suitable for marble, epoxy resin, terrazzo, tile, cement tile, PVC and other hard floors, and optional carpet cleaning brush for daily cleaning and maintenance of carpets, reducing the cost of cleaning and maintenance for users.

Whisper clean pampering

In the highly efficient silent system, noise does not exceed 62dB(A) during operation.

TECHNICAL PARAMETERS

ITEM	PARAMETER	ITEM	PARAMETER
Robot size(L*W*H)	615*585*630(mm)	Robot weight	About 85kg
Charging post size(L*W*H)	430*290*440(mm)	Trash bin capacity	2.5L
Dustbag capacity	2L	Cleaning path (w/ double sde brush)	550mm
highest cleaning efficiency	Up to 1600m²/h	Voltage	24V
Battery capacity	50AH lithium battery	Endurance time	2.5-4.5h
Grade abilty	14%	Propel speed	0-3.6km/h
Operating noise volume	≤62dB(A)	Suction motor	220W

Note:Charging post is standard

CORE FUNCTIONS

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Scheduled task

Wiping, sweeping and vacuuming all in one

Autonomous return to the post for unlimited charging

Hard floor and carpet compatible

Complete coverage cleaning

Intelligent voice tips

Cloud Platform Management Environmental Data Monitoring

Autonomous navigation with sensor fusion

Multi-security protection

Task switch and priority definition

Autonomous task report and status feedback

Touch screen and APP intelligent interaction

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SLEEK SWEEP

COMMERCIAL CLEANING ROBOT

PRODUCT HIGHLIGHTS

Quadruple filtration system
The HEPA-level quadruple filtration system ensures that the filtered and exhausted air does not have any impact on the surrounding environment

Intelligent Charging Management
Supports flexible charging positions; in standby, the robot maintains over 80% power. During timed tasks or low battery, it automatically performs tasks or returns to charge, ensuring efficient operation.

Silent Cleaning
Highly efficient silent system, working noise does not exceed 63dB (A)

Multi-functional
Hard floor and carpet can be cleaned, integrated scrubbing, sweeping and vacuuming functions, vacuuming functions in one machine.

Multi-camera collaboration
Grouping management; map management, charging management; task scheduling management

Timed Tasks
Cyclic setup of timed tasks to reasonably avoid peak traffic; task switching, supporting task priority setting Tasks can be switched, supporting task priority setting

Precise edge cleaning algorithm
With high-precision positioning and intelligent sensing, the robot's 'edge mode' maintains <10cm from walls, ensuring full, no-dead-angle cleaning either independently or in global mode.

WIPING, SWEEPING AND VACUUMING ALL IN ONE CLEANING ROBOT

Sleek Sweep is a wipping, sweeping and vacuuming all-in-one waterless cleaning robot built for commercial and industrial environments. It is suitable for carpeted, hard and wooden floor environments, with extreme edge-to-side sweeping and powerful dust control, and is widely used in medium and large scenarios in shopping malls, factories, conference centers, exhibition halls, and other public places.

TECHNICAL PARAMETERS

ITEM	PARAMETER	ITEM	PARAMETER
Robot size(L*W*H)	102o·s4T915(mm)	Robot weight	160kg
Charging post size(L*W*H)	456 ·351 · 414(mm)	Trash bin capacity	5L
Dustbag capacity	5L	Cleaning path (w/ double sde brush)	850mm
highest cleaning efficiency	Up to 2300m2/h	Voltage	24V
Battery capacity	IOOAH lithium battery	Endurance time	5-8h
Maximum power	1700W	Propelling motor	2·2oow
Grade ablity	12%	Propel speed	0-3.6km/h
Operating noise volume	≤63dB(A)		Note.Charging post is standard

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APPLICATION SCENARIO

Ideal for medium to large indoor spaces like malls, factories, conference centers, and exhibition halls.

APPLICATION SURFACE

Shorthair Carpet	Shaggy Carpet	Wooden floor	Terrazzo	Plastic floor
Marble	Tile	Epoxy Resin	Sandstone	Artificial stone

STORM SWEEP

[High-end Version]
Intelligent Integrated Cleaning Robot

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PRODUCT ADVANTAGES

- More Intelligence
- High-precision mapping
- Intelligent trajectory planning
- Dynamic memory sweeping
- Autonomous obstacle avoidance and obstacle avoidance in complex scenes
- Low battery self-recharging
- Automatic Parking Recognition

MORE ECONOMICAL

- The daily workload of one machine is equivalent to the total daily workload of four cleaners, thus reducing cleaning costs

MORE TECHNOLOGICAL

- Technological appearance design
- Various appearance colors are optional

MORE EFFICIENCY

- Up to 6 hours of battery life
- 24h Non-stop Operation
- Cleaning without dead ends
- 100L large-capacity trash can
- Remote control through cloud platform

MORE PRECISE

- Up to 6 hours of battery life
  24h Non-stop Operation
  Cleaning without dead ends
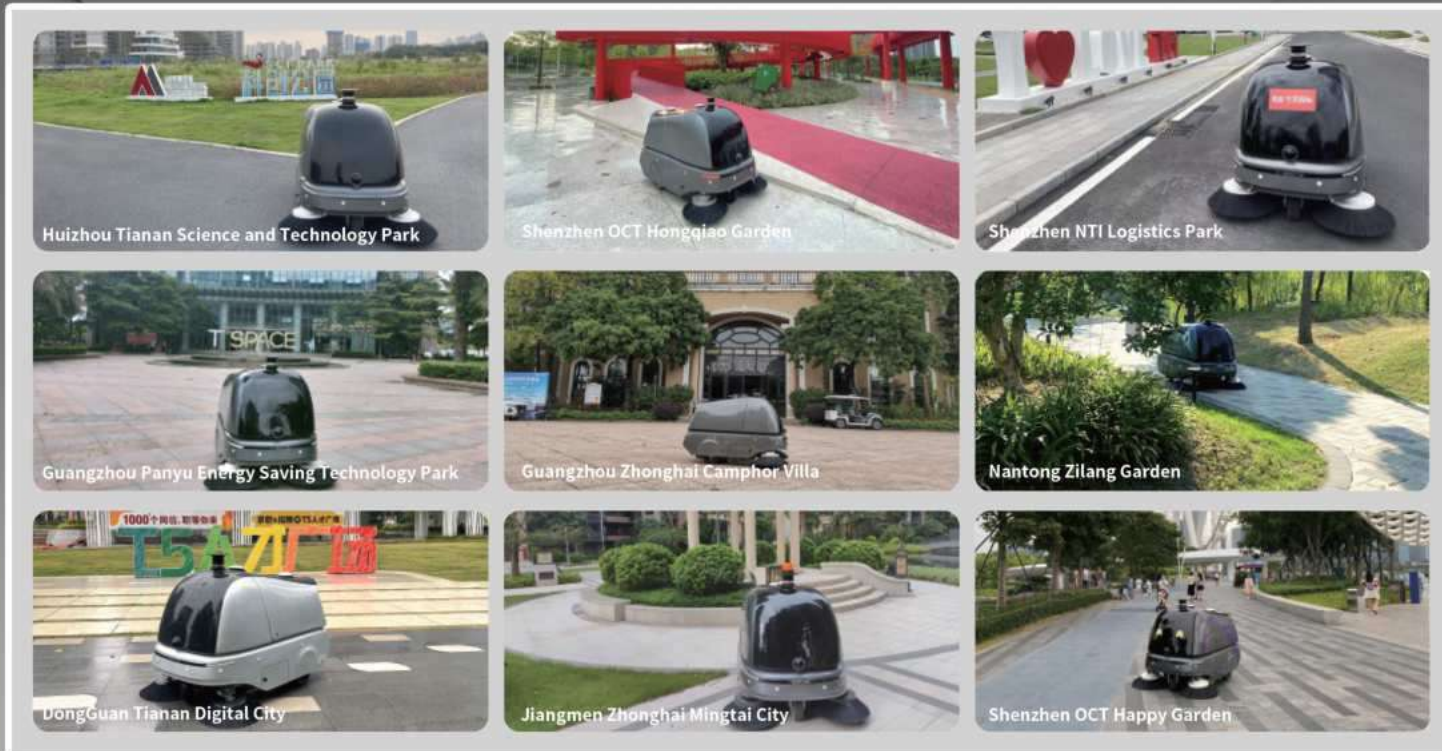 100L large-capacity trash can
  Remote control through cloud platform

MORE SECURITY

- Integrates multiple sensors such as lidar and ultrasonic Perceptual recognition without blind spots in all directions

APPLICATION SCENARIO

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| Square | Large Park | School | High Speed Rail Station |
| Hospital | Scenic spot | Park | Aiport |

Storm Sweep has been put into normal operation in many microcirculation fields such as large enterprise groups, cultural and creative parks, and industrial parks

Huizhou Tianan Science and Technology Park

Shenzhen OCT Hongqiao Garden

Shenzhen NTI Logistics Park

Guangzhou Panyu Energy Saving Technology Park

Guangzhou Zhonghai Camphor Villa

Nantong Zilang Garden

DongGuan Tianan Digital City

Jiangmen Zhonghai Mingtai City

Shenzhen OCT Happy Garden

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FUNCTION INTRODUCTION

Supporting function	Function introduction
Cleaning in super large area scenes	It supports the cleaning of scenes less than 100,000 square meters.
Automatic cleaning of the whole area	Through autonomous navigation, autonomous path planning and other technologies to achieve full-area coverage cleaning.
Automatically clean the designated area	Support for custom job areas.
Timing automatic cleaning operation function	The regular cleaning time can be set, and the equipment can complete the cleaning task independently at the scheduled time.
Built-in audio and LED screen	The equipment has its own audio and LED screen, and it realizes broadcasting through cloud platform operation.
Autonomous driving monitoring and patrolling	Through automatic cruise technology and cloud platform management, real-time monitoring and security early warning can be realized in the cleaning operation area.
Built-in camera	Through the built-in 4 cameras, the cleaning operation area can be monitored in all directions.
Sweep along the edge	Support the cleaning of different road surface edge areas.
Auto-avoidance	Supports obstacle recognition and automatic obstacle avoidance in the cleaning area.
Battery management and automatic charging system	The device can set the warning value of low power and automatically charge.
Energy saving technology	Through energy-saving technology and large battery capacity, the equipment can last up to 6 hours.
AI warning technology	The equipment can provide real-time early warning of the operation area through the AI recognition algorithm.
Clean data report	The data statistics of the equipment cleaning report can be queried through the cloud platform.
Notification	In case of equipment failure, task completion, etc., relevant information will be automatically pushed.
API interface	Access the user's original smart park platform or property management platform through the API interface.
Multiple security guarantees	Through a variety of sensor fusion technologies, the safety of equipment operation is guaranteed.
Side brush automatic lift	When the equipment is cleaning, it will automatically adjust the height of the brush to ensure that the operation is carried out normally.
OTA remote update	Support OTA remote firmware upgrade to ensure continuous improvement of device functions.

E- stop button

Trash can
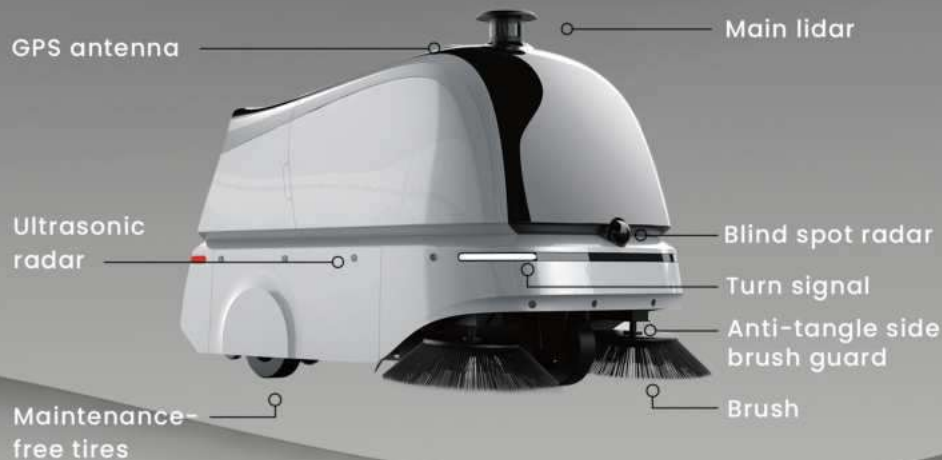
GPS antenna

Main lidar

Ultrasonic radar

Blind spot radar

Turn signal

Anti-tangle side brush guard

Brush

Maintenance-free tires

PRODUCT PARAMETERS

Structural parameters		Electrical parameters		Operation parameters		Other parameters	
Size	163L * 120W * 122H(cm) 64L * 47W * 68H(in)	Battery Type	Lithium iron phosphate battery	Sweeping width	1200 mm|47.2in	Operating temperature	-15°C~+60°C
Weight	320kg|705lb	Average battery life	4-6 hours	Cleaning efficiency	Max4000 ㎡/h 43055ft²/h	Running noise	55~70 dB (a)
Battery weight	38kg|84lb	Maximum power	2000W|2.6hp			Running slope	≤12 degrees
Dustbin volume	100L|26gal	Rated voltage	48V	Security system	Lidar, Vision Systems, Ultrasonic Sensors		
Remarks*: The weight of the sweeper refers to the weight of the sweeper under no load, and the weight includes the weight of the battery.		Rated drive motor power	800 W|1.1hp	speed	0-8 km/h		
		Rated brush motor power	2 x 90W|0.1hpx2				
		Rated main brush power	800 W|1.1hp				

INDUSTRIAL CLEANING
MACHINE

PUSH
SWEEP

SCRUB, WASH, VACUUM, ALL IN ONE MACHINE.

Cleaning efficiency of 2200 ㎡/h.

- High Efficiency
- Easy to Operate
- Comprehensive Cleaning

AMETEK MOTOR

Equipped with an AMETEK motor, offers unmatched efficiency, power, and durability, making it the perfect choice for all your cleaning needs.

V2024.6

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125L WATER TANK

- Waste Water Tank 65L + Fresh Water Tank 60L

Significantly boosts efficiency and effectiveness, making it an optimal choice for demanding cleaning environments.

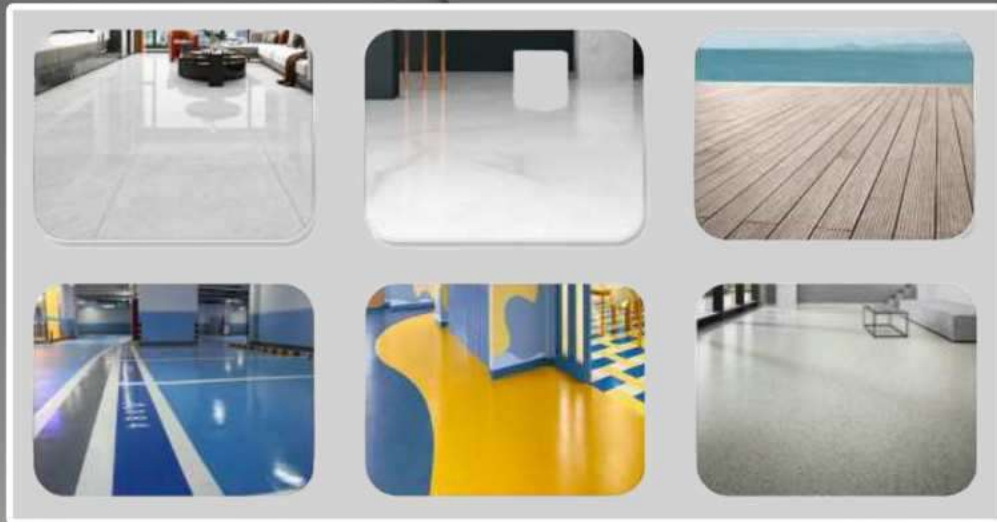65L Waste water tank

60L Fresh water tank

LINATEX ADHESIVE STRIP

- Durable and adjustable

- 820mm corrosion-resistant curved squeegee

HANDLES VARIOUS SURFACES WITH EASE.

SENSORS FOR WATER CONTROL

1. Water level alarm

- Quickly senses water levels; when full, the front panel flashes to alert the operator.

2. Double float ball valve

- After the water level alarm sounds, if the user fails to notice in time and the sewage fills the double balls, it will block the valve, causing the sewage suction scraper to stop working.
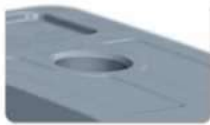
| Epoxy floor | Ceramic tile | PVC flooring |
| Marble | Terrazzo | Wood flooring |

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DESIGN HIGHLIGHTS

Cup holder location
Thoughtful design

Smart panel
Battery level display, easier to grasp/control

Floor brush
Powerful removal of stubborn stains

Non-slip wheels
Thickened anti-slip, not easily damaged

Name	Hand Push Sweeper	Model	FLS-X4
Working efficiency	2200 m2/h	Rated voltage	24V
Water tank	60L	Waste Water tank	65L
Brush plate Pressure	30kg	Turning radius	60cm
Squeegee width	820mm	Brush plate width	510mm
Working time	≈3.5h	Battery pack	100ah
Machine size	1260*1050*550mm	Drive power	300W

APPLICATION SCENARIOS

COMMERCIAL SPACES
Offices, retail stores, and shopping malls.

HOSPITALITY VENUES
Hotels, restaurants, and conference centers.

INDUSTRIAL AREAS
Factories, warehouses, and manufacturing plants.

TRANSPORTATION HUBS
Airports, train stations, and bus terminals.

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APPLICATION SCENARIOS

HEALTHCARE FACILITIES
Hospitals, clinics, and laboratories.

APPLICATION SCENARIOS

PUBLIC BUILDINGS
Government offices, museums, and community centers

EDUCATIONAL INSTITUTIONS
Schools, universities, and libraries.

FITNESS CENTERS
Gyms, sports facilities, and recreational centers.

TRANS SWEEP

TRANS SWEEP WITH SCRUB WASH, VACUUM ALL IN ONE MACHINE .

Cleaning efficiency of 3200 m^2/h.

- High Efficiency
- Easy to Operate
- Comprehensive Cleaning

AMETEK MOTOR

Equipped with an AMETEK motor, offers unmatched efficiency, power, and durability, making it the perfect choice for all your cleaning needs.

V2024.6

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165L WATER TANK

- Waste Water Tank 80L + Fresh Water Tank 85L

  Requires infrequent water refills, allowing for extended cleaning times.

80L Waste water tank
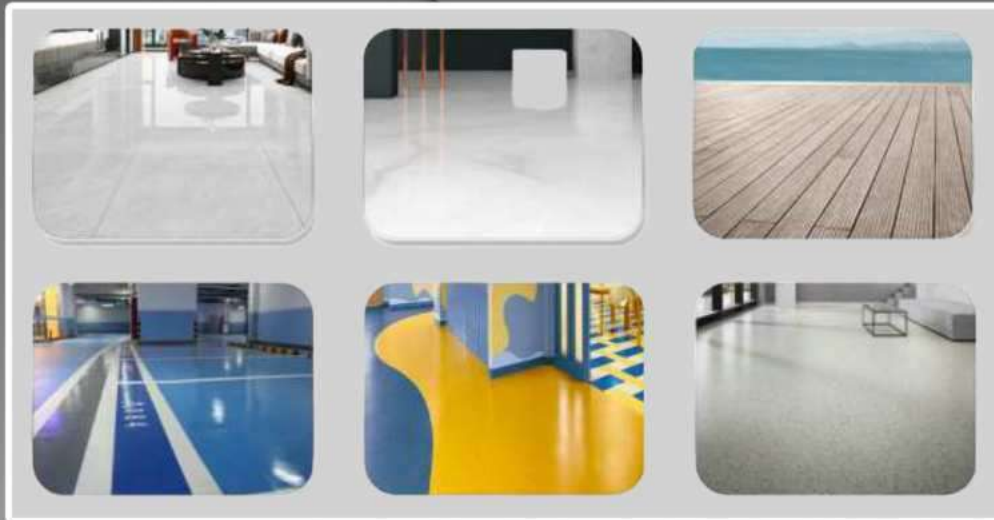
85L Fresh water tank

LINATEX ADHESIVE STRIP

- Durable and adjustable
- 830mm corrosion-resistant curved squeegee

HANDLES VARIOUS SURFACES WITH EASE.

SENSORS FOR WATER CONTROL

1. Water level alarm

- Quickly senses water levels; when full, the front panel flashes to alert the operator.

2. Double float ball valve

- After the water level alarm sounds, if the user fails to notice in time and the sewage fills the double balls, it will block the valve, causing the sewage suction scraper to stop working.

| Epoxy floor | Ceramic tile | PVC flooring |
| Marble | Terrazzo | Wood flooring |

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DESIGN HIGHLIGHTS

Specification	Value
Working efficiency: 3200m2/h	
Clean water tank: 80L	
Brush plate pressure: 36kg	
Squeegee width: 830mm	
Working time: ≈3.5h	
Machine size: 1230*1020*660mm	
Rated voltage: 24V	
Sewage tank: 85L	
Turning radius: 105cm	
Brush plate width: 530mm	
Battery pack: 100ah	
Drive power: 500w	

APPLICATION SCENARIOS

COMMERCIAL SPACES
Offices, retail stores, and shopping malls.

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Hotels, restaurants, and conference centers.

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Factories, warehouses, and manufacturing plants.

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Airports, train stations, and bus terminals.

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PUBLIC BUILDINGS
Government offices, museums, and community centers

EDUCATIONAL INSTITUTIONS
Schools, universities, and libraries.

FITNESS CENTERS
Gyms, sports facilities, and recreational centers.

SURVEILLANCE
ROBOT

SCOUT BOT

50% JOINT TORQUE INCREASED STRONGER RIVING FORCE

The proprietary high-torque joint drive module comes equipped with extremely high torque density, response band width, and reversed transmission efficiency.

- Continuous Max. load has increased 40%, up to 7.5kg

- Endurance doubled, continuous movement up to 90min & 5km

ALGORITHM UPGRADES MORE AGILE AND RESPONSIVE

Stronger surmounting ability and greater maneuverability

- Realize challenging actions of jump over gaps, high jump, front flip

- climb steps up to 15 cm, almost the maximum height for any quadruped robot of similar size

- Other actions like back flip, twist dance & jump, wave hand, moon walk, self-right
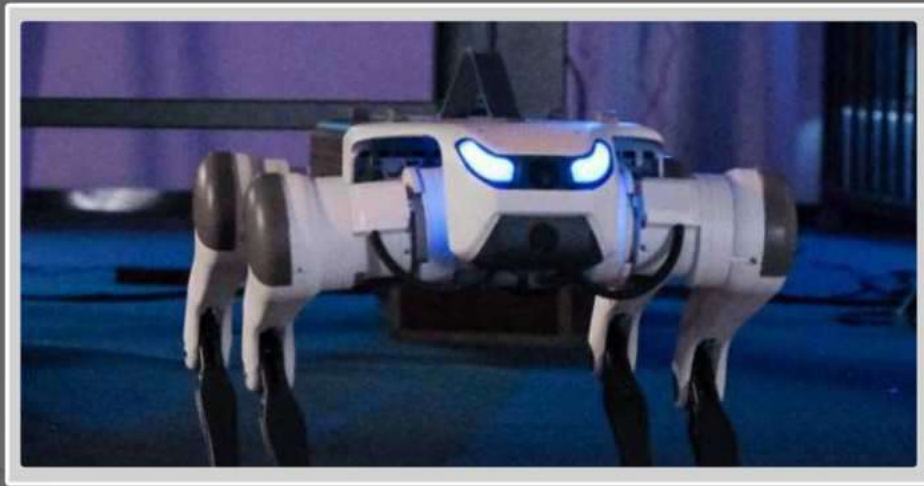
INTERACTION SYSTEM UPGRADES

• Enhanced FPV image transmission, fewer lag errors

• Enhanced lights interaction, users are able to know robot's state in realtime

SAFER & DIVERSE PERCEPTION

• Support front & rear auto-stop, recognition

• object following, obstacle avoidance, and autonavigation.

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INDUSTRIAL-LEVEL CONTROL SYSTEM WITH TRIPLE THE COMPUTING POWER

Industrial IMU

A comprehensive upgrades on stability and computing

- Triple the overall computing power
- With real-time communication, the control frequency up to 1kHz
- Features an industrial-level real-time control system with deeply optimized kernel
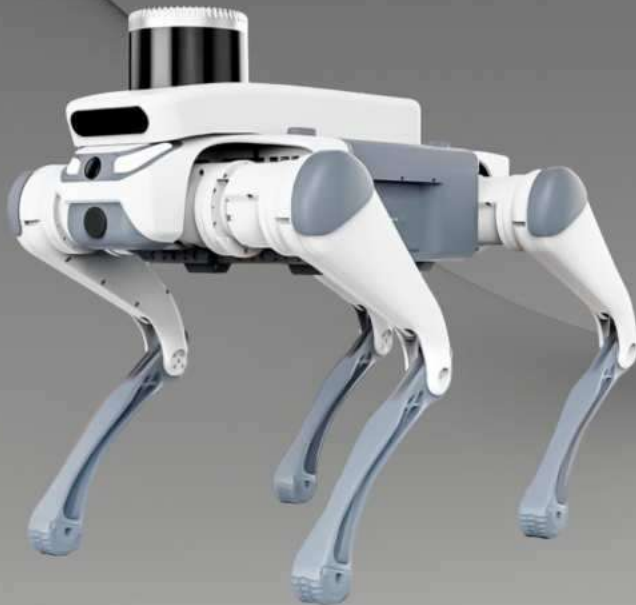
EXPANSION EVOLUTION

Additional applicable module design for unlimited modifications

- Open modular structure & interfaces, support RTK, 5G, AI computer, edge processor and sensors
- Support advanced perceptional development interface (SDK API)
- Supports depth-development of autonavigation, obstacle aviodance, visual positioning, 3D mapping with Lidar & depth camera

FUNC
TUNE

Undaunted by
extreme weather

Surmounting obstacles,
responding promptly

Fusion perception
lights up the darkness

Safe, efficient and
highly collaborative

Extra-long endurance,
quick battery swaps

Stable, reliable
auto-charging

AMR
ROBOT

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NAVIBOT

Navibot is a smart lifting and handling robot designed for efficient material transportation in industrial settings. It features autonomous navigation, real-time obstacle avoidance, and precise lifting capabilities, ensuring smooth operations even in tight spaces. With a durable and compact design, the Navibot is easy to deploy and integrates with a cloud platform for remote monitoring and task scheduling. Also available in lower versions with 80KG, 120KG, 150KG, and 300KG payload models, it supports a maximum payload of 600KG, making it unique in the market. This makes it an ideal solution for businesses seeking reliable and automated logistics support.

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Dimensions	1314 * 950 * 650 mm
Weight	180 KG with durable ABS and sheet metal construction.
Lifting Capability	600KG, Lifting Height 50mm,Speed 5mm/s
IP Level	Robot IP43, battery pack IP66
Display	10.1-inch screen, resolution 1280*800
Operation System	Android 11+ Linux(Ubuntu)
Sensor	LiDAR+Depth Camera +RGB Camera
Battery	22500mAh, 8 hours Deployment of charging piles can provide 7*24h service,Charging Time 1.1 hour
Chassis CPU+Memory	ARM® Quad-core Cortex-A76 2.4Ghz + ARM® Quad-core Cortex-A55 1.8Ghz, RAM: 8GB dual-channel LPDDR4; ROM: 64GB high-speed eMM
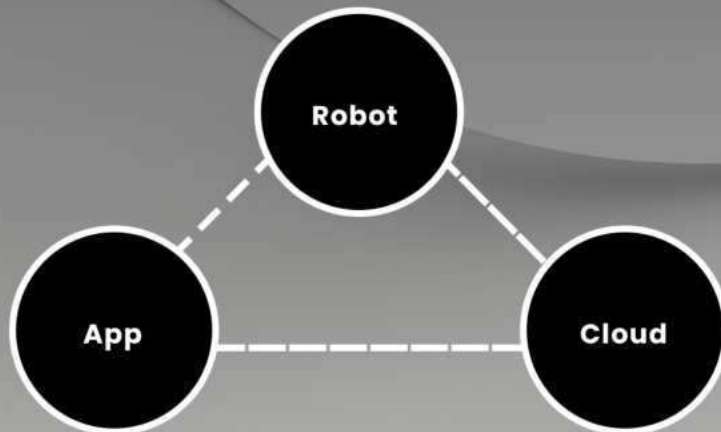
USING SCENARIOS

- SMART WAREHOUSING
- MANUFACTURING AND ASSEMBLY
- E-COMMERCE AND RETAIL LOGISTICS
- HEALTHCARE MATERIAL HANDLING
- AUTOMOTIVE PRODUCTIO

WE ARE LOOKING FOR PARTNERS

- SYSTEM INTEGRATORS
- LOGISTICS PROVIDERS
- RESEARCH AND DEVELOPMENT FIRMS
- INDUSTRIAL FACILITIES
- IT DISTRIBUTOR

Robot

App

Cloud

CONTACT

Email: doodletech01@gmail.com

Website: www.doodlegroup.in

Phone: +91 7021696720

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CAILIFT

Category	Specification	Value
Basic Specs	Rated load(Q)	2000kg
	Vehicle weight (including battery)	370kg
	Overall vehicle length (including safety edge)(L1)	1645mm
	Overall vehicle width (including safety edge) (b1)	850mm
	Navigator bracket reference height (h2)	1890mm
	Load center distance(c)	600mm
	Load distance(X)	865mm
	Wheelbase(y)	1150mm
Fork	Fork dimensions(l/e/s)	1150/170/60mm
	Fork outer distance(b6)	680mm is standard, can be customized in various sizes such as 680, 600, 540, etc.
	Lift height(h3)	205mm
	Minimum ground clearance of the fork surface(h6)	85mm
	Minimum ground clearance (when fork is raised)(m1)	1975+200mm (safety distance)
	Right-angle stacking aisle width (for 1000×1200 pallet) 1200 across fork direction C500(Ast)	1960+200mm (safety distance)
	Right-angle stacking aisle width (for 1000x1200 pallet) 1200 along fork direction C600 (Ast)	1960+200mm (safety distance)
Moving performance	Turning radius (including safety edge) (Wa)	1360mm
	Travel speed, fully loaded/empty	1.0/1.5 m/s
	Lift speed, fully loaded/empty	40/50 mm/s
	Descent speed, fully loaded/empty	50/40 mm/s
	Maximum climbing ability, fully loaded/empty(S2-5m-	3%/5%
	Whether to support outdoor operation	Supports use within qualified campuses
	Positioning accuracy	±5(mm)/±1(°)
	Braking method	Electromagnetic
	Navigation	Free/Track/Hybrid /Follow-me

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Category	Spec	Value
Tire	Tire type, drive side/load side	Polyurethane
	Tire size, load side	φ80*70mm
	Tire size, drive side	φ210*75mm
	Balance wheel	φ72*23mm
	Number of wheels, front/rear (x=drive wheels)	1x+4/4
	Wheel base, drive side(b3)	470
	Wheel base, load side(b3)	520
Drive	Drive motor power (servo motor)	1 kw
	Lifting motor power, (S3-10%) (DC compound excitation)	0.8 kw
	Steering system	Electric steering (servo)
	Steering motor (servo motor)	0.4 kw
Usage environment	Waterproof and dustproof level	Whole vehicle IP43
	Working temperature	-10°C~65°C Anti UV; Anti-corrosion
	Storage temperature	-20°C~65°C
	Charging temperature	5~40°C(Indoor)
Display & Touch	10.1-inch screen, resolution 1280*800	
Network communication	4G	Support,FDD B1/B3/B5/B8 TDD B38/39/30/41
	5G	Supported, 5G module needs to be customized and installed
	Data quota	2G/month per robot
	WIFI	Wifi module (AP6256) 2.4G&5GHz, supports 802.11a/b/g/n/ac protocol
	Bluetooth	Bluetooth 5.0, BLE
Os	Android 11+ Linux(Ubuntu)	
Sensor	Navigation lidar*1	Detection range: 360°, detection distance: 0.05~40m
	Obstacle avoidance lidar*2	Detection range: 200°, detection distance: 0.05~40m
	Fork tip obstacle avoidance lidar*1	Detection range: 180°, detection distance: 0.05~12m

Category	Spec	Value
Sensor	Depth camera*2	FOV: H 72°(±3°) V 50.5°(±3°), detection distance: 0.3~4m
	RGB camera*2	215°FOV, resolution 1280*7201x+4/4
	IMU	6DOF; rate dynamic range: ±2000dps; accuracy: 0.01 degrees
	Wheel speedometer	odometer
Charging & battery life	Battery	Charging voltage: 48V
		Capacity: 50Ah
		Battery life: 6-8 hours Deploying charging piles can achieve 7*24h service
		Charging method: automatic/manual
		Battery weight: 55kg0.8 kw
		0%-100% charging time: 1.6 hours
		For details about charging piles, please see the "Charging Piles" table
	Charging Pile	H*W*D：370mm *292mm*395mm
		Weight：30kg
		Input：100-240V ac~50/60 Hz
		Output：32~64V dc==1-30A
Control	Chassis CPU	ARM® Quad-core Cortex-A76 2.4Ghz + ARM® Quad-core Cortex-A55 1.8Ghz
	Screen CPU	ARM® Quad-core Cortex-A55 2.0Ghz
	Chassis GPU	Mali-G610
	Screen GPU	Mail-G52
	Chassis memory	RAM: 8GB dual-channel LPDDR4; ROM: 64GB high-speed eMMC
	Screen memory	RAM: 2GB dual-channel LPDDR4; ROM: 16GB high-speed eMMC
	Image process	Support OpenGL ES 1.1/2.0/3.0, OpenCL1.2, DirectX11
		Embedded high-performance 3D acceleration hardware
		H.264/H.265/VP9 up to4Kx2K @60fps H.264/H.265 decoder supports 10bit decoding
		1080P multi-format video decoding, supporting H.264, VP8 and MVC

Interaction	Indicator light	LED
	Loudspeaker	2
	Emergency stop button	2
Safety	Bumper	Front
External device	External device	Elevator control, automatic doors control, notification lights and speakers, pagers, Pads, following bracelets, rollers, shelves, pallets
Platform	WeChat、APP	WeChat remote management, the mini program can realize functions such as issuing robot task instructions, editing map functions, and visualizing task without downloading and installation.
	Robot management big data cloud platform	Permission allocation and business management of robot users; operational data analysis
	Remote monitoring platform	Real-time status monitoring of robots; real-time alarm and remote processing of faults;
	Remote deployment management platform	Remote deployment can be realized, and the robot remotely scans and edits the map.
	Remote dispatch management platform	**Remote cross-space scheduling**
	Real-time data visualization large screen	Display the real-time status and operational statistical analysis of robots under different businesses

BENEFITS OF MYROBOTKITS PALLETIZING SOLUTION

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Large Payload	Easy to Configure
UP to 20Kg/ 1500N Payload/ 2100mm height	Process Package/ Only 5 steps to configure

High Pace	Flexible Deployment
8-13 pace/m, single/dual suction mode	Modular Layout, Plug and Play

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PALLETIZING WORKSTATION COMPOSITION

1.Dobot CR20A Cobot

This device boasts an impressive maximum payload capacity of 20 kg, a working range of up to 1,700 mm, and a wider coverage area, making it highly capable of effectively man_x0002_aging palletizing tasks.。

2. Lifting Axis

The height of the column has the potential to increase by up to 900 mm, while the maximum height for palletizing can reach 2,100 mm.

3.Fixed Column

The square tube used for welding is 8 mm thick and possesses a stable structure. It is designed with a fixed height of 1,150 mm and can reach a maximum palletizing height of 1,740 mm.

4.Standard Palletizing Base

The palletizing base is equipped with a comprehensive electrical control and communication system, ensuring seamless integration. Its modular hardware design simplifies the construction process, allow_x0002_ing for greater ease and efficiency. Addi_x0002_tionally, the inclusion of a reserved forklift hole position enhances convenience during production line changes.

5.Pallet Detection and Positioning Device

The pallet detection and positioning device serves the function of identifying the existence of a pallet at the workstation and verifying that it has been appropriately positioned at the specified location. Its primary role is to detect whether a pallet has been installed and to ensure its precise deployment.

6. External Terminal Panel

With the inclusion of terminal fast-on functional_x0002_ity, the panel offers a convenient and rapid means of connecting to the client control signal. Moreover, the presence of reserved I/O signal interfaces simplifies the process of integrating external devices or systems, allowing for seamless expansion and enhanced versatility.

7.End-effector Vacuum Suction Tools（Optional）

Schmalz offers vacuum suction tools that can handle payloads of up to 20 kg and cover a large surface area.

CONTACT US

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