

About Legend Robot

Redefining the Physical Boundaries of Construction

Founded in 2021, Legend Robot stands at the forefront of the "Full-Chain Intelligent System." Our mission extends beyond mere robotics manufacturing; we are reconstructing the fundamental logic of the construction industry through digital innovation.

By deeply integrating perception, decision-making, execution, and cloud connectivity, we empower our machines with industrial-grade precision. This synergy enables autonomous decision-making and flawless execution—even within the most complex environments. From 3.3m residential finishing to 6.2m high-altitude public projects, and from automated paint spraying to millimeter-level tile laying, Legend Robot is transforming traditional construction sites into standardized, data-driven digital factories.

We honor the spirit of craftsmanship while striving to eliminate high-risk, repetitive labor through technology. In the vision of Legend Robot, construction professionals are no longer mere laborers; they are the commanders of intelligent systems, jointly ushering in a new era of efficiency and dignity.

Contact Us:

WhatsApp: +8618126152125

Email: marketing@legendrobot.com

Website: www.legendrobot.com



Legend Robot



WhatsApp



LinkedIn



Master-Level Precision. Fleet-Level Power.

Unmanned solutions for spraying,
tiling, and grinding

LEGEND ROBOT | Company Profile

About Us: Founded in 2021, Legend Robot Technology is a high-tech pioneer specializing in the R&D and manufacturing of construction robotics. We are dedicated to driving the industry's digital transformation through intelligent equipment and cloud-integrated solutions.

Our Mission

- **Empowering Construction with Intelligence:** We leverage continuous technological innovation to enhance productivity, engineering quality, and site safety standards.
- **Honoring Practitioners with Dignity:** By lowering technical barriers, we liberate workers from heavy labor, empowering them to transition into skilled technicians.

R&D Excellence: Our innovation is anchored in a full-chain intelligent system. We focus our R&D on four core pillars—Perception, AI Decision-making, Precision Execution, and Cloud Connectivity—enabling robots to navigate complex environments with high autonomy.

Product Portfolio



Residential Projects

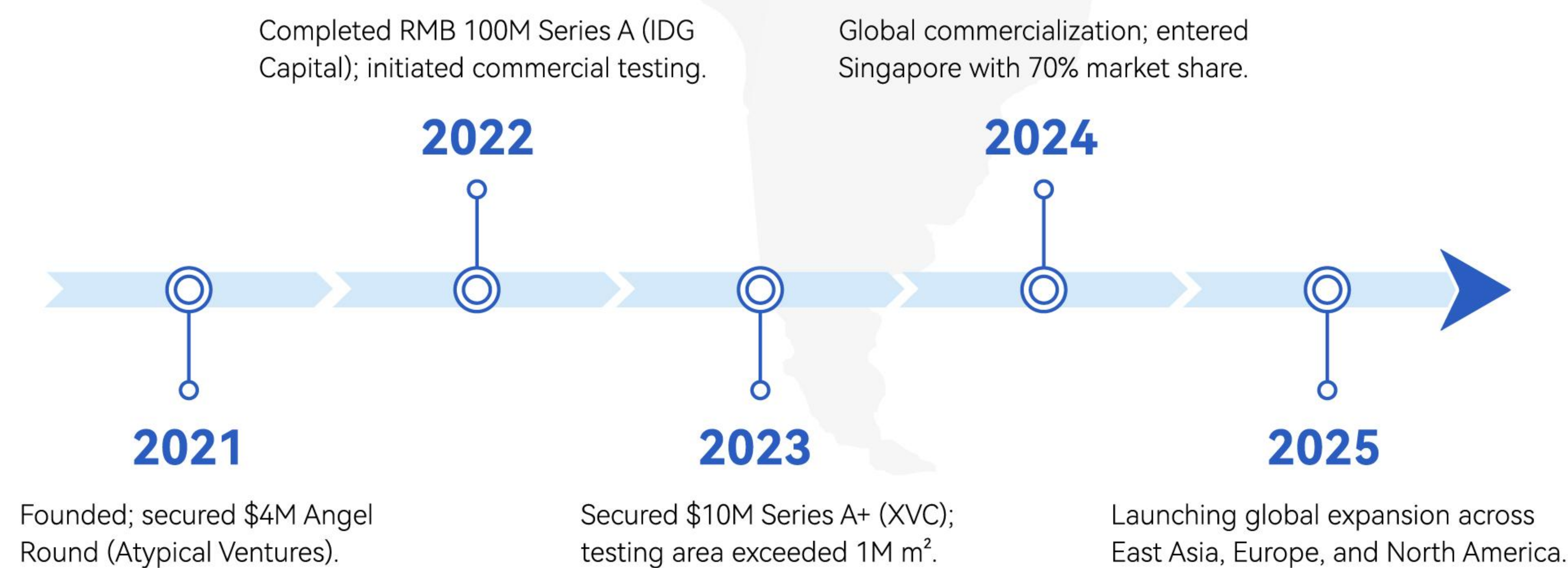
Latex Paint/Putty Spraying Robots (3.3m) and Tile-Laying Robot.



Commercial Projects

High-reach Latex Paint/Putty Spraying Robots (6.2m) and Floor Grinding Robot.

Milestones



Legend Robot: AI-Powered Full-Chain Intelligence System

Legend Robot's proprietary full-chain intelligent system integrates four core modules—Perception, Decision, Execution, and Cloud Connectivity. It drives the industry's intelligent upgrade by enhancing efficiency, quality, and safety.

Perception | Full-Range Intelligent Perception

The "Keen Eyes": Powered by 3D LiDAR scanning and AI, the system creates real-time Digital Twin models, ensuring high-precision environmental control.



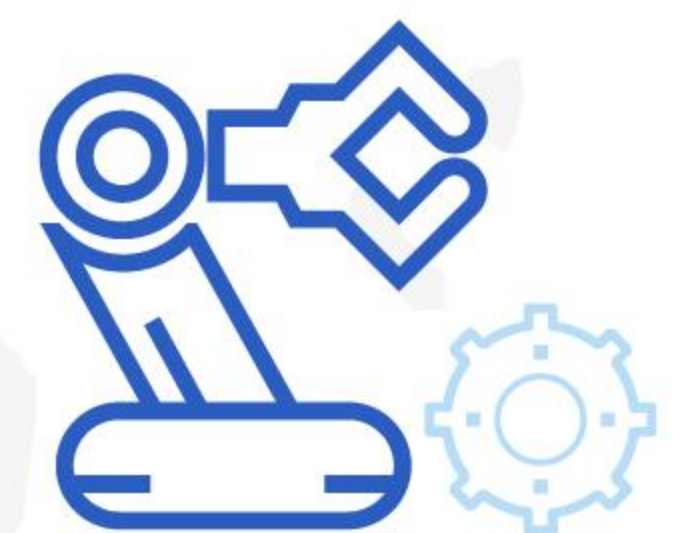
Decision | AI Smart Decision-Making

The "Powerful Brain": Leveraging big data and AI algorithms, the system autonomously plans optimal construction paths, transforming complex techniques into precise digital commands.



Execution | Reliable Precision Control

The "Skilled Hands": Through multi-axis coordination and high-precision control, we achieve millimeter-level accuracy, delivering consistent, industrial-grade quality that surpasses manual standards.



Cloud Connectivity | Collaborative Ecosystem

The "Smart Hub": The cloud platform acts as the command center for project management, enabling multi-robot coordination and data interoperability to drive continuous system evolution.



Latex Paint Spraying Robot (3.3m)

The Agile Indoor Pioneer.



Quality - 70µm Micron-Level Precision
Breaking the limits of manual coating. It precisely controls film thickness to achieve a 70µm micron-level coverage, presenting an impeccably smooth finish.



Coverage - 95%+ Full Scene Coverage
Equipped with agile environmental perception, it easily maneuvers through complex indoor corners, achieving over 95% blind-spot-free coverage.



Efficiency - Non-Stop Mobile Spraying
Efficiency - 1800 m²/day non-stop spraying. Featuring the industry's first "spray-while-moving" technology. Say goodbye to traditional stop-and-go operations, making the construction workflow exceptionally fast and smooth.



Safety - Zero-Incident Track Record
Rigorously tested in massive real-world jobsites, maintaining an outstanding zero-incident record to provide the most reassuring automated safeguard for your crew.



Ease of Use - One-Touch Tablet Control
Ditching complex mechanical panels. With an intuitive tablet interface, command the entire process with a single tap—turning novices into masters instantly.



Reliability - 0.33 Failures/Month (Ultra-Stable)
Built on a highly stable industrial architecture, keeping the average failure rate down to an astonishing 0.33 times per month, ensuring project deadlines are always met.

Latex Paint Spraying Robot (3.3m) is a leader in interior automated spraying. Designed for residential and commercial spaces, it delivers 1800 m²/day non-stop spraying and achieves 95%+ coverage. With unmanned operation, one operator can manage three units, revolutionizing coating efficiency.



Mobile Continuous Spraying Technology



Self-Perception Decision & Execution



Most Compact Design



Long-Lasting Battery Life

Advantages

World's First Mobile Spraying Technology: Synchronized movement and coating eliminates pauses, doubling work efficiency.

Most Compact Design: A sub-800mm body and zero turning radius ensure 100% accessibility in tight spots.

Long-Lasting Battery Life: Supports 8 hours of continuous operation on a single charge for full-day productivity.

Parameters

Dimension	Weight	Battery Life / Power
780mm * 780mm * 1750mm	590kg	8h
Capacity	Width	Working Speed
56L	800mm	0.1-0.5m/s
Spraying Height	Spraying Pressure	Operation Configuration
3.3m	15MPa	1 Worker + 3 Robots

Putty Spraying Robot (3.3m)

The Base Treatment Expert.



Quality - Mirror-Like Flatness & Thickness Control
Features an ultimate thickness control algorithm, ensuring consistent putty layers and laying a mirror-like perfect foundation for subsequent latex paint spraying.



Coverage - Blind-Spot Free Operation
The optimized robotic arm structure and kinematics completely eliminate operational blind spots, flawlessly handling demanding areas like corners and edges.



Efficiency - 500-1000 m²/Day High Capacity
Unleashing immense power to deliver up to 1,000 square meters of high-capacity output per day, drastically shortening the base construction cycle.



Safety - Dual-Shield Protection System
Built-in hardware and software dual-shield protection systems comprehensively safeguard the machine and surrounding personnel, leaving you with zero safety concerns.



Ease of Use - No Programming Skills Needed
Completely breaks down technical barriers. The foolproof interaction logic allows ordinary workers to easily command the robot without writing a single line of code.



Reliability - Anti-Clogging Filtration Design
An exclusive filtration design solves the industry pain point of high-viscosity putty clogging the pump at the source, guaranteeing long-lasting smooth operation.

Putty Spraying Robot (3.3m) is a customized indoor expert for residential and commercial spaces. This "one robot, two functions" system automates putty and paint spraying for walls and ceilings with 80%+ coverage. It optimizes the entire workflow through efficient human-robot collaboration



Advantages

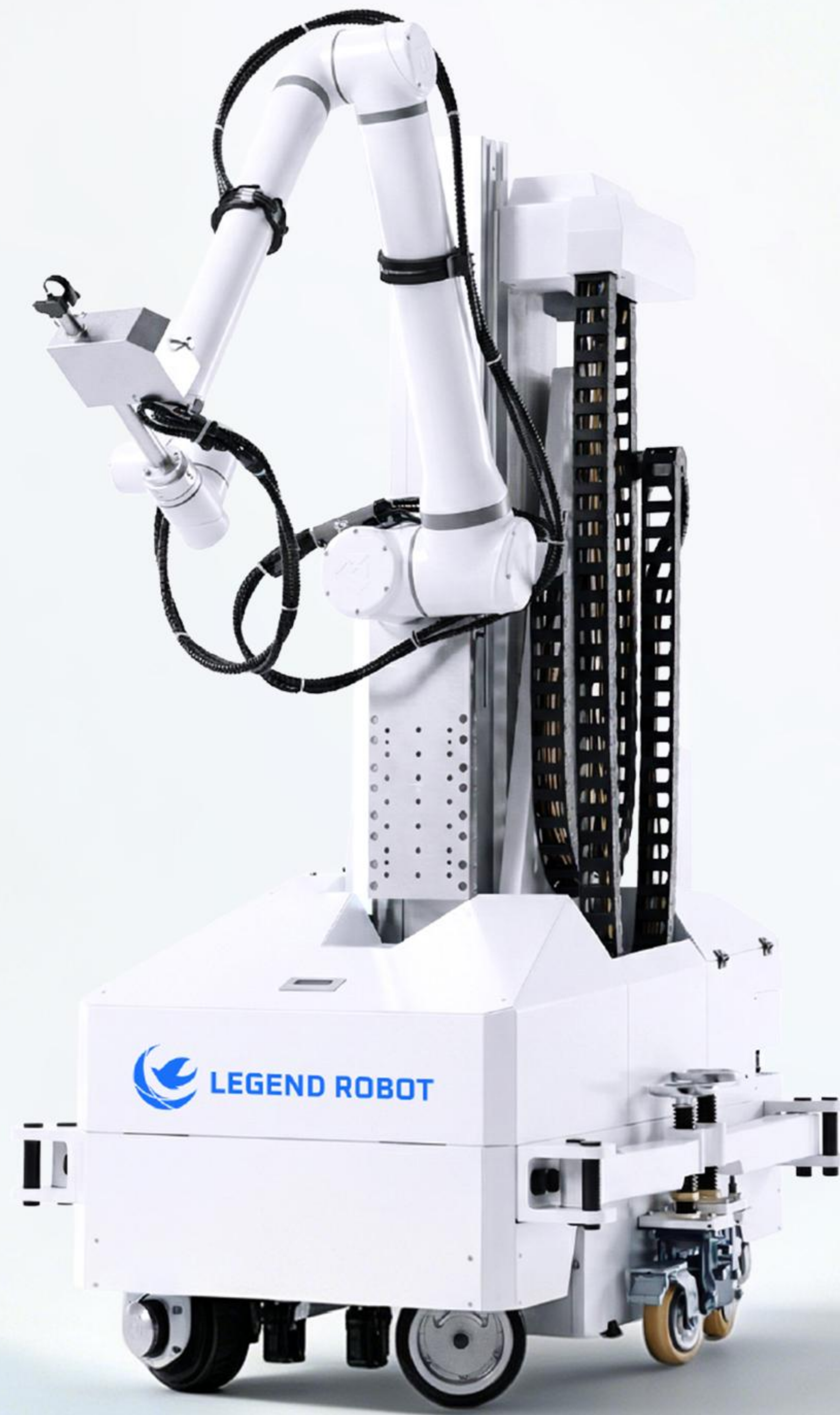
- World's First Mobile Spraying Technology:** Enables simultaneous movement and spraying, boosting efficiency by 1.5x-2x over traditional methods.
- Most Compact Design in the Industry:** With a body measuring under 800mm and an omnidirectional chassis featuring zero turning radius, it ensures 100% site accessibility in narrow spaces.
- Proprietary Mixing & Filtration System:** Prepares 45L of impurity-free material in just 5 minutes to supply the robot's 60L internal hopper, eliminating clogging risks at the source.
- Built-in Filtration System:** Features an integrated three-stage filtration process to minimize mechanical failure and downtime.

Parameters

Dimension	Weight	Battery Life / Power
780mm * 780mm * 1750mm	620kg	4h
Capacity	Width	Working Speed
60L	800mm	0.1-0.5m/s
Spraying Height	Spraying Pressure	Operation Configuration
3.3m	20MPa	1 Robot + 2 Workers (1 for operation, 1 for scraping)

Latex Paint Spraying Robot (6.2m)

The High-Altitude Smart Coating Titan.



Quality - 70µm ± 5µm Single-Coat Precision
Even at a soaring height of 6.2 meters, it maintains an astonishing 70µm ± 5µm consistency, achieving high-quality single-coat perfection.



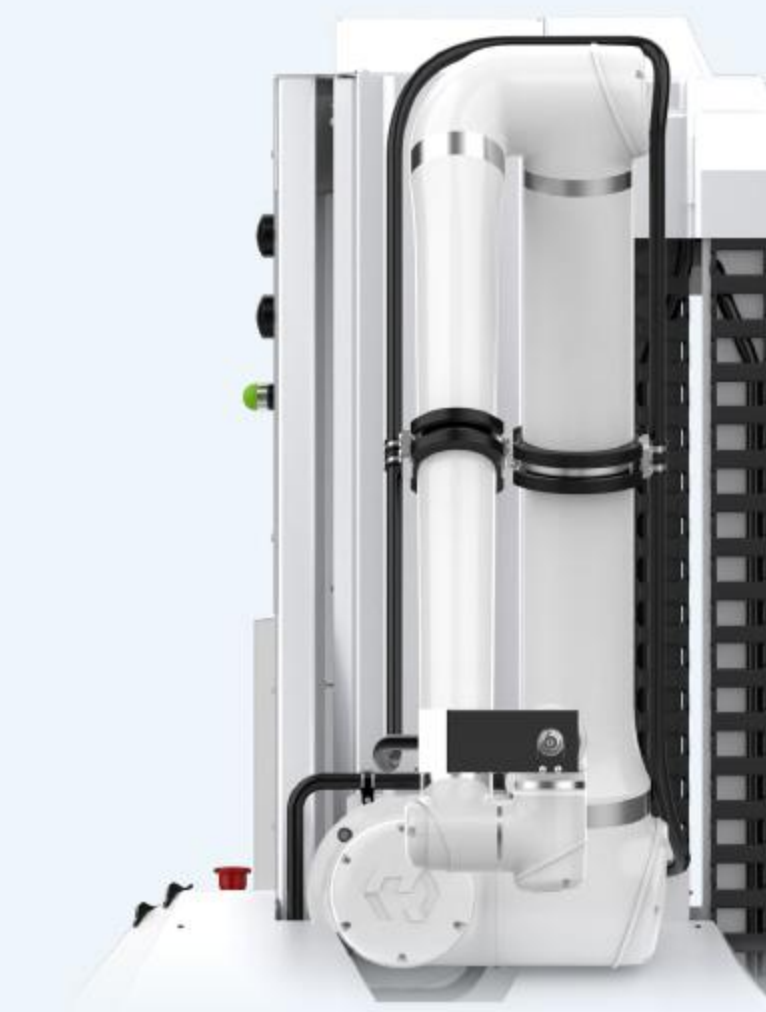
Coverage - Complex Environment Adaptability
Fearless of complicated commercial sites. Its exceptional environmental adaptability allows it to maneuver seamlessly between complex pipelines and pillars.



Efficiency - 2,400-3,000 m²/Day Massive Output
Built for the big stage. It delivers a massive 3,000 square meters of daily spraying output, single-handedly carrying the progress of your entire project.



Safety - Dual-Layer Protection; Zero Incidents
Establishes active and passive dual-layer safety mechanisms, maintaining a flawless zero-incident record even in complex high-altitude environments.

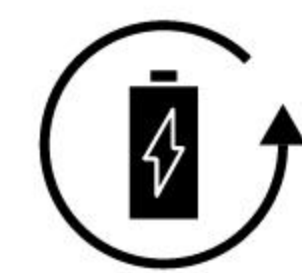


Ease of Use - One-Click Tablet Control; No Programming
Despite its massive size, operation remains incredibly simple. Total command is just a touch away with no coding required.

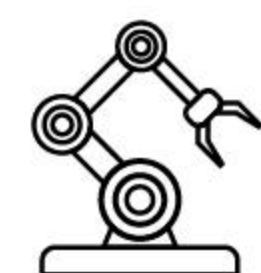


Reliability - 0.33 Failures/Month (1/5th Avg)
With a failure rate at only one-fifth of the industry average, it serves as the irreplaceable anchor of stability in large-scale projects.

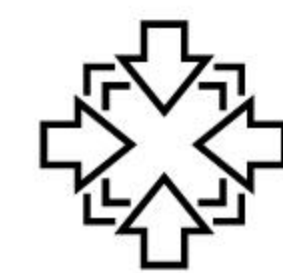
Latex Paint Spraying Robot (6.2m) is an automated high-altitude expert designed for industrial and public buildings. With a 6.2m reach and 95%+ coverage, it allows one operator to manage two robots, maximizing efficiency for expansive spaces.



Long-Lasting Battery Life



Telescopic Outrigger



Compact Body



Intelligent Adjustable Support System

Advantages

Compact Body: Ultra-compact body (< 800mm width) with zero turning radius ensures easy navigation in standard spaces.
Telescopic Outrigger: Retractable design ensures easy transport and narrow passage access, providing rock-solid stability when extended.
Long-Lasting Battery Life: 12-hour battery life supports high-intensity tasks for continuous, stable productivity.

Parameters

Dimension	Weight	Battery Life / Power
1450mm * 780mm * 1750mm	950kg	12h
Capacity	Width	Working Speed
100L	800mm	0.1-0.5m/s
Spraying Height	Spraying Pressure	Operation Configuration
6.2m	15MPa	1 Worker + 2 Robots

Putty Spraying Robot (6.2m)

The High-Ceiling Surface Finishing Flagship.



Quality - 1.2-1.5mm / 0.6-0.9mm Thickness Control
Precisely matching different construction phases: achieving 1.2-1.5mm even coverage for the first base coat, and exactly 0.6-0.9mm for the second, ensuring strict quality at every layer.



Coverage - Dead-Zone Free Coverage
A robust robotic arm paired with flexible nozzle postures completely eliminates high-altitude blind spots, ensuring a seamless finish from the skirting to the ceiling.



Efficiency - Up to 2,000 m²/Day Capacity
Capacity on demand. The first coat yields 1,000-1,200 m² daily, while the second coat soars to 1,600-2,000 m², offering astonishing efficiency.



Safety - Real-Time Monitoring; 100% Accident-Free
Equipped with a real-time safety monitoring network to ensure a 100% accident-free environment, keeping high-altitude operations safely under control at all times.



Ease of Use - Visual UI with Standardized Presets
The visual interface comes with multiple standardized process presets. With just one click, the machine automatically matches the optimal spraying parameters.

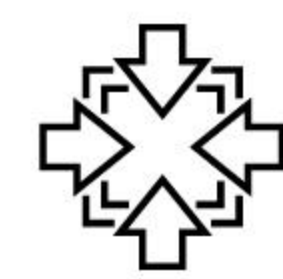


Reliability - Full Lifecycle Support & Fast Response
Providing full-lifecycle equipment support and rapid response services, ensuring this productivity beast stays in peak condition.

Putty Spraying Robot (6.2m) is a high-altitude intelligent expert for large public buildings. With a 6.2m reach and 80%+ coverage, this "one robot, two functions" system supports human-robot collaboration for efficient spraying and scraping.



Mobile Spraying Technology



Most Compact Design



Proprietary Mixing System



Built-in Filtration System

Advantages

- Ultra-Compact Design:** Industry-first ultra-thin body (<800mm) with zero turning radius ensures easy navigation in narrow international standard corridors.
- Intelligent Adjustable Support System:** Telescopic outriggers allow compact transport and deploy into a steady 4-point base for safe 6.2m high-altitude operation.
- Long-Lasting Power Solution:** 8 hours of continuous operation on a single charge handles full-day high-intensity demands.
- Smart & High-Power Putty Mixer:** Dedicated mixer with "one-grind, dual-filter" process ensures smooth, particle-free putty for quality spraying.
- Triple-Stage Filtration Technology:** Patented progressive triple-stage filtration eliminates impurities before spraying for a consistent finish.

Parameters

Dimension	Weight	Battery Life / Power
1500mm * 780mm * 1750mm	1000kg	8h
Capacity	Width	Working Speed
100L	800mm	0.1-0.5m/s
Spraying Height	Spraying Pressure	Operation Configuration
6.2m	20MPa	1 Robot + 2 Workers

Tile Laying Robot

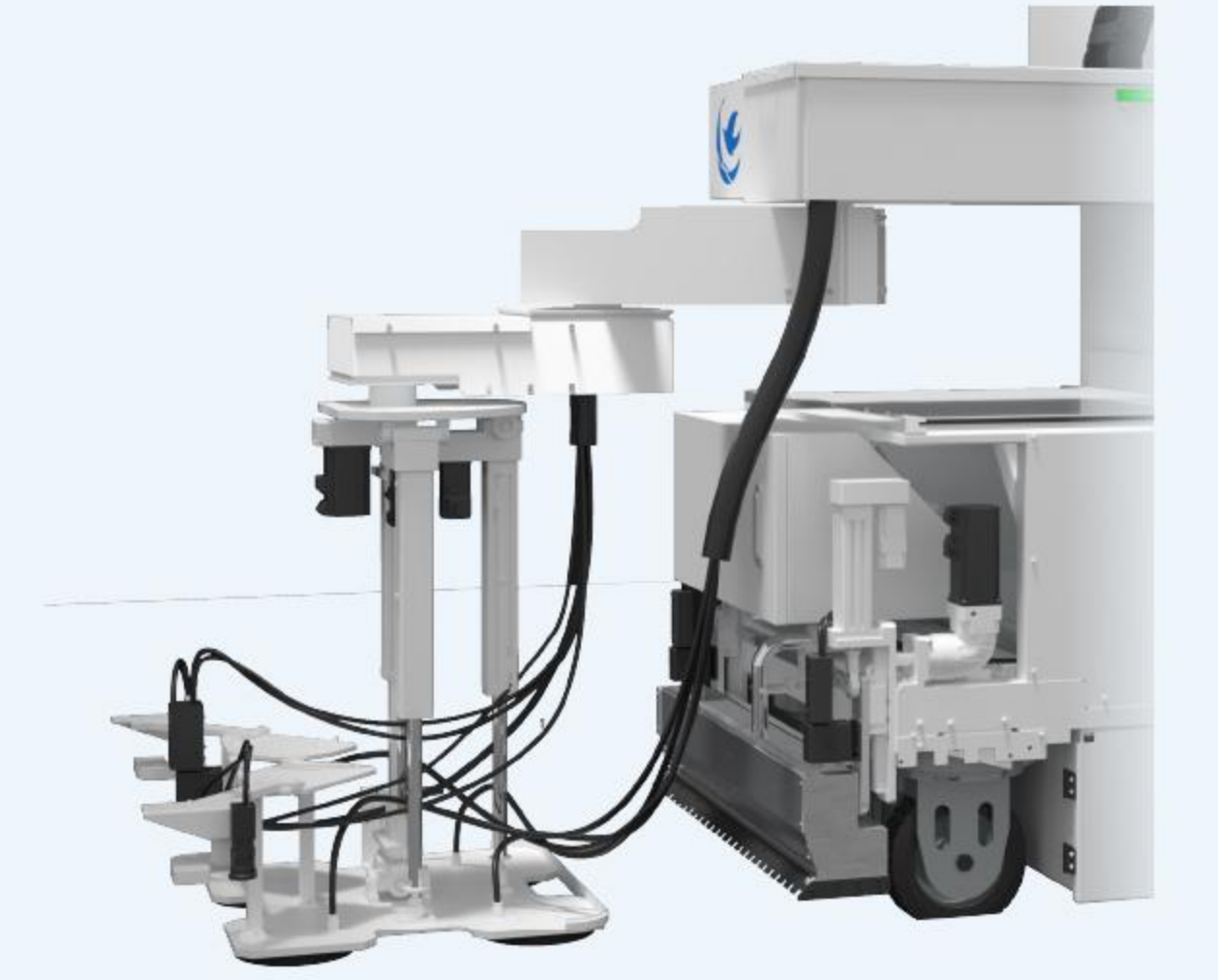
The Millimeter-Level Tiling Master.



Quality - ±0.1mm Joint & 1mm Flatness
Introducing high-precision industrial vision to achieve a flatness error of ≤1mm and strictly keeping grout joint errors within ±0.1mm, far surpassing human craftsmanship.



Coverage - Compact Footprint for Narrow Space Agility
Featuring an ultra-compact design that easily passes through standard doors and elevators, displaying extraordinary agility in the narrowest indoor spaces.



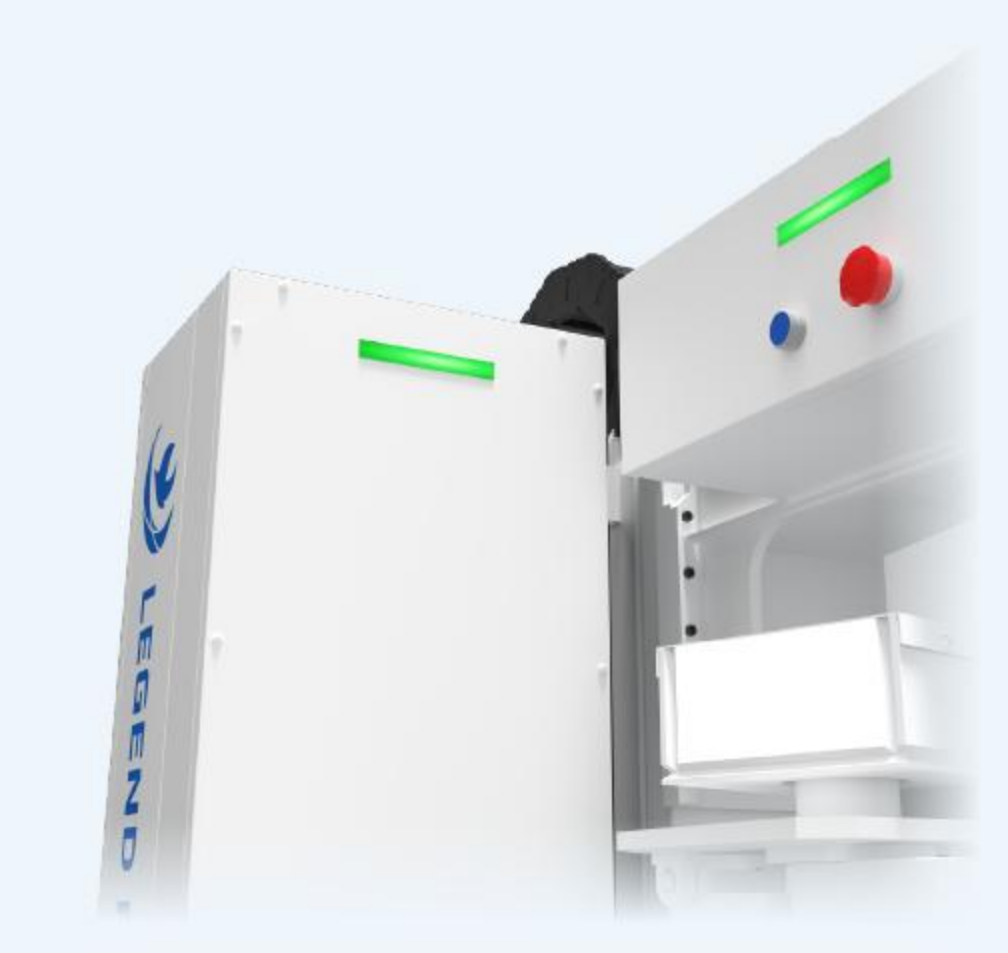
Efficiency - 80-120 Tiles/Day (Equals 6-8 Workers)
One machine effortlessly replaces the daily output of a whole team of skilled workers, tirelessly laying up to 120 tiles per day with perfect precision.



Safety - Dual-Layer Protection; Zero Incidents
Equipped with a dual-layer safety protection network—from physical anti-collision to system emergency stops—comprehensively ensuring absolute safety in human-robot collaboration.



Ease of Use - One-Click Tablet Control; No Coding
Designed for the jobsite. It completely eliminates tedious code input, allowing traditional masons to quickly transition into robot commanders.



Reliability - Durable Performance with Minimal Maintenance
Built with high-strength durable components and rigorously tested core structures, maintaining excellent operational status with minimal daily maintenance.

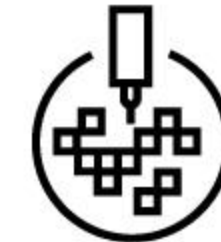
Tile-Laying Robot is suitable for indoor tiling work in residential buildings, apartments, hotels, office buildings, and similar settings. It enables fully automated tile installation on floors.



Same-Direction Tiling Technology



Ultra-Compact Design



Millimeter-Level Visual Alignment



Even Adhesive Application

Advantages

Same-Direction Tiling Technology: Utilizes a leading same-direction pick-and-place method, eliminating the need for rotary arm movement to operate efficiently with strong adaptability in narrow spaces.

Millimeter-Level Visual Alignment: Equipped with a 40kg SCARA and deep-learning vision system to calculate relative positions in real-time, ensuring grout joint errors stay within ±0.1 mm and flatness deviation within 1 mm.

Ultra-Compact Design: Among the most compact in its class, featuring a depth of less than 800 mm to easily access most rooms and elevators compliant with building standards.

Even Adhesive Application: An advanced multi-sensor control system enables precise control over the adhesive spread, significantly reducing the risk of hollow tiles and maintaining perfect flatness.

Parameters

Dimension	Weight	Battery Life
960mm * 780mm * 1750mm	600kg	4h
Capacity	Width	Working Speed
60L (Adhesive) & 5pcs (Tiles)	—	—
Suitable Tile Size	Payload	Operation Configuration
800×800mm / 600×600mm	20kg (Max)	1 Robot + 2 Workers (one for operation, one for material supply)

Floor Grinding Robot

The Smart Floor Terminator.



Quality - Consistently High Quality via Preloaded Downforce
A unique preloaded downforce design forces the grinding discs to tightly grip the floor, minimizing contact gaps to output consistently high-quality grinding results.



Coverage - 95%+ Coverage with Wraparound Strategy
Its smart "brain" enables a wraparound grinding strategy, achieving over 95% flawless coverage whether in wide-open spaces or around complex pillars.



Efficiency - Up to 4,000 m²/Day Polishing Output
Astonishing industrial-grade throughput. In polishing mode, the daily capacity skyrockets to a massive 4,000 square meters, far exceeding human limits.



Safety - Dual-Protection System (Active + Passive)
Equipped with an integrated active detection and passive anti-collision safety system, accurately avoiding obstacles in complex sites to guarantee all-weather operational safety.

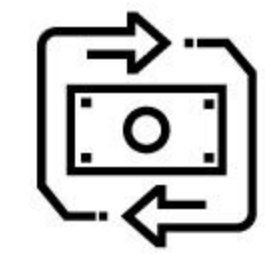


Ease of Use - Tablet-Controlled Visual UI
Features a high-tech tablet visual UI, making operation paths, equipment status, and task progress crystal clear at a glance.



Reliability - Ultra-Low Failure Rate with Full-Service Coverage
Challenging extreme industrial environments while maintaining an ultra-low failure rate, coupled with full-service coverage to keep your floor projects running non-stop.

Floor Grinding Robot is designed for automated floor treatment in scenarios such as underground parking garages, factory workshops, laboratories, and sports venues. It supports fully automated grinding and dust collection for concrete hardener floors, dry shake hardener floors, and epoxy floors.



Automatically plan a path



Autonomous environment recognition



Dust Collection System



Preloaded Downforce Design



Compatible Grinding Discs

Advantages

Dust Collection System: Equipped with an automatic 100L high-capacity dust bin to hold more debris and reduce replacement frequency. The quick-release mechanism allows for one-button loading and unloading, making maintenance fast and easy.

Compatible Grinding Discs: Supports quick-swap interfaces for both square and round grinding discs, offering greater versatility across different application scenarios.

Preloaded Downforce Design: Utilizes a heavy self-weight and preloaded downforce design to minimize gaps between contact surfaces. This enhances structural rigidity and improves overall system stability, resulting in better grinding quality.

Parameters

Dimension	Weight	Power Supply
2450mm × 960mm × 1750mm	1250kg	Plug-in work
Dust Collection Bin	Grinding Width	Grinding Speed
100L	780mm	0.1-0.5m/s
Working Voltage	Rotated Power	Operation Configuration
AC380V	25kw	1 Robot + 1 Workers