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.

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LEGEND ROBOT

Millimeter Precision. Flawless Tiling.

Tile Laying Robot

The 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.

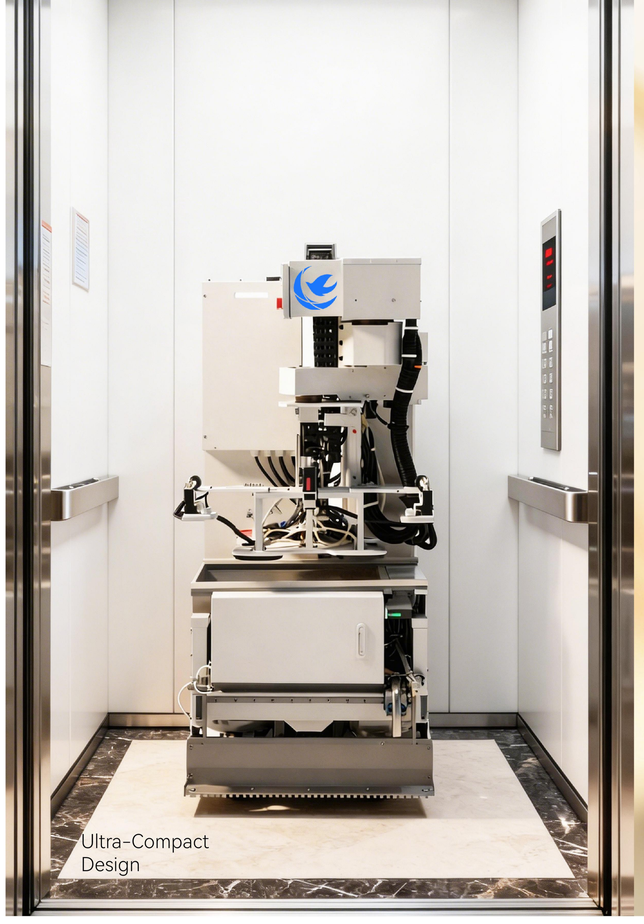
Same-Direction Tiling Technology

Millimeter-Level Visual Alignment

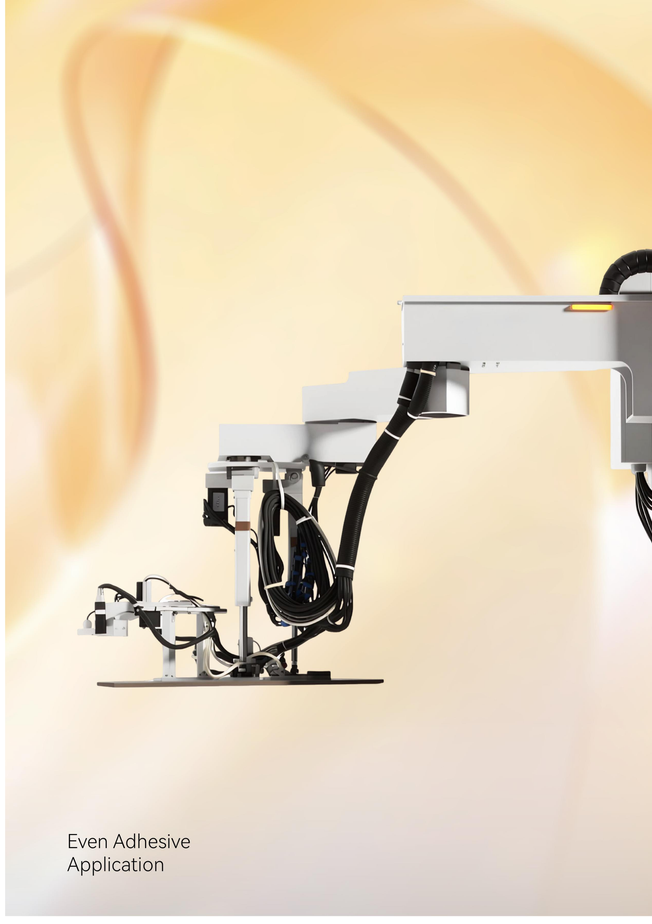
Ultra-Compact Design

Even Adhesive Application

Same-Direction
Tiling Technology


Ultra-Compact
Design

Millimeter-Level
Visual Alignment


Even Adhesive
Application

Tile Laying Robot

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

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

6 Key Features

Feature	Description
Quality	±0.1mm joint & 1mm flatness precision
Coverage	Compact footprint for narrow space agility
Efficiency	80–120 tiles/day (equals 6-8 skilled workers)
Safety	Dual-layer protection; zero incidents
Ease of Use	One-click tablet control; no coding skills needed
Reliability	Durable performance with minimal maintenance