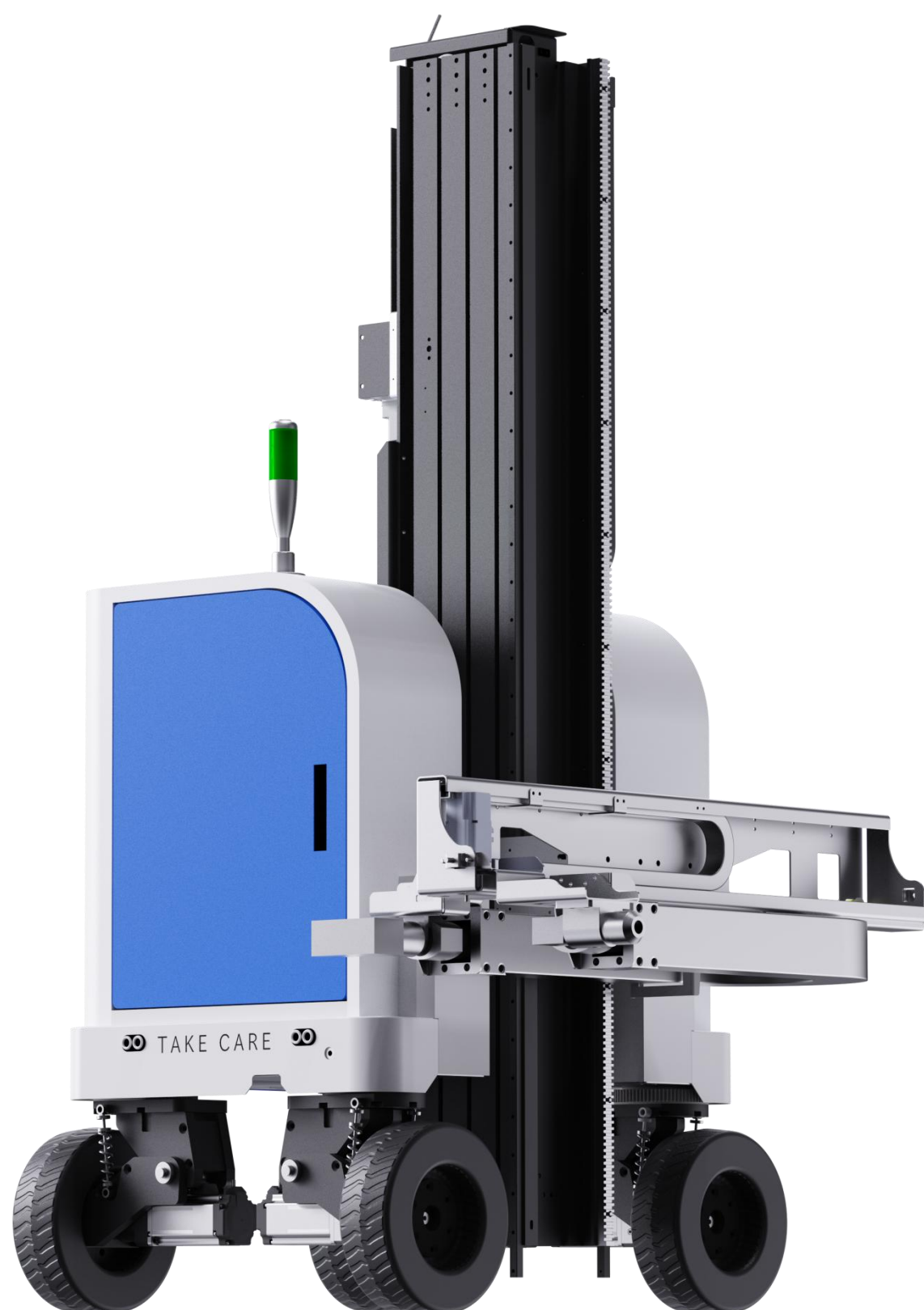




DERUTU

MORE INTELLIGENT # WORLD FOR CONSTRUCTION

Automatic Coating Robot
DM-ACR-100





DM-ACR-100 parameters

Dimensions	110*110*205cm
Weight	<400kg
Working Height	5.7m
Working Width	1m
Automatic Navigation Accuracy	±50mm
Working Voltage	DC48V
Battery Capacity	100Ah
Obstacle Clearance Height	0-10cm
Climbing Angle	[-30°, +30°]
Mobility	omnidirectional translation and 360° rotation in place
Runtime	5h
Movement Speed	≤1.0/s

Introduction

DM-ACR-100 is equipped by SLAM laser navigation, and enables autonomous route planning, obstacle avoidance, and intelligent operation. Its self-developed AGV chassis provides excellent mobility on complex surfaces, such as muddy and sandy terrain, while the patented frictionless steering compensation system protects delicate floors, like epoxy primer surfaces. Connected with smart construction systems, it delivers real-time construction data. Unmanned spraying operation delivers uniform, dense, and adjustable spraying with strong adhesion and no hollowing issues. DM-ACR-100 completes full-area plastering within a 5.7 m working height for cement, gypsum, polymer mortar, and more. It redefines the efficiency and quality limits of mechanized plastering with intelligent technology.

Technical Advantages

- **Unmanned Operation:** Automatic mapping → path planning → autonomous operation. One-click operation for the whole construction process.
- **Informatization:** Interconnected data, supporting construction data collection, upload and visual operation
- **High Quality:** Precise positioning, uniform and dense spraying with adjustable thickness, strong adhesion and no hollowing.
- **High Coverage:** Full wall coverage without dead zones, works up to ceiling. Max working height: 5.7 meters.
- **High Safety:** Anti-collision protection, automatic obstacle avoidance, dynamic monitoring and fault alarm.
- **Easy Operation:** Friendly human-machine interaction with simple and intuitive client interface.
- **High Practicality:** Compatible with cement-based, gypsum-based plastering mortars. Self-developed AGV chassis adapts to complex ground and terrain on construction sites, with minimal damage to working surfaces.



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*All data contained in this document is sourced from Deruitu Laboratory, updated as of 2026. All texts and images are for reference only. Product configurations (including technical parameters) shall be subject to the delivered machine in kind. For more information about Deruitu robots, please scan the QR code above.