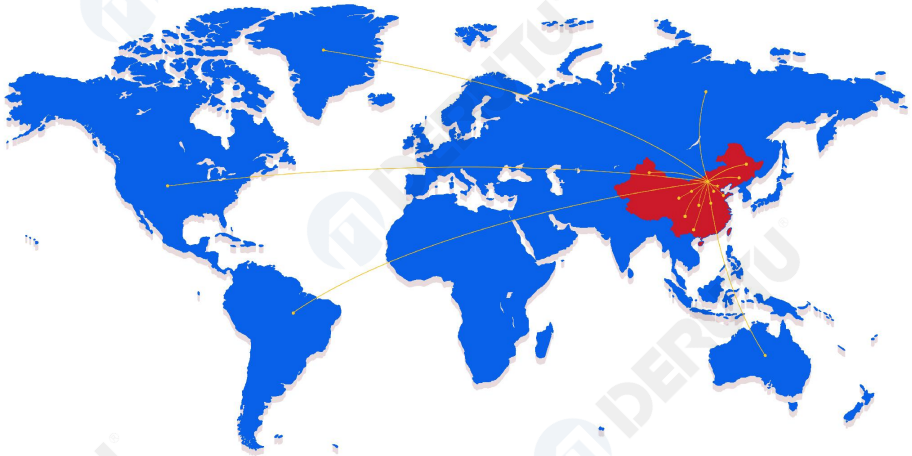
DERUTU

Intelligent Plastering Solutions

Making Construction Smarter

Construction Industrialization / Mechanized Plastering
Digitalization & Intelligent Construction / Cost Reduction & Efficiency Enhancement

Derutu (Beijing) Intelligent Technology Co., Ltd.



Mechanization of plastering has great potential

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Product Manager

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*The data presented in this brochure is sourced from the Derutu Laboratory and is current as of August 2026. All images and descriptions are for reference only. Actual product specifications are subject to the delivered product.

Company Introduction

DERUTU is a comprehensive solution provider for mechanized plastering in construction industry. The company independently develops a full range of construction equipment, including the DM series intelligent plastering machines, mortar application robots, fully automatic gypsum sprayers, high-pressure airless sprayers, and mortar sprayers, establishing DERUTU as a leader in wall finishing equipment. Trusted by 1,000+ construction companies worldwide, DERUTU is the reliable choice for professional contractors. Compact, lightweight, easy to operate, durable, and stable, the DM series intelligent plastering machine helps contractors significantly reduce construction costs and complete projects more efficiently.

Spraying and plastering balancing quality and efficiency

Diverse configurations suitable for various operating conditions

Direct manufacturer self-developed patented construction equipment

Certificate of Honor

- **Corporate Patents:** Invention patent for an automatic wall plastering machine; Over 60 patents.
- **Corporate Honors:** High-tech enterprise; Outstanding enterprise for technological innovation in China, etc.
- **International Certifications:** CE marking, SGS-certified ISO9001, plus over 10 other certificates.
- **CCTV Coverage:** Featured twice on the program *I Love Invention* (in 2016 and 2021).

OUR PRODUCTS!

Smarter Construction World

Overall solution

MORTAR SOLUTION

Substrate inspection and preparation (Wet walls, roughening)
↓
Bottom reference dot
↓
Mortar machine spraying material
↓
Machine screeding and leveling
↓
Handling minor imperfections
↓
Maintenance

Suitable for interior and exterior wall plastering and cement-based self-leveling applications.

GYPSUM SOLUTION

Grassroots inspection and handling (Spray bonding primer)
↓
Install screed strips on wall
↓
Machine mixing, spraying and material feeding
↓
Machine screeding and leveling
↓
Handling minor imperfections
↓
Maintenance

Handling gypsum plastering and gypsum-based self-leveling construction.

COATING SOLUTION

Machine mixing of coatings
↓
Substrate preparation and joint filling
↓
Machine spraying
↓
Machine screeding
↓
Machine grinding
↓
Maintenance

Suitable for the application of various paints, coatings, putties, and waterproof or anti-corrosion coatings.

DM Leading PRO Smart Plastering Machine

Product Advantages

- One-step forming up to 4.2 meters.
- Automatic leveling, error ＜ 2 mm
- Electromagnetic brake, no displacement during plastering
- Modular design for easy assembly and disassembly
- Touch-screen control, controllable IoT

Product Introduction

The Derutu "Plastering Master" DM Leading PRO smart plastering machine is the result of multiple rounds of design optimization. It employs a "spray-then-level" application process. When paired with a Derutu sprayer, it ensures the plaster layer is thoroughly compacted and leveled, effectively eliminating common defects like hollow spots at the source. It is an efficient choice for mechanized plastering of various mortars and gypsum.

Core Parameters

Dimensions /Weight	120*69*205cm/252kg	Positioning Method	Microcomputer vertical instrument
Plastering Height	420cm (Customizable)	Rail Material	Aluminum-magnesium alloy, mold casting
Plastering Width	110cm (Optional)	Motor Type	750W Servo Motor
Efficiency	4m²/min	Battery Life	8 hours (two sets of batteries)
Operating Tme	24-hour operations	Operation Method	PLC Touchscreen

*Data sourced from Derutu Laboratory

DM Leading Smart Plastering Machine

Product Advantages

- One-step forming up to 3.2 meters
- Automatic leveling, error ＜ 2 mm
- Electromagnetic brake, no displacement during plastering
- Modular design for easy assembly and disassembly
- Joystick control, easy to operate

Product Introduction

The Derutu "Plastering Master" DM Leading smart plastering machine is the result of multiple rounds of design optimization. It employs a "spray-then-level" application process. When paired with a Derutu sprayer, it ensures the plaster layer is thoroughly compacted and leveled, effectively eliminating common defects like hollow spots at the source. It is an efficient choice for mechanized plastering of various mortars and gypsum.

Core Parameters

Dimensions /Weight	119*69*205cm/178kg	Positioning Method	Microcomputer vertical instrument
Plastering Height	320cm	Rail Material	Aluminum-Magnesium alloy, mold casting
Plastering Width	110cm(Optional)	Motor Type	Brushless variable-frequency speed-control motor
Efficiency	4m²/min	Power Supply Voltage	220V
Operating Time	24-hour operations	Operation Method	Physical joystick

*Data sourced from Derutu Laboratory

Automatic Coating Robot DM-ACR-100

Product Advantages

- Automatic mapping, autonomous path-planning, independent operation, one-key completion
- Cross-platform data interoperability and visual operations
- Excellent obstacle-surmounting and obstacle-avoiding performance, suitable for complex ground conditions
- Working height up to 5.7 m, no hollowing on wall surfaces
- User-friendly human-machine interaction, simple and easy-to-understand operation

Product 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.

Core Parameters

Dimensions /Weight	110*110*205cm/＜400kg	Climbing Angle	[-30°，+30°]
Operating Range	Height：5.7m/Width：1m	Obstacle Dlearance Height	0-10cm
Runtime	5h	Mobility	Can translate and rotate
Working Voltage	DC48V	Movement Speed	≤1.0m/s
Battery Capacity	100Ah	Automatic Navigation Accuracy	±50mm

*Data sourced from Derutu Laboratory

Multifunctional Spraying Machine DP-220

Product Advantages

- 220V/380V dual-voltage compatible
- Sprays mortar, gypsum, fire-retardant coating, etc.
- High bonding strength, dense application with no hollowings
- High bonding strength, dense texture and no hollowing
- Split-body design, excellent safety and control performance

Product Introduction

The DERUTU DP-220 multifunctional mortar sprayer handles a wide range of materials, including cement, gypsum, fireproof coatings, aerogel, anhydrite, high-ductility concrete, inorganic fibers, and polymers—eliminating the hassle of switching between dedicated machines. Dual-voltage compatible: 220V/380V. The compact and flexible design adapts to a wide range of jobsite conditions and ensures easy operation. The rotor-and-stator pumping system uses eccentric drive technology to compress and deliver the material to the front end for spraying. It helps reduce labor and construction costs, simplify application, and improve finishing quality and efficiency. Suitable for plastering interior and exterior walls in a variety of construction projects.

Core Parameters

Main Unit	165*63*73cm/195kg	Main Unit Power	7.5KW
Control Unit	56*66*106cm/95kg	Screw Pump	D9
Conveying Distance	45m (Conveying distance depends on the material used)	Power Supply Voltage	220V/380V
Theoretical Output	42L/min	Aggregate Particle Size	＜6mm
Operating Time	24-hour operations	Hopper Capacity	76L

*Data sourced from Derutu Laboratory

Screw Pump Spraying Machine PC-18

Product Advantages

Spraying capacity: up to 1000 m²/day

High bonding strength, dense structure without hollowing

Large-pitch design delivers fast flow rate, stable output and low risk of pipe clogging

Pneumatically controlled spray gun with remote operation

Flexible movement, hassle-free site transfer

Product Introduction

The DERUTU PC 18 sprayer features proven screw pump technology and is suitable for spraying traditional cement mortar, ready-mixed mortar, commercial concrete mortar, and other materials. It provides better mortar-to-wall adhesion than manual application. The PC-18 uses a rotor-and-stator system with eccentric drive to compress and pump materials to the front end for spraying. It reduces construction costs and application complexity while improving quality and efficiency. Suitable for interior and exterior wall plastering in a variety of construction projects.

Core Parameters

Dimensions /Weight	173*80*90cm/288kg	Main Unit Power	9.2KW
Coating Thickness	0.5-3cm (Dense and uniform)	Screw Pump	D9
Conveying Distance	50m (Conveying distance depends on the material used)	Power Supply Voltage	380V
Theoretical Output	45L/min	Aggregate Particle Size	＜6mm
Operating Time	24-hour operations	Hopper Capacity	92L

*Data sourced from Derutu Laboratory

Screw Pump Spraying Machine PC-16

Product Advantages

Spraying capacity: up to 800 m²/day

High bonding strength, dense structure without hollowing

Large-pitch design delivers fast flow rate, stable output and low risk of pipe clogging

Pneumatically controlled spray gun with remote operation

Flexible movement, hassle-free site transfer

Product Introduction

The DERUTU PC 16 sprayer features proven screw pump technology and is suitable for spraying traditional cement mortar, ready-mixed mortar, commercial concrete mortar, and other materials. It provides better mortar-to-wall adhesion than manual application. The PC-16 uses a rotor-and-stator system with eccentric drive to compress and pump materials to the front end for spraying. It reduces construction costs and application complexity while improving quality and efficiency. Suitable for interior and exterior wall plastering in a variety of construction projects.

Core Parameters

Dimensions /Weight	173*80*90cm/288kg	Main Unit Power	7.5KW
Coating Thickness	0.5-3cm (Dense and uniform)	Screw Pump	D9
Conveying Distance	45m (Conveying distance depends on the material used)	Power Supply Voltage	380V
Theoretical Output	42L/min	Aggregate Particle Size	＜6mm
Operating Time	24-hour operations	Hopper Capacity	92L

*Data sourced from Derutu Laboratory

Mixing-Spraying Machine D70

Product Advantages

- Automatic water feeding and mixing for dry powder, ready-to-use wet material
- Dual-voltage compatibility for 220V/380V
- High bonding strength, dense application without hollowing
- Pneumatically-controlled spray gun for remote operation
- Modular design for flexible site transfer

Product Introduction

The D70 automatic mixing-spraying machine features 220V/380V dual-voltage compatibility and combines screw pump, automatic water supply, and dry powder mixing technologies. It handles both dry and wet materials, significantly simplifying the application process. Its modular design makes disassembly and transportation easier. Suitable for plastering with a wide range of dry-mix mortars, including lightweight and heavy-duty gypsum plaster, aerogel, anhydrite, high-ductility concrete, and inorganic fibers.

Add dry materials

Add wet materials

Dense and uniform output

Core Parameters

Dimensions /Weight	127*63*134cm/285kg	Main Unit Power	5.5KW
Coating Thickness	0.5-3cm (Dense and uniform)	Screw Pump	ECO20(220V) / D8-2(380V)
Conveying Distance	45m (Conveying distance depends on the material used)	Power Supply Voltage	220V、380V
Theoretical Output	20L/min (220V)、30L/min (380V)	Aggregate Particle Size	＜5mm
Operating Time	24-hour operations	Hopper Capacity	30L

*Data sourced from Derutu Laboratory

Dual-mix spraying machine DM-MIX

Product Advantages

- Automatic water-feeding and mixing for dry powder
- High-volume material delivery for maximized spraying efficiency
- Horizontal plus vertical double-stirring to guarantee construction quality
- Horizontal and vertical double-stirring to ensure construction quality
- Supports optional mobile internet access for remote equipment monitoring

Product Introduction

The DM-MIX Dual Mixing Pump features an innovative horizontal and vertical secondary mixing system with an automatic water circulation control system, ensuring thorough and uniform material mixing. Its large-capacity mixing chamber supports various materials, including gypsum mortar, lightweight and heavy-duty plasters, and other high-performance compounds, delivering stable quality even for demanding applications. The intelligent monitoring system provides fault alerts, material level warnings, wear detection, and maintenance reminders for reliable operation and easier management. With high-volume output and superior mixing performance, the DM-MIX enhances productivity and ensures consistent plastering quality.

Core Parameters

Dimensions /Weight	176*64*141cm/247kg	Main Unit Power	5.5KW
Coating Thickness	0.5-3cm (Dense and uniform)	Screw Pump	3kw
Conveying Distance	50m (Conveying distance depends on the material used)	Power Supply Voltage	380V
Theoretical Output	36-60L/min	Aggregate Particle Size	＜6mm
Operating Time	24-hour operations	Hopper Capacity	88L

*Data sourced from Derutu Laboratory

High-Pressure Airless Sprayer D976

Product Advantages

- High-speed spraying simplifies construction procedures
- Patented pump body for long-term durability
- Large cooling system ensures long-term continuous operation
- Saves time and labor, greatly shortening the construction period
- Large hydraulic plunger pump system delivers more precise pressure output

Product Introduction

The D976 Hydraulic Piston Sprayer is designed for large-scale painting and finishing projects, making it an ideal choice for professional contractors. Powered by advanced hydraulic piston technology, it provides continuous, high-pressure material delivery for demanding construction applications. Its compact and lightweight design ensures easy transportation and maneuverability on job sites, while the quick-change material system simplifies cleaning and improves overall work efficiency. Compatible with a wide range of coatings, including acrylic polyurethane, latex paint, primers, epoxy coatings, putty, and water-based polyurethane waterproof coatings, the D976 delivers reliable performance and versatile spraying solutions for various finishing applications.

Core Parameters

Dimensions /Weight	106*67*81cm/80kg	Main Unit Power	4KW
Conveying Distance	50m (Conveying distance depends on the material used)	Operating Pressure	11-22MPa
Theoretical Output	14L/min	Power Supply Voltage	220V/380V/Gasoline-powered
Operating Time	24-hour operations	Standard Spray Pipe	15m

*Data sourced from Derutu Laboratory

High-Pressure Airless Sprayer D836

Product Advantages

- High-speed spraying simplifies construction procedures
- Patented pump body for long-term durability
- Large cooling system ensures long-term continuous operation
- Saves time and labor, greatly shortening the construction period
- Large hydraulic plunger pump system delivers more precise pressure output

Product Introduction

The D836 Hydraulic Piston Sprayer is designed for professional painting and finishing contractors who demand powerful and reliable spraying performance. It easily handles high -viscosity materials and long-distance spraying applications, delivering stable and consistent output for demanding construction projects. Combining robust durability, powerful performance, and long-term value, the D836 has been proven in real-world construction environments, making it a trusted partner for professional contractors. Compatible with a wide range of coatings, including acrylic polyurethane, latex paint, primers, epoxy coatings, putty, polyurethane, and water-based waterproof coatings, the D836 provides a versatile spraying solution for various finishing applications.

Core Parameters

Dimensions /Weight	113*77*122cm/158kg	Main Unit Power	7.5KW
Conveying Distance	120m (Conveying distance depends on the material used)	Operating Pressure	11-22MPa
Theoretical Output	17L/min	Power Supply Voltage	380V/Gasoline-powered
Operating Time	24-hour operations	Standard Spray Pipe	15m

*Data sourced from Derutu Laboratory

3D Measurement Robot

Product Advantages

- Measures a single room in just 2 minutes; operational efficiency exceeds 300 ㎡/h.
- High-precision imaging and processing; scanner accuracy within ±1 mm.
- AI-driven measurement algorithms with intelligent recognition across diverse scenarios
- Single-pass scanning ensures full-area coverage and 100% measurement accuracy.
- Operable by a single person, reducing overall costs by approximately 70%.

Product Introduction

Derutu's measurement robots can be widely used in the construction quality inspection of residential and public buildings, including indoor measurements, exterior facade measurements, basement floor measurements, and concrete floor measurements. They support functions including panoramic photo capture, point cloud data acquisition, real-time reverse BIM modeling, and construction material quantity take-offs. Furthermore, they can operate in coordination with other robots—such as those for concrete finishing and interior fit-out—to create a closed-loop process for construction quality management, spanning problem detection, documentation, and resolution.

Core Parameters

Dimensions /Weight	338*170*355mm/9kg	Operational Efficiency	Total scanning time (180s/station)
Scanning Range	[0.5,5]m (single-station measurement)	Operational Efficiency	Automatic point cloud registration (60s/2 stations)
Measurement Range	30m	Operational Efficiency	Planning model generation time (60s/station)
Vertical Field of View	[30,360]°	Ingress Protection Rating	IP54
Horizontal Field of View	[0,360]°	Battery Life	4h

*Data sourced from Derutu Laboratory

Automatic Putty Spraying & Scraping Robot

Product Advantages

- Sprays up to 1,000 ㎡ of putty per day—10 times the speed of manual labor
- Seamlessly switch between five modes: putty spraying, smoothing, sanding, dust extraction, and painting
- Automated mapping, path planning, and operation—all initiated with a single click
- Fully AI-driven measurement algorithms for rapid construction.
- Excellent obstacle crossing and avoidance capabilities, safe and worry-free.

Product Introduction

China Construction First Group Huzhou Aoqinghui Park Infrastructure Project

The Derutu fully automated putty spraying and smoothing machine is designed for use in facilities such as industrial plants, venues, and transportation hubs with ceiling heights under six meters. It autonomously handles the application of putty and latex paint on surfaces including walls, beams, columns, and both internal and external corners. Featuring five operational modes—putty spraying, smoothing, sanding, dust extraction, and paint spraying—the machine utilizes quick-change end-effectors to adapt to diverse construction scenarios. This system significantly reduces costs and operational complexity while enhancing construction quality and ensuring superior finishing results.

Core Parameters

Dimensions /Weight	140*108*178cm/950kg	Climbing Angle	±10°
Operating Height	6m	Obstacle-Crossing Capability	5cm
Positioning Accuracy	±30mm	Maximum Speed	0.5m/s
Body Material	Sheet metal construction	Protection Rating	IP54
Runtime	4h(48v 173Ah DC Lithium-iron-phosphate battery pack)	Operation Mode	Four-wheel drive, laser positioning trackless movement

*Data sourced from Derutu Laboratory

An Industry Challenge: An Aging Workforce

The diminishing demographic dividend and a generational gap in the workforce have become critical challenges facing the entire industry: the average age of frontline construction workers in China has surpassed 52 years old, with fewer than 20% of the workforce under the age of 45. As young people shun the trade and skilled workers retire year by year, a labor shortage is becoming a reality.
On June 1st, 2026, Ministry of Housing and Urban-Rural Development (MOHURD) Order No.60 officially took effect, **removing the 60-year age limit for specialized construction operations and replacing it with health-based standards.** This policy relaxation reflects the industry's current labor shortage. MOHURD and other departments have jointly issued guiding opinions proposing the accelerated cultivation of a new-era construction workforce and the transformation of the construction industry into a technology-intensive sector.

Derutu's Mission

Making Construction Smarter: We believe technology should assist workers, not replace them. Intelligent robots take on strenuous and labor-intensive tasks, providing an integrated solution to the demanding and inefficient challenges faced by construction professionals. Through standardized, high-precision operations, we minimize variations in manual productivity and workmanship, ensuring consistent construction quality. Our goal is to enable construction sites to operate with fewer workers and increasingly autonomous processes, driving the construction industry toward industrialization, intelligent automation, and digital transformation.

Derutu 's Core Values

- **Empowering Our Customers:** We put customer needs at the heart of everything we do. Through practical products and services, we help solve labor challenges, improve productivity, and control construction costs. Our ultimate goal is to empower builders with new technologies to work more efficiently.
- **Tenacious Effort:** The job site is the ultimate proving ground for our products; we go deep into the front lines, overcome challenges, and continuously iterate, refining our offerings through hands-on execution.
- **Lifelong Learning:** We maintain an open and receptive mindset, learning from customers, on-site realities, and industry peers, and continuously improving through iteration.
- **Embracing the Future:** We look beyond mere equipment, using technology to address the challenges of the times and innovation to connect with the industry's future, all while upholding a long-term perspective.

Iteration History

After countless design iterations and improvements, the conclusion was reached:
Single-step application cannot effectively solve problems such as voids and shrinkage; the process needs to be completed in multiple steps to ensure construction quality. The concept of spraying followed by leveling was thus born!

2004

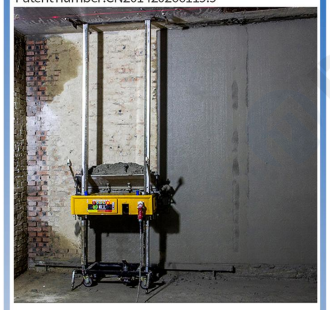
First generation 120 series
Positioning: Mechanical assistance for manual work, improving plastering efficiency
Problems: Bulky and inconvenient, mortar detachment and voids, equipment slippage
Patent number:CN200420074678.6

2011

Second Generation 600 Series
Positioning: Lightweight and easy to operate, allowing mortar to adhere to walls more effectively.
Problems: Low track strength, deformation affects accuracy, and displacement due to counterforce.
Patent Number:CN201420569910.7

2014

Third generation 110 series
Improvements: Strengthened track support, hydraulic support presses against the ceiling, infrared leveling
Problems: Low positioning accuracy, displacement when scraping against high ceilings, thinner at the bottom and thicker at the top, potential for hollowing and cracking later on
Patent number:CN201420266119.9

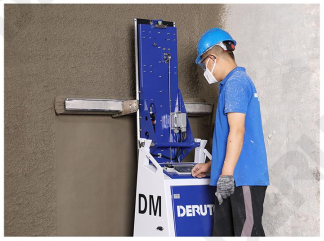


2015

Fourth generation D40 series
Improvements: Uses dual vertical gauges, foldable support legs, and a larger hopper.
Problems: Bulky, difficult to move and disassemble, and prone to voids in the finished wall surface.
Patent number:CN201620507736.2

2022

Fifth generation 2022 DM Leading Pro
Redesigned: Features a convenient modular integrated design with automatic microcomputer -controlled leveling.
Due to the central fixed point and bottom adjustment, pole sway during operation may affect accuracy.
Patent Number:CN202230304476.X



2025

Sixth generation 2025 DM Leading Pro
After countless design iterations and improvements, it features bottom-fixed, mid-section adjustment, and electromagnetic braking for instant locking, preventing displacement and fundamentally solving all the aforementioned problems.
Patent Number:CN202430524844.0
CN202421276876.4

Cooperative partners

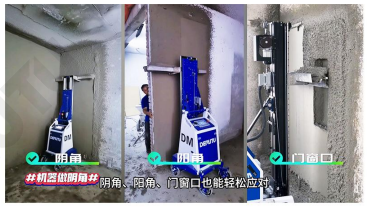
Currently, Derutu has established R&D, manufacturing, and service centers in Beijing. Its DM series plastering machines have been exported to **over 40 countries and regions worldwide,** including Russia, Brazil, Spain, Portugal, Romania, South Africa, Kenya, Singapore, Saudi Arabia, and the UAE. Domestically, the company has forged deep partnerships with leading construction enterprises such as CSCEC, CREC, CRCC, CCCC, Shanghai Construction Group, Beijing Construction Engineering Group, and Shanxi Construction Engineering Group. Landmark projects featuring its technology include the Comprehensive Bonded Zone at Beijing Daxing International Airport, Xuanwu Hospital in Xiong'an, and venues for the Hangzhou Asian Games. By 2025, the cumulative construction area covered by the DM series of intelligent plastering machines **exceeded 6.8 million square meters**.

Selected Partners

中国建筑	中国中铁	中国铁建	中国中交	上海建工
北京建工	陕西建工	湖南建工	北京天恒	中亿丰

Selected Construction Cases

In September 2022, a plastering project for a State Grid 500kV switching station in Yantai, Shandong—executed through a mechanized "smart equipment + industrial workforce" model in collaboration with Beijing Deruitu Intelligent Technology—covered an area of **450,000 ㎡** and boosted construction efficiency by over **50%**. The project achieved a human-machine collaborative workflow that integrated everything from the automated spraying of mortar onto the walls to the final smoothing and finishing of the surfaces.



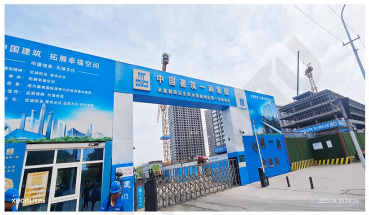
In September 2023, during the construction of the new Baoshan District Archives—a high-quality project undertaken by Baojian Group—Derutu plastering robots performed continuous plastering operations for three days, covering a total area of approximately **2,500 ㎡**. Actual measurements of surface flatness and verticality fully met acceptance standards. Leaders and experts alike commended the efficiency and quality of the robotic plastering work.

Selected Construction Cases

In January 2023,China State Construction Engineering Corporation(CSCEC)Eighth Engineering Division undertook the East Terminal project for the Phase III expansion of Xi'an Xianyang International Airport, featuring a construction area of approximately **700,000 ㎡**.

In October 2024, Beijing Construction Engineering Group's Sujiatuo Town project, with a total construction area of **88,732 ㎡**, was a demonstration project of "one town, one park" in the northern area of Zhongguancun Science City, located in Cuihu Science Park in the northern area of Zhongguancun Science City.

In April 2025, the Dongfeng Township Greenbelt Isolation Area Large-scale Commercial Housing Project of China Construction First Group Third Construction Co.,Ltd.The project has a total construction area of approximately **219,200** ㎡ and comprises five residential buildings (reaching up to 25 stories), a five-level underground parking garage, and supporting community facilities.



In April 2026, Central Pattana (CPN)—Thailand's leading commercial real estate developer—is set to launch a flagship urban complex. It stands as the largest mixed-use commercial and residential project in Nonthaburi Province to date, covering a total land area of approximately **76,800** ㎡.