

Smart Coating Pioneer · Mastering Tens of Thousands of Square Meters

Floor Coating Robot 3800S



Industry Pain Points

Traditional floor coating construction faces four major challenges that severely restrict project benefits:

Efficiency Bottlenecks

High dependence on labor;
high workforce turnover;
difficult to manage
low per-capita productivity

High Costs

Accelerating workforce aging;
rising labor costs year by year;
prolonged construction periods
increasing overall costs

Strenuous Labor

Long-term squatting operations;
high physical consumption;
high risk of lumbar spine injury

Health Hazards

Poor ventilation and lighting
conditions at worksites;
high VOC exposure risks;
serious threats to construction
workers' health

The floor coating robot directly addresses industry pain points, responding to challenges with new productive forces and providing efficient and controllable construction solutions for projects.

Product Introduction*

The Floor Coating Robot 3800S focuses on diverse scenarios such as underground parking garages, factory workshops, laboratories, and sports venues. It is suitable for semi-automated coating operations covering the full process of primer-intermediate coat-topcoat for coating floors. With a modular design compatible with both scraping and roll-coating end tools, and dynamic adaptive constant-control technology, the end tools remain closely fitted to floors under different working conditions, ensuring uniform coating across the entire area. One machine supports multiple functions, flexibly adapting to various coatings and construction processes, empowering efficient construction and precise cost control with robust technology.

Zero-threshold Operation

Process parameters are preset via the APP; the robotic arm performs automatic coating operations, with operators only required to control the chassis and replenish coating materials, enabling simple construction.

High Efficiency with Long Endurance

Operating width 1.6–3.8 m, net efficiency up to 300 m²/h, and continuous single-shift operation of 2,000 m² without endurance concerns.

One Machine, Multiple Uses

Compatible with scraping and roll-coating processes; suitable for solvent-based and water-based coatings; covering the full process of primer/intermediate coat/topcoat.

Adaptive Coating

End tools feature dynamically adaptive fitting for all floor conditions, ensuring uniform coating and high consistency in construction appearance.

Digital and Intelligent Empowerment

Multi-parameter intelligent linkage with precise coating consumption control of $\pm 15\%$; supports construction data statistics and FMS cloud data management.

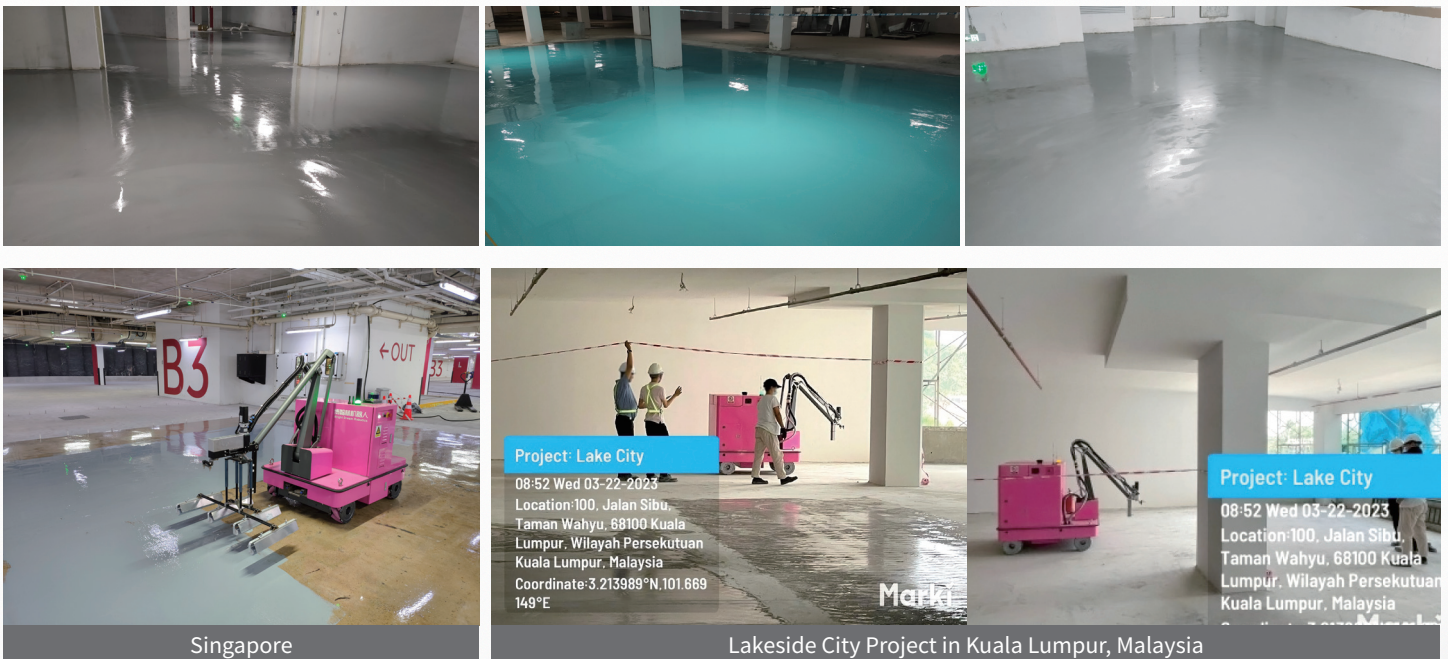
Main Parameters*

| | | | |
|-------------------------|---------------------------------------|----------------------------------|------------------|
| Dimensions (LxWxH) | 2580×1000×1700mm | Weight | 450kg (unloaded) |
| Maximum Operating Width | 3.2 m (scraping)/3.8 m (roll coating) | Material Tank Capacity | 32L |
| Battery Capacity | DC 48V&100 Ah | Rated Power | 3.0kW |
| Charging Source | AC 220V / 16A | Maximum Climbing Angle | 12° |
| Operating Endurance | ≥6h | Maximum Obstacle-crossing Height | 50mm |
| Maximum Moving Speed | 0.7m/s | Maximum Trench-crossing Width | 50mm |

Application Cases*

- To date, the floor coating robot has been successfully applied in more than 10 projects, including Guangzhou Yuexiu Fortune Tower, Guangzhou Zengcheng Yunyue Pavilion, and Guangzhou Yuexiu University Xinghui City, with a cumulative construction area exceeding 50,000 m².
- The floor coating robot innovates traditional construction methods as a new type of advanced productive tool: doubling efficiency, freeing labor, shortening construction periods, and helping reduce overall costs by over 30%, delivering significant economic and social benefits.

(*Robot construction costs, in addition to the robot's own costs, are also affected by factors such as on-site project conditions, proficiency of human-robot collaboration, and construction management level. Actual project data shall prevail.)



Service Commitment

Free one-time on-site delivery, installation, and on-site guidance for new machines⁽¹⁾; free installation and operation training; free remote technical support and consulting services; lifetime on-site service⁽²⁾; 1-year warranty for the complete machine⁽³⁾; 5-year spare parts supply guarantee; 7x24-hour service hotline; on-site service within 24 hours in stationed cities and 48 hours in other cities (excluding remote areas), or on-site service as agreed.

Notes: (1) One free on-site installation service is included. (2) During the warranty period, warranty-covered items are serviced free of charge; services beyond the warranty period or non-warranty items are provided at a charge. (3) Accessories and consumables are not covered by the warranty. High-quality accessories and consumables are available for customer purchase.

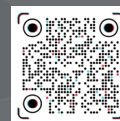
Official Website: <https://www.bm-robot.com>

Service Hotline: **400 988 2007**

(*Data are sourced from the BRIGHT MASTER ROBOTICS Laboratory. The final right of interpretation belongs to BRIGHT MASTER ROBOTICS. As technology is continuously updated, BRIGHT MASTER ROBOTICS reserves the right to modify its products. If technical parameters or product functions are changed, no further notice will be given. The actual delivered product shall prevail.)



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