DAFANG AI

DF062 Wall Plastering Robot

Robot Introduction



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DaFang AI Plastering Robot is a self-developed construction solution designed for large-scale, high-quality wall finishing. Powered by SCA intelligent flexible actuators, it combines vision-based autonomous navigation, LiDAR positioning, adaptive control, and cloud monitoring to deliver fully intelligent and automated construction processes.

Robot Design

Specifically designed for large-area applications, the robot supports a maximum working height of 6 meters. Featuring a modular design, it can be separated into three core modules — chassis, lifting system, and gimbal. This allows for quick assembly and disassembly within a short time, effectively reducing the equipment's overall size and weight during transfer, lowering transportation costs and minimizing labor.

Robot Application

Plastering of 0–5.5m building walls in factories, warehouses, classrooms, and office buildings



Features

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■ 8 aixs

The robot can move in 360 degree, working height controlled by lifting, construction range controlled by robot's arm can pitch, move, and rotate, construction process controlled by modules.

■ L3 auto-drive

Autonomous driving operations based on laser radar and visual cameras, automatically detect obstacles, and issue warnings.

■ Digital Cloud Services

Manager can monitor the robot's real-time location, status, work progress by APP and Portal, which helps project management evolves towards a more visual and digitized approach.

■ Multi-sensor

Multi-sensor information fusion, enabling the robot to autonomously perceive the surrounding environment, provide alerts to assist manual judgment in complex scenarios.



■ APP control

The robot operation is wirelessly managed with APP(Android or Tablet). Battery level and internal temperature and humidity of the chassis are monitored and displayed simultaneously.

■ Efficient plastering

With plastering capacity of up to 60㎡ per hour, the robot outperforms manual labor, reducing construction time and speeding up project delivery.

■ SLAM Navigation

Utilizing laser radar ranging, inertial measurement unit sensor and SLAM algorithm, the robot achieves high-precision localization by constructing map. It efficiently plans operational path based on datas and layout.

■ AGV auto balance

Dafang develop auto balance technology while moving, even in complex environments and uneven sites, robot can work stable and effiently.

Specifications

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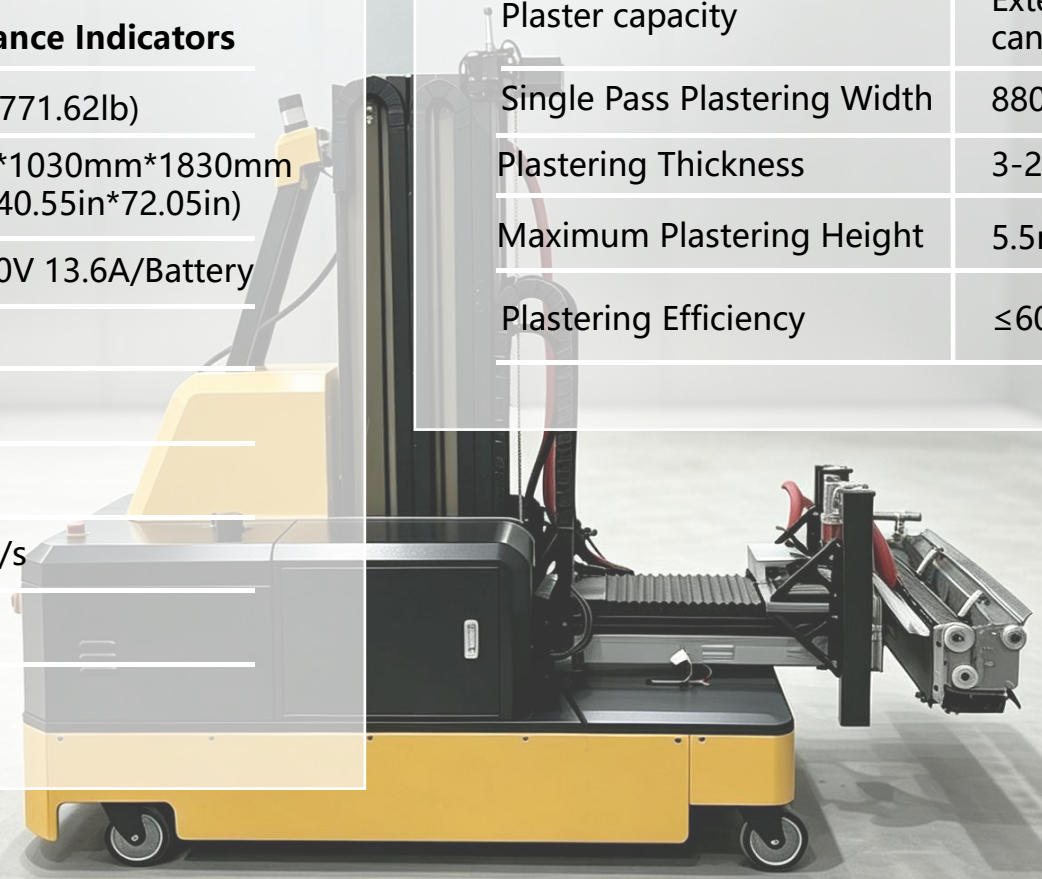
DF062 Specifications

Specifications	Performance Indicators
Robot weight	≤350KG (771.62lb)
Robot size(L*W*H)	1864mm*1030mm*1830mm (73.39in*40.55in*72.05in)
Power supply	Plug：220V 13.6A/Battery
Obstacle clearance height	≤25mm
Climbing height	≤25°
Crossing width	≤64mm
Movement speed	≤400mm/s
Positioning accuracy	±2mm

(*Data from DaFang AI lab)

Plastering Parameters

Plaster capacity	External screw pump, can be added
Single Pass Plastering Width	880mm
Plastering Thickness	3-20mm
Maximum Plastering Height	5.5m
Plastering Efficiency	≤60㎡/h



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