DFG600

Floor Coating Robot

Robot Introduction



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The DFG600 floor coating robot is designed to fully automate the application of epoxy floor primers, intermediate coats, and topcoats.

It can handle different types of coatings and accommodate various construction requirements, ensuring high-quality and precise application.

Design

DFG600 is suitable for automatic scraping of epoxy floor: primer layer, mortar layer, putty layer and topcoat layer, all completed by one robot.

Application

Epoxy floor coat construction in factories, schools, garages, hospitals, office buildings, shopping malls and others.



Features

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■ Automatic intelligent construction

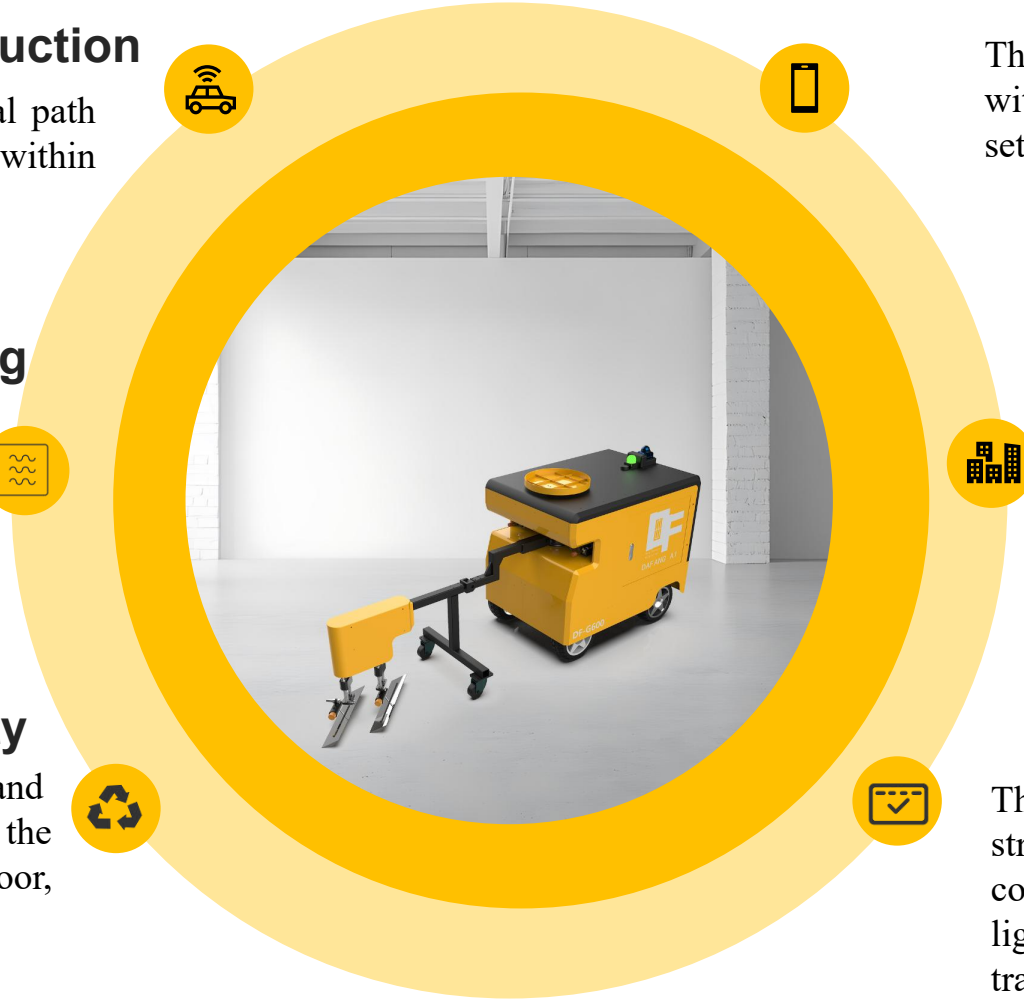
The system is capable of automatic global path planning and can navigate autonomously within the working area.

■ Uniform distribution of coating

Equipped with a flow monitoring and control device, allowing it to adjust the material feed rate according to the specific requirements of different coatings.

■ Precise and high quality

The precise scraper pressure control system and adaptive scraper angle mechanism enable the robot to maintain balanced pressure on the floor, ensuring a smooth, even, and glossy coating.



■ APP control

The robot operation is wirelessly managed with APP(Android or Tablet), parameter settings and dynamic data visualization

■ High efficiency

Equipped with speed adjustment functionality, the robot allows real-time adjustmen of the scraper angle, effectively resolving the issue of material overflow when the floor is uneven.

■ Convenient and safe

The swing arm adopts a modular segmented structure to reduce transportation space and costs. After disassembly, each component is light and easy to carry, which improves transportation convenience

Specifications

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DFG600 Specifications

Specifications	Performance Indicators
Net weight	≤200 KG (440.92lb)
Main body dimension(L*W*H)	1000*600*1050 cm (39.4in*23.6in* 41.3in)
Swing arm dimension (L*W*H)	1600*400*380 mm (63in*15.7in*15in)
Swing arm length	1.6 meters
Swing arm speed	20-35 times / minute
Floor coat capacity	40L (refillable)
Spraying width (adjustable)	0.5-3.5 meters
Moving speed (adjustable scraping)	0-220 cm
Moving speed (adjustable spraying)	0-6 meters/minute
Battery capacity (only for transit movement)	48V/60AH
LiDAR scanning range	2D 30m/3D 10m
Navigation repeatability accuracy	+/-5cm
Efficiency	600㎡/h

Scraper Specifications

Scraper	2pcs (40CM)
Scraper vertical movement	6 CM
Scraper rotation range	0-160 degree
Scraper adjustment	Adjust as needed
Scraper width	2.9 meters

Motor Specifications

Coating pump	1KW
Nozzle rotation	10 N.M
Movement	200W
Scraper rotation	200W
Agitation	200W
Swing arm	1000W

(*Data from DaFang AI lab)



Intelligent Construction
Leading the future

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