# DFG800

## Floor Grinding Robot

# Robot Introduction



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The DFG800 floor grinding robot can automatically floor grinding, polishing, and dust collection, as well as the application of curing agents. Working with DFG600, it can autonomously carry out the entire process of constructing cured floors.

### Design

DFG800 is powered by a high-performance three-phase asynchronous motor that drives the grinding discs at high speed, delivering a grinding width of up to 850 mm.

### Application

Applicable for raw cast-in-place slabs, old epoxy removal, cement sealing and curing, terrazzo, and diamond-polished concrete floors.



# Features

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## ■ Automatic intelligent construction

Featuring an advanced SLAM navigation system, the robot can autonomously plan areas, avoid obstacles, optimize routes, and support fully unmanned operations.

## ■ Dust-Free Operation

The DFG800 is equipped with a high-capacity dust extraction and collection system that captures dust in real time during the grinding process.

## ■ Flexible Mobility

Powered by a 380V AC power supply for high-performance grinding, while its built-in lithium battery system independently powers the travel drive.




## ■ APP control

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

## ■ Smooth grinding

The intelligent system ensures maximum grinding efficiency and consistent performance. With an extra-wide 850 mm grinding width and productivity of up to 230 m²/h.

## ■ High-performance drive

Featuring a high-precision, highly responsive drive system with finely forged high-hardness steel gears and dual-bearing protection, guaranteeing smooth operation without gear skipping or jumping.

# Specifications

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## DFG800 Floor Grinding Robot Specifications

| Specifications | Performance Indicators |
|---|---|
| Net weight | ≤750KG (1653.7lb) |
| Dimension( L*W*H) | 1800mm*810mm*1400mm (70.9in*31.9in*55.1in) |
| Power supply | 380V AC; Battery: 48V 30Ah (only for transit ) |
| Movement DC servo | 750W*2 |
| Working diameter | 850mm |
| Movement speed (m/s) | 0-0.5 |
| Recommended cable | 6mm² 4-core cable |
| LiDAR scanning range | 2D 30m/3D 10m |

## Grinding Parameters

| | |
|---|---|
| Grinding motor power | 18KW |
| Inverter power | 22KW |
| Efficiency | 230㎡/h |
| Suction Power | 5.6 kW (Imported 4-Fan System) |
| Number of Grinding Discs | 12 pcs |
| Suction Hood Width | 90 cm |
| Grinding speed | 300-2000 (rmp) |
| Dust Bin Capacity | 80 L |

**(*Data from DaFang AI lab)**

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## Contact

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