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CHINA STATE CONSTRUCTION

**SquareDog  
Robotics**



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Painter video in



# SQD-Robo Painter

RP-R6P10

Co-developed by **China State Construction Engineering & SquareDog Robotics**

Indoor painting robot specialized for use in Hong Kong



## Comply with Standards

Meet the Hong Kong Housing Authority works specification for painting and the international painting standard BS 6150:2019



## BIM Compatible and Automatic

SQD-Robo Painter can integrate with BIM seamlessly through the robot operating system (ROS)

The robot can navigate through construction sites and avoid obstacles automatically



## Compact

740mm wide, fit to use in Hong Kong compact flats with narrow doors and hallways



## Enhance Safety Level

Save workers from painting-related hazards – exposure to fumes, solvents, lead and other toxic substance etc.



## Flexible

Pass through 20mm high door thresholds

Six-axis robotic arm fits to use in complex interior structures, including corridors, car parks, and ceilings up to 3.2m high



## Ease Labour Shortage, Satisfying Outcome

Painting tasks can be completed effectively by applying multiple robots simultaneously

Painting requires workers to be highly concentrated for consistent outputs; and the outputs are not affected by workers' conditions, e.g. fatigue, mood, etc.

# Features



## Hong Kong Housing Authority Standard Compliance

SQD-Robo Painter meets the Hong Kong Housing Authority works specification for painting and the international painting standard BS 6150:2019.



## BIM-Integrated, Easy to Use

With BIM integration, SQD-Robo Painter can steer around in the complex construction site and finish the job automatically after paint parameters and pre-programmed paint job are selected.



## Obstacle Avoidance

With an ultrasonic sensor and spatial recognition system, SQD-Robo Painter avoids workers and obstacles automatically.



## Safety System

SQD-Robo Painter has protection against hindrance, collision, tipping, short-circuited, etc., to avoid bumping into workers and the workplace.



## Fit to Use in Complex Environment

Equipped with six-axis robotic arm, painting of complex interior structures like window frame can easily be handled by SQD-Robo Painter.



## Fit for Compact Environment

The robot is tailor-made with slim design (740mm wide) for use in Hong Kong compact flats with narrow doors and hallways.

# Characteristics

## Laser Ranging

The ranging system allows the sprayer to have a constant distance, i.e., 30cm with the wall.

## Electronically Controlled Sprayer

The sprayer coordinates with the robotic arm for consistent painting quality.

## Lifting Column

Sweden designed lifting column integrates with the robotic arm for painting ceilings up to 3.2m high.



## Universal Robots

The International renowned six-axis robotic arm can reach complex interiors, including walls, ceilings, windows, corners, etc., without additional setup and accessories.

## Battery

Li-ion battery can be interchanged for 24-hour continuous work.

## Low Centre of Gravity (CG)

Heavy parts including battery, motors and paint pail are placed in the lower part of the robot to maintain the robot stability during painting.

## Autonomous Mobile Robot (AMR)

SQD-Robo Painter can shuttle through slopes, compact rooms, and maze-like construction sites.

# Specification

Size	W740 x D1150 x H1450 mm
Obstacle passing ability	20 mm
Painting capacity	20 L
Painting process	Airless spraying
Maximum painting rate	0.38 gpm
Charging voltage	100 - 240 V
Single operation	6 hours
Ingression protection (IP) class	IP 44



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