

ECOBOT SCRUB 50 PRO

Jointly developed by JTC and Gaussian Robotics, the Scrub 50 is equipped with laser systems, 3D-depth camera and ultrasonic sensors, to provide truly autonomous cleaning capabilities. The commercial cleaning prototypes is the first-in-Singapore to be able to autonomously navigate to its docking station where it can automatically charge its power, rinse its tank, refill and discharge water used for cleaning. This not only greatly minimises the need for human intervention, but also allows the solution to be seamlessly integrated into the cleaning workforce.



Filtration system



Auto discharge



Auto fill



Auto charge



Lift integration

TECHNICAL SPECS



Total Power:	1000 W
Voltage:	24 V
Driving Motor power:	300 W
Cleaning Efficiency:	1,500 m ² /hour
Average Run-Time	Up to 3 hours
Brush Motor Power:	3 x 150 W
Brush Speed:	270 RPM
Water Suction Motor Power:	150 W
Water Suction Pressure:	8 kPa
Clean Water Wank:	25 L
Waste Water Tank:	18 L
Dimensions L x W x H:	600 x 600 x 1100 MM

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Safety Systems



1 x 2D Laser

- Far to medium range detection and obstacle avoidance

12 x Ultrasonic sensors

- Ability to detect glass
- 360 Degree virtual wall protection
- No issues with retail mall anti-theft barriers

Soft-touch bumpers

- Prevents unexpected accidents
- E-Stop in event of robot softly bumping into objects without harm

Workforce Integration

- SMS alerts to operators in event of anomalies or when cleaning task is complete
- Prominent placement of emergency stop button

2 x 3D Depth Camera

- Front, Rear, Left and Right Camera Placement
- Near range obstacle avoidance
- Recording camera – Live View

Safety Audio Message Playback

- The ECOBOT can be programmed to play a safety audio message or to welcome the public to Jewel Changi Airport
- Additional safety audio message when meet an obstacle in its path

