

Solar Cleaning Robot



Made in Japan



✓ High Light

-The cleaning cost becomes **80% OFF**^{*1 *2} compare with manual cleaning.

-Cleaning power (Recover rate of solar power generation) of the robot is equal with manual cleaning.^{*1}

-High and constant cleaning quality regardless of workers' skills.

*1As the result of verification test in Mideast. *2 In case of using 5 robots operated by one operator.

✓ Features of the Technology

-**WITHOUT using any water (DRY Cleaning).**

-**Using Sensors and Autonomous control system,** the robot sweeps automatically all over PV array.

-Crossing gaps between PV modules by specialized mechanism.

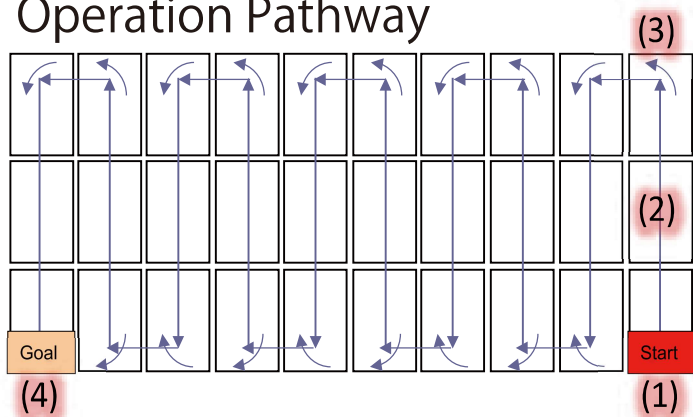
-**Easy carrying and Lightweight** by optimized design.



Specifications

Target size of solar module (width)	900 - 1000 mm(Autonomous control) No limit(Remote control)
Target size of PV array (Longitudinal direction)	No limit
Cleaning speed	300 m ² / hours
Tilt angle of operation	0 - 15 degree
Cleaning apparatus	Rotating Dry Brushes
Cleaning target	Soiling
Power source	Rechargeable Battery Cartridge (Replaceable, Charging time is approx. 5 hours)
Usable time (Approx.)	2 hours
Weight	28 kg
Numbers of people to carry	1

Operation Pathway



- (1) Place the robot on the corner of the PV array.
- (2) The robot moves forward and cleans along the PV modules.
- (3) The robot changes the moving direction to move to the next line of PV modules when it reaches at the edge of the PV array. Continue this operation.
- (4) The robot signals the end of cleaning when it arrives at the "Goal" point.

Manufacture and Distributor

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