Innovative robotic solutions to the future of solar panel cleaning
Overview
SolarCleano robots:
Your all-in-one solar panel cleaning solution

SolarCleano B1
SolarBridge. Leading the future of solar field cleaning

Products
SolarCleano F1
Your all-in-one solution

SolarCleano M1
Ultra lightweight and versatile

SolarCleano T1
The Transporter. Transporting robots between solar panels made easy

SolarCleano B1
SolarBridge. Leading the future of solar field cleaning

Autonomus Solutions
SolarCleano F1A

SolarCleano B1A

Accessories
Personalising your robot with a range of compatible accessories

Demo, Training and, Support

Why SolarCleano?
Choosing SolarCleano means...

Innovation is part of our DNA

Why cleaning?
# Overview

**SolarCleano robots:** your all-in-one solar panel cleaning solution

<table>
<thead>
<tr>
<th>SolarCleano</th>
<th>F1/F1A</th>
<th>M1</th>
<th>T1/T1A</th>
<th>B1/B1A</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of surfaces</strong></td>
<td>All types of surfaces</td>
<td>All types of surfaces</td>
<td>All types of surfaces</td>
<td>Ground-mounted</td>
</tr>
<tr>
<td><strong>Installation scale</strong></td>
<td>Max 3MW / day</td>
<td>Max 3MW / day</td>
<td>MAX800kw/day</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Length</strong></td>
<td>1,450mm</td>
<td>1,450mm</td>
<td>800mm</td>
<td>1,300mm</td>
</tr>
<tr>
<td><strong>Width</strong></td>
<td>1,300mm</td>
<td>1,300mm</td>
<td>860mm</td>
<td>1,200mm</td>
</tr>
<tr>
<td><strong>Height</strong></td>
<td>350mm</td>
<td>675mm</td>
<td>350mm</td>
<td>700mm</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>80kg</td>
<td>85kg</td>
<td>37kg</td>
<td>350kg</td>
</tr>
<tr>
<td><strong>Brush type</strong></td>
<td>4 types</td>
<td>4 types</td>
<td>4 types</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Wet / Dry cleaning</strong></td>
<td>Wet &amp; Dry</td>
<td>Dry</td>
<td>Wet &amp; Dry</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Cleaning capacity</strong></td>
<td>1,600m²/hour</td>
<td>1,000m²/hour</td>
<td>800m²/hour</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Maximum speed</strong></td>
<td>40m/minute</td>
<td>30m/minute</td>
<td>30m/minute</td>
<td>54m/minute</td>
</tr>
<tr>
<td><strong>Remote control range</strong></td>
<td>200m</td>
<td>N/A</td>
<td>200m</td>
<td>200m</td>
</tr>
<tr>
<td><strong>Battery duration</strong></td>
<td>2h30</td>
<td>2 hours</td>
<td>3 hours</td>
<td>4 hours</td>
</tr>
</tbody>
</table>
Overview > Overall highlights and benefits

Fastest robots on the market, up to 1,600 m²/h

One robot 10,000 m² 1 day = 1 person

Assembly / Disassembly: 3 min

Fully modular design dismountable into 4 parts

Range of robots for all budgets and all solar panel installations

Also suitable for window cleaning and glass roof

No more heavy lifting: easily assembled and carried by one person

Designed to adapt climate and geographical characteristics of any country

ISO 9001 certified: no microcracks after electroluminescent test

One-year warranty with dedicated after-sales services

4 types of brushes for different soiling conditions

Easily crosses any gap up to 70 cm

Specialized pads, cleaning at 25° angle with water

No work at height: remote control from ground level
SolarCleano F1 – your all-in-one solution

- LED lights system for cleaning in nighttime conditions
- Connects to standard garden hoses of 13-15mm diameter & 2.0 – 8.0 bar water pressure
- Helicoidal brushes from 1.2m to 2.2m with 2 bristle types. Dry & Wet cleaning
- High end caterpillar tracks. Pressure on panel 4.200Pa
- Central electric switching box. Power supply by battery with an autonomy of 4h
- Camera for remote operation
  - Better safety
  - No work at Height required.
  - Easy handling
  - Remote control
  - Range of 200m
  - Autonomy of 22h
  - Water resistance IP65
- 1) Water free system
- 2) Valves to adjust the water consumption
- Ultra-sound sensors for edge protection
- Camera for remote operation
- Better safety
- No work at Height required.
- Easy handling
- Remote control
- Range of 200m
- Autonomy of 22h
- Water resistance IP65

Download Data Sheet

Click on the icon to watch the full video and others related to this product in our YouTube channel.
SolarCleano M1 – ultra lightweight and versatile

- Easy handling
  - Remote control
  - Range of 200m
  - Autonomy of 22h
- Lightweight structure
- Approved for dry cleaning

- Connects to standard garden hoses of 13-15mm diameter & 2-8 bar water pressure.
- Valves to adjust water consumption (0.2 to 0.8L/m²)
- Central electric switching box
- Power supply by battery with an autonomy of 6h
- Helicoidal brushes 0.8m with bristle types. Dry & wet cleaning
- Download Data Sheet

Click on the icon to watch the full video and others related to this product in our YouTube channel.
Products › SolarCleano T1 – the Transporter. Transporting robots between solar panels made easy

- 1 single operator
- Ideal for ground-mounted installation
- Max inclination 25°
- Platform height 1.53 - 1.88m
- Speed up to 54 m/min
- Compatible with SolarCleano F1, M1, F1A

Click on the icon to watch the full video and others related to this product in our YouTube channel.
Products ➔ SolarCleano B1 – SolarBridge. Leading the future of solar field cleaning

Remote-controlled

For both water and waterless cleaning

Solution to ground-based utility-scale solar plants

Cleaning capacity up to 8MW per day

Different options of brush up to 6m

Self-adaptation to height and inclination

B1

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Click on the icon to watch the full video and others related to this product in our YouTube channel
We offer bespoke autonomous solar panel cleaning solutions to your large-scale power plants.

- 100% autonomous dry-cleaning robot
- Compatible to any type of solar panel system
- 5cm global positioning precision
- Orogrammed sessions to clean day and night
- Automatically recharged batteries and remote trouble-shooting
- Inter-robot communication and fleet management system

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Click on the icon to watch the full video and others related to this product in our YouTube channel.
Fully autonomous dry-cleaning robot

Solution to ground-based utility-scale solar plants

Cleaning capacity up to 15MW per day

Different options of brush up to 6m

Self-adaptation to height and inclination

Programmed sessions for cleaning anytime

Can operate under any weather

We offer fully bespoke autonomous solar bridge cleaning solutions to your large-scale power plants

Download Data Sheet

Click on the icon to watch the full video and others related to this product in our YouTube channel
## Personalising your robot with a range of compatible accessories

<table>
<thead>
<tr>
<th>Accessories</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Safety glider</strong></td>
<td>For safer cleaning on installations of more than 25°.</td>
</tr>
<tr>
<td><strong>LED light</strong></td>
<td>Solution to cleaning at night. The light is paired with a camera and screen set.</td>
</tr>
<tr>
<td><strong>Osmosis system</strong></td>
<td>Purifying the cleaning water with no residue on solar panels.</td>
</tr>
<tr>
<td><strong>4 types of 1.2m brushes</strong></td>
<td>For wet and dry cleaning on different soiling types.</td>
</tr>
<tr>
<td><strong>1.1m brushes</strong></td>
<td>Especially designed for the cleaning of east-west and floating installations, and line on rooftops.</td>
</tr>
<tr>
<td><strong>4 types of 0.8m brushes</strong></td>
<td>For wet and dry cleaning on different soiling types.</td>
</tr>
<tr>
<td><strong>2.2m brushes</strong></td>
<td>Your XL brushes to clean 3 MW per day. Wet and dry cleaning on different soiling types.</td>
</tr>
<tr>
<td><strong>Floating wheels</strong></td>
<td>Making your cleaning more fluid on floating panels and smart solar trackers installations.</td>
</tr>
<tr>
<td><strong>Additional battery of 35Amp</strong></td>
<td>Increasing the autonomy of your robot for uninterrupted cleaning.</td>
</tr>
<tr>
<td><strong>Additional battery of 30Amp 48 Volt</strong></td>
<td>Increasing the autonomy of your robot for uninterrupted cleaning.</td>
</tr>
<tr>
<td><strong>Additional charger of 7A</strong></td>
<td>Keeping your batteries fully-charged all the time.</td>
</tr>
<tr>
<td><strong>Additional charger of 15A (T1)</strong></td>
<td>Keeping your batteries fully-charged all the time.</td>
</tr>
<tr>
<td><strong>Toolkit</strong></td>
<td>Having all the necessary maintenance tools of the robot by yourself.</td>
</tr>
<tr>
<td><strong>Spare part kit</strong></td>
<td>Simple and fast robot maintenance by saving the waiting time and replacing parts of the cleaning robot whenever necessary.</td>
</tr>
<tr>
<td><strong>Remote control battery</strong></td>
<td>Allowing your robot to clean for a longer time.</td>
</tr>
<tr>
<td><strong>Remote control battery charger</strong></td>
<td>If you have several batteries, make sure you have enough chargers!</td>
</tr>
<tr>
<td><strong>Camera and screen</strong></td>
<td>Increasing operation safety and allowing you to pilot from the ground, or if vision is obstructed.</td>
</tr>
<tr>
<td><strong>SolarCleano T1 (add-on robot)</strong></td>
<td>No need to carry the robot from one panel row to the next – the transporter does the job for you.</td>
</tr>
<tr>
<td><strong>Fall arrest equipment</strong></td>
<td>High-quality harnesses and lanyards.</td>
</tr>
</tbody>
</table>
Demo, Training and, Support

**Demos**
Solar panel cleaning demos
We organise regular free solar panel cleaning demos every month and we are ready to present you our solar robot live on your installation. Contact us anytime for a demo request.
sales@solarcleano.com

**Trainings**
Our experienced staff have done many robotic panel cleaning trainings to local cleaning companies. If you wish to have a better understanding of how to best use and maintain your SolarCleano robot, get in touch for a training inquiry.
sales@solarcleano.com

**Support**
With a qualified and multilingual after-sales service team at your disposal, we look forward to answering your questions and studying your technical specifications.
7 a.m. - 6 p.m. (GMT+1) 5 days a week.
Why SolarCleano? Choosing SolarCleano means...

Innovation
- State-of-the-art engineering
- Customised solutions for your need

Customer service
- A dedicated and multi-lingual team at your services
- 10 spoken languages
- 7a.m. - 6 p.m. (GMT+2), 5 days per week

Quality
- ISO 9001 certified
- Made in Europe, conform with the latest European standard and regulations
- N1 semi-autonomous cleaning robots on the market

Global Presence
- Already in 53 countries in 5 continents

Global Presence
- Already in 53 countries in 5 continents
Why SolarCleano? Innovation is part of our DNA

- Robot-fluent R&D team, technology at the core
- Regular product updates to guarantee top efficiency
- New product release every year
- Partnerships with customers for feedback and improvements
- Thorough testing on all products
- Regular maintenance and updates offer
- Regular updates
- New products
- Existing products
- Through testing
- Client feedback
- R&D
Why cleaning?

Regular cleaning maintains your photovoltaic installation and can help it regain performance. The sunlight reflection diminishes with dirt and reduces the absorption of solar energy on photovoltaic cells. As a result, cleaning regularly your solar panels is considered a good investment.