

SolarCleano
developed by cleaners



Innovative
robotic solutions
to the future of solar
panel cleaning

01 Overview

SolarCleano robots:
Your all-in-one solar panel cleaning solution 3

SolarCleano B1

SolarBridge. Leading the future
of solar field cleaning 4

02 Products

SolarCleano F1
Your all-in-one solution 5

SolarCleano M1

Ultra lightweight and versatile 6

SolarCleano T1

The Transporter. Transporting robots
between solar panels made easy 7

SolarCleano B1

SolarBridge. Leading the future
of solar field cleaning 8

03 Autonomus Solutions

SolarCleano F1A 9

SolarCleano B1A 10

04 Accessories

Personalising your robot with a range of compatible accessories 11

05 Demo, Training and, Support

12

06 Why SolarCleano?

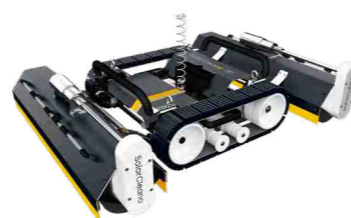
Choosing SolarCleano means... 13

Innovation is part of our DNA 14

07 Why cleaning?

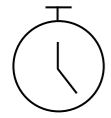
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SolarCleano
F1/F1A

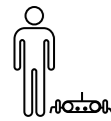
SolarCleano
M1

SolarCleano
T1/T1A

SolarCleano
B1/B1A


	F1	F1A	M1	T1	T1A	B1	B1A
Autonomous / Remote controlled	Remote-controlled	Autonomous	Remote-controlled	Remote-controlled	Autonomous	Remote-controlled	Autonomous
Type of surfaces	All types of surfaces	All types of surfaces	All types of surfaces	Ground-mounted	Ground-mounted	Ground-mounted	Ground-mounted
Installation scale	Max 3MW / day	Max 3MW / day	MAX800kw/day	N/A	N/A	Max 8MW/day	Max 15MW/day
Length	1,450mm	1,450mm	800mm	1,300mm	1,300mm	5,950mm	5,950mm
Width	1,300mm	1,300mm	860mm	1,200mm	1,200mm	1,740mm	1,740mm
Height	350mm	675mm	350mm	700mm	700mm	3510mm	3510mm
Weight	80kg	85kg	37kg	350kg	350kg	customised	customised
Brush type	4 types	4 types	4 types	N/A	N/A	4 types	4 types
Wet / Dry cleaning	Wet & Dry	Dry	Wet & Dry	N/A	N/A	Wet & Dry	Dry
Cleaning capacity	1,600m ² /hour	1,000m ² /hour	800m ² /hour	N/A	N/A	6,000m ² /hour	6,000m ² /hour
Maximum speed	40m/minute	30m/minute	30m/minute	54m/minute	54m/minute	40m/minute	40m/minute
Remote control range	200m	N/A	200m	200m	N/A	200m	N/A
Battery duration	2h30	2 hours	3 hours	4 hours	N/A	8 hours	8 hours



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



One robot 10,000 m2
1 day = 1 person



Assembly / Disassembly: 3min



Designed to adapt climate and geographical characteristics of any country



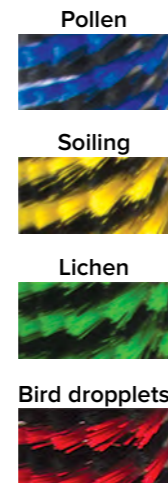
One-year warranty with dedicated after-sales services



ISO 9001 certified: no microcracks after electroluminescent test



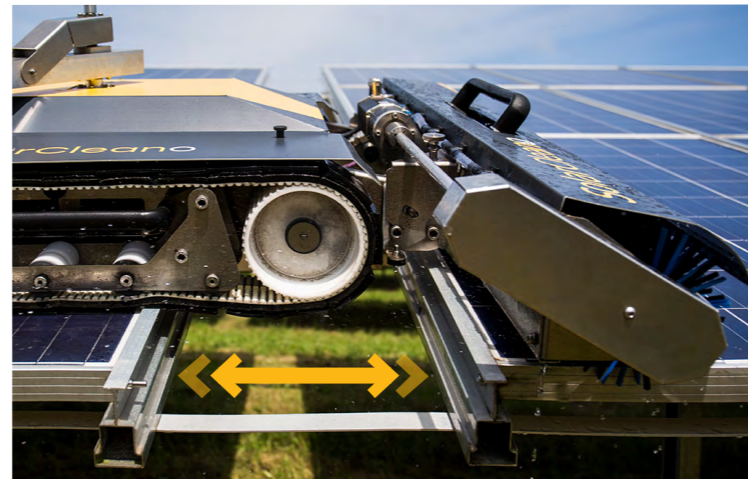
Fully modular design dismountable into 4 parts



4 types of brushes for different soiling conditions



Range of robots for all budgets and all solar panel installations



Easily crosses any gap up to 70cm



Also suitable for window cleaning and glass roof



Specialized pads, cleaning at 25° angle with water



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



No work at height: remote control from ground level

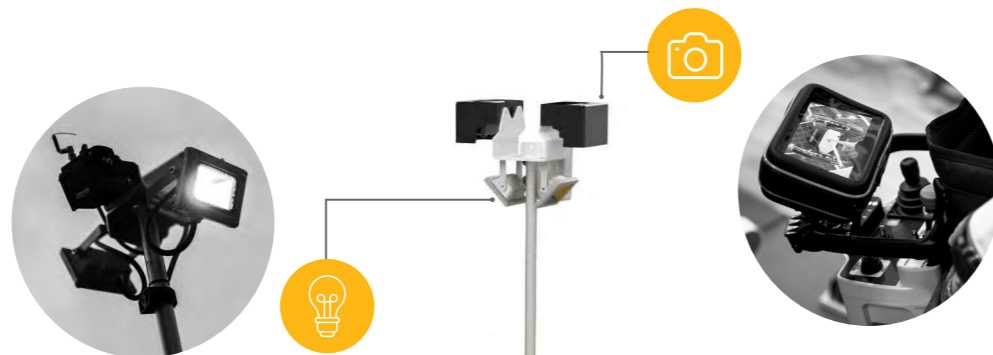


F1



F1

LED lights system for cleaning in nighttime conditions



Camera for remote operation

Better safety
No work at Height required.
Easy handling

Remote control
Range of 200m
Autonomy of 22h
Water resistance IP65

Connects to standard garden hoses of 13-15mm diameter & 2,0 – 8,0 bar water pressure

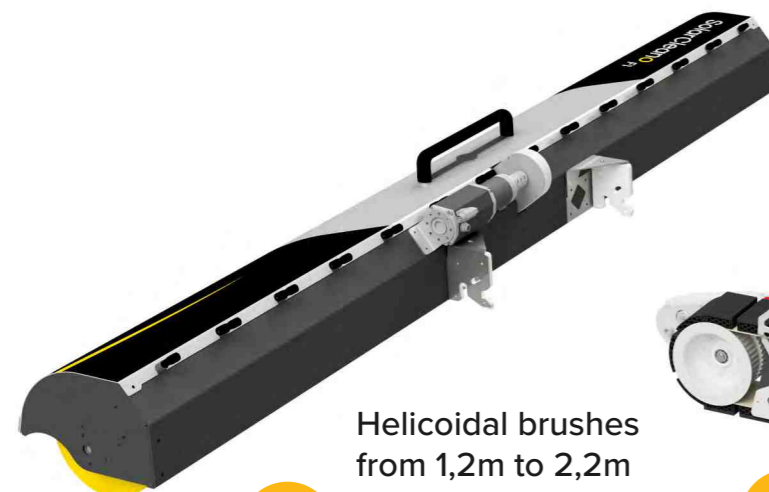


Central electric switching box

Power supply by battery with an autonomy of 4h



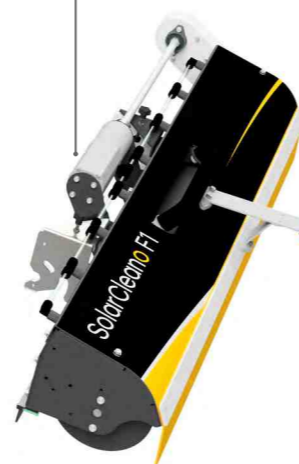
1) Water free system
2) Valves to adjust the water consumption



Helicoidal brushes from 1,2m to 2,2m with 2 bristle types. Dry & Wet cleaning



High end caterpillar tracks
Pressure on panel 4.200Pa

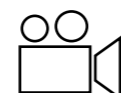


Ultra-sound sensors for edge protection

F1



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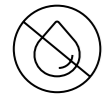
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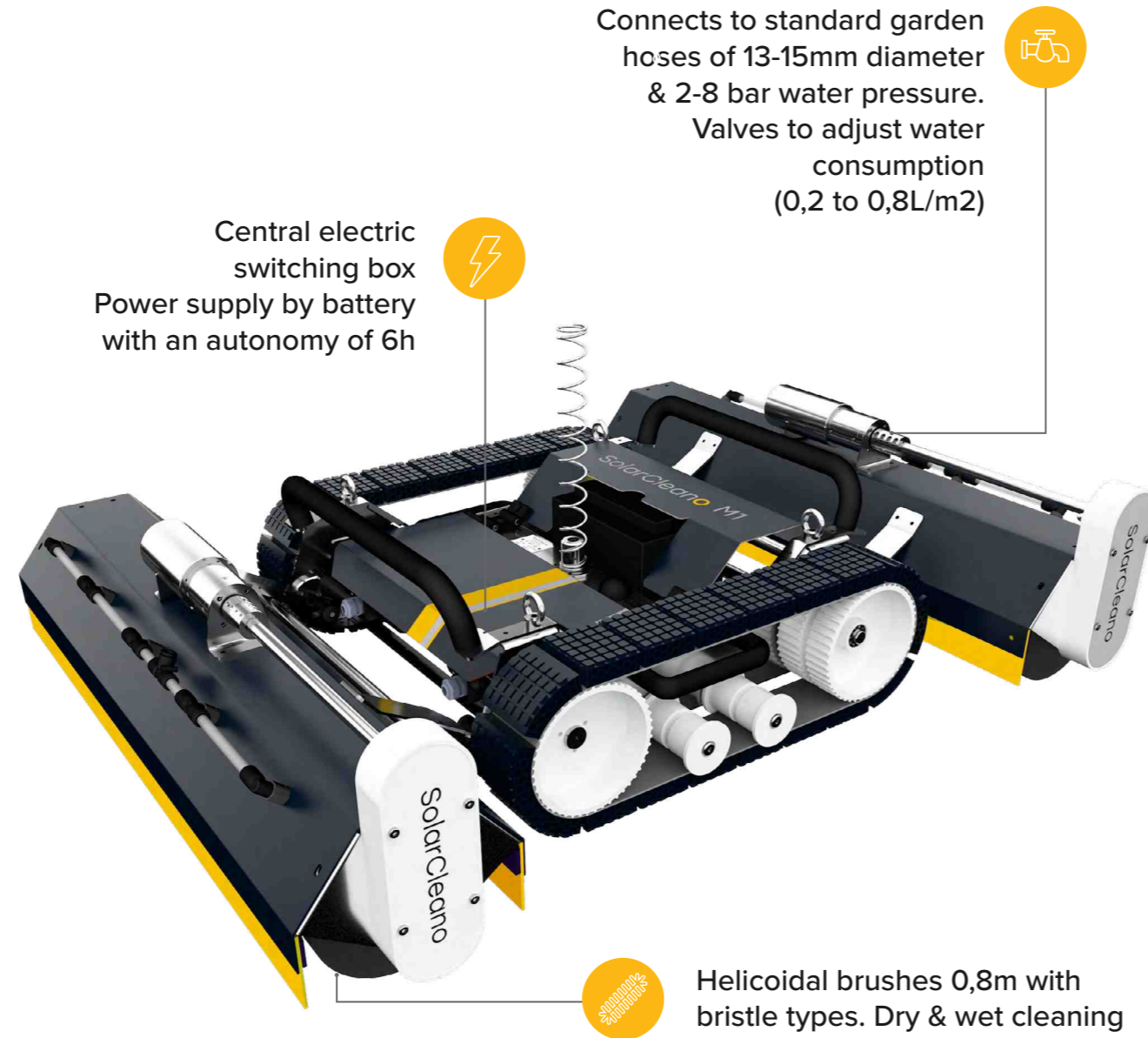
Easy handling
Remote control
Range of 200m
Autonomy of 22h
Water resistance IP65



Lightweight structure



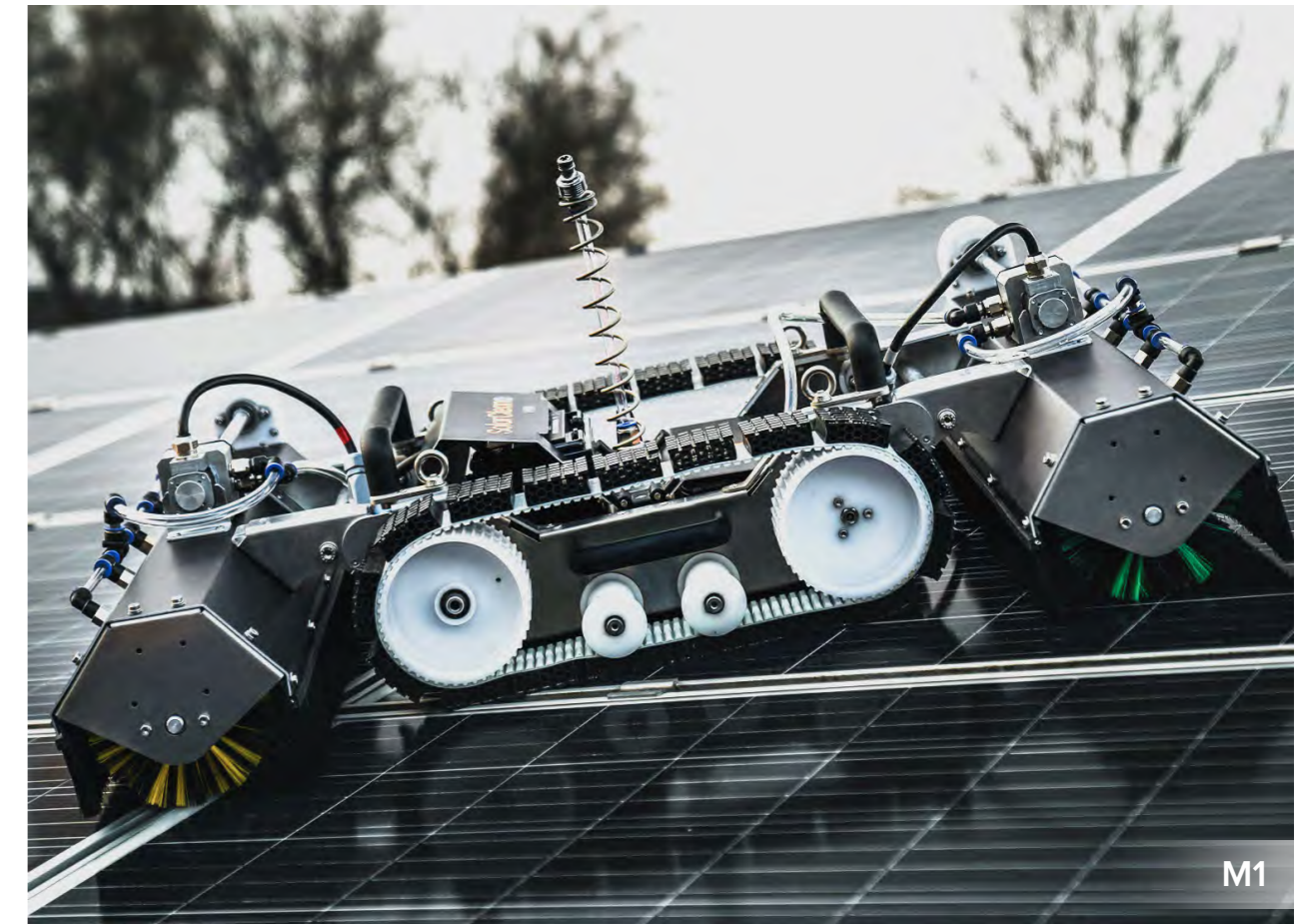
Approved for dry cleaning



Central electric switching box
Power supply by battery with an autonomy of 6h

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)

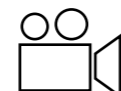
Helicoidal brushes 0,8m with bristle types. Dry & wet cleaning



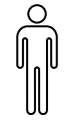
M1



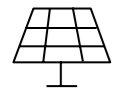
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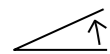
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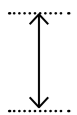
1 single operator



Ideal for ground-mounted installation



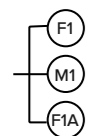
Max inclination 25°



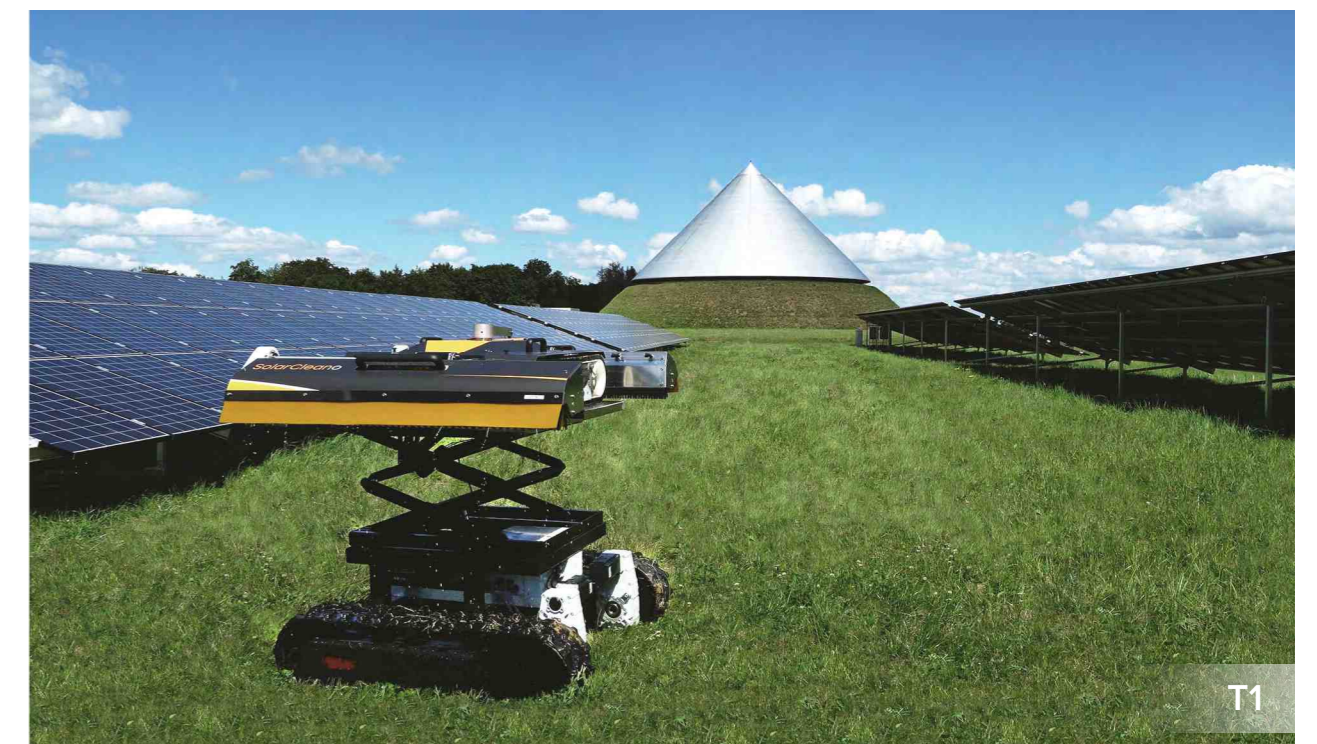
Platform height
1.53 - 1.88m



Speed up
to 54 m/min



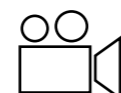
Compatible with
SolarCleano F1, M1, F1A



T1



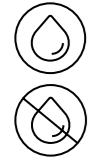
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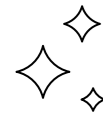
Remote-controlled



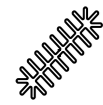
For both water and waterless cleaning



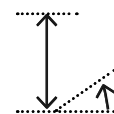
Solution to ground-based utility-scale solar plants



Cleaning capacity up to 8MW per day



Different options of brush up to 6m



Self-adaptation to height and inclination



B1

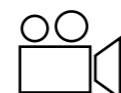


B1

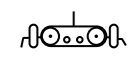
B1



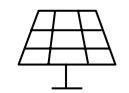
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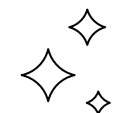
100% autonomous dry-cleaning robot



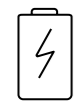
Compatible to any type of solar panel system



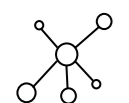
5cm global positioning precision



Programmed sessions to clean day and night

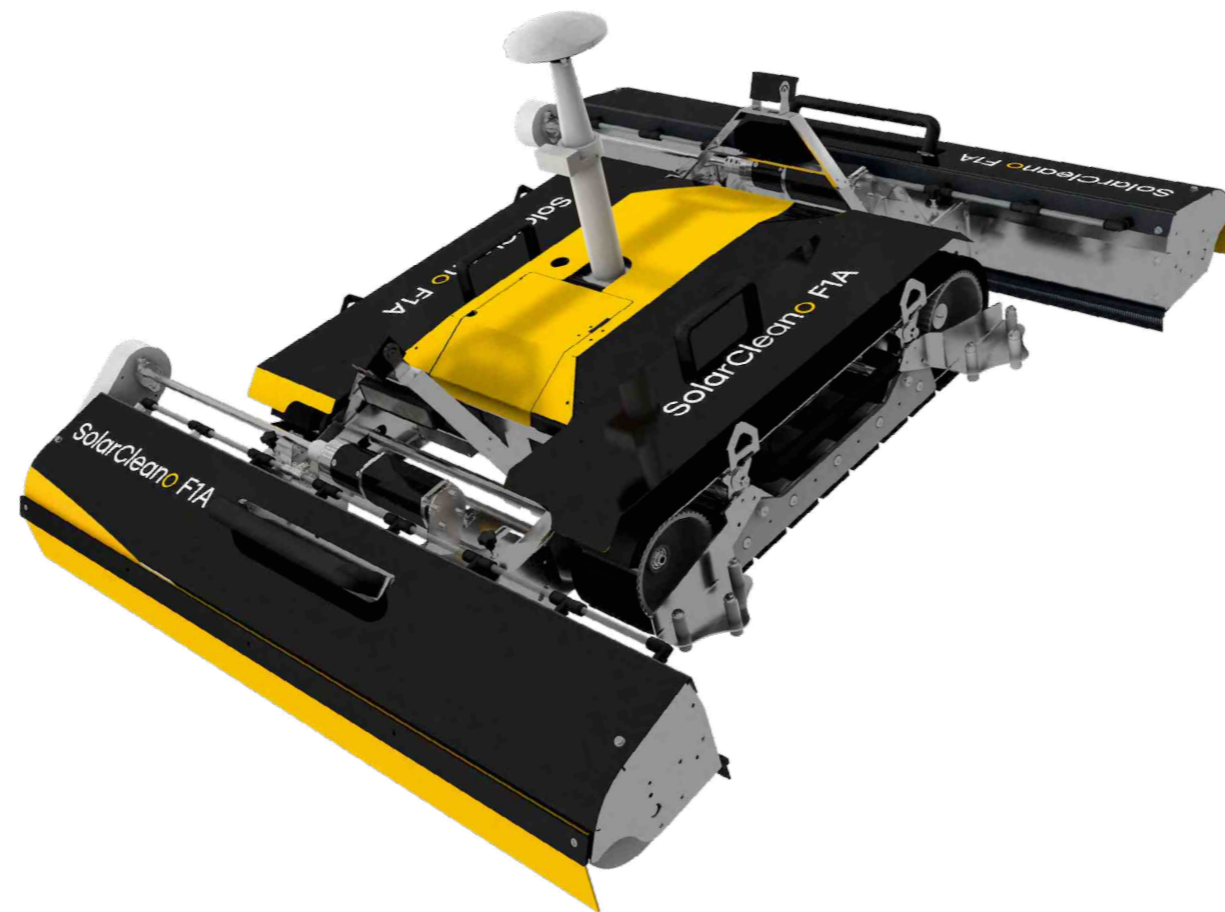


Automatically recharged batteries and remote trouble-shooting



Inter-robot communication and fleet management system

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



B1

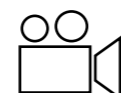


B1

F1A



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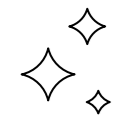
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Fully autonomous dry-cleaning robot



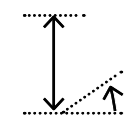
Solution to ground-based utility-scale solar plants



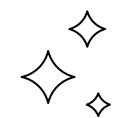
Cleaning capacity up to 15MW per day



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



B1A

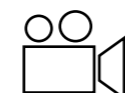


B1A




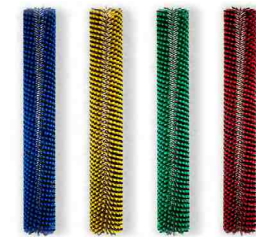
B1A















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		COMPATIBLE WITH			
		F1	M1	T1	F1A
	Safety glider For safer cleaning on installations of more than 25°.	●	●		
	LED light Solution to cleaning at night. The light is paired with a camera and screen set.	●			
	Osmosis system Purifying the cleaning water with no residue on solar panels.	●	●		
	4 types of 1.2m brushes For wet and dry cleaning on different soiling types.	●			●
	1.1m brushes Especially designed for the cleaning of east-west and floating installations, and line on rooftops.	●			
	4 types of 0.8m brushes For wet and dry cleaning on different soiling types.		●		
	2.2m brushes Your XL brushes to clean 3 MW per day. Wet and dry cleaning on different soiling types.	●			

		COMPATIBLE WITH			
		F1	M1	T1	F1A
	Floating wheels Making your cleaning more fluid on floating panels and smart solar trackers installations.	●			
	Additional battery of 35Amp Increasing the autonomy of your robot for uninterrupted cleaning.	●	●		
	Additional battery of 30Amp 48 Volt: Increasing the autonomy of your robot for uninterrupted cleaning.			●	
	Additional charger of 7A Keeping your batteries fully-charged all the time.	●			
	Additional charger of 15A (T1) Keeping your batteries fully-charged all the time.			●	
	Toolkit Having all the necessary maintenance tools of the robot by yourself.	●	●		

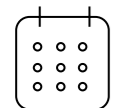
		COMPATIBLE WITH			
		F1	M1	T1	F1A
	Spare part kit: Simple and fast robot maintenance by saving the waiting time and replacing parts of the cleaning robot whenever necessary.	●	●		
	Remote control battery Allowing your robot to clean for a longer time.	●	●	●	
	Remote control battery charger If you have several batteries, make sure you have enough chargers!	●	●	●	
	Camera and screen Increasing operation safety and allowing you to pilot from the ground, or if vision is obstructed.	●			
	SolarCleano T1 (add-on robot)t No need to carry the robot from one panel row to the next – the transporter does the job for you.	●	●		●
	Fall arrest equipment High-quality harnesses and lanyards.	●	●		

**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.





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





 Robot-fluent R&D team, technology at the core

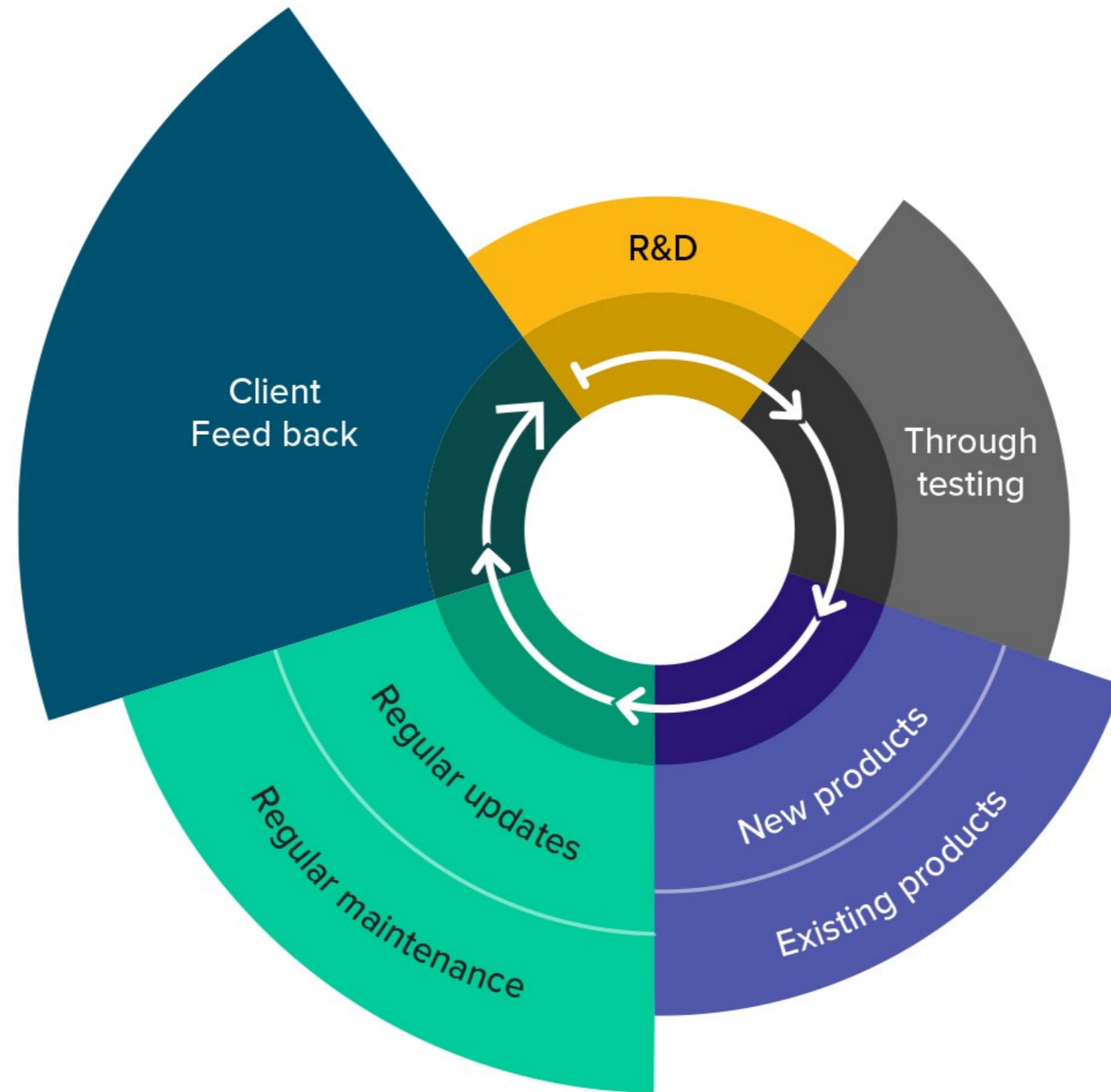
 Regular product updates to guarantee top efficiency

 New product release every year

 Partnerships with customers for feedback and improvements

 Thorough testing on all products

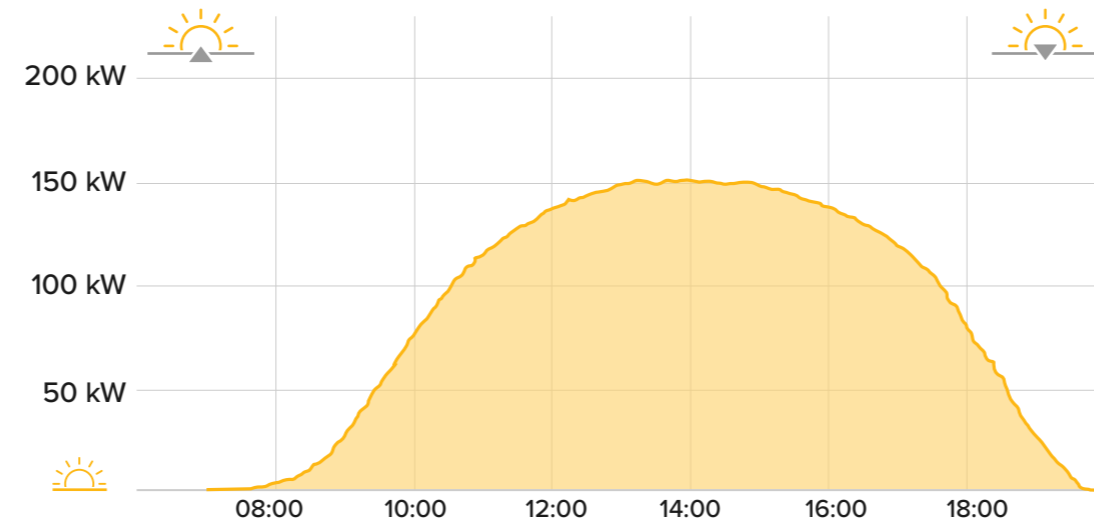
 Regular maintenance and updates offer





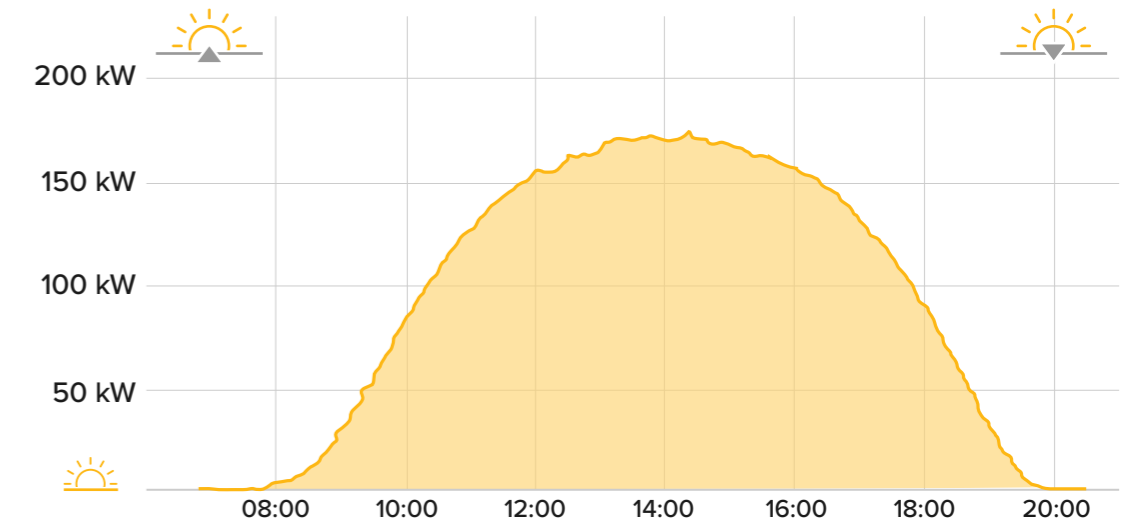
Regular cleaning maintains your photovoltaic installation and can help it regain performance. The sunlight reflection diminishes with dirt and reduces the absorption of solar energy on photovoltaic cells. As a result, cleaning regularly your solar panels is considered a good investment.

Before cleaning

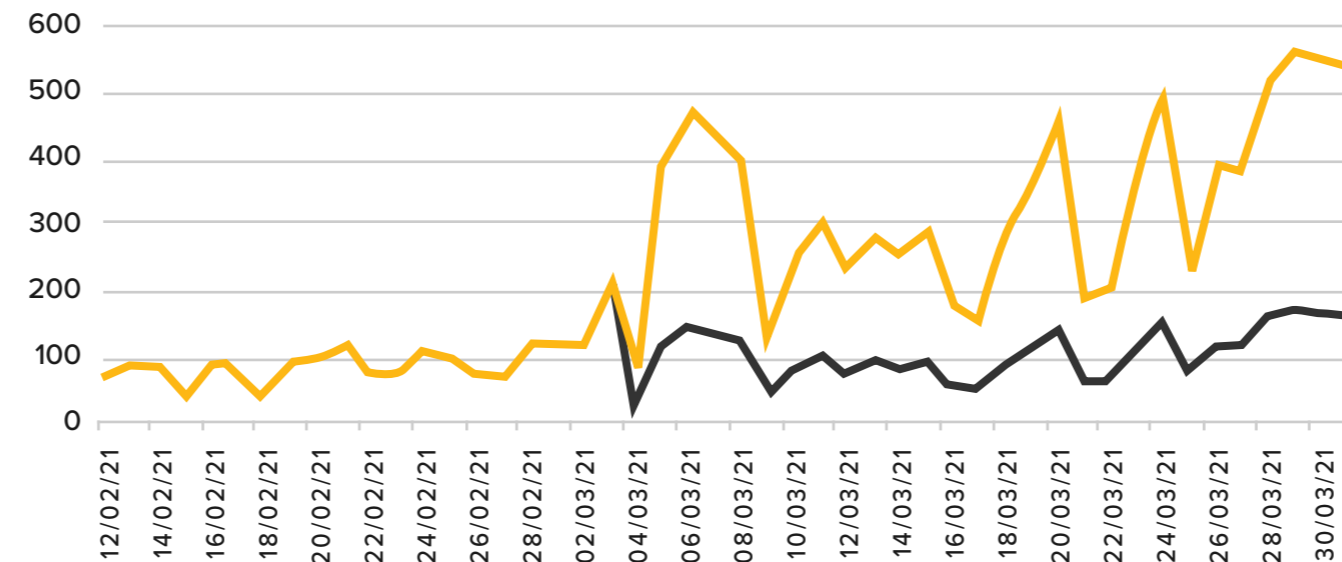


actuellement		jour	
injected current power Pac	31.96 kW	production	1.14 MWh
generator potency Pdc	35.82 kW	inject compensation	658.14 €
efficiency rate and n	89 %	specific yield	4.56 kWh/kWp
status	24x MPP ⓘ	estimation	189.59 %
		Total CO2 emission avoidance	1644.88 t

After cleaning



actuellement		jour	
injected current power Pac	31.96 kW	production	1.3 MWh
generator potency Pdc	35.82 kW	inject compensation	752.83 €
efficiency rate and n	89 %	specific yield	5.22 kWh/kWp
status	24x MPP ⓘ	estimation	167.9 %
		Total CO2 emission avoidance	1644.88 t



PV production
Before /After cleaning

— production without cleaning
— real production

SolarCleano

developed by cleaners

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