MAZAKA
HEAVY INDUSTRY

SOLAR PANEL CLEANING BRUSH

SUNLITE



SL 240 • SL 440 • SL 510 • SL 640

WE ARE AWARE...

MAZAKA
GROUP

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SUNLITE

The solar panel cleaning brush is an expertly designed tool that ensures the optimal efficiency and longevity of photovoltaic surfaces.

Equipped with soft, non-abrasive bristles, it gently removes dust, dirt, and debris without scratching or damaging delicate panel coatings.

A BRUSH

Engineered for ease of use, our models feature an extendable handle for accessing elevated installations, along with an integrated water-flow system for enhanced cleaning performance.

B FREE FLOATING PIVOT JOINT

The brush is mounted on a flexible suspension system, allowing it to automatically adapt its angle to changing panel positions and uneven ground surfaces.

C ADAPTIVE TRACKFLEX SYSTEM

By dynamically adjusting the boom angle, the Track Flex system maintains optimal brush positioning on solar trackers and supports efficient operation in tight row spacing.

D TRANSPORT POSITION

Brush Boom folds the Sun Lite unit to the right side of the carrier vehicle, ensuring compact positioning and safe transport.

E 180° CLEANING COVERAGE

The brush boom design enables effective cleaning on both the right and left sides of the carrier vehicle.

F MANUAL VALVE CONTROL SYSTEM

Allows the operator to manually control the machine from outside the cabin at the beginning of the cleaning process, ensuring safe and efficient operation.





- Adjustable Water Consumption
- Mini Lever Control
- Modular Design
- 180 Degree Range of Motion
- Capability of Both Wet & Dry Cleaning



Brush Material Options

UV-Resistant Plastic Brush Provides gentle and effective cleaning for glass surfaces in both **wet and dry conditions.** Works with the **accumulator** leveling system.

Sponge Brush Specially designed for wet cleaning applications, ensuring maximum surface contact and cleaning performance. Works with the **sensor leveling system.**



UV-Resistant Brush

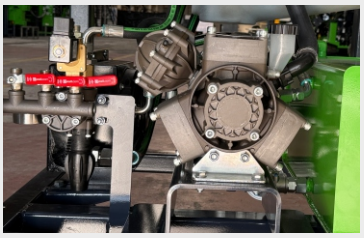
Sponge Brush

Water Tank



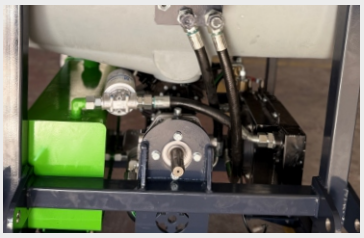
Featuring a rear-mounted carrying bracket for rapid replacement, the water tank is available in 800-liter and 1000-liter capacity configurations, ensuring operational efficiency and flexibility.

Water Pump System



The vehicle's PTO-driven water pump delivers a flow rate of 200 liters per minute at 4 bar pressure. The system features electric control, allowing operation from inside the vehicle cabin, and includes an adjustable water consumption function.

Independent Hydraulic System



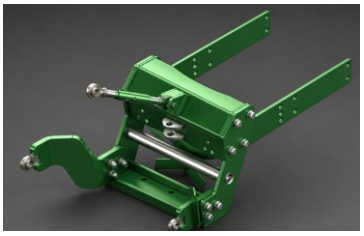
The Sunlite cleaning brush stands out with its self-contained hydraulic pump and oile cooling system delivering independent power generation and eliminating any extra load on the vehicle, ensuring maximum efficiency and performance.

AutomaticLevelling System



The Sunlite cleaning brush stands out with its self-contained hydraulic pump and oile cooling system delivering independent power generation and eliminating any extra load on the vehicle, ensuring maximum efficiency and performance.

Three-Point Hitch System



The Sunlite unit is compatible with a standard front-mounted three-point tractor hitch for quick and secure installation. The complete hitch assembly can also be supplied by Mazaka

Mini-Lever Remote Control



The Mini Lever Remote Control allows the operator inside the cabin to control all functions of the Sunlite cleaning brushes, including brush movements and water on/off control.

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SOLAR PANEL CLEANING BRUSH

TECHNICAL SPECIFICTIONS

Cleaning System	Available with bristle brush for wet and dry cleaning, or UV-Stabilized Polypropylene Sponge Brush for wet cleaning only.
Cleaning Speed	1,2 — 1,5 km/h
Brush Lengths	2,4m, 4,4m, 5,1m, 6,4m
Brush Type	300 mm Bristle UV Stabilized Polypropylene (PP) Accumulator-Based Automatic Leveling 600mm Sponge UV Stabilize Polypropylene Sensor-based Automatic leveling systems
Brush Speed	Brush speed (120–150 rpm) controlled via the mini lever remote control.
Controls	Proportional Mini-Lever Remote Control
Float Safety System	Automatically maintains optimal brush contact pressure by compensating for surface irregularities, ensuring maximum solar panel protection, consistent cleaning performance, and extended brush life.
Swivel Range	180° Rotation allows cleaning on both the left and right sides of the carrier vehicle.
Water flow	Controlled by the mini lever remote control. Water consumption is fully adjustable.
Weight	2.4 meter 786 Kg | 4.4 meter 850 Kg | 5.1 meter 900 Kg | 6.4 meter 1050 Kg

CLEANING OUTPUT DATA

	2.4 meter	4.4 meter	5.1 meter
Panel Arrangement	1 Portrait	2 Portrait	2 Portrait
Driving Speed	1,2 km/h — 1,5 km/h	1,2 km/h — 1,5 km/h	1,2 km/h — 1,5 km/h
Panel / hour	1.400 —1.600 pcs	2.800 —3.200 pcs	2.800 —3.200 pcs
Area output / hour	3.100 - 3.400 m2	5.800 - 6.200 m2	6.500 - 7.000 m2
Water Usage	0,25 Liter per m2 20 Liter per minute	0,30 Liter per m2 34 Liter per minute	0,35 Liter per m2 40 Liter per minute

Approximate values may vary depending on local conditions and soiling.

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