



Metalmeccanica

SOLAR CLEANER C4000 TELESCOPIC



Photovoltaic Panel Cleaning Machine

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The **Solar Cleaner C4000 Telescopic** is a self-propelled machine for cleaning photovoltaic panels, manufactured by B.P. Metalmeccanica.

The machine is customizable and capable of meeting the different needs of customers. It can operate in both desert environments and conventional environments, with cleaning systems using **water or dry cleaning**, which can be used with the same brush on both tracker systems and fixed systems.

The machine can operate with **brushes of different lengths, up to 6 meters**, interchangeable with each other. It is installed on a tracked undercarriage with a load capacity of 10 tons, equipped with a 50.7 kW thermal engine.

Automatic working phase, managed by electronic control through sensors placed on the brush body, which directly intervene on the controls, ensuring a constant distance between the brush and the panels, preventing collisions and damage to the panels.



MAIN FEATURES

- **Hydraulic system** equipped with pumps, proportional electro-distributor, heat exchanger, and filters for suction and return.
- System for connecting the brush body to the machine via a two-section arm, both telescopic, allowing for **very precise movement adjustments**.
- The operator has the ability to modify **the distance of the brush from the panels**, allowing it to be used even when wear reduces its diameter, thus avoiding frequent replacement.
- **Heat recovery system** to heat the water, ensuring more effective cleaning of the panels and preventing thermal shock to them.
- **Water consumption adjustable** by the operator according to environmental conditions.
- **Water softener** for water treatment, without the use of detergents.
- **Brush protected by plexiglass** to prevent dust and water dispersion.
- **Air-conditioned driving cabin** to ensure comfortable machine operation.
- **Video cameras** with display in the cabin to assist the operator during the working phase.
- **Lights** at the front, rear, and on the arm for nighttime operation.

Technical Features	U..O.M.	Value
Width	mm	2000
Engine power	kW	50,7
Fuel consumption	l/h	~ 8
Max speed	m/h	2400
Max working speed	m/h	*900-1200
Working capacity		Both sides
Unladen mass	Kg	7500
Gross weight	Kg	9600
Diameter brush	mm	500/800
Length brush	mm	Up to 8500
Brush rpm	rpm	220
Water tank capacity	lt	2100
Hydraulic oil tank capacity	lt	260
Fuel tank capacity	lt	125
Brush rotation		180°
Pressure of the brush on the panels	g/cm ²	1,35 : 1,85

**Indicative values and related to environmental conditions*





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