



**Metalmeccanica**

# **SOLAR CLEANER F3500 TELESCOPIC**



**Photovoltaic Panel Cleaning Machine**

# SOLAR CLEANER F3500 TELESCOPIC

**Solar Cleaner F3500 Telescopic** is the self-propelled machine for cleaning photovoltaic panels made by B.P. Metalmeccanica.

The machine is customizable and able to meet the different needs of customers. It can operate both in desert and in conventional environments, with **wet or dry cleaning systems**, usable with the same brush and on tracker or 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, capacity 7 Ton, equipped with a 44.0 Kw thermal engine.

**Automatic working phase**, managed by electronic control via sensors placed on the brush body which, by acting directly on the controls, guarantee the constant distance of the brush from the panels, avoiding collisions and damage to the same.



# MAIN FEATURES

- **Hydraulic system** equipped with pumps, proportional electro-distributor, heat exchanger and suction and return filters.
- Connection system of the brush body to the machine via a double-section arm, both telescopic, which allows for **very accurate adjustment of the movements**.
- The operator has the possibility of **modifying the distance of the brush from the panels**, allowing it to be used even when wear reduces its diameter, avoiding frequent replacement of the brush.
- **Heat recovery system** to heat the water, to ensure more effective cleaning of the panels and avoid thermal shock on them.
- **Water consumption adjustable** by the operator according to environmental conditions.
- **Water softener** for water treatment, without using detergents.
- **Brush protected by plexiglass** to prevent dust and water from spreading.
- **Air-conditioned driving cabin** to make the use of the machine comfortable.
- **Video cameras** with displays to assist the operator during the work phase.
- **Lights** on the front, rear and arm for night operation.

| Technical Features                                                | UOM               | Value             |
|-------------------------------------------------------------------|-------------------|-------------------|
| Width                                                             | mm                | 1600/1800         |
| Engine power                                                      | kW                | 44,0              |
| Fuel consumption                                                  | l/h               | ~ 6               |
| Max speed                                                         | m/h               | 2400              |
| Max working speed                                                 | m/h               | *900-1200         |
| Working capacity                                                  |                   | Both sides        |
| Unladen mass                                                      | Kg                | 5600              |
| Gross weight                                                      | Kg                | 7200              |
| Diameter brush                                                    | mm                | 500/800           |
| Length brush                                                      | mm                | From 2400 up 6000 |
| Brush rpm                                                         | rpm               | 220               |
| Water tank capacity                                               | lt                | 1600              |
| Hydraulic oil tank capacity                                       | lt                | 157               |
| Fuel tank capacity                                                | lt                | 88                |
| Brush rotation                                                    |                   | 180°              |
| Pressure of the brush on the panels                               | g/cm <sup>2</sup> | 1,35 : 1,85       |
| <i>*Indicative values and related to environmental conditions</i> |                   |                   |





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