



Metalmeccanica s.r.l.



SOLAR CLEANER F3500 TELESCOPIC



Solar Cleaner F3500 Telescopic is the last model of photovoltaic panels cleaning machine realized by B.P. Metalmeccanica.

The machine is customizable, able to meet the different needs of customers.

The machine can operate both in desert environments and in traditional environments, with cleaning systems with water, dry or combined brush plus suction, usable with the same machine and on tracker or fixed panel systems.

The machine can work with different interchangeable brushes, with a maximum length of 4320 mm. The machine is installed on an undercarriage and it's equipped with: thermic engine 35,3 Kw.



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Hydraulic system based on gear pumps, proportional distributor to control machine's functions, fuel tank and water tank with a capacity of 1800 liters and filters of suction and return on hydraulic oil tank.

The machine is equipped with an air-conditioned cockpit, which makes its use comfortable; the working lights located on the front and rear and on the brush arm allow use the machine also in the dark hours.

Electrical system 12 volt with a control unit that runs the various functions of the machine and that allows programming customized based on the customer's needs.

The machine is equipped with a high-pressure pump and a water softening system for water treatment, regeneration during the work phase.

Water consumption is adjustable from inside the cabin with four different settings that allow the operator to choose the most suitable quantity according to the environmental conditions.

During the cleaning process the automatic mode is managed via sensors placed on the brush body, which, acting directly on the machine's controls, guarantee a constant distance of the brush from the panels preventing any risk of damaging of them.

The second telescopic trunk allows a very slim adjustment in the automatic working phase. A particular movement of the body brush in the range of the panels avoids the sudden impact of the brush with the edge of the panels, ensuring a long life of the brush itself.

The machine is equipped with a heat recovery system developed by the hydraulic circuit to overheat the water and avoid thermal shock on the panels.

A camera system allows to frame the working area, making easier the activity of the driver.

N.B. On request customized solutions are created to meet customer needs.

SPECIFICATIONS

Width	mm	1600/1800
Length		Variable
Height		Variable
Engine power	KW	35,3
Max speed	m/h	2400
Operating capacity		Both sides
Net weight	Kg	4960
Gross weight	Kg	6560
Wet cleaning brush diameter	mm	800
Dry cleaning brush diameter	mm	500
Brush length	mm	2400/3520/4320
Brush rounds per minutes	Rpm	300
Water tank capacity	l	1600
Boom rotation	°	180
Optimal working speed	m/h	*900-1200
Pressure of brush on panels	g/cm ²	1,35 : 1,85

*Approximate values, tied to working conditions

