

ALEANDA

Solar Cleaner

F3500 Telescopic



PV Cleaning Machine



SOLAR CLEANER F3500 TELESCOPIC

This is a self-propelled photovoltaic cell cleaning machine manufactured by BP Metalmeccanica srl. The machine is customized to meet different customer needs.

It can work both in desert and in normal conditions, with wet or dry cleaning systems, using the same brush, as well as on a crawler or with the same brush, as well as with a tracker or a fixed panel. The machine can work with replaceable brushes of different lengths.

It is mounted on a tracked chassis, has a load capacity of 7 tons, is equipped with a heat engine with a capacity of 35.3 kW, a hydraulic system with gear pumps, a proportional distributor for controlling various functions of the machine.

The hydraulic circuit is equipped with a heat exchanger and suction and return filters on the oil tank.

It is equipped with an air-conditioned cabin, which makes it comfortable to use, and working lights located in the front, rear and on the boom allow it to be used even at night.

Electrical system with 12 volt power supply with an electronic control unit that automatically controls the working phase of the machine.

The hydraulic system is equipped with two pumps and a softener for water purification, with rubber regeneration during operation.

Water consumption can be adjusted from the cab with four different settings that allow the operator to select the most suitable amount of water depending on the environmental conditions.

The machine uses the heat recovery produced by the hydraulic circuit to heat the water, avoiding thermal shocks on the panels and guaranteeing a very thorough cleaning.

The operation is controlled automatically by means of sensors located on the body of the brush, which, intervening directly in the control system, guarantee a constant distance of the brush from the panels, avoiding collisions and damage.

The second telescopic boom provides very precise adjustment in the automatic phase of work. Special movement of the brush body in the gap between the panels allows you to avoid a sudden collision of the brush with the edge of the panels themselves, ensuring a long service life of the brush itself.

The operator has the ability to change the distance of the brush from the panels, which allows it to be used even when wear reduces its diameter. This operation allows you to use the brush for a very long time (about 3,000 operating hours), which affects maintenance costs.

The camera system allows you to see the working field in more detail and makes the work of the driver easier.

* there is also an opportunity to additionally discuss the individual configuration for the client

Technical characteristics		Value
Width	mm	1600/1800
Engine power	kW	35.3
Maximum speed	m/h	2400
Operating capacity		On both sides
Net weight	Kg	4960
Gross weight	Kg	6560
Brush for wet/dry cleaning diameter	mm	500/800
Brush length	mm	Da 2400 a 7400
Brush rpm	rpm	220
Water tank capacity	l	1600
Arrow rotation		180°
Optimal working speed	m/h	* 900-1200
Brush pressure on the panel	g/cm ²	1.35 : 1.85

BP Metalmeccanica srl reserves the right to make changes and updates without the obligation of any communication.



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