



# SOLAR PANELS BROOM

# MANTA SOLAR


## STANDARD EQUIPMENT

- 1 Digital ultrasonic sensors' kit on both sides
- 2 Removable side supports
- 3 Control box
- 4 3 bars watering kit with spray nozzles

## DESCRIPTION

MANTA SOLAR is the response of U.Emme Srl for maintaining the best performance of photovoltaic solar panels by keeping them constantly clean. Equipped with 1 meter diameter **Carlite® brushes** (a patented antiscratch material with wear resistant and waterproof certified property) installed on **light alloy rotor**, the Manta Solar range can be installed on excavators starting from 4 tons' operating weight. Each model is provided by **watering kit** with spray nozzles, **oil flow and pressure regulating valve**, **digital ultrasonic sensors' kit** for checking position and **control box** with switches, function controls and sound/light alert signals. The digital checking position system isn't upstream of any type of arm automation, but is only used to read the broom distance from the surface to clean and its right position, informing the operator when too close to the panel, through LEDs and warning sounds. U.Emme has studied a simple and intuitive application that allows every excavator's owner to equip it for manually cleaning photovoltaic fields, with a substantial degree of safety. The sweeper is provided also by 2 removable side supports for the equipment recovery.



MODELS		MANTA SOLAR 2100 L	MANTA SOLAR 2100	MANTA SOLAR 3500
Total width	mm	2100	2100	3900
Working width	mm	1850	1850	3550
Height	mm	1300	1300	1300
Weight without linkage (with support feet installed)	Kg	170	340	540
Brushes	Ø / nr	1000 / 23	1000 / 23	1000 / 44
	Tons	4÷5	5÷7	≥7

**OPTIONS**

- 5** 1000 liter capacity water tank fixed on pallet
- 6** Watering kit composed by electric pumps, filters, hoses and electrical cables
- 7** Forks kit with adjustable slot for lifting the water tank

**LINKAGE SYSTEMS**

- 8** Bolted plate for excavators or backhoe loaders' arms
- 9** Bolted naked plate for quick coupler (

**APPLICATIONS**

- CLEANING OF PHOTOVOLTAIC FIELDS
- CLEANING OF PHOTOVOLTAIC SYSTEMS ON STABLES & GREENHOUSES CANOPIES
- WASHING OF LARGE VERTICAL OR OBLIQUE GLASS SURFACES

