

MILLIE

SOLAR ENERGY MACHINE SOLUTION

Tel: +90 532 566 17 65

Tel: +90 552 359 19 89

can.pekcan@ars-ay.com

salih.kosak@ars-ay.com

İstanbul / Turkey



MILLIE

**SOLAR ENERGY
MACHINE SOLUTIONS**



INFERNO
**SOLAR PANEL
CLEANING BRUSH**



The Millie solar panel cleaning brush has expanded its ground system cleaning capabilities with the introduction of the MILLIE INFERNO, spanning 2.2 to 7 meters, to better serve the maintenance needs of photovoltaic solar farms.

These cleaners can be effortlessly mounted on various standard vehicles like tractors, excavators, and telescopic loaders, providing exceptional mobility, straightforward installation, and effortless control. Optionally, Millie can be used in conjunction with a cleaning solution for your photovoltaic system, effectively working in both wet and dry conditions. It represents the next-generation product, meeting the diverse needs of operators.

As a solution to ground-based large-scale power plants, it features a cleaning capacity with water up to a maximum 25 L/min per hour / 1,21 MW.

INFERNO
SOLAR PANEL
CLEANING BRUSH

180° Free Rotation

The brush can rotate 180 degrees left and right. In this way, it can wash the panels on both the right and left sides.



Stabilization System

The nitrogen accumulator float system offers constant and controlled pressure between the brush and the panels, regardless of terrain conditions.



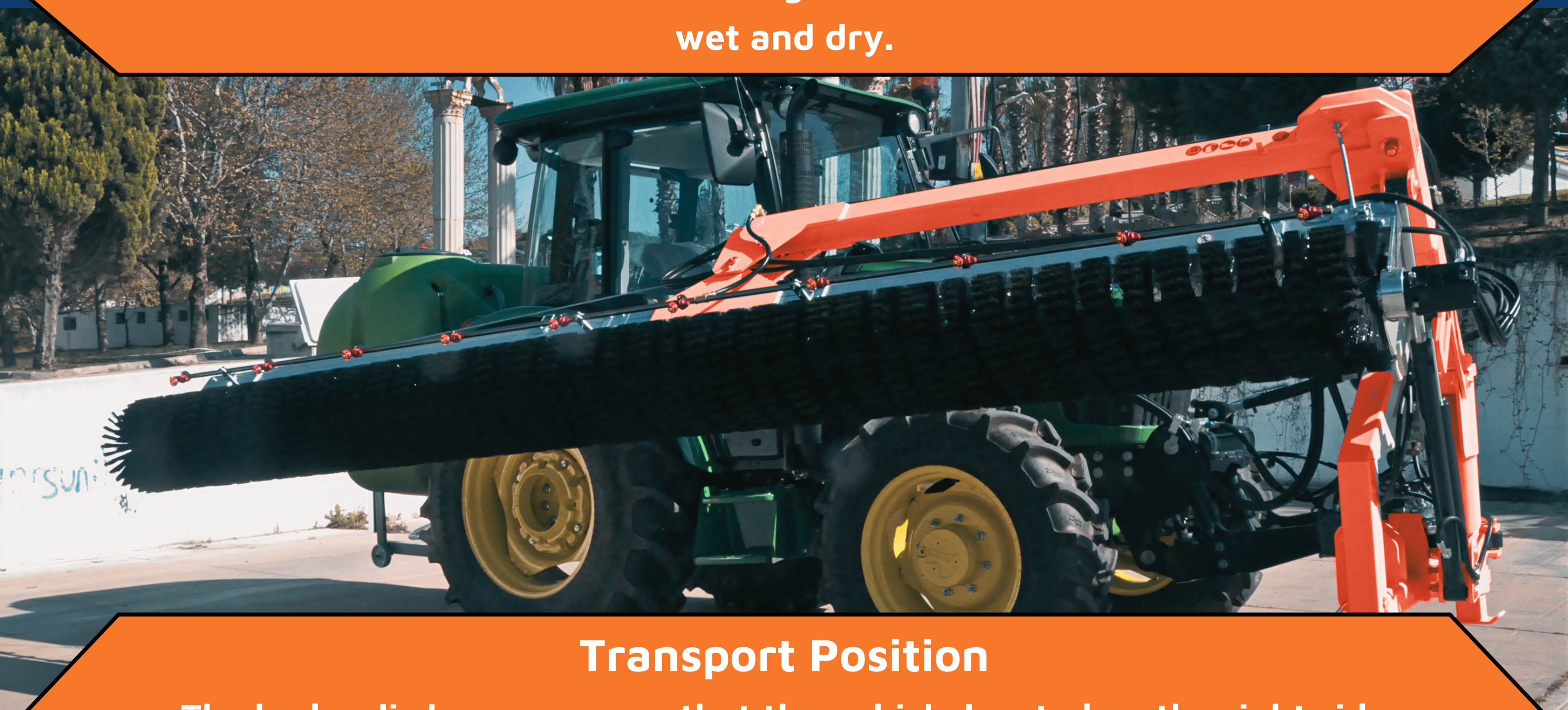
Free Rotary

The brush system is suspended via a freely rotating suspension point. This suspension point allows the brush to adjust its angle as the panels move or the terrain changes.



Dry-wet Cleaning

Water lines are built as standard throughout the machine. You can clean both wet and dry.



Transport Position

The hydraulic boom ensures that the vehicle located on the right side of the carrier vehicle can be folded and transported safely. Controlled by joystick.

Joystick Control

Joystick control offers safe and easy operation from inside the tractor cabin.



Cleaning Brush Details

Brush Diameter	400 mm
Brush Length	2-7 meter
Brush Material	UV-resistant mixture of plastics for a gentle cleaning of glass surfaces; Brush bristle thickness is 0.7 - 1.2 mm.
Drive	Fully hydraulic and proportional valve system with joystick control
Weight	Approx. 650 kg, considering a brush of 5 metres in length
Control Unit	12 Volt-version (protection of the on-site installed two-pin power socket by a 5 A fuse) PLC-control via Joystick (lift, lower, slew)
Driving Speed	1.5 km/h
Brush Speed	Brush speed is between 10-200 rpm. The speed can be regulated by the accelerator pedal or the throttle at the swivel joint.
Water Consumption	The quantity of water required for a brush of the length of 5 meters is about 5 - 25 liters/minute. Nozzle diameter is 0.2mm with 20 nozzles on the brush.

Brush Quality

Our brushes have been tested for both wet and dry cleaning. It has been proven by test reports that it does not damage your panels in any way.