



Model: **Rooftop**

The **NO** Water **M**echanical **A**utomated **D**usting **D**evice **Information Sheet**

Designed to offer the best dust control solution for all desert solar array applications, NOMADD provides the finest result by being a fully automated waterless cleaning system. The NOMADD cleaning robot is the result of years worth of research, design and field testing. Unlike other cleaning solutions, NOMADD runs on a rail connected to the roof mounting structure and not on the panel surface. The lightweight design is high-wind proof and has been tested in the harsh Middle East climate.



Cost Effective

3 - Year Payback Period,
Low maintenance



Simple and Reliable

No power transmissions,
cables, gears and pulleys



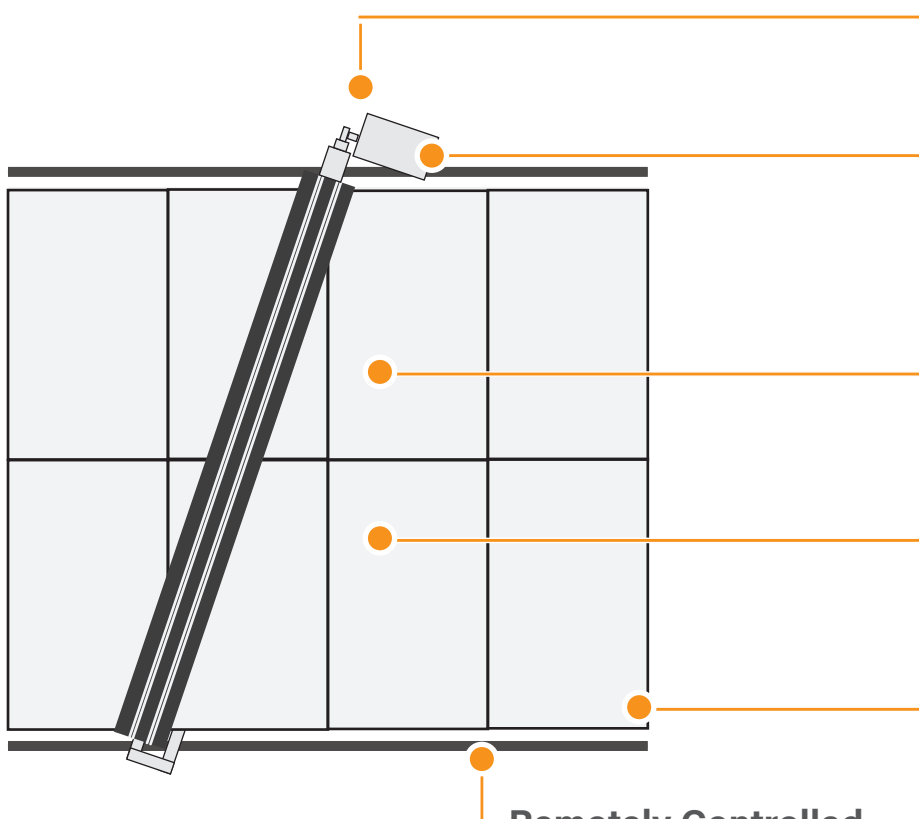
Wireless Control

Remotely controlled and
monitored

Operating Characteristics

Array row length per robot: 500 m - 1500km/day
Array table width: up to 6 meters
Protrusions above the panel plane: 0 - 40 mm
Horizontal gaps between panels: No limit
Operating temperature: - 20 C to 60 C

Vertical misalignment between panels:
 +- 20 mm
Rail: 41x41 mm unistrut profiles - Integrated and retrofitting options available
Cleaning rate: up to 0.3 m per second



- Fully Autonomous**
Building managing system integrable
- Self Powered**
On-board battery powered by an attached 20 - 50W solar panel
- No Water**
No water used in the cleaning process
- Zero Panel Damage**
NOMADDs only contact on panel surface is the brush
- Designed & Tested**
In the extreme conditions of Saudi Arabia

Remotely Controlled - Monitored
 Auto alerts and data collection

Specifications:

Dimensions:

Length: 1000 - 6000 mm
Width: 500 mm
Height: 360 mm
Weight: 25 - 45 kg

Power Characteristics:

Battery: 10 Ah 12 V LiFePO4
Panel: 20 - 80 W S.P.
Power supply: 20W solar panel
 Low Power Consumption
IP65 enclosure and sealing
High operating temperature
electronics package

Command & Control Specifications:

Working method: Independent and autonomous operation
Communication: Long Range (LoRa) Wireless
Monitoring: Remotely 24/7 through a secured portal
Integration: SCADA compatible