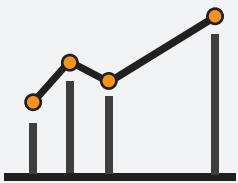




Model: **Rooftop**

## 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 - 1500 m/day

**Array table width:** up to 4 m (6 m under development)

**Protrusions above the panel plane:** 0 - 40 mm

**Horizontal gaps between panels:** No limit

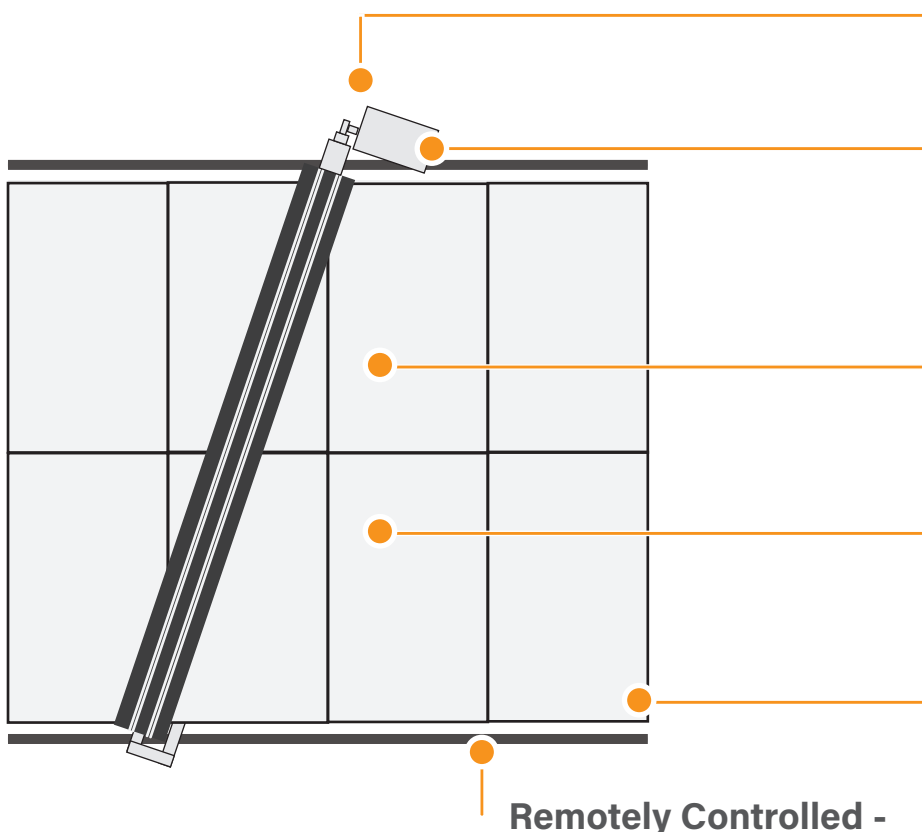
**Operating temperature:** - 20 C to 60 C

**Vertical misalignment between panels:**

+/- 20 mm

**Rail:** 41x41 mm unistrut profiles - Integrated and retrofitting options available

**Cleaning rate:** up to 0.22 m/s



### Fully Autonomous

Building managing system integrable

### Self Powered

On-board battery powered by an attached 20 W solar panel

### No Water

No water used in the cleaning process

### Zero Panel Damage

NOMADD's 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:** 1550 - 4550 mm

**Width:** 500 mm

**Height:** 360 mm

**Weight:** 20 - 45 kg

### Power Characteristics:

**Battery:** 10 Ah 12 V LiFePO4

**Power supply:** 20 W Solar Panel

**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