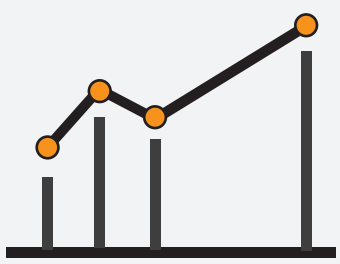
NOMADD
حلول الطاقه الشمسيه نوماد
Desert Solar Solutions

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

Model: **Fixed Tilt**

Information Sheet

Designed to offer the best dust control solution for all desert solar array applications, the NOMADD cleaning robot is the result of years worth of research, design and field testing. It is designed to be adaptable and durable for a 25 year operation, with the feature of being a fully automated waterless system. Unlike other cleaning solutions, NOMADD does not run on the panel surface, preventing any damage that could occur over time.



Cost Effective
3 - Year Payback Period

Simple and Reliable
No power transmissions, cables, gears and pulleys

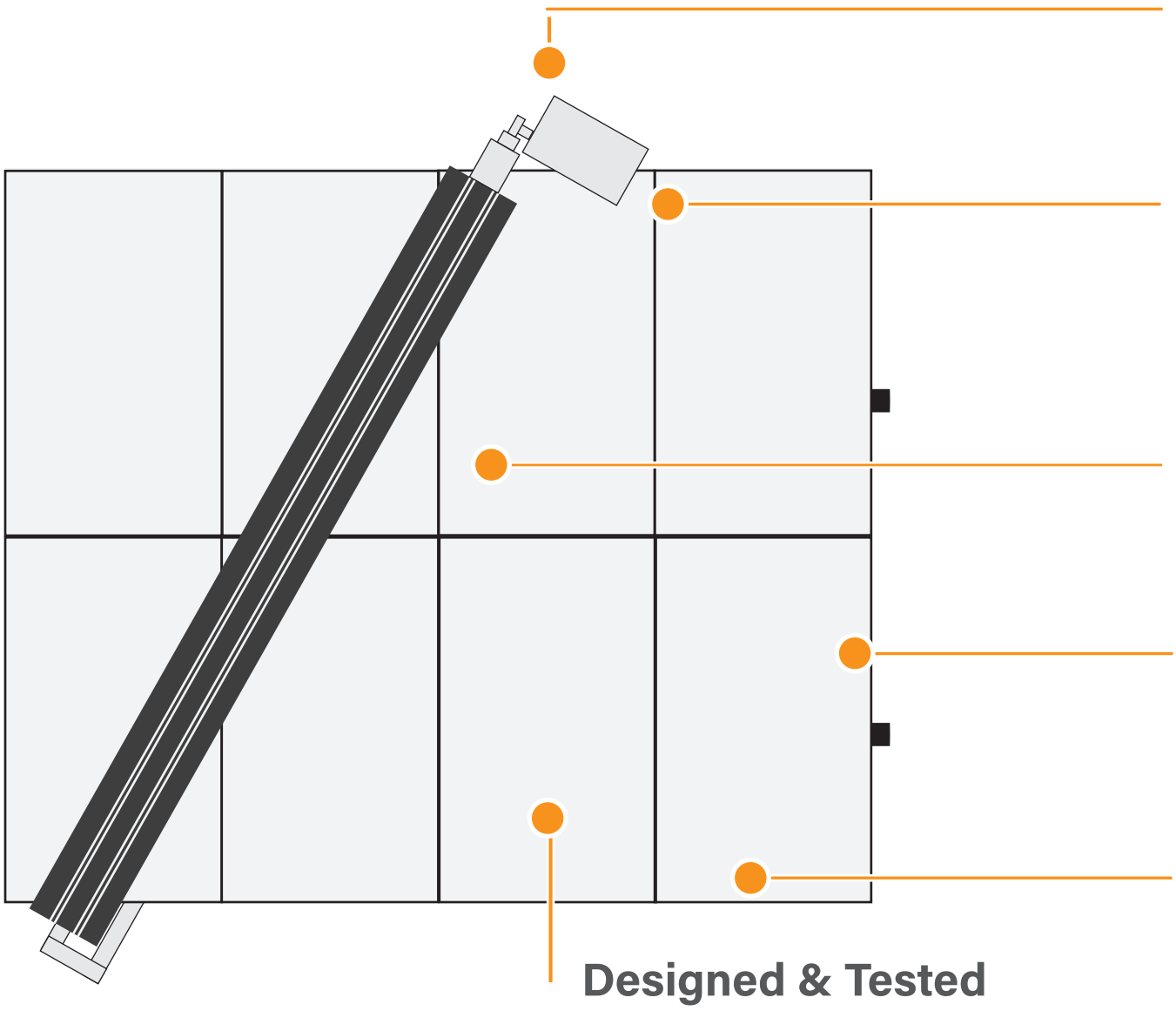
Wireless Control
Remotely controlled and monitored

http://www.nomaddesertsolar.com/ info@nomaddesertsolar.com

Operating Characteristics

Array row length per robot: 500m - 1500m/day
Array table width: up to 6m
Protrusions above the panel plane: 0 - 20 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
No human interferance or manual labor

Remotely Controlled - Monitored
Auto alerts and data collection

No Water
No water used in the cleaning process

Self Powered
On-board battery powered by an attached 20 - 50W solar pane

Zero Panel Damage
NOMADDs only contact on panel surface is the brush

Designed & Tested
In the extreme conditions of Saudi Arabia

Specifications:

Dimensions:
Length: 1000 - 4200 mm
Width: 800 mm
Height: 444 mm
Weight: 25 - 45 kg

Power Characteristics:
Battery: 10 Ah 12 V LiFePO4
Power supply: 20 W solar panel
Low Power Consumption
IP65 enclosure and sealing
High operating temprature elctronics 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