

**ARMA – MECHANICS**

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*SlavoMeccanica Ltd*  
*Trading Innovation*



## The Efficient

### Solar Tracker



**ArmaSide**, is a flexible and reliable 1 axis tracking system for solar parks. At a **competitive** price, comparable to that of fixed tilt systems, it's a profitable investment for FIT, FIP and Net Metering Solar projects, increasing yields by **20 % - 25 %**.

**Webpage:** [www.arma-mechanics.com](http://www.arma-mechanics.com)

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#### ArmaSide Features :

- Solar panels are placed in rows of **20** at a **landscape** orientation and in groups of parallel rows.
- Rows oscillate in the East - West direction, controlled by a PLC in continuous search for the Maximum Irradiance Point by means of PV guides
- Each group being controlled by a **single motor**, minimal maintenance is required.
- A wind meter and a snow sensor are used to take suitable stow positions under extreme weather conditions.
- Hot dip galvanized steel structure.
- **DC cables** can run through a channel fixed to the Row Leading Beam of each row group, eliminating the need for earthworks.
- Yields **+ 20% - 25%** over fixed tilt systems
- **High Space Coverage** (i.e 7.000 m<sup>2</sup> / 500 kW)

Structure certified for **structural strength** according to Eurocodes 1,3. **CE** marked.

**Lightning Protection** can be added  
Adjustable to **hilly (up to 20 %) terrains**.

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## Technical Specifications

### **Metal Structure**

Material : Hot dip galvanized St37 steel  
Dimensions : Max height 1.9 m, Row Length 20 m  
Weight : 100 Kgr/Kw

### **Structural Strength**

Wind : 11 Bf (33m/sec)  
Snow : 400N/m<sup>2</sup>

### **Motion Transmission & Leading Beam**

- Each row group is controlled by a single motor. Motion is transmitted by a Leading Beam
- DC cables can run on the Leading Beam
- Adjustable to hilly (up to  $\pm 20\%$ ) terrains.

### **Tracking Method - Orientation**

- Follows the Maximum Irradiance Point. MCU controlled, using PV guides.
- Wind meter – Snow detector to stow when needed.



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### Investment Side

- Highly competitive **price** , easy and fast installation
- Great **savings** on earthworks
- Very **low** maintenance costs

**ROE > 50 % over fixed tilt systems**  
**( FIT € 0.0664/ kWh )**