

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 ground and roof top solar installations. At a **highly competitive** price, it's a profitable, value for money, investment for FIT, FIP and Net Metering Solar projects, increasing yields by **20 % - 25 %**.

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ArmaSide Features :

- Solar panels are placed in rows of **22** 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 sensors
- Each group being controlled by a **single motor**, minimal maintenance is required.
- A wind meter is 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 Driving Beam of each row group, eliminating the need for earthworks.
- Yields + **20% - 25%** over fixed tilt systems
- **High Space Coverage** (i.e 7.000 m² / 500 kW)

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

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

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Technical Specifications

Metal Structure

Material : Hot dip galvanized steel beams
Dimensions : Max height 1.9 m, Row Length 24 m
Weight : 40 Kgr/Kw

Structural Strength

Wind : 11 Bf (33m/sec)
Snow : 400N/m²

Motion Transmission & Leading Beam

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

Tracking Method - Orientation

- Tracks the Maximum Irradiance Point.
- PLC controlled, using PV sensors.
- Wind meter to stow when needed.



Investment Side

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

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ROE > 30 % over fixed tilt systems