



M – TRC - 760

Horizontal Single – Axis Electrical Tracker

- Established in 1969
- 2008 - Introduction in fixed mounting structures for PV panels
- 2019 - Specialization in the design of Single Axis Hydraulic Trackers.
- More than 63 MW in trackers' projects done so far
- Up to 25% more energy production compared to a fixed PV installation of equal capacity
- Design on each customer's needs and preferences

HORIZONTAL SINGLE – AXIS SOLAR TRACKER

M – TRC -760

Technical Features

Drive Type	Electrical
Power Source	Connection to the main power grid (AC motor) – equipped with UPS
Tracking Method	Astronomical Algorithm
Range of motion	-50° to +50°
Maximum surface area	200m ²
Structure	Galvanized elements [EN 1461, EN 10346]
Accessories	Solar Plastic Bearings – a combination of stainless steel and bronze components
Orientation	Portrait, Landscape
Dimension Limits	Flexible table length arrangements, following string arrangement (panel/string)
PV Modules	Up to 2 in portrait layout / Up to 4 in landscape layout/ Panel dimensions from 1.2 up to 2.5m
Slope Limits	Unlimited E-W slope and up to 8° S-N for typical design / Unlimited E-W slope and up to 15° S-N for special. The slopes are smooth and each structure is considered to have steady slopes.
Foundation	Pile ramming/Piles in holes filled with concrete / Concrete ballasts
Wind load limits	Vb=33m/s, Terrain Category II
Snow load limits	Sko=1.7kN/m ² , Snow Zone C
Operation Conditions	Up to 50 km/h at any tracking angle and wind orientation
Wind Protection	Automatically return to the stow position through anemometer
Operation Temperature Range	-20°C to +60°C

Advantages of the system

- AC powered: Customer provided AC circuit - 240 VAC
- Slewing Drive Rated Voltage: 24 VDC
- Suitable for any terrain, even in cases of extreme slopes
- Daily backtracking – Prevention of tables casting shadows to each other
- Very short free rotating length – Exceptional torsion stability and zero backlash
- Wired Communication – Full handling and monitoring through the Internet
- Telemetry through VNC viewer
- Independent movement of each substructure (cleaning and pass – through mode)
- Maintenance - Typical annual checks of the system
- Electrical Drive – No maintenance needed