


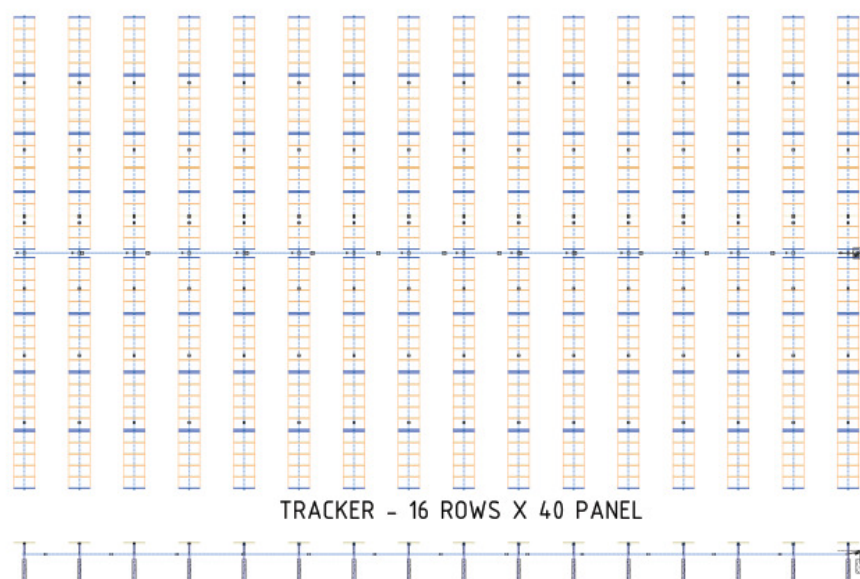


SURE TRACK



SURE TRACK horizontal single axis PV trackers are one of the most technologically advanced and commercially viable trackers. The vast design, manufacturing, field installation and logistics experience of the team behind the development of SURE TRACK trackers has ensured that the most relevant cutting edge technologies are incorporated into the trackers. From the word go, intelligent frugal engineering has been the guiding principle in development of SURE TRACK trackers, resulting in innovative, high performance, durable and customisable products. In addition minimal operation and maintenance requirements maximises ROI. SURE TRACK trackers are available in ganged (ST-T0-GL-16X40) and independent row variants (ST-T0-IL-60 and ST-T0-IS-60). Our solutions team quickly selects the most suitable tracker variant and prepares optimal layouts to suit any land size, shape and topography.

GANGED HORIZONTAL SINGLE AXIS TRACKING SYSTEM



A maximum of 16 rows are ganged together mechanically. The ganged rows are driven by a single linear actuator (worm gear screw jack) with 0.5 hp capacity AC motor. A maximum of 40 modules can be mounted on each tracker row. The sun is tracked from east to west with provision for back tracking to avoid proximal shadow losses. The ganged tracking system makes a large number of modules work together to lower the system cost with a gain in energy of up to 20% compared to fixed tilt system, thus increasing the project IRR.

Tracker Model	ST-T0-GL-16X40
Version	GL-00
Module Assembly Area per row	84 sq.m.
Module Assembly Arrangement	Potrait/40 Modules
Module Reference	1956mm*992mm/1650mm*992mm
rows per Tracker	16
Nominal DC capacity per ganged block	201.6 KwP
Drive Type	Worm gear screw jack
Tracking Accuracy	≤1°
Tilt Angle	0°
Tracking Angle Range	±45°
Max. Operating Wind speed	34m/s (120kmph)
Max. Wind speed at Stow Position	44m/s (160kmph)
Working Temperature	-40°C to 60°C
Motor Power	230V, 370W (Self Powered)
Material	Hot Dip Galvanized Steel
Controller	PLC
Tracking Principle	NREL USA derived Tracking Algorithm
Communication interface	RS485
Electronic Control Cabinet	IP65, Weather Proof
Control	Auto/Manual
Back Tracking	Yes
Auto Reset	Yes
Night Reposition Function	Yes

*Above Specifications are subject to change without notice

SYSTEM ADVANTAGES

Maintenance Free Design

PTFE bearings used are maintenance free and long lasting.

Smart Control

Each controller manages two ganged tracker blocks.

Site Installation

Simple assembly and rapid installation results in reduction of installation cost and compression of construction schedule.

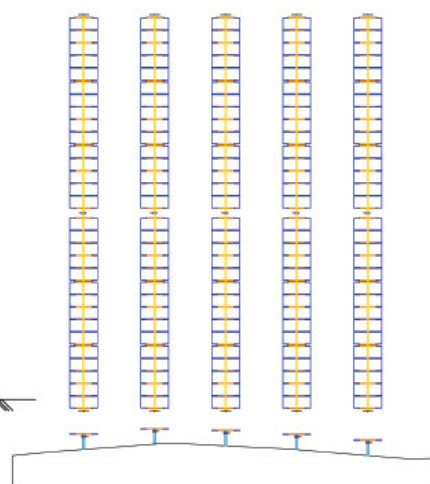
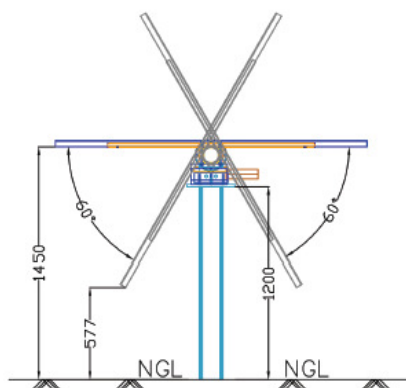
Self-Powered Controller

The self-powered controller eliminates need for auxiliary AC power for actuator driving mechanism.

Back Tracking

The intelligent back tracking algorithm increases energy output by avoiding proximal shadows.

INDEPENDENT HORIZONTAL SINGLE AXIS TRACKING SYSTEM



Each tracker row is driven by a linear actuator or slew drive depending on the option selected. A maximum of 60 modules can be mounted on each row. The sun is tracked from east to west with provision for back tracking to avoid proximal shadow losses. The independent row tracking system facilitates installation on land with undulating topography and is amenable for fitting the maximum possible capacity in land with irregular boundaries. The gain in energy is up to 20% compared to fixed tilt system, thus increasing the project IRR.

Tracker Model	ST-T0- IL-60; ST-T0-IS-60
Version	IL-00; IS-00
Module Assembly Area per row	126 sq.m
Module Assembly Arrangement	Potrait/60 Modules
Module Reference	1956mm*992mm/1650mm*992mm
Nominal DC capacity per Tracker	18.9 KWp
Drive Type	Linear Actuator; Slew Drive
Tracking Accuracy	≤1°
Tilt Angle	0°
Tracking Angle Range	±60°
Max. Operating Wind SPEED	34m/s (120kmph)
Max. Wind speed at Stow Position	44m/s (160kmph)
Working Temperature	-40°C to 60°C
Motor Power	24V,120W (Self Powered)
Material	Hot Dip Galvanized Steel
Controller	PLC
Tracking Principle	NREL USA derived Tracking Algorithm
Communication interface	RS485/Wireless
Electronic Control Cabinet	IP65, Weather Proof
Control	Auto
Back Tracking	Yes
Night Reposition Function	Yes

**Above Specifications are subject to change without notice*

SYSTEM ADVANTAGES

Land Topography

Can be installed on undulating land.

Maintenance Free Design

PTFE bearings used are maintenance free and long lasting.

Smart Control

Dedicated controller for each row minimises capacity effected due to any down time.

Fully Scalable

Scales easily from kilowatt to megawatt size installations.

Ground Coverage Ratio & Unblocked Rows

Independent row tracker GCR is higher compared to traditional trackers. Enables ease of movement for O&M.

Site Installation

Simple assembly and rapid installation results in reduction of installation cost and compression of construction schedule.

Self-Powered Controller

The self-powered controller eliminates need for auxiliary power.

Back Tracking

The intelligent back tracking algorithm increases energy output by avoiding proximal shadows.



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