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# Supplying Structures Deploying Trust

Single Axis Trackers | Seasonal / Fix Tilt MMS | OEM Supply

# DayChase - Single Axis Tracker

HSAT

## Independent Row 1P / 2P - Multi Point Drive Tracker

After years of global OEM supply experience , We offer a well competitive, Maintenance free, Qualitative & sturdy trackers for small to large projects. Our indigenously manufactured each Tracker parts & control unit are made to compete the large international players in terms of reliability & after sales need.

### Static Analysis

FEA & Staad analysis as per IS & ASTM code.  
We also undertake joint analysis.

### Dynamic Analysis

Aro-elastic wind instability analysis. Full-scale validation of aerodynamic stiffness and damping as a function of wind speed.

### Life Cycle Tests

Vigorously testing expected life, wear cycles, load capacity, environment effects for drive parts.

### Fail Safe Engineering

Adaptive & rouged configuration to sustain installation errors, terrain/foundation changes, earthquake, O&M negligence, maintenance need at remote location.



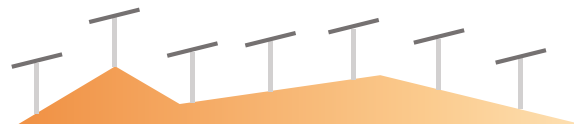
# DayChase - Single Axis Tracker



10%  
N-S Slope

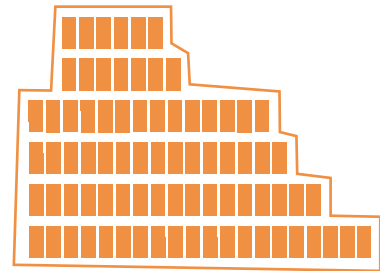
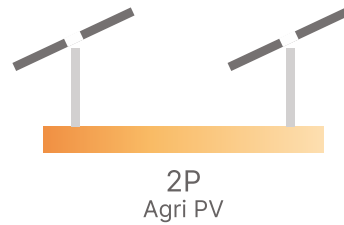
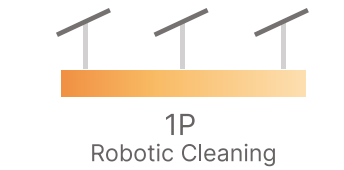
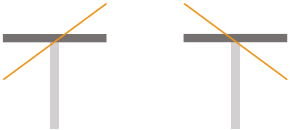
E-W Slope

20%



Tilt Angles

+60° to -60°  
+50° to -50°



Variable Table Length  
28 upto 200 PV Modules



# Drive Actuators - Multi Point Drive & Torsional Lock



**15**  
Years

Drive Parts  
Warranty

  
**IP65**

Seals to Confirm  
IP65

**40000**  
N

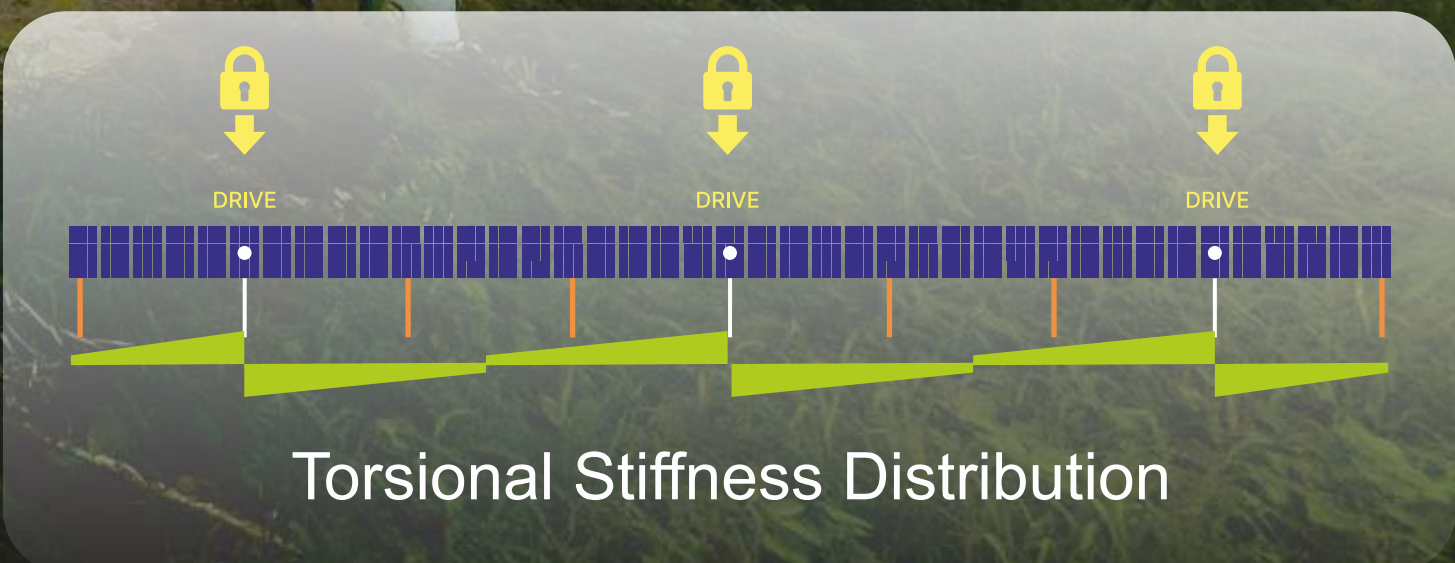
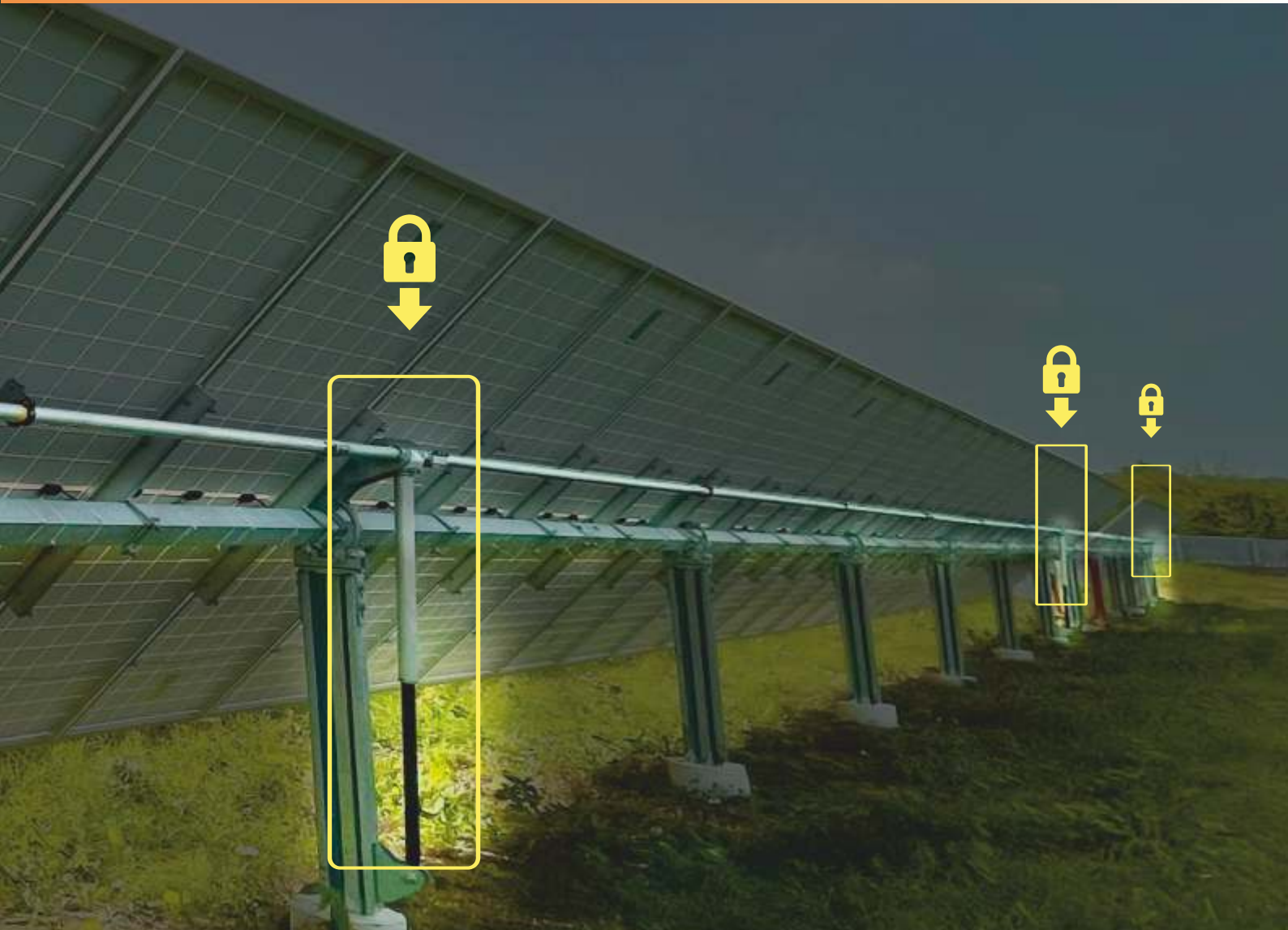
Tensile Load  
Capacity

**>40**

Years of  
Service Life



# Drive Actuators - Multi Point Drive & Torsional Lock



# Controller Electronics



AC / DC Motors



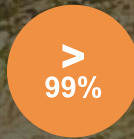
Adaptive Sun Pos. Algorithm



Easy Maintenance



LoRA / Zigbee



Uptime Guarantee



Controller Warranty

# Controller Electronics



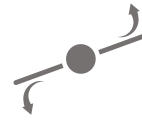
## Smart Sensors



Wind speed



Closed Loop Feedback

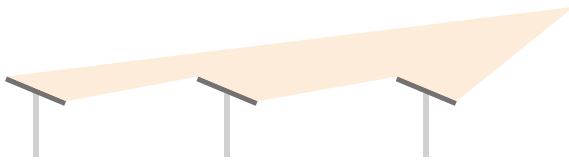


Tilt Sensor

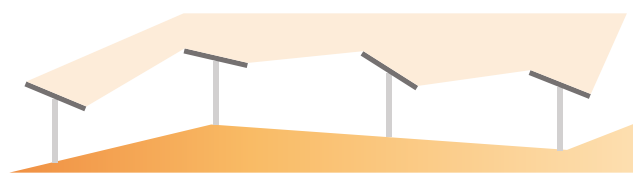


Over Drive

### True Backtracking



### AI Tracking



## Our In-house Strength

### Structure Design & Manufacturing

Design, Analysis & Manufacturing. Roll forming, Laser cutting, Stamping, Welding etc.

### Actuator / Drive Manufacturing

Design, Manufacturing, Assembly & Testing. Precision machining, Cold foaming, Quality testing.

### Rust Preventive Coating

Coating for structure & fasteners. HDG, Zn-flk, Zi-Ni, Rack & Barrel Zinc, CED coatings.

### Controller Electronics

In-house controller design, assembly and testing. Sensor evaluations & calibrations.

### Controller Algorithm

Control algorithm formulations & optimization. Site, terrain, climate optimization & elec. architecture.

### Project Management

Layout, co-ordination, onsite supervision, calibration, repair & spares, plant monitor.

>3,00,000 Sq. Ft. Area

>140 Machines

>450 Qualified Workers

# Project Management



## Layout & Design

- Layout service
- Pitch distance guidance
- Pile dpth guidance
- Efficiency guidance
- Corrosion protection



## Supply

- Transport Arrangements
- Supply co-ordination
- Just in time supply



## Installation Aid

- Installation schooling
- Post alignments
- Pre-assembly of parts
- Electronic calibration
- Pre-run of the plant



## Maintenance

- Schooling for O&M
- Preventive maintenance
- Suggestion for spares
- Repair maintenance
- Spares supply
- Update / Upgradation



# Project Management



## High Quality

Drive Actuators - Control Electronics - Workmanship of Structure

## High End

Design Specification - Control Algorithms - Service / Support

## Economical

100% Self manufacturing - High production capacity - Less no. of controller / MW

### Drive Parts Warranty

15 Years

### Corrosion Warranty

15 Years

### Controller Warranty

5 Years

### Drive Parts Maintenance

Lubrication of  
actuators & gearboxes

Every 5 Years

### Structural Warranty

15 Years

### Spare Supply Guarranty

25 Years



Quick Delivery



Easy Installation

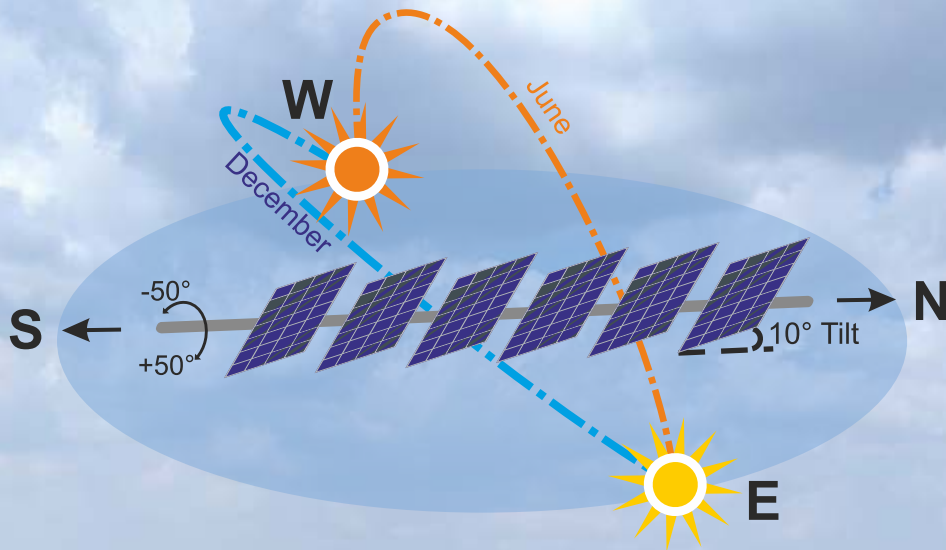


Online Support

# DayChase - 10° Tilted Tracker

## 10°-TSET

Permanently south tilted modules at 10° mounted on East-West single axis tracker brings together advantages of fix south tilt & day trackers.



Generation Gain >21%

Higher Ground requirement ~ 20%

Higher Capex: ~ 10%

# DayChase - Agri PV



HSAT - 2P

2P Trackers for optimal use of agricultural land as PV power plant & Agricultural activity. Customer requirement specific solutions by adaptation of structural design, installation height & control programs.



Safe Module Height - Electrical Safety and Theft Protection



Safe Large Machinery Passage/Pesticide Sprayer

Ground utilization > 85%

Generation Gain > 15%

Capax increase: ~ 8%





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visit  
[www.sunchaser.in](http://www.sunchaser.in)

## Factories & Offices

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# MANUFACTURING FACILITY

2.1) Precision Machining



2.2) Anti-Rust Plating



2.3) Fabrication



2.4) Roll forming & I-Beam



2.5) Hot Dip Galvanization



2.6) Assembly Unit

