

M O D U L E

M O U N T I N G

S T R U C T U R E S



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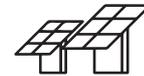
40 YEARS & 1 GW+
EXPERIENCE IN GLOBAL
ENERGY MARKET



PUBLIC LISTED
COMPANY IN INDIAN
STOCK EXCHANGES



IMS CERTIFIED
COMPANY



1 GW+ STATE-OF-THE-ART
SOLAR PV MODULE
MANUFACTURING FACILITY



1 GW+ MMS &
ELECTRICAL BOS
MANUFACTURING
FACILITY



EPC SOLUTION PROVIDER
AND INDEPENDENT
POWER PRODUCER



SOLAR ENERGY STORAGE
& SOLAR-WIND HYBRID
ENERGY STORAGE SYSTEMS

MMS & Electrical BOS - State-of-art 1 GW+ Manufacturing facility at Salem, Tamil Nadu

SWELECT offers a complete range of Electrical and Mechanical Balance of Systems (BOS) from its state-of-the-art manufacturing facility in Salem, including Module Mounting Structures (MMS), AJBs, ACDBs, and DCDBs. The plant's roll forming machines have an annual production capacity of 1 GW+ of MMS and a lifetime of over 20 years. This facility also provides power products, including servo stabilizers, isolation transformers, electrical and general-purpose switchboards, and distribution boards.



Module Mounting Structures

Complete and customised range of C Purlins, Hat Purlins and other sheet metal structures required for roof top, ground mount, as well as specialised solar power projects.



SPGS (Solar Power Generation System) Kits

Packaged solutions consisting of solar PV modules, Solar Inverters, Electrical and Mechanical BOS along with Cables, Electrical Protection systems, Data Monitoring Systems.



Electrical BOS

All range of Array Junction Boxes, String Combiner Boxes, AC & DC Decoupling circuits for various solar applications.



Innovation Hub

Development and deployment of various tools, products and solutions that address the new and emerging market requirements.



Power Products

Servo Stabilisers, Isolation Transformers, Electrical & General-purpose Switchboards & Distribution boards



C-ROLL FORMING MACHINES
HAT ROLL FORMING MACHINES



COMPUTERIZED BENDING MACHINES

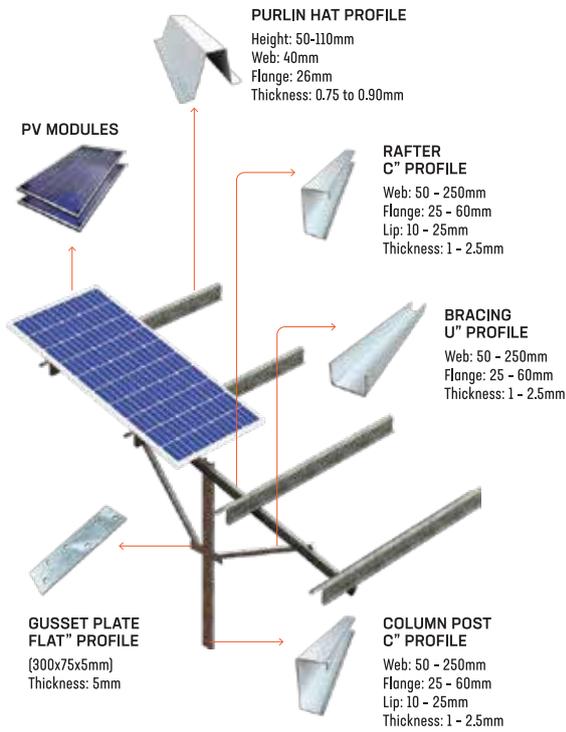


CNC TURRET PUNCH PRESS

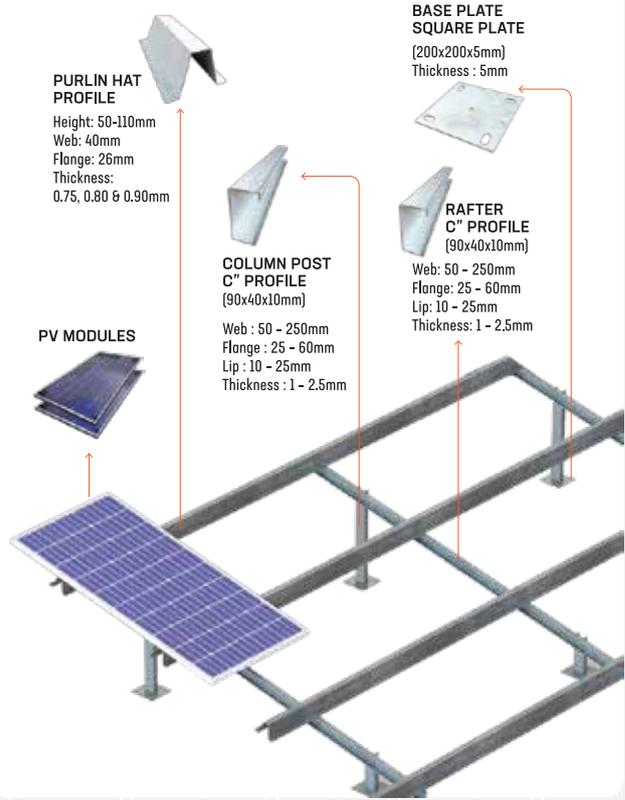
Our PV module mounting solutions have been designed to fit an extensive range of PV modules and offer optimum dimensioning, cost-effectiveness, and outstanding reliability.

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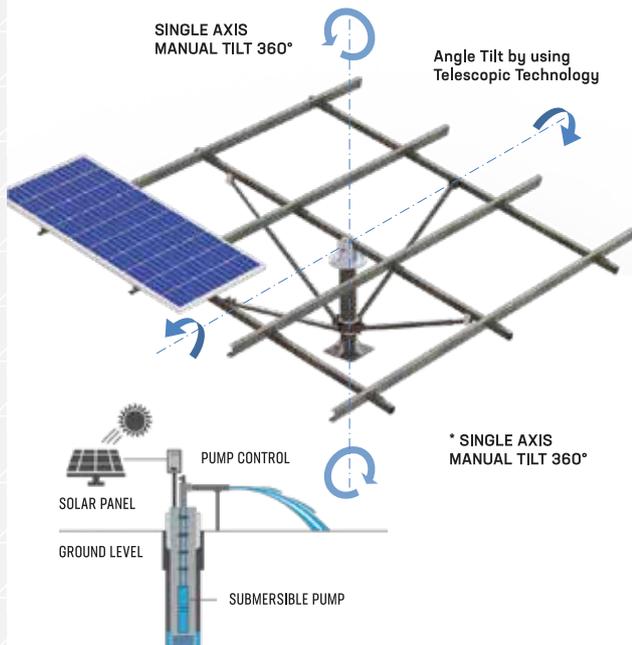
GROUND MOUNT



FLOOR MOUNT

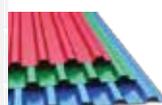
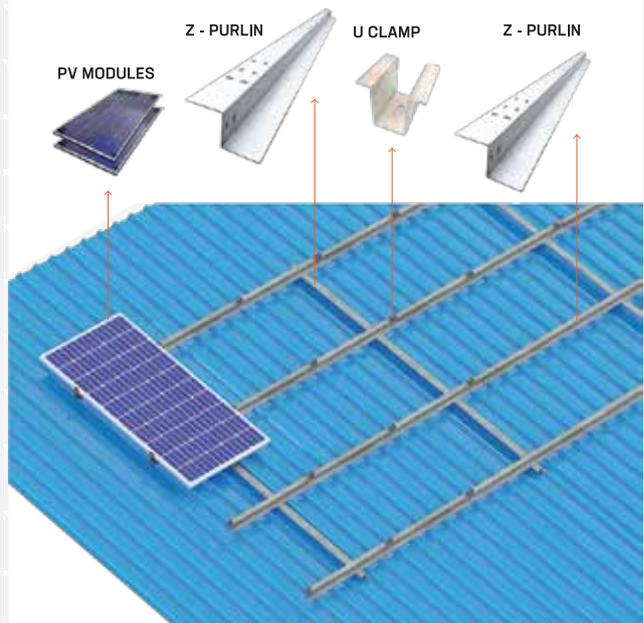


SOLAR WATER PUMP STRUCTURE



A Solar Water Pump Structure consists of a solar panel array that powers an electrical motor which in turn powers a bare or surface pump. The water is often pumped from the ground into a storage tank.

SHEET ROOF MOUNT



Aluminium rail & clamps For Trapezoidal Sheet roof structures

SALIENT FEATURES OF OUR **MMS**

1 GW Manufacturing Capacity

State-of-the-art MMS production facility located at Idappadi, Salem, Tamil Nadu.

Wide Application Range

Suitable for RCC rooftops, sheet roofs, carports, elevated structures, ground-mount systems, solar water pumps, and fully customized installations.

Corrosion-Resistant Materials

Manufactured using high-quality AZ150 steel from leading national and international brands, with options for hot-dip galvanization and ZAM for superior corrosion resistance and long-term durability.

High Structural Performance

Designed to withstand high wind loads up to 180 kmph and compliant with IS 875 Part-3 standards.

Optimized Structural Inclination

Structure tilt angles are calculated based on project latitude and longitude to ensure improved energy generation.

Flexible Purlin and Framework Options

Purlins available in C, Hat, and customized profiles with integrated earthing and cable management features.

Validated Engineering Excellence

Structural designs are validated through advanced industry software such as SOLIDWORKS Simulation and STAAD Pro for maximum safety and stability.

Long Design Life

Engineered for a service life of up to 30 years, offering a reliable and durable long-term solution.

Material Traceability

Full material traceability maintained to ensure quality consistency and reliable performance.

Compatibility with Multiple PV Technologies

Suitable for leading module types including PERC, TOPCon (M10R / G12R), and HJT technologies.

Customizable for Project Needs

MMS designs and column posts can be tailored to meet specific site conditions and project requirements, ensuring optimal installation flexibility.

For a comprehensive
Solar Solution:

SWELECT ENERGY SYSTEMS LIMITED

SWELECT HOUSE

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MMS & BOS Manufacturing

SWELECT Energy Systems Limited

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Veerappan Palayam PO, Idappadi - 637 105, Salem

Solar PV Module Manufacturing

SWELECT HHV SOLAR PHOTOVOLTAICS PRIVATE LIMITED

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