

Parabolic Trough Concentrating Solar Mirror

This parabolic trough mirror is mainly applied to trough concentrating solar power generation. The trough mirrors directly reflect sunlight onto a solar collector tube, producing high-temperature, high-pressure steam to drive turbines for electricity generation.



Product Overview

High-Efficiency Concentrating Solar Mirror

Designed specifically for trough concentrating solar power generation, these mirrors directly reflect sunlight onto solar collector tubes located at the focal line. The system facilitates high-temperature and high-pressure steam production through heat exchange, effectively driving turbines for electricity generation. The design supports mature double-circuit system technologies utilizing synthetic oil or fused salt as working mediums.

Construction

Mirror Layer Composition

- Glass Layer
- Silver Layer
- Copper Layer
- Base Coating
- Intermediate Coating
- Top Coating

Technical Specifications

Model Specifications

Model	Type	Aperture (mm)	Dimensions (mm)	Area (m ²)	Weight (kg)	Focal Length (mm)
RP1	Standard	2550	1570×1404×4	2.2	22	700
RP2	Inner	5000	1570×1399×4	2.2	22.2	1490
RP2	Outer	5000	1570×1324×4	2.1	21	1490
RP3	Inner	5774	1700×1641×4	2.8	28.7	1710
RP3	Outer	5774	1700×1501×4	2.6	26.3	1710

Applications

Primary Applications

Solar thermal electricity, Solar thermal utilization