



# Single-Axis Solar Tracker

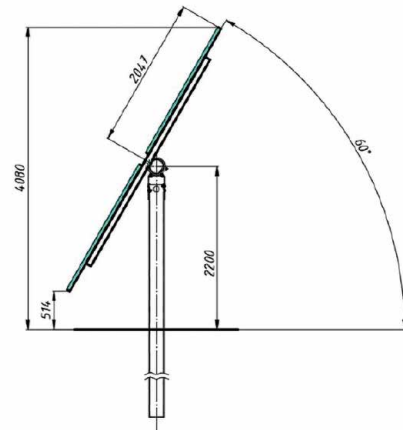
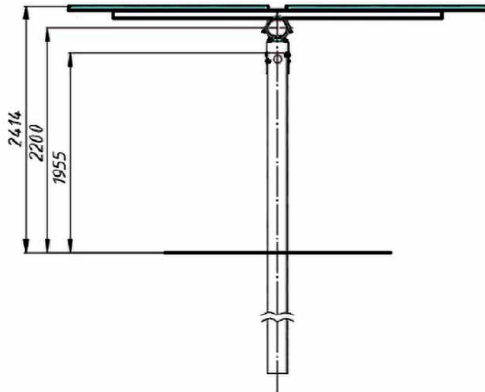
A solar tracker is a support structure with an automatic orientation mechanism for photovoltaic modules to follow the sun.

The main function is to ensure maximum energy production efficiency by constantly adjusting the panels to the optimal angle to the sun.

JSC "Zavod Prodmash" specializes in the design and production of metal structures for solar energy. Each solution is developed with consideration of the customer's specific requirements. During the design process, the conditions of the construction region of the solar power plant (SPP) are taken into account to maximize the optimization of the structure in terms of material cost and installation convenience.

Our company has developed a single-axis solar tracker—a more advanced design compared to stationary SPPs, which features automatic panel rotation along the sun's trajectory. The tracker is better adapted for use in various weather and wind conditions.





## Technical Specifications

### GENERAL PARAMETERS

<b>Tracking Type</b>	Single-axis tracker
<b>Tracking Range</b>	$\pm 60^\circ$
<b>Tracking Accuracy</b>	$\leq 2^\circ$
<b>Drive Type</b>	Geared Motor/ Linear Actuator
<b>Foundation Options</b>	Driven Piles / Concrete / Concrete Piles
<b>Terrain Adaptation</b>	Slope NS up to 20%
<b>Construction Material</b>	Hot-dip galvanized steel / galvanized steel sheet

### CONTROLLER

<b>Power Source</b>	Solar battery power, power from photovoltaic modules from the string/autonomous; from AC power supply unit
<b>Device Communication</b>	Wireless Lora/Zigbee
<b>Power Consumption</b>	0.04 kWh/day
<b>Standard Design Wind Speed</b>	[70 m/s] according to ASCE7-10, higher wind load is possible
<b>Operating Temperature Range</b>	From $-20^\circ\text{C}$ to $60^\circ\text{C}$ (from $-30^\circ\text{C}$ to $60^\circ\text{C}$ optionally)

Album



Questionnaire

