Trackers



rbt _{solar}	Product catalog					rbtsolar.com
Trackers (T)						÷
ТҮРЕ	CARD NO.	CONSTRUCION TYPE	MODULE DIRECTION	MODULE LAYOUT	NUMBER OF PILES	PAGE
Piled (P)	01	Single axis (1AT)	East-west (EW)	Vertical (V)	1 (1P)	3
Find a repre	sentative \rightarrow	Legal note \rightarrow				

rbt [°] solar	Product catalog	rbtsolar.com
Trackers (T)		(<)

01	Single axis tracke	T-P-1AT-EW/V/1P		
TYPE	CONSTRUCTION	MODULE DIRECTION	MODULE LAYOUT	NUMBER OF PILES
Piled (P)	Single axis (1AT)	East-west (EW)	Vertical (V)	

Designed to follow the sun



SEE ONLINE \rightarrow

rbtsolar Product catalog

Trackers (T)

rbtsolar.com

	-)
/	
\leftarrow	

DESCRIPTION

MECHANICS:

- → Strength verification of structure parameters carried out by a specialist laboratory.
- → Various tracker lengths available to suit specific number of strings, and the selection of number and length of the trackers is individually carried out for each project.
- → Design assumptions implemented according to the DFA methodology (Designed for Assembly).
- → Split adaptive bearings adjust its position to variable thermal or geometric deformations of the supporting beam.
- → The use of an intermediate purlin to increase the central support surface of the load-bearing purlin connected to the PV panel.
- → Drive leg is in the same axis as the support columns (the length of the support columns is selected individually, depending on the geographical and geological conditions of the project).
- \rightarrow Standardization of structural elements.
- \rightarrow Optimization of screw connections.

CONTROLS:

- → Device is using an advanced astronomical algorithm to control the position of the panels in relation to the current position of the sun.
- \rightarrow Intuitive installation and startup configuration system.
- → Configurable alarm and notification management.
- \rightarrow Backward algorithm that prevents and minimizes row shading.
- \rightarrow Zigbee[®] wireless communication system, or wired RS-485.
- → Remote monitoring and preventive maintenance to reduce installation downtime (easy integration with SCADA system in the Modbus TCP/IP standard).
- → Possibility of individual configuration of the tracker operation depending on the order of rows and terrain slope.
- → Safety system against excessive wind speed (safe positioning of PV panels).
- → Possibility of using various service modes related to the position of the panels, e.g. snow removal, cleaning.
- \rightarrow Possibility to use a snow level detector.
- → Possibility of current and historical verification of installation parameters via cloud data storage.

CHARACTERISTICS

T-P-1AT-EW/V/1P

Construction base	Ground
Method of mounting	Piled (P)
Type of construction	Tracker (T), single axis (1A)
Module orientation	East-west (EW)
Module layout	Vertical (V)
PV module length (MAX)	2300
Type of tracking	Automatic, horizontal ¹
Tracking algorithm	Direct astronomical patterns; Tracking precision = 2,0°2
Rotation range	±60°
Ground cover factor	Any configuration determined by the customer (from 32% to 50%)
PV module compatibility	Standard/Bifacial
Drive system	1 independent horizontal rotation drive per 1 tracker
Modules per tracker	max 60 (individual configuration possible)
Power supply	dedicated photovoltaic modules + 230V AC 50/60 Hz ³ battery
Communication	Zigbee® wireless (or wired RS-485) communication system
Monitoring	Modbus TCP/IP, possibity of integration with SCADA system
Adaptation to the slope of terrain	up to 6% in N-S direction
Wind resistance	1) Up to 80 km/h in any given position
	2) Up to 140 km/h in horizontal or any position configured as neutral
Method of distribution	Individual order

¹Recommended alignment of the tracker axis along the north-south direction.
²Possible individual adjustment of traction to the topography of the terrain.
³Possibility of UPS usage.

rbtisolar Product catalog

rbtsolar.com

 \leftarrow

Trackers (T)



Central drive 2. Secondary beam Central IPE 160 drive column 3. 4. Beam connector TCU controller 5. 6. Main beam Damper upper arm 8. Main beam bearing 9. Damper low joint 10. Main column 11 **12.** Purlin runner 13. Purlin joint 14. Damper



Assembly method:

Screw connections. Designed for fast and easy installation. No on-site welding or drilling required. Materials: Construction graded steel.



Maintenance-free bearings. Inspection and maintenance of the rotary drive every 2 years.

Technical inspections according to individual arrangements.

Our representatives



REGION >	CONTACT >			
Zachodniopomorskie, Śląskie, Opolskie	Sebastian Jędraszek +48 724 651 405 sebastian.jedraszek@rbtsolar.com			
Mazowieckie, Łódzkie, Podlaskie	Piotr Belowski +48 724 270 337 piotr.belowski@rbtsolar.com			
Pomorskie, Warmińsko-Mazurskie, Kujawsko-Pomorskie	Tomasz Steindel +48 724 445 300 tomasz.steindel@rbtsolar.com			
Małopolskie, Podkarpackie, Lubelskie, Świętokrzyskie	Radosław Mazurek +48 885 582 057 radoslaw.mazurek@rbtsolar.com			
Wielkopolskie, Dolnośląskie, Lubuskie	Julian Nowak +48 725 454 239 julian.nowak@rbtsolar.com			
Lithuania, Latvia, Estonia	Andrejus Krutko +370 684 19934 andrejus.krutko@rbtsolar.com			
Other countries	Dana Kushel +48 724 652 204 dana.kushel@rbtsolar.com			
	CONTACT	PRODUCTION FACILITY		
FDC solar	+48 724 625 200	ul. A. Struga 14 95-100 Zgierz		
we are part of GRUPA/ rexbud	biuro@rbtsolar.com rbtsolar.com	Poland NIP 732 221 39 23		

The information contained in this document is of an illustrative nature, primarily specifying the technical possibilities according to the presented assumptions, and does not constitute a commercial offer within the meaning of Article 66 para. 1 of the Polish Civil Code. We reserve the right to make technical changes related to product development, as well as changes in product prices and their availability. Please check the rbtsolar.com website in the Sales Department, or with the Sales Representatives of RBT Solar Sp. z o.o. to verify whether the product parameters remain current at the time of placing an order. Detailed information about the technical parameters of individual products can be found in separate product sheets and on the rbtsolar.com website.

Back to catalog \leftarrow