

High Precision Tracking



HPT is the high-precision tracking technology aimed at photovoltaic and solar-thermal installations that delivers maximized energy harvesting throughout the whole day, including early morning and late evening hours, when the sun is very low at the horizon.

From single-axis and dual-axis tracking systems, to concentration and high-concentration photovoltaic, to solar thermal systems, HPT grants outperforming tracking accuracy in any working conditions. The system is engineered to withstand even severe weather events, and to accept high land irregularities, seamlessly following topography without the need for land grading.

HPT is compatible with any panel and fully customizable on specific application needs and user cases.

World-class tracking performance

- ✓ Extremely high pointing accuracy (0.01°)
- ✓ Engineered to maximize PR: production increase observed in operational conditions +3%
- ✓ Auto-aligning and self-configuring: each tracker autonomously sets the parameters that maximize energy harvesting on a real time basis also in the event of ground movements
- ✓ Energy saving standby option (sleep mode) in cloudy sky conditions
- ✓ Pre-emptive grading not required: can be installed on hills, slopes and uneven grounds
- ✓ Fully customizable
- ✓ Easy to install
- ✓ Low-power consuming

The best Performance Ratio commercially available

Performances and profitability of tracker-mounted photovoltaic and solar-thermal installations heavily depend on how accurately modules, cells and concentrators are pointed to the sun, hence the tracking technology adopted is crucial to deliver maximized energy and profit yield.

As certified by independent third parties, HPT exceeds state-of-the-art systems delivering high-precision, customizable tracking mechanics, control intelligence, and components that outperform competing systems in all application cases.

Applications

- Single axis PV
- Dual-axis PV
- Concentration PV (CPV)
- High-Concentration PV (HCPV)
- Solar-thermal
- Concentration solar thermal

HPT has been tested by

- Enel Ingegneria & Ricerca

HPT is a **sunto** patented technology.