

High-speed installation solution for photovoltaic panels



Overview

Designed for residential, commercial, and industrial rooftops, this self-driving photovoltaic panel laying robot combines advanced robotics, AI algorithms, and real-time sensor data to automate panel transportation, alignment, and placement. Maximo deploys solar panels in half the time at half the cost.

Automated: A high-speed robotic arm performs the precise panel. The SnapNrack TopSpeed® Universal Mounting System (formerly RL Universal) is engineered for the fastest, most intuitive roof installation. With just four basic components—none larger than a PV module—it simplifies material management and ensures a smooth install. The clamp clicks effortlessly into place: no screws, no tools, no complications. Thanks to thicker materials and durable components, you're assured of. Support CleanTechnica's work through a Substack subscription or on Stripe.

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[AES' Maximo: AI Solar Robot for Clean Energy](#)

Maximo is the only construction automation solution that provides the full end-to-end mechanical installation of solar modules directly in the field. The solar robot results in faster installation and ...

[TopSpeed\(TM\) Universal Roof Mount System](#)

The SnapNrack TopSpeed® Universal Mounting System (formerly RL Universal) is engineered for the fastest, most intuitive roof installation. With just four basic components--none larger than a PV ...



12V 10AH



[Rooftop Photovoltaic Panel Installation Robot](#)

Revolutionize your energy efficiency with our Rooftop Photovoltaic Panel Installation Robot. This innovative machine ensures precise and swift installations, reducing labor costs and installation time ...

[Robots Take Over Solar Panel Installation: The Future of Renewable](#)

In February 2025, Rosendin Electric, a leading electrical contractor, announced a groundbreaking partnership with ULC Technologies to deploy advanced robotic systems for large-scale solar panel ...



[TopSpeed® Original Roof Mount System](#)

SnapNrack's TopSpeed® Original Mounting System moves solar installation work to the ground, reducing roof time, boosting safety, and streamlining installs with pre-attached mounts and simple, ...



[Robots install PV at high speed](#)

Rosendin has announced a breakthrough in solar construction technology with a new autonomous robotic solution for photovoltaic (PV) solar module installation.



[Innovating Toward Fast and Reliable Solar Panel Installation](#)

H.B. Fuller's solar innovations simplify installation, saving time for roof installers with integrated flashing and lightweight adhesives.



[ULC Technologies solar robots have potential to install 600 panels in](#)

"The Panel Setting Robot is a construction-grade tracked robotic platform with an integrated robotic arm to perform semi-autonomous installation of solar panels in collaboration with ...



[ValkPro+ Max NextGen for the largest panels on flat roofs](#)

With the unique screwless click-in system of the ValkPro+ Max NextGen, you can install large solar panels faster and more easily than before. The clamp clicks effortlessly into place: no screws, no ...



[AI-Powered Robots Install Solar Panels Faster Than Any Humans](#)

Robots from Luminous and Leaping are installing solar panels in large solar installations faster and cheaper than human workers.



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