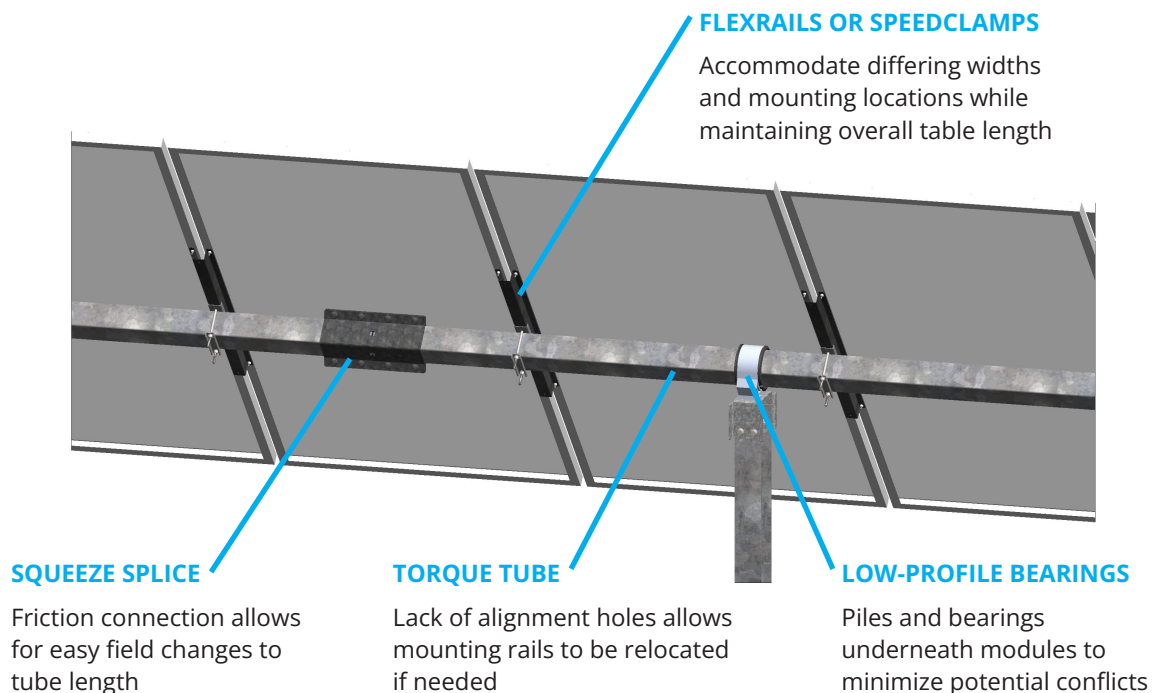


FLEXRAIL™ FOR GENIUS TRACKER™

FLEXIBLE MOUNTING SYSTEM ALLOWS MULTIPLE MODULES ON THE SAME TRACKER DESIGN

Genius Tracker Flexible Design



Same Tracker Design – Huge Range of Modules

Genius Tracker FlexRails can maintain the same table design across multiple different modules. With dimensional tolerances of ± 10 mm built into the design, FlexRails absorb the differences in varying dimensions and mounting hole locations across multiple modules. They enable tracker design, manufacturing, and installation before final module selection. Using FlexRails can increase flexibility for module pricing, availability, and supply chain disruptions, allowing buyers to purchase tracker material as safe harbor before final module selection.

Proven on Projects Worldwide

Genius Tracker FlexRails have been used on projects across the United States and India, totaling over 1 GW of installed capacity. These projects covered a number of scenarios where FlexRails can be advantageous, from late-stage module changes to imprecise module manufacturing and installation tolerances.

Case Study: Designing for Multiple Modules

The developer for a project in Florida needs to purchase tracker material for safe harbor, but can't yet commit to a specific module. They are considering between modules with the characteristics below. All modules utilize the same string size and strings per table.

Module Manufacturer	Vendor A	Vendor B	Vendor C	Vendor D
Maximum Length (mm)	2266	2384	2264	2384
Module Width (mm)	1134	1114	1134	1133
Module Slot Spacing Length (mm)	400/990/1400	400/1100/1400	400/1100/1400	400/790/1400
Mounting Slot Spacing Width (mm)	1084	1066	1084	1091

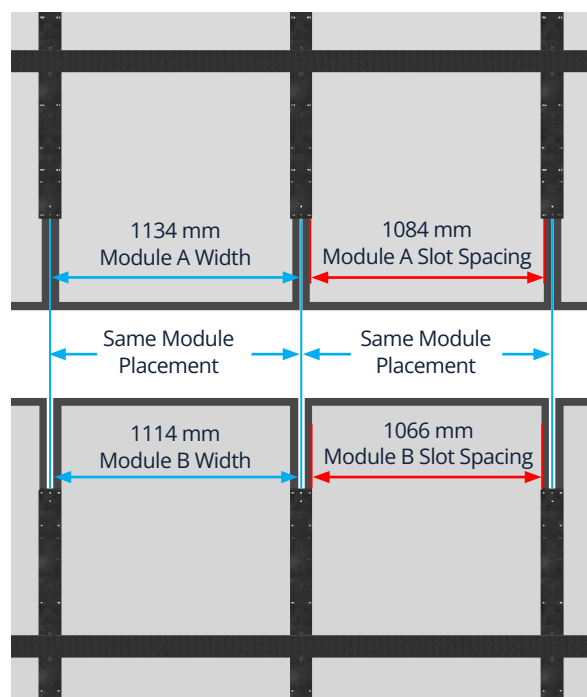
FlexRails can be used to eliminate any difference in module spacing, mounting rail location, and table length.

To account for the variety of mounting slot spacings in the length direction, FlexRails have slots at 400 mm, 790 mm, 990 mm, 1100 mm, and 1400 mm in high wind loading sections of the site. In low wind loading sections of the site, the FlexRails use the 400 mm slots available on all modules. When the final module arrives on site, the installer will bolt through whichever slots align between the rails and the module.

To account for the variety of mounting slot spacings in the width direction, FlexRails have large slots running in the width direction that can account for +/-10 mm of variation. As shown in the diagram to the right, these maintain the module on-center spacing, and thus overall table length, despite the relative movement of the mounting slots.

All structural calculations are performed using the specifications of the Vendor D module because it is the largest and thus results in the highest loading.

Using the FlexRail system, Genius Tracker can accommodate any module from this list, among many others, without any field remediation or additional installation cost.



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