

Ground Screws



We thrive in tough conditions, making challenging sites more predictable, and turning unusable land into valuable assets. Our ground screw foundations reduce upfront construction costs, accelerate project timelines, and eliminate subsurface risks. With over 1 million ground screws installed in all soil conditions, you can trust us to deliver a successful project each and every time.

Benefits

- Our ground screws are made with top-quality materials and finished with a superior corrosion resistant, hot-dip galvanized coating for long-lasting foundations.
- The spiral thread design on our ground screw minimizes embedment depth, which increases installation efficiency resulting in significant reduced costs.
- The key to a quality foundation is accuracy and plumbness. The patented, forged tip allows the screw to be accurately installed.
- Our fleet of advanced ground screw install machines, rock drills, survey and testing equipment can tackle the biggest solar ground mount projects.
- An experienced installation team that knows how to mitigate challenges and meet deadlines.



Solar Ground Screw

Specifications

Material / Finish	Steel, Hot dip galvanized (min 2.8 mils thick) / ASTM A123 / ISO 1461
Nominal length	114"
Outside diameter	3"
Inside diameter	2.7"
Wall thickness	0.145"
Depth	76"
Weight	43 lbs
Warranty	20-year limited warranty
Design capacity	Max down force: 12,776 / Max up force: 9,464 / Max lateral force: 2,588 / Max moment: 2,499 lbs - ft

* The design capacities shown were derived from extensive testing in medium dense soils and include a safety factor of 1.5. The tests were performed to replicate typical loading conditions.

We recommend that a geotechnical soil composition analysis and an on-site ground screw load test be performed on all projects to determine the most economical screw selection for large-scale projects. The quantity and size of ground screws should be designed to support the structure and all applicable loads, including wind, snow, and other loads. Bending moments in soil were calculated from the application point of the horizontal force when installed with approximately 20 inches of shank exposed.