

CORE

FIXED TILT GROUND-MOUNT SOLAR RACKING

Leading solution for large-scale fixed ground-mount solar installations, 1 MW and greater. CORE has fewer components to assemble, built-in wire management, integrated bonding, and is designed to stand the test of time.

KEY PRODUCT BENEFITS

Reduced civil costs, faster installation time through high degree of adjustability

- Greater assembly tolerances
- Top down or direct bolt clamping options

Site-specific value design engineering

- We can customize our solutions based on foundation type, string size, and topographic site conditions



Optimized for bifacial and thin film solar panels



Installation services and construction support

- Polar Racking offers foundation installation and mechanical assembly services
- Helps ensure a smooth and fast construction process
- Higher density, longer rows and minimal gaps

KEY FEATURES

Modular design

- Accommodates different modules and table sizes

Built-in wire management and UL classified integrated bonding

- Reduces cost and installation time with all-in-one solution

Highly Adjustable

- Accommodates varying ground and topographic conditions with generous north-south and east-west installation tolerances

Certifications & Third-Party Testing

Polar Racking's ground mount products have been tested as per UL 2703 standards for the USA and Canada. All products have been wind tunnel tested. Individual component finite element analysis and mechanical load testing have been completed by third-party labs, which are available upon request. Reduced civil costs, faster installation time through high degree of adjustability.



GENERAL AND MECHANICAL

SYSTEM TYPE	Fixed ground mount
MODULE CONFIGURATION	2 portrait or 4 landscape 3 portrait or 6 landscape
TILT	5-60°
WIND SPEED DESIGN	Up to 195 mph (240 kmh) wind tunnel tested
CODES AND STANDARDS	ASCE/SE17-16, IBC 2012, NBC, OBC 2012, UL 467, UL 2703 Bonding and Grounding
BONDING AND GROUNDING	Integrated bonding and grounding
MODULE ATTACHMENT	UL-listed top clamps and direct bolts, compatible with all module types
SLOPE ADJUSTABILITY	Up to 40°
WIRE MANAGEMENT	Integrated wire management
GALVANIZATION	Galvanized steel G90-G245
CONNECTION PLATES & MATERIAL COATING	Hot dip galvanized
HARDWARE MATERIAL & COATING	Magni 565 or stainless steel
FOUNDATIONS	I-Beam, Round piles, Helical, Ground-screw, and Ballast design
WARRANTY	20-year warranty

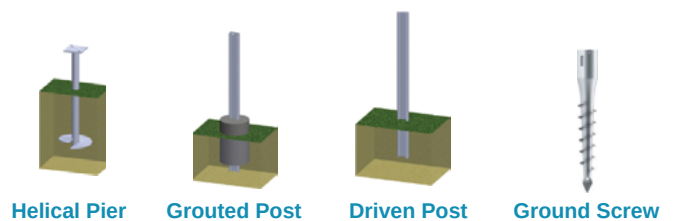
SERVICES

INSTALLATION	Available upon request
GEOTECHNICAL AND FOUNDATION DESIGN	Geotechnical investigation, pull testing, production testing, QC testing
DESIGN AND ENGINEERING	Complimentary site layouts Sealed and stamped structural engineering drawings (Canada, USA, and Caribbean)
CONSTRUCTION SUPPORT	Complimentary on-site installation training and commission

COMPATIBLE WITH ALL FOUNDATION TYPES

The CORE can be mounted securely to the ground with a variety of foundation options. Both mono and dual-post racks can accommodate these options for different ground and soil conditions.

Polar also offers a wide variety of ballast options including pour-on-site, pre-cast, and geo-ballast.



This document does not create any express warranty by Polar Racking or about its products or services. Polar Racking's sole warranty is contained in the written product manual for each product. The end-user documentation shipped with Polar Racking's products constitutes the sole specifications referred to in the product warranty. The customer is solely responsible for verifying the suitability of Polar Racking's product for each use. Subject to change without notice. Last updated in September 2023.