VERQUIN ADVANTAGE

Geodetic-Grade Stability
Monument-integrated design with deep foundation options (DDBM). Engineered for 20-40 year reflector life and 100-year monument stability.

Traceable Geometry & Alignment
Repeatable azimuth and tilt positioning with indexed alignment. Machined datum surfaces and survey reference points support precise, verifiable orientation. Witness marks and tamper-evident features ensure alignment integrity over time.

Survey-Native Architecture
Built for optional direct integration with GNSS, RTK, and total station workflows. Delivered with a certificate documenting position and orientation.

Controlled Radar Signature
High orthogonality precision and surface flatness control, with minimized parasitic scattering from support structures.

Range-Ready Engineering
Designed for deployment and sustainment, with integrated lift points, modular components, transport protection, and corrosion-resistant materials (304 SS / 316 SS / 5052 AL).

VERQUIN
GEODETIC ENGINEERING

ABOUT VERQUIN

VerQuin Geodetic Engineering develops and maintains geodetic-grade ground reference systems for long-term positioning and validation. By integrating monumentation, survey control, and continuous quality monitoring, VerQuin provides stable, traceable reference points with known performance over decades. Our systems are designed to serve as reference standards and deliver the level of certainty required for high-consequence applications.

Trusted by:

BAE SYSTEMS

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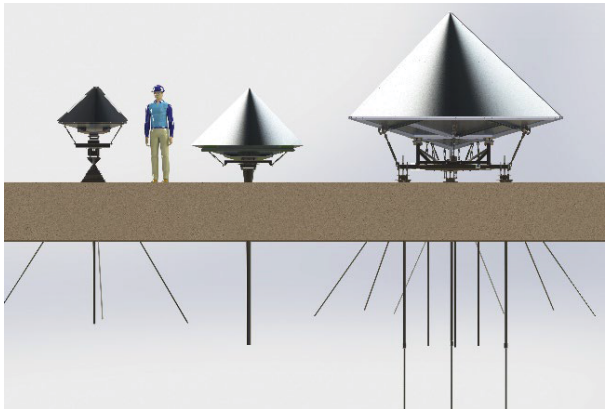


VERQUIN
GEODETIC ENGINEERING

INTRODUCING P-GRT

Passive Geodetic Radar Target

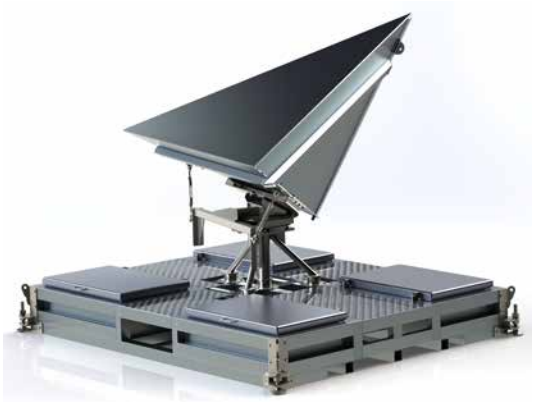
Certified position, orientation, and stability — the difference between a truth standard and just a reflector.

GROUND TRUTH — READY TO DEPLOY, BUILT TO LAST

Geodetically referenced passive radar targets underpin SAR calibration, geolocation validation, and long-term range instrumentation. While corner reflectors are commercially available, achieving a stable, traceable reference point has remained a program-level effort — requiring integrated design, survey control, and sustained maintenance.

VerQuin brings those elements together in a standardized commercial product. Reflector, monument, survey, certification, and long-term support — unified in a single offering, with documented performance specifications and traceable geodetic control.

Whether extending an existing capability or establishing it for the first time, VerQuin is ready to deploy.



APPLICATIONS

- Persistent SAR calibration infrastructure
- Geolocation accuracy verification
- Change detection validation
- Targeting system truth standards
- Long-term test range instrumentation

VERQUIN
GEODETIC ENGINEERING

PRODUCT LINE

P-GRT 2.8
Flagship
2.8m trihedral, L-Band optimized, multiband capable. Permanent or semi-permanent deployable with three levels of reinforcement and windload rating (50+/100+/217+ mph).

- SAR calibration and validation
- Precision geolocation truthing
- Weapons system verification
- ISR performance benchmarking
- 60 (GRT 2.8) and 360 (GRT 1.5) degree manual rotation

P-GRT 1.5
Hybrid Class
1.5m trihedral, X-Band optimized, multiband capable. Permanent or semi-permanent deployment on deep-drilled monument foundations. High RCS, DLR-class performance tier.

- SAR calibration and validation
- Precision geolocation truthing
- Weapons system verification
- ISR performance benchmarking
- 60 (GRT 2.8) and 360 (GRT 1.5) degree manual rotation

P-GRT 0.9
Compact - Tactical Class
0.9m trihedral, C-Band optimized. Rapid deployment and redeployment. Ruggedized for field conditions, reduced logistics footprint.

- Dense calibration arrays
- Training range instrumentation
- Mobile Test environments
- Mixed-unit multi-scale deployments
- 360 degree manual rotation

NEXT-GENERATION CAPABILITIES

Enhanced Alignment & Positioning
Indexed detent systems, fine-adjustment controls, and integrated tilt/azimuth interfaces for faster, repeatable setup.

Radar Signature Optimization
Reduced structural scattering and radar-quiet treatments for cleaner, more predictable returns.

Flexible Deployment Configurations
Permanent monument-integrated systems and transportable, skid-mounted options for varied operational environments.

Expanded Survey Integration
Built-in fiducials, co-located GNSS options, and standardized re-survey procedures for sustained accuracy.

Operational Hardening
Field-replaceable components, improved transport protection, and environmental sealing for long-term reliability.