



PROD - Portable Remotely Operated Drill

Delivering efficient and precise offshore geotechnical data



acteon.com

Quality data. Safely delivered.

PROD is a fully self-contained seabed drilling and geotechnical testing system designed for rapid deployment in any environment. Operating in water depths up to 4,000 m and drilling to 150 m below the seabed, PROD delivers high-quality geotechnical data with a proven global track record in shallow to ultra-deep water, complex geologies and steep slopes.

Engineered for rapid and cost-effective transport and deployment, PROD eliminates the need for drillships and delivers high-value data for geotechnical and geohazard analyses, cable and pipeline routes, and bottom-founded structures.

Applications

- Offshore renewables
- Oil and gas
- Scientific exploration
- Civil and infrastructure
- Mining

Capabilities include

- Cone penetrometer testing
- Ball penetrometer testing
- Seismic testing
- Rock coring
- Sediment sampling

Higher efficiency

- Operates directly on the seabed significantly reducing time to deploy drill tools.
- Dynamically switches between drilling and testing tools in a single deployment, enabling continuous data collection without recovering the drill module.
- Conducts multiple borings in a single deployment, offering a lower cost per metre of data compared to other acquisition methods, with minimal disruption.
- Provides reliable data, thanks to a borehole depth accuracy of 25 mm.

Superior sample quality

Sediment cores are taken using UTEC's patented hydraulically tethered piston core (HTPC), which exploits ambient hydrostatic pressures to deliver optimal sample quality and recovery outcomes.

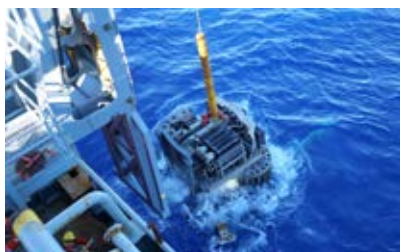
- **Enhanced performance in challenging conditions:** maximum thrust capacity of 10 t.
- **Larger tool load:** casing to approximately 100 m below the seabed when sampling and to 150 m below the seabed for cone penetration tests (CPTs).

Improved safety and environmental footprint

- **Reduces the risk of incidents:** Deployed via an umbilical and controlled remotely, PROD minimises deck handling and human interaction with moving equipment.
- **Limits the environmental footprint compared to conventional geotechnical drilling methods:** minimal noise, reduced disturbance to marine ecosystems, biodegradable hydraulic fluids and environmentally considerate drilling fluids.

Excellence in extreme environments

- **Sloping terrain:** Operates on seabed slopes up to 30° with three independently controlled legs and precision sensors to maintain verticality.
- **Very soft sediments:** Large-area feet prevent seabed penetration, enabling sampling from true mudline even at 1-1.5 kPa shear strengths.
- **Superior weather operability:** Once on the seabed, operations continue independently of surface weather conditions that would prevent a drillship from operating.
- **Deepwater advantage:** Umbilical deployment ensures high productivity in up to 4,000 m water depth.
- **Exclusion zones:** Can operate near platforms while the vessel stays outside restricted areas, enabling the safe acquisition of geotechnical data.



With expert support, proven efficiency, superior data quality and demonstrated capabilities in challenging environments, PROD offers significant advantages over other site investigation technologies.

Leveraging the high-quality data generated by PROD, our team of experienced geotechnical engineers delivers a comprehensive solution. From site investigation planning, data gathering, and sample testing to data integration, interpretation, and foundation design, we provide end-to-end support for your projects.

90⁺

projects
globally

25⁺

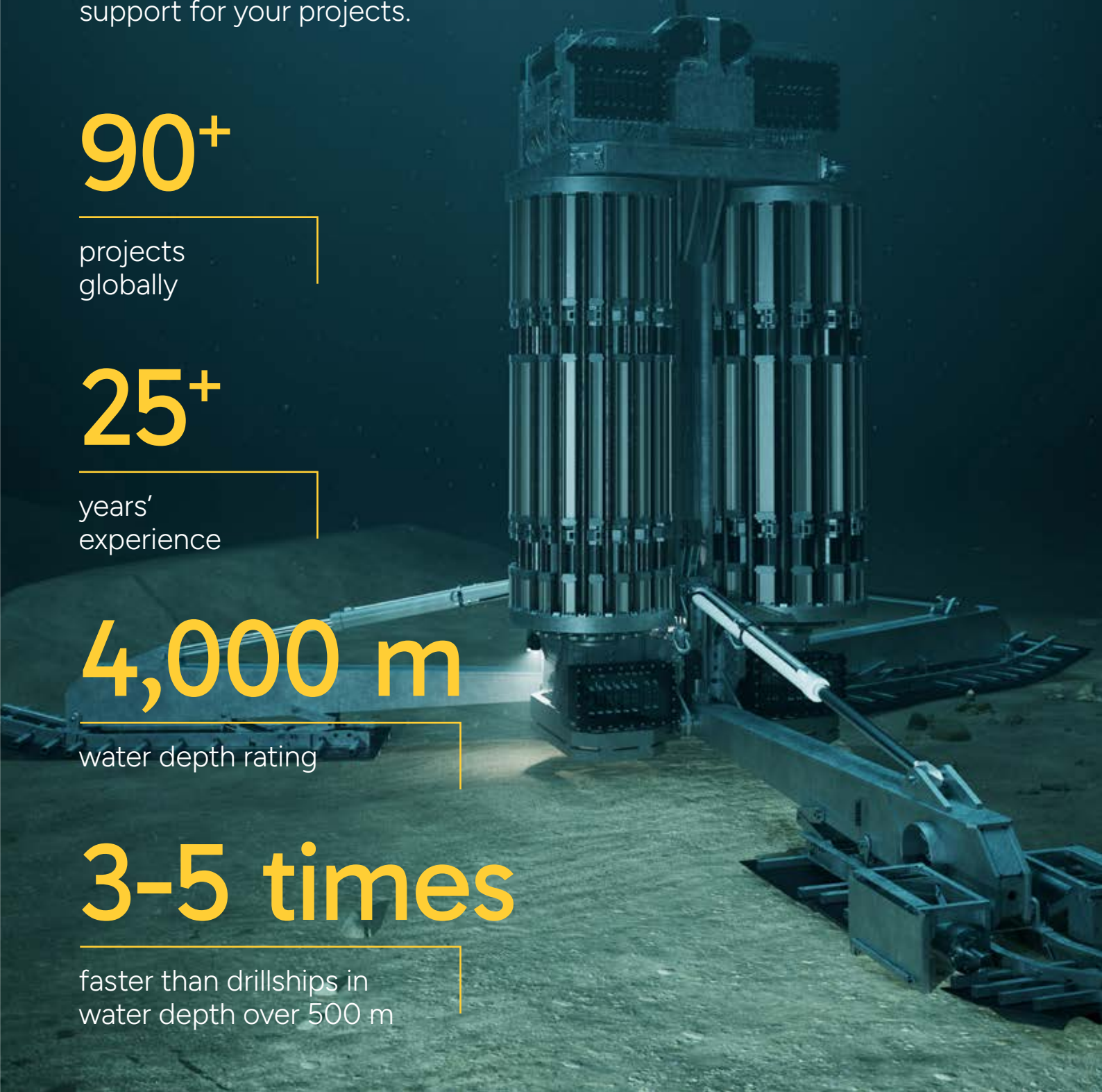
years'
experience


4,000 m

water depth rating

3-5 times

faster than drillships in
water depth over 500 m





Ask us how we can help optimise
your next offshore project!

Contact us at info@acteon.com



acteon.com