POSEIDON'S FORGE

DarkWake™ AUV

ADAPTABLE AUTONOMY. OPERATIONAL AGILITY AT SCALE.



ENABLING NEXT-GENERATION AUTONOMOUS UNDERSEA OPERATIONS

Reshaping the autonomous underwater vehicle (AUV) industry with flexible, build-to-suit solutions that evolve alongside mission objectives.

Modular, Mission-Configurable Architecture

Rapid-swap payloads and upgradeable subsystems tailored to defense, commercial, and scientific objectives.

Integrated Autonomy Ecosystem

AI-driven mission planning, vehicle control, simulation validation, and fleet-wide data integration.

Multi-Vehicle Mesh Networking

Seamless acoustic, RF, cellular, and satellite connectivity enabling collaborative autonomous operations.

Reduced Lifecycle Cost & Complexity

Plug-and-play upgrades, simplified logistics, and future-ready design minimize operational overhead.

STANDARD CORE MULTI-VEHICLE SOFTWARE

- **Forge Helios Autonomy** – Advanced autonomy, mission optimization and control system
- **Forge Orion Planner** – Objective-based mission planning and C2 software
- **Forge M4P Comms** – Middleware/comms layer enabling multi-vehicle mesh networking
- **Forge Base Cloud** – Central mission data hub and analytics platform
- **Additional Tools** – DarkWake™ Optimizer, Intelligent Universal API

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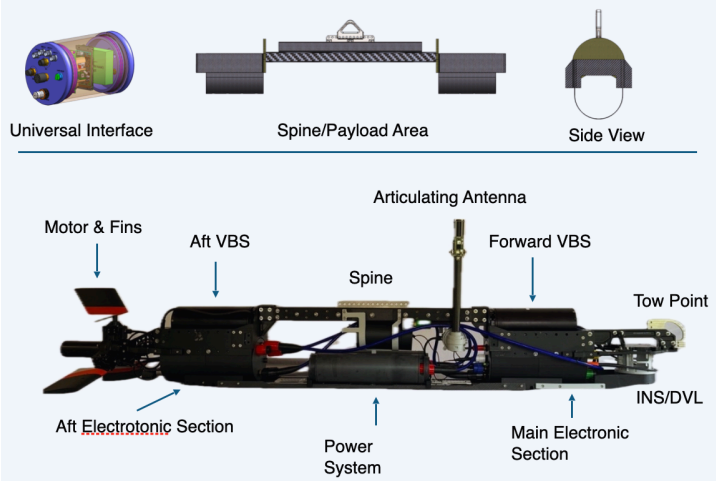
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BASE DARKWAKE™ FEATURES

Depth Rating – 100m-300m depth (deeper options available)
Variable Ballast - Smart ballast with orientation control
Body - Convertible spine with shape-optimized carbon fiber shell
Design - Flooded architecture with swappable universal housings for rapid servicing
Endurance - 12+ hours with 1.2 - 6 kWhr
Operations – Bottom park, drift mode, 2.5-4.5 kts survey speeds
M4P Multi-Modal Comms – WiFi, Iridium (SBD), LTE and acoustic
Articulating Antenna Mast – LTE/GPS/WiFi with navigation LEDs (cameras optional)
Navigation – GPS (RTK support), IMU, DVL, INS
Pressure Sensor – Standard resolution depth configuration (optional high resolution models)
Energy – Standard 18650 cells or solid-state lithium-ion options with PSFi safety BMS electronics
Onboard Electronics – Jetson Orin nano (ROS embedded), 2TB SSD
Propulsion - ECM PCB Stator motor



ADDITIONAL DARKWAKE™ CAPABILITIES

Universal Interface - Custom payload integration
Water Quality Sensor – Conductivity, temperature, sound speed (Others Available Upon Request)
Side Scan Sonar – 540/1600 kHz, 540/850 kHz, 850/1600 kHz and other options
Topside Comms Kit & Global Data Plans
Fleet Data Cloud Services
Support Equipment – Cases, transport cart, spares kit, pingers, additional batteries, rugged operator console

Stay Innovative. Stay Curious.
Stay in Touch.

www.poseidonsforge.com

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