



DELIVERS

# STEALTHDOCK

THE FUTURE OF NAVAL MAGNETIC TREATMENT

Multi-Class, Multi-Compatible, Magnetic Silencing System



ENGINEERED IN AUSTRALIA, READY FOR THE WORLD

# REVOLUTIONISING NAVAL STEALTH

The **StealthDock** system represents a paradigm shift in naval magnetic signature management. Our breakthrough technology transforms what was once a weeks-long maintenance evolution into a precision operation completed in hours—all while vessels remain fully operational, fully armed, and fully crewed.

## The Challenge We Solve

Current magnetic treatment facilities worldwide are outdated, inefficient, and operationally limiting:

- ⊗ Up to 12-day treatment cycles
- ⊗ Often requiring vessel disarmament and de-crewing
- ⊗ Generally applicable to a limited number of vessel classes
- ⊗ Create high operational risk during “cold moves”
- ⊗ Require a very large number of personnel
- ⊗ Involve highly weather-dependent operations

In contrast to current facilities, **StealthDock delivers three critical services** in one integrated facility:

- Baseline or Target Deperming** - Reduces permanent magnetic signature to evade detection on mission
- 3D Geomagnetic Field Simulation** - Mission-specific signature assessment and tracking
- Degaussing System Calibration** - Real-time feedback during internal vessel system optimisation

## THE MAGSTEALTH ADVANTAGE

StealthDock merges the two innovative technologies of (1) **Travelling Wave Magnetic Fields** and (2) **Modular Berthing** to produce a high precision and rapid operational capability.

### Travelling Wave Deperming Technology (TWDT)

Our patented seabed-mounted coil system creates a virtual moving magnetic deperming field beneath stationary vessels. Instead of cumbersome overwrapping or moving the ship over coils, we move the magnetic field enveloping the stationary ship - enabling precision treatment without vessel movement.

### Modular Berthing System

Patented gravity-based, non-piling dolphins constructed from 316L stainless steel provide 50+ year service life.

Each berthing facility can be:

- ✔ Deployed in weeks, not years
- ✔ Relocated if strategic needs change
- ✔ Scaled for any vessel class
- ✔ Installed with minimal environmental impact

*Reduce the magnetic signature of an entire flotilla taskforce prior to every deployment*

## UNMATCHED PERFORMANCE

CAPABILITY	CURRENT STIRLING MTF	PROPOSED <b>StealthDock</b>
Evolution Time	8-12 days	<b>3-6 hours</b>
Vessel Classes	2 classes only	<b>95%+ of global fleet</b>
Personnel Required	120+ naval crew	<b>8 contractors only</b>
Operational Status	Disarmed, de-crewed	<b>Fully operational</b>
Operational Build Time	5+ years	<b>&lt;30 months</b>
Treatment Types	Deperming only	<b>All three services</b>

### Strategic Benefits of StealthDock

**Force Multiplication:** Treat entire flotilla taskforce prior to every deployment

**Operational Security:** Vessels remain mission-ready throughout treatment

**Cost Efficiency:** 75% reduction in operational costs per evolution

**Strategic Flexibility:** Modular design adapts to changing requirements

### Technical Specifications

**Vessel Compatibility:** Can be scaled to treat vessels of any size

**Treatment Capacity:** Up to 5 vessels per 24 hours

**Power System:** Hybrid/renewable capable, grid-independent operation

**Environmental Impact:** Minimal seabed penetration, minimal ecosystem disruption

### PROVEN TECHNOLOGY

- ✓ **Technology Readiness Level 7-8**
- ✓ **Full-scale engineering validation complete**
- ✓ **Third-party structural review by TWD (Netherlands)**
- ✓ **Operational prototype demonstrations available**
- ✓ **International patent protection secured**
- ✓ **Global Interest** Currently under assessment by six countries including NATO members, with active expressions of interest for sovereign deployment and export opportunities.
- ✓ **Australian Innovation** Developed through partnership between Gray Area Consultants (Perth, WA) and STL Systems AG (Tägerwilten, Switzerland), a partnership combining decades of naval engineering expertise with cutting-edge electromagnetic technology.

## STRATEGIC APPLICATIONS

### Immediate Opportunity

Replace Australia's outdated HMAS Stirling MTF with world-leading sovereign capability that supports:

- ✓ All current and future RAN vessels
- ✓ Sub Rotational Force - West allied operations
- ✓ Regional coalition naval forces, and
- ✓ Meets AUKUS partnership requirements

### Export Potential

**StealthDock** addresses a global requirement for enhanced magnetic signature management across:

- ✓ NATO alliance networks
- ✓ Indo-Pacific partner nations
- ✓ Commercial shipbuilding facilities
- ✓ Forward-deployed naval bases
- ✓ Adaptable to land based weapons systems and platform applications

### Deployment Models

**Sovereign Build:**  
Australian manufacturing for domestic deployment

**Licensed Production:**  
Technology transfer for ally nations

**Service Provision:**  
Fee-for-service allied vessel treatment

**Build-Operate-Transfer:**  
No-CAPEX acquisition options

## PARTNERSHIP OPPORTUNITIES

We are actively seeking prime Defence contractors and strategic partners to bring this critical capability to global naval forces. Our flexible partnership models include licensing, joint ventures, and direct procurement pathways.

### Contact us for:

Technology briefing and demonstration

Confidential capability assessment

Partnership structure development

### CONTACT INFORMATION

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