

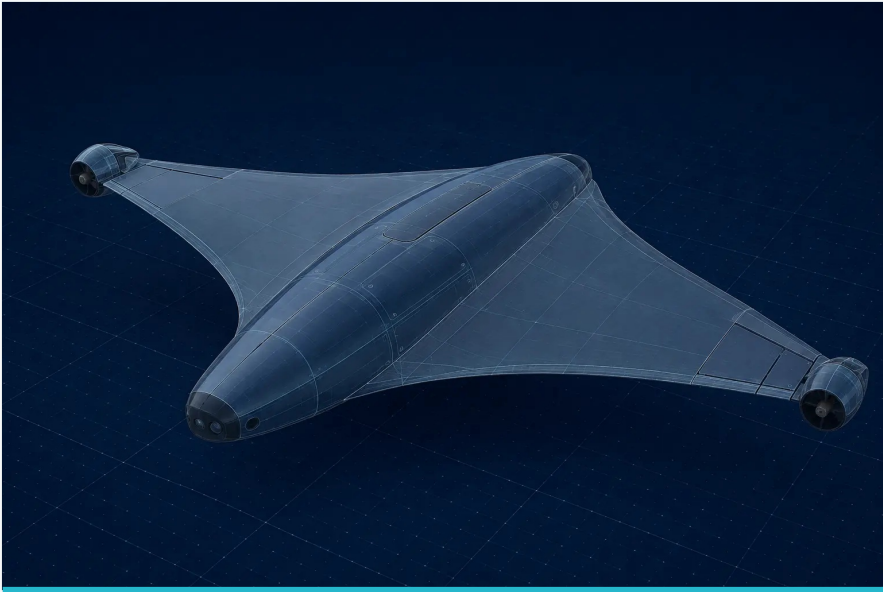
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Manta

Compact Hydrogen-Electric Development Platform

PRODUCT STATUS

Physical development



PRODUCT OVERVIEW

Manta is a compact, winged autonomous subsea development platform for rapid physical iteration, subsystem proving and payload integration. The programme closes vehicle, energy, controls and manufacturing risk before those decisions are carried into mission-scale systems.

DEVELOPMENT STAGE

Physical development

KEY FEATURES

- Nature-informed winged geometry
- Direct electric propulsion
- Configurable payload integration
- Model-based iterative development

PROGRAMME STATUS

Programme status	Physical development
Prototype milestone	First prototype completed Q2 2026
Next milestone	First water trials planned Q4 2026
Development role	Rapid build-test iteration
Verification approach	Incremental component and vehicle testing
Scale pathway	Learning transferred to mission-scale systems

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Manta | Technical data

TECHNICAL CHARACTERISTICS

Overall form	Approx. 1.8 m winged platform
Mass	60-110 kg configuration range
Propulsion	Twin wing-tip electric propulsion
Energy architecture	Hydrogen-electric hybrid
Hydrogen storage	Conformal, low-pressure metal hydride
Payload provision	Configurable sensor and payload integration
Construction	Fast-turn modular construction
Lifecycle intent	Recoverable, serviceable and reusable

SYSTEM INTERFACES

- Defined payload power and data interfaces
- Modular energy and propulsion assemblies
- Configurable sensor integration
- Service access for repeated development cycles

INTENDED APPLICATIONS

- Vehicle and control development
- Payload and sensor trials
- Energy-system integration
- Manufacturing and serviceability development

PUBLIC ARCHITECTURE VIEW

PRIMARY STORAGE

Low-pressure metal-hydride hydrogen



CONVERSION

Electrochemical energy conversion



ELECTRICAL DOMAIN

Managed hybrid battery and power domain



OUTPUTS

Propulsion, control and payload services

TECHNICAL ENGAGEMENT

Independent validation, payload integration, testing, licensing and distribution discussions.

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