

ONE SYSTEM. IMPROVED PERFORMANCE. MISSION READY.

Ensure your USV platform is mission-ready with integrated stabilization technology from Humphree.

Humphree systems enhance vessel stability, efficiency, and operational performance. This improves range, speed, and mission capability for unmanned vessels from 7 m to over 100 m.

Integrate Humphree Fins and Interceptors for optimum performance.

HUMPHREE®

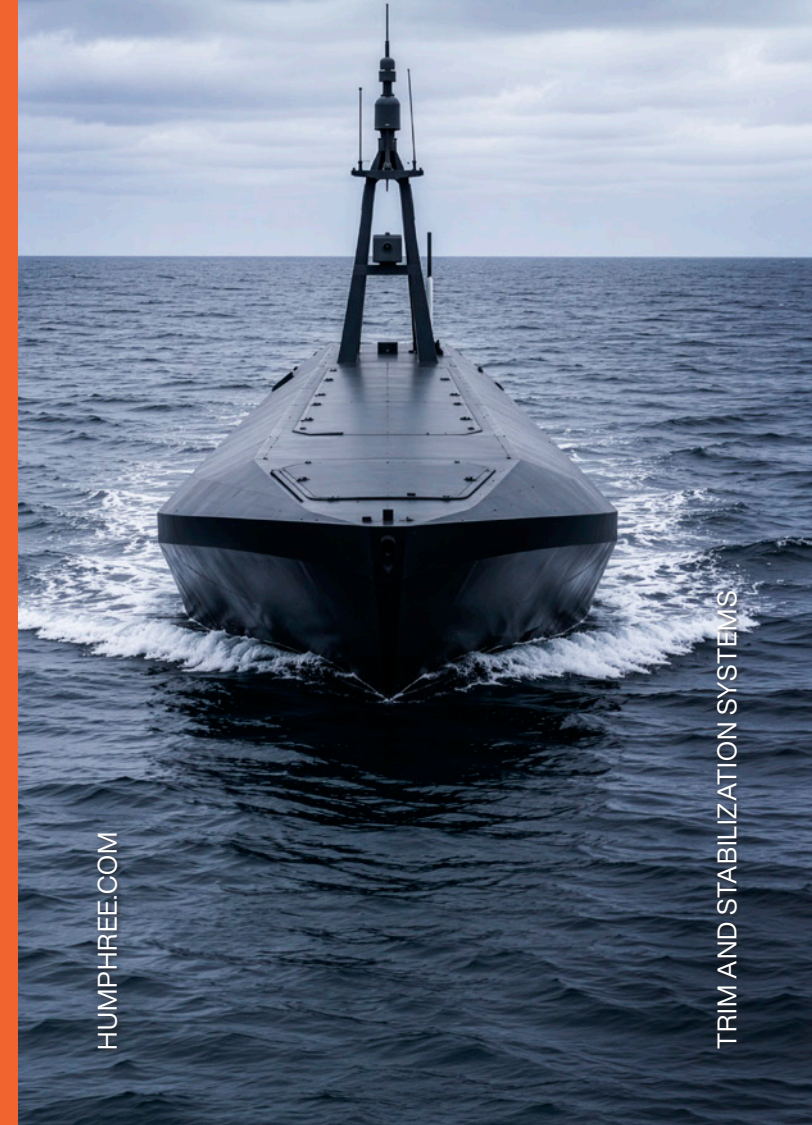


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MISSION READY STABILIZATION FOR USVs



HUMPHREE.COM

TRIM AND STABILIZATION SYSTEMS



INTERCEPTOR



LIGHTNING



CONTROL PANEL



FIN

FROM ZERO SPEED TO TOP SPEED

Humphree stabilization systems maximize performance and enable USV platforms to operate at full mission capability, regardless of application.



THAT MEANS:

- Sensor optimization
- Increased range
- Reduced structural impact
- Faster turns
- Faster acceleration
- Improved accuracy for payload

Focus on what matters most: delivering improved mission parameters.

WHY HUMPHREE?

- Create your own specific integrations
- Autonomously switch from a heavy to light trim curve
- Custom set of parameters, eg. allow the servos to overwork, trim any triggers for alarms
- Designed and produced in Sweden (EU)
- Remote connectivity for system monitoring and control, or a standalone configuration without remote access



FASTER, TIGHTER TURNS

Humphree Total Stabilization delivers faster, tighter and more controlled turns through our Coordinated Turn function. The system provides sharp, smooth cornering that works with your steering intent, never against it.

This enhanced maneuverability can make a critical difference in combat operations, search and rescue missions and any other demanding applications.

STRUCTURAL IMPACT, BENEFITS FOR USV PLATFORMS

Humphree Interceptors generate hydrodynamic lift to actively control trim, pitch, and roll. By reducing bow slamming and vertical accelerations in head seas, they significantly lower structural stress and extend the operational lifespan of USV platforms.

THIS:

- Reduces structural loads and hull fatigue
- Protects onboard sensors, electronics, and mission payloads
- Improves mission reliability and data quality in rough sea conditions
- Reduces the risk of equipment failure and operational downtime
- Extends vessel service life and lowers maintenance requirements
- Supports safe and stable operation across demanding sea states

BATTLE TESTED, FIT FOR ANY KIND OF USV APPLICATION

- Interceptors available in a wide range of sizes and customizable to any shape to maximise performance
- Compact servos fit in tight spaces other systems can't
- Electric-actuated systems avoid weight, start-up time and maintenance penalties of gyro or traditional trim tab systems



INCREASED RANGE

At planing speeds, interceptors reduce hull drag by lifting the stern and optimizing trim.

THIS:

- Reduces wetted surface
- Minimizes resistance
- Delivers extended range and fuel savings

FASTER ACCELERATION

Interceptors boost acceleration by helping your vessel get over the planing hump faster.

YOU GET:

- Shorter time-to-plane
- Smoother transitions
- Quicker response from throttle to ride
- Free from "the hump", that's the Humphree effect