

E-Series Electric Fin Stabilizers

For AtSpeed[®] and AtRest[®] Stabilization

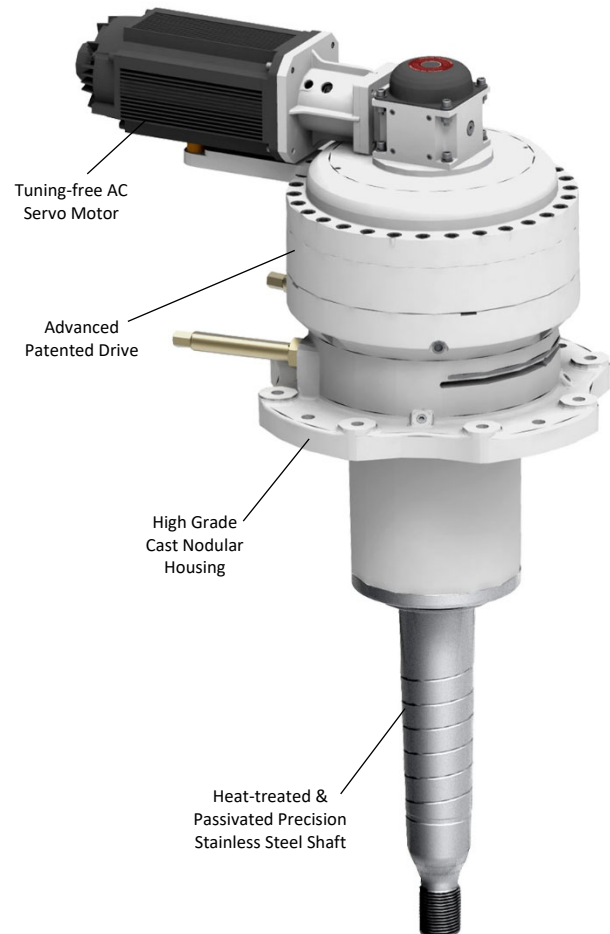
Introducing the new NAIAD DYNAMICS range of Electric Fin Stabilizers — combining the proven reliability of the robust ND fin actuator design, with the convenience of all-electric drive. Originally developed in 2008 for Naval applications, now adapted for luxury yachts. AC servo motors generate the equivalent torque of comparable hydraulic models.

With more stabilizers in service than any other brand, ND product innovations are earned from real-life experience, analysis, and constant development. Install Naiad, Instill Confidence™

Fin Actuator Assembly

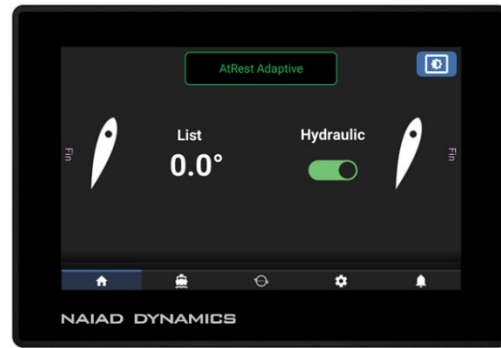
Features

- ✓ No hydraulics – reduced installation time.
- ✓ Available in a range of model sizes and configurations to suit the application.
- ✓ Advanced Galaxie[®] and Cycloidal drives deliver superior torque capacity with zero backlash when compared to other gear designs in use.
- ✓ Tuning-free AC servo motor for simplified startup.
- ✓ Highest quality materials and workmanship. Aerospace grade machining in-house to US military standards. ISO 9001:2015 certified facility.
- ✓ Industry first heavy-duty tapered roller bearing construction. Designed for life; no main bearing replacement required. Compare to inexpensive and wear-prone plain bearings/bushings.
- ✓ Fins can be manually centered and locked.
- ✓ Proven hydrodynamically-efficient foil section designs. Tip Fences proportionately sized and validated for performance.
- ✓ Advanced composite fin construction is galvanically inert and features an encapsulated stainless-steel insert with precision machined self-locking keyless taper. Steel fins optional. Custom shapes available.
- ✓ Robust fin construction is damage resistant but designed to yield safely to severe impacts.
- ✓ Keyless taper allows freedom to install the NAIAD Fin Actuator Assembly in any 360° orientation to simplify installation and maximize accessibility, plus allows the fins to be aligned and realigned in any desired position to suit hull flow lines.
- ✓ First choice among discriminating yacht owners and ship builders throughout the world.



Distributed Control System (DCS)

- ✓ Advanced, fully proportional distributed closed loop control system for maximum roll reduction performance in any seaway with minimum drag.
- ✓ Modular, node-based architecture fully supports AtSpeed® & AtRest® roll stabilizer systems as well as Total Ride Control® (multi-axis) systems with multiple types of effectors.
- ✓ Hardened against electromagnetic interference.
- ✓ Resonant roll reduction typically 90%. Static heel correction. Adjustable gains (sensitivity). Automatic fin limiting and centering. Adaptive Technology self-tunes to optimize performance.
- ✓ Enhanced course-keeping, reduced rudder drag typically improves overall destination time and fuel efficiency.



Distributed Control System (DCS) graphical display panel, with intuitive multi-page control screens.

Application Guidelines

<i>Naiad Model</i>	<i>OAL Feet (Meters)</i>	<i>Displacement Max. (Approx)</i>	<i>Fin Sizes Sq. Feet (Sq. M.)</i>
E250 Series	Up to 85 (26)	80 S. Tons (73 M Tons)	3 – 9 (0.28 - 0.84)
E360	90 - 120 (27 - 37)	200 S. Tons (185 M Tons)	7.5 – 19 (0.70 - 1.76)
E525	115 - 165 (35 - 50)	600 S. Tons (545 M Tons)	12 – 38 (1.12 - 3.53)
E600	135 - 180 (41 - 55)	750 S. Tons (680 M Tons)	19 – 45 (1.76 - 4.18)

Advanced Drive Gearing

ND Electric Stabilizers utilize advanced Galaxie® Drive and Cycloidal Drive gearboxes that produce high torque with excellent torsional rigidity, positional accuracy and repeatability and absolutely zero backlash. Its unique design results in a compact package with outstanding reliability and service life and requires no maintenance.



Internal Galaxie and Cycloidal Drive Gearing

Outstanding Service and Support

Naiad Dynamics stands behind every system sold with its superb limited Warranty. NAIAD® products are supported worldwide by our seven sales and service centers and mobile fleet, and by our comprehensive Authorized Dealer Network with locations in key regions for fastest response and guaranteed satisfaction. Spare parts are usually in-stock and ship within 24 hours, and our state-of-the-art in-house manufacturing facility ensures quick turnaround on parts throughout the life of the system.

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NAIAD DYNAMICS: The Science of Stabilization®