

New!

NAIAD[®]
DYNAMICS

E-Series Electric Fin Stabilizers

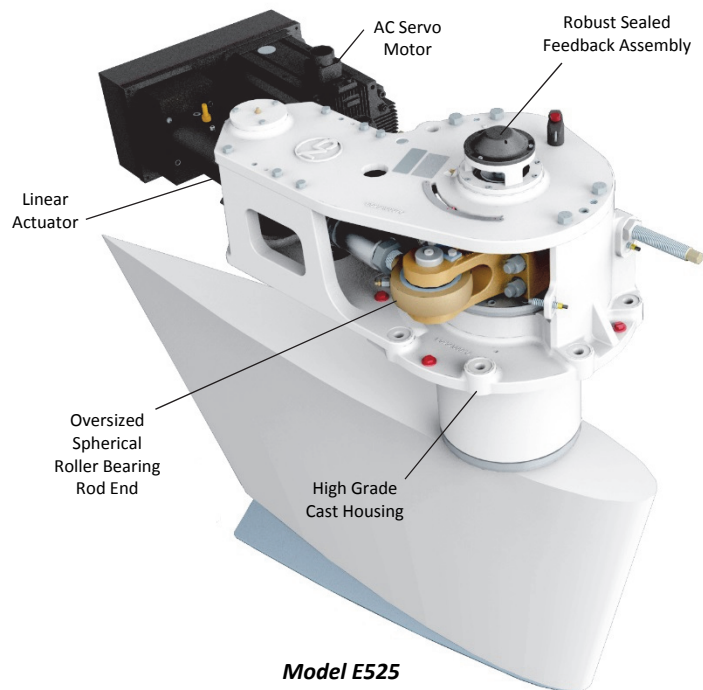
For AtSpeed[®] and AtRest[®] Stabilization

Introducing the 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. A single AC servo motor generates the equivalent torque of comparable hydraulic models.

Originally developed in 2008 for Naval applications, now adapted for luxury yachts. With more systems 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.
- ✓ Lower profile than other electric stabilizer brands.
- ✓ Available in four model sizes to suit the application.
- ✓ Highest quality materials and workmanship. Aerospace grade machining in-house to US military standards. ISO 9001:2008 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.
- ✓ Factory assembled and tested. No disassembly required at installation.
- ✓ Fins can be manually centered and locked.
- ✓ Proven hydrodynamically-efficient foil section designs. Stainless steel Tip Fence (shown), 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.
- ✓ Keyless taper allows freedom to install the NAIAD 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.
- ✓ Robust fin construction is damage resistant, but designed to yield safely to severe impacts.
- ✓ First choice among discriminating yacht owners and ship builders throughout the world.



Digital Control System

- ✓ Advanced & proven fully proportional automatic Angle-Velocity-Acceleration (AVA™) closed loop control system for maximum roll reduction performance in any seaway with minimum drag.
- ✓ Resonant roll reduction typically 90%. Static heel correction. Sensitivity adjustment. Automatic fin limiting and centering. DATUM™ Adaptive Technology self-tunes to optimize performance.
- ✓ Enhanced course-keeping, reduced rudder drag typically improves overall destination time and fuel efficiency.
- ✓ DATUM™ is the world's first purely digital fin stabilizer control system operating on a CANbus distributed network.
- ✓ Shock tested and naval ship approved.



DATUM™ graphical display panel options, each with intuitive multi-page display 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	Up to 85 (26)	80 S. Tons (73 M Tons)	3 – 9 (0.28 - 0.84)
E525	115 - 165 (35 - 50)	600 S. Tons (545 M Tons)	12 – 38 (1.12 - 3.53)
E575	135 - 170 (41 - 52)	675 S. Tons (610 M Tons)	16 – 45 (1.49 - 4.18)
E621	140 - 180 (42 - 55)	750 S. Tons (680 M Tons)	19 – 45 (1.76 - 4.18)

Model E250 – Harmonic Drive® Gearing

ND Model E250 Electric Stabilizer utilizes a Harmonic Drive® gear system that produces high torque, excellent positional accuracy and repeatability with zero backlash. Its unique design results in a compact, lightweight package compared to traditional planetary gear sets. NASA specifies Harmonic Drive® gear systems for a variety of applications including the Mars rover vehicles due to their size and weight advantages, as well as their outstanding reliability and service life.



Model E250

Outstanding Service and Support

Naiad Dynamics stands behind every system sold with its superb limited Warranty. NAIAD® products are supported worldwide by our six 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.

NAIAD DYNAMICS US, INC.

Connecticut, USA
T: +1 203 929 6355
F: +1 203 929 3594

Maryland, USA
T: +1 301 690 2010
F: +1 301 690 2187

Florida, USA
T: +1 954 797 7566
F: +1 954 791 0827

NAIAD DYNAMICS UK, LTD

Southampton, England
T: +44 (0) 2392 53 9750
F: +44 (0) 2392 53 9764

NAIAD DYNAMICS HOLLAND, BV

Maastricht, Netherlands
T: +31 (0) 43 604 9200
F: +31 (0) 43 363 6200



www.naiad.com
sales@naiad.com

NAIAD DYNAMICS: The Science of Stabilization®