

New!

NAIAD[®]
DYNAMICS

E-Series Electric Fin Stabilizers

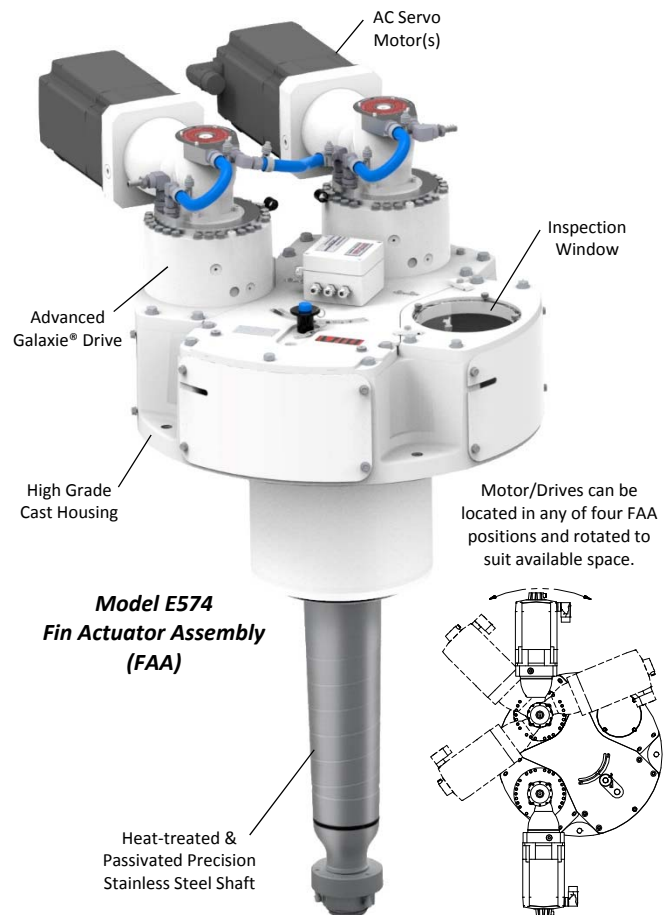
For AtSpeed[®] and AtRest[®] Stabilization

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 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.
- ✓ Available in a range of model sizes and configurations to suit the application.
- ✓ Advanced Galaxie[®] drive delivers superior torque capacity with zero backlash when compared to other gear designs in use.
- ✓ 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 assembly required at installation.
- ✓ 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.



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)
E360	90 - 120 (27 - 37)	200 S. Tons (185 M Tons)	7.5 – 19 (0.70 - 1.76)
E524	115 - 165 (35 - 50)	600 S. Tons (545 M Tons)	12 – 38 (1.12 - 3.53)
E574	135 - 170 (41 - 52)	675 S. Tons (610 M Tons)	16 – 45 (1.49 - 4.18)
E620	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 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
Fin Actuator Assembly

Outstanding Service and Support

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