

# Active Fin Stabilizers

## Models 162, 174, 252, 254 & 302

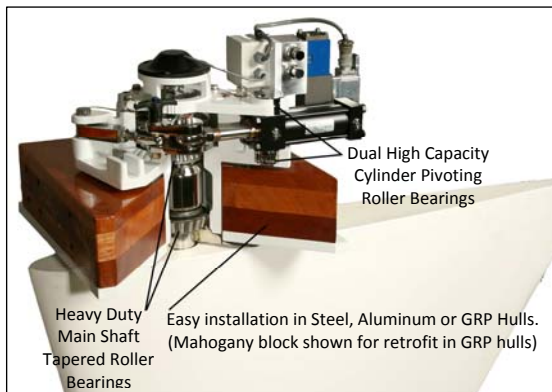
*Roll Reduction While Cruising*

*The industry standard for superior performance, quality, reliability, long-term support and overall value. With more systems in service than all other brands combined, Naiad Dynamics product designs are a refined evolution earned from real-life experience, analysis, and constant development. Install Naiad, Instill Confidence™*

*NAIAD® Stabilizers are the equipment of choice installed in thousands of vessels in demanding commercial and military ship applications as well as luxury yachts of all sizes.*

### Fin Actuator Assembly Features

- ✓ Highest quality materials and workmanship. Major components machined in-house to US military standards and concurrently produced alongside aerospace machined parts.
- ✓ Industry first heavy-duty tapered roller bearing construction, fully pre-assembled and sealed at the Naiad factory for easy installation. Compare to inexpensive and wear-prone plain bearings/bushings.
- ✓ Greased for life, no annual main bearing maintenance required.
- ✓ Double lower shaft seals incased in an easily accessible precision-machined stainless steel housing.
- ✓ Proven hydrodynamically-efficient foil section designs. 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.



- ✓ 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.

## Electronic Control Systems

- ✓ Advanced & proven fully proportional automatic Angle-Velocity-Acceleration (AVA™) closed loop control systems for maximum roll reduction performance in any seaway with minimum drag.
- ✓ Standard MultiSea™ II control system (shown at left), optional DATUM™ (graphical display panel options at right, each with intuitive multi-page display screens)
- ✓ 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.



## Application Guidelines (this Series)

<i>Naiad Model</i>	<i>OAL Feet (Meters)</i>	<i>Max Displacement (Approx)</i>	<i>Fin Sizes Sq. Feet (Sq. M.)</i>
162	30 - 42 (9 - 13)	25 S. Tons (23 M Tons)	3 - 4.5 (0.28 - 0.42)
174-1	32 - 50 (10 - 15)	35 S. Tons (32 M Tons)	3 - 6 (0.28 - 0.56)
252	45 - 75 (13 - 23)	50 S. Tons (45 M Tons)	3 - 7.5 (0.28 - 0.70)
254	55 - 85 (16 - 26)	80 S. Tons (73 M Tons)	3 - 9 (0.28 - 0.84)
302	80 - 100 (24 - 31)	140 S. Tons (130 M Tons)	4.5 - 12 (0.42 - 1.12)

## Hydraulic Systems

Complete hydraulic systems standard or tailored for specific applications. From simple fixed-displacement pump systems to advanced load-sensing systems that efficiently integrate all shipboard hydraulic equipment. Our specialist hydraulic engineers specify all necessary components, source and oversee in-house testing, and supply fully detailed drawings. Naiad's standard range of quiet Powerpacks are also available to power hydraulic systems.

## 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 yachting 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: World Leaders in Ship Motion Control Solutions™**  
*Where Old World Craftsmanship meets Cutting Edge Digital Electronics™*