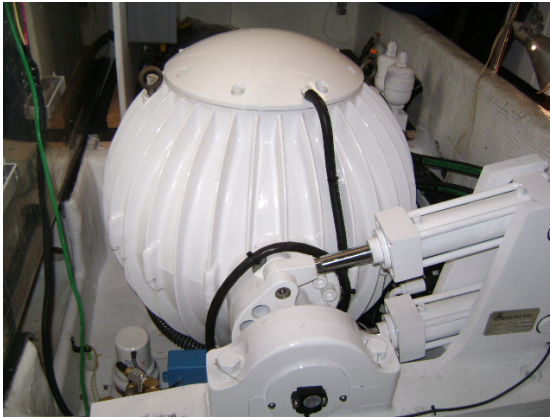


Seakeeper Gyro Stabilizer Install - Silverton 43

May 25, 2009



No, this is not the "warp core" out of the Starship Enterprise...

What you see here is a gyrostabilizer from Seakeeper that we just installed in a Silverton 43.

As any kid knows from experimenting with a bicycle wheel, a spinning flywheel is hard to move. (When you apply force, it "responds" with counter-force.)

The same principle - the gyroscopic effect - can be scaled up many times and used to stabilize wave-induced rolling.

The Seakeeper unit is mounted in the bilge, on the stringers. Inside the containment vessel is a flywheel, driven by a brushless DC motor, spinning at 10,000 rpm. Air has been evacuated from the vessel, creating a vacuum. This allows for high rpm, reduced heat transfer, and a corrosion-free environment.

Mounting on stringers is required because of the forces involved. For example, when your 17-ton vessel rolls to port, Seakeeper will exert a "semi-equal and opposite reaction" (to paraphrase Sir Isaac Newton).

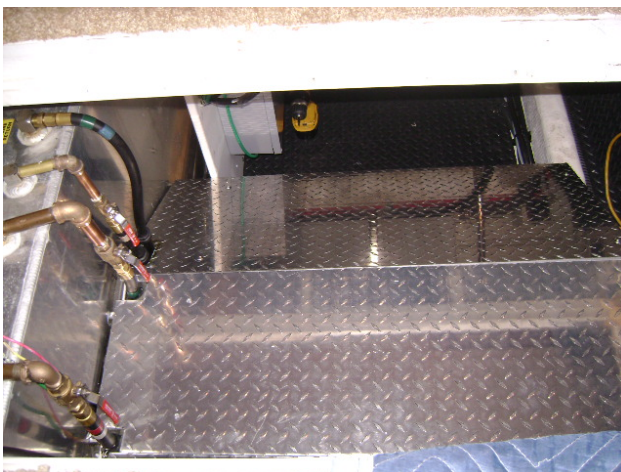


(For a full description of forces involved, go to http://www.seakeeper.com/design_howwesize.php)

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Traditional external stabilizing fins require movement through the water to provide the counteracting stabilizing force. Seakeeper will stabilize your boat at low speed, on the hook in a rolling anchorage, or while enjoying drinks at the dock. An added benefit: Seakeeper is an internal system, and there are no hull protrusions to hook crab pot lines or debris.

In many installations, like the Silverton 43, stringers need to be "sized up" because of the forces involved. After the carpentry shop provided access through the cabin sole, our glass department then resized and reinforced the stringers. The mechanical shop then installed and wired the unit.



After the unit was installed, carpentry came back in and built a frame over the Seakeeper unit to serve as a base for aluminum diamond plate flooring, to reclaim space for storage.

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The owner is extremely pleased with the unit and the installation.

"Although we haven't gone offshore yet, we did go through the inlet on the way home. It was like a washing machine in the inlet, and the boat was perfectly level. Same with the ICW, when we were waked by a large sportfish – instead of the usual rolling, our Silverton was rock solid. And the unit is extremely easy to operate, just turn it on. It is so quiet we didn't even know it was running."

"Bennett Brothers did an outstanding job. I can't think of another boatyard that could have made such a professional installation. And to top it off, the boat was cleaner after the installation than when we brought her to the yard!"

Call 910-772-9277 for pricing and a free installation estimate

To see videos of the Seakeeper in action, click the following links:

Quick video:

<http://www.mackboring.com/RecreationalMarine/Seakeeper.aspx>

Detailed video:

http://www.seakeeper.com/products_video.php

Click here for full details on this amazing product:

http://www.seakeeper.com/products_specifications.php