

THE *FASTESt* HYDROFOIL ON EARTH!



Sting Ray
TM

PERFORMANCE SYSTEM
HYDROFOIL STABILIZERS • TORQUE EQUALIZERS



Only StingRay™ Performance System

IN the late 1980's, Marine Dynamics, Inc. was founded to satisfy the need for improved performance of all boats. The StingRay™ Hydrofoil Stabilizer, designed through advanced computerized engineering, was the result.

Since that time, the StingRay™ Hydrofoil Stabilizer has become one of the hottest selling marine accessories of all time. In fact, it is currently the number one product of choice, worldwide.

Why? Because it works.

The StingRay™ Hydrofoil Stabilizer applies the laws of physics to provide the extra performance every boat needs. It's aerodynamic design creates a higher water pressure on the underside of the hydrofoil surface, which creates lift to bring the stern up and force the bow down. No other product improves performance so dramatically.

Unlike other so called foils, the StingRay™ keeps on improving performance once the boat is up and running. In addition to providing a superior hole shot, the StingRay™ lets the boat cruise at lower speeds, stops porpoising, eliminates chinewalking, stabilizes handling, increases top end speed and improves fuel economy.

For bringing big boat performance to small boats, there's the StingRay Junior™. It's the only performance product specifically designed for motors with 1-1/2 to 40HP.



ems Offer so Much Performance!

Adding StingRay Torque Equalizers™ to either product gives you a complete performance system. Only StingRay™ has it.



Due to the tremendous success of the StingRay™, other companies have tried to jump on the bandwagon. Several two-piece foils are on the market because they are easier, quicker and cheaper to tool. Competing one piece designs lack the scientific principles that make StingRay™ work. Because it's the best, some companies have even tried to copy and "steal" the StingRay™, but U.S. patent laws put a stop to that.

The truth is, only the StingRay™ Hydrofoil Stabilizer delivers superior performance beyond planing. Other foils are not logically or scientifically supported. Some are simply flat plates. Others claim to work by not riding in the water. But ask yourself, "How can it work if it's not in the water?" (It can't). It doesn't take a rocket scientist to figure that one out.

Let's face it, other products which claim to be hydrofoils are nothing but simple planing aids. Only the StingRay™ is a complete performance system. Once planing is reached, the StingRay™ continues to generate improved performance. This booklet explains how.

NEW FEATURES!

Performance isn't just about horsepower... it's about Technology!

StingRay™ hydrofoil stabilizer now made with SPEED-XP™, an extreme performance hydrophilic material, making the worlds fastest hydrofoil stabilizer even faster!

SPEED-XP™ is a clear hydrophilic (water-absorbing) material that is thermally bonded to the base polymer material of the hydrofoil. The surface of this material is hard when dry and looks like a new wax job-however the "magic" of its performance is released when the surface becomes wet...SPEED-XP™ acts like a microscopic sponge when wet and will bind a very thin layer of water to the surface of the hydrofoil. The result is running water on water-**a dramatic reduction in hydrodynamic drag and improved performance.**

Endorsed by 5-time world champion super-boat race teams. The fastest hydrofoil stabilizer in the world...0-90 MPH in just 16 seconds! Broke the 100 mph barrier! (to be exact, top speed in a 20' bass boat, with a Mercury 2.5 liter, radar-clocked at 107

NEW SPEED-XP™ material. Patent pending, hydrophilic thermo bonded material, creates a water on water surface, eliminating surface drag. Makes **StingRay™** the fastest hydrofoil on earth!



MPH at the premier lake X, Florida testing facility!). It still fits and works on all new boats. Eliminates cavitation & prop blow-out. Eliminates bow rise, porpoising and bouncing. Significantly improves planning time, top speed, handling and safety.

Unlike simple curved or flat planning aids, the **StingRay™** actually creates lift. By raising more of the hull out of the water, reduces wetted area, thereby reducing drag. Greatly improves safety by allowing better visibility to the driver and passengers. Gives tremendous banking and cornering ability, no uncontrolled sliding or pitch-out.

The #1, hands-down choice of professional racers and boaters worldwide...and for obvious reasons! Gives more high-performance for your money than high-priced specialty props of complicated and expensive trim tabs. *"You can't buy more performance-per-dollar than with a **StingRay™**!"* It's guaranteed to work for you, or your money back...no hassle.

NEW SPEED COVERS™ new patent pending covers reduce drag by eliminating water "slap" against the back side of hole. Hides mounting hardware, giving the **StingRay™** a sleek, OEM, invisible-mount™ look.

NEW patent pending **StingRay™** logo with VISION-3™ technology, enhances the look of your boat.

The StingRay™

The StingRay™ Hydrofoil Stabilizer is The Only Product That Delivers True Stabilization.

Other so-called “foils” (actually only planing aids) may claim to be a stabilizer, but fail to perform. Some even use the name stabilizer without understanding what it means.

StingRay™ keeps performing all day. As long as the boat is in the water and moving, the StingRay™ keeps on working.

The StingRay™ eliminates the need for troublesome trim tabs. Its patented high-tech shape causes water to flow over its surface, thus hydrodynamically creating upward thrust pressure on the underside surface. Scientific principles go to work the moment the propeller starts turning. Upward pressure lifts the hull, resulting in less drag since less of the boat is in the water.



StingRay™’s wings then stabilize the water pressure, keeping the boat stable and safe. By staying in the water, the StingRay™ keeps on working.

With a *StingRay™* Hydrofoil Stabilizer, You're Up On Plane in Less Than Half The Time it Normally Takes.

When it comes to getting a boat out of the hole, nothing else comes close.

Water skiers are amazed at the difference. They're up and skiing faster and easier than ever before. What's more, the smoother wake makes skiing more enjoyable for beginners and experts alike.

Professional powerboat racers use the *StingRay™* to help win races. They know a better hole shot helps them gain an extra edge right from the start. It's the choice of champions.

Fishermen, both professional and weekenders, appreciate the *StingRay™* for its quicker planing. Rather than being bogged down, they're headed for the choice fishing spots. For pros, it can be the difference between a winner or an also ran. For the pleasure fisherman, it's the best thing to happen to a boat since the outboard.

Increased safety also comes to users of the *StingRay™*. With the bow down, visibility is increased and control is improved. Some insurance companies even offer a discount to *StingRay™* equipped boats.



Without StingRay™



With StingRay™

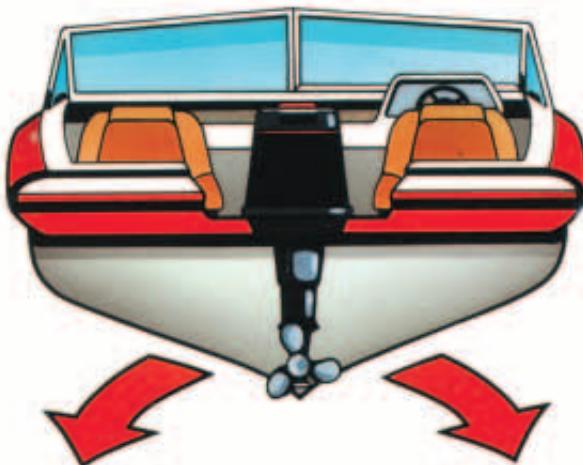


Without StingRay™ Junior



With StingRay™ Junior

Eliminates Chinewalking.

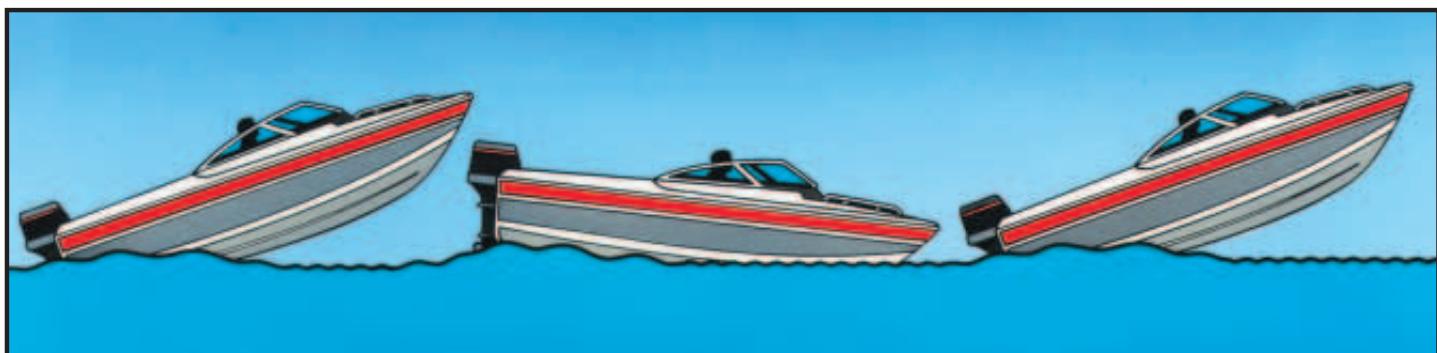


By their very design, "V" bottom boats are susceptible to chinewalking. This dangerous side-to-side rocking lessens control and performance.

Again, the StingRay™ wings go to work. The stabilizing action balances the boat to keep it upright and moving forward without a hassle.

StingRay™ works, while you play.

StingRay™ Stops a Boat From Porpoising.



Porpoising is the name given to the forward and back motion some boats make while riding on the water. Picture a porpoise leaping through the water and you get the idea. It may be fine for them, but its murder on a boat's performance, comfort and safety. This pounding causes many people to ride only in the very back of the boat. After all, who wants to get bounced around all day?

StingRay™ corrects this action, providing you with more comfort, safety and performance.



StingRay Junior™ Gives Big Boat Performance to Small Boats.

Small boats with low horsepower motors suffer greatly from lack of performance. For instance, getting out of the hole takes forever. Slow speed is common. Their light weight causes a myriad weight distribution problems. Bow rise occurs all too often.

Since small boats act and react differently than their larger counterparts, a special performance solution is required. StingRay™ has it.

The StingRay Junior™. It's the only performance product specifically made for small boats. Adjustable to fit any size motor from 1-1/2 to 40 HP, the StingRay Junior™ makes small boats perform like never before. It's perfect for aluminum boats, Jon boats and inflatables.

The StingRay Junior™ didn't happen by accident. Designed through computerized engineering, StingRay™ Junior uses scientific principles to improve small boat performance. Its high-tech shape directs the water over its surface to create just the right lift for small boats.

The results are fantastic.
Smoother stability. More control. Superior ride.

improved fuel economy.

And higher speeds.
Nothing else works as well.



StingRay™ Torque Equalizers wipe out steering torque before it wipes you out.

All boats react to propeller rotation causing a dangerous pull to one direction or the other. Fighting it can be very tiring to the boat's driver.

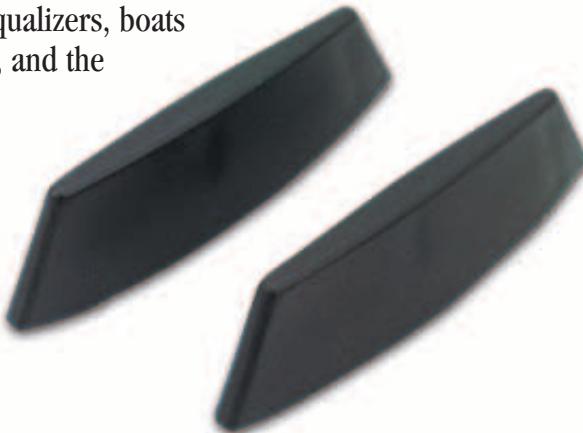
StingRay™ provides the solution with Torque Equalizers.

StingRay™ Torque Equalizers, when placed on a StingRay™ Hydrofoil Stabilizer or StingRay Junior™, will reduce or completely eliminate dangerous steering torque on all boats.

With a StingRay™ Hydrofoil Stabilizer and Torque Equalizers, boats track straight, are easier to control, safer to handle, and the driver's arm won't tire out after a day on the water.

By adjusting in 10 degree increments on the underside of the wings, Torque Equalizers provide superior leverage over auxiliary wedges or center mounted sacrificial anode torque tabs. By comparison, other solutions just don't seem to work.

After one ride you'll know why Torque Equalizers are the premier solution for correcting steering torque.



Without Torque Equalizers



With Torque Equalizers

All Boats Need a *StingRay™* Hydrofoil Stabilizer Performance System.



(A) Fishing Boats

From small fishing boats to high powered bassin' machines, StingRay™ lets fishermen get to the fish faster and easier than ever before.



(B) High Performance Boats

If you think your boat has performance now, wait until you slip on a StingRay™. By lifting the stern and bringing the bow down you'll discover more performance than you thought possible.



(C) Runabouts

Most pleasure boats fall into this category. Get extra power, safety and fuel economy from the StingRay Performance System™.



(D) Aluminum boats

Whether it's a large or small aluminum boat, StingRay™ overcomes the performance problems associated with these lightweight boats.



(E) Cruisers

StingRay™ improves all around performance with these popular boats. The number one problem, bow rise, is eliminated along with chinewalking, porpoising and power loss. Works on single or multi-engines.



(F) Inflatable Boats

These difficult-to-handle boats are a breeze to maneuver with a StingRay Junior™.



(G) Pontoon Boats

The two most common problems with these boats, cavitation and ventilation, are eliminated.



(H) Water Skiing

A StingRay™ equipped boat pulls skiers up right away and keeps them up, even at lower speeds.



Installation is Quick and Easy.

Both the StingRay™ Hydrofoil Stabilizer and StingRay Junior™ are easy to install. All the hardware you need is included: four bolts, four self-locking nuts, four stainless steel washers, and four rubber washers.

Simply drill four (4) quarter-inch holes in the cavitation plate on the lower drive unit and bolt the StingRay™ on.

Pre-drilled holes in the StingRay™ serve as a guide for drilling the four holes. Placing the StingRay™ on top of the cavitation plate, insert the bolts from the bottom up. Place the rubber washers on the bottom side and the stainless steel washers between the top of the unit and the self-locking nuts. Use a socket wrench to tighten the nuts.

In a matter of minutes you're ready to enjoy unmatched performance.



StingRay™ Senior

More Performance Tips.

We like to say that StingRay™ brings out the hidden peak performance of your boat. Here are some helpful hints on making your boat the best it can be:

Speed: Since a StingRay™ lifts the boat hull and reduces the wet surface, or drag, speed is increased.

Prop-up: Most boats have a compromised propeller that digs in (low gear) for starting but doesn't allow a high top speed. A StingRay™ may allow a boat to be re-proped to a higher pitch and still get out of the hole.

Manual trim: On boats without power trim, the StingRay™ holds the bow down, allowing the manual trim adjustment to be set higher than otherwise possible.

Fuel economy: Since there's less drag and the boat planes higher, fuel consumption naturally decreases.

RPM/lower:

StingRay™ keeps the bow down and maintains a planing position, at considerably lower RPMs, permitting safer cruising.

Advertising

Marine Dynamics is committed to an aggressive advertising program to help our distributors and dealers sell more StingRays™. By creating an awareness and interest in our products, our advertising has played an important role in our “*number one in sales*” position. We are unique because we will not sell direct to the consumer. All inquiries coming in on our heavily advertised “1-800” number (1-800-942-6636) are directed to a stocking dealer and followed up with the potential buyer’s name and phone number so the dealer can complete the sale.

Magazines

As well as appearing in key trade publications, Marine Dynamics maintains a regular schedule in widely read and respected special interest magazines for boaters



and fishermen. Our 800 number appears in each ad so that readers can call and find out where to find their nearest dealer.

Television

Marine Dynamics’ products are also featured in TV commercials appearing on nationally syndicated fishing shows. Our 30-second spot extols the virtues of the StingRay™ products and has resulted in many new satisfied buyers.

Endorsements

People who earn their living with a boat use StingRay™. In fact, many pro fishermen have been so satisfied with StingRay™ products, that they’ve been passing along their recommendations across the country. StingRay™ is also the proud sponsor of high-performance racing teams, including the championship-winning Texas Thunder.

Sales Promotion

We also offer our dealers many important marketing tools such as a hard-selling in-store video tape, eye-catching display racks, boat decal's and other point-of-purchase materials to boost profits.