



MERCURY

Mercury Propellers Overview

“The importance of a good propeller”

14/08/2013

Content

- Why Mercury Propellers?
- Aluminium and Stainless Steel performance
- How do we do it?
 - ✓ The best design and testing capabilities
 - ✓ The best materials and high quality castings
 - ✓ How to evaluate the quality of a propeller ?
 - ✓ Modular hub system for outboards and sterndrives
- 2011/2012 Recap
 - ✓ Q/S Thunderbolt for Volvo Penta DPS
 - ✓ Mercury prop selector
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- Mercury Propeller product line reference



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Why Mercury propellers?

- Performance
- Materials/Casting Process
- Hub System designed by an Engine Company
- Shopping for an aluminum propeller
 - What to look for?
- OEM branded product



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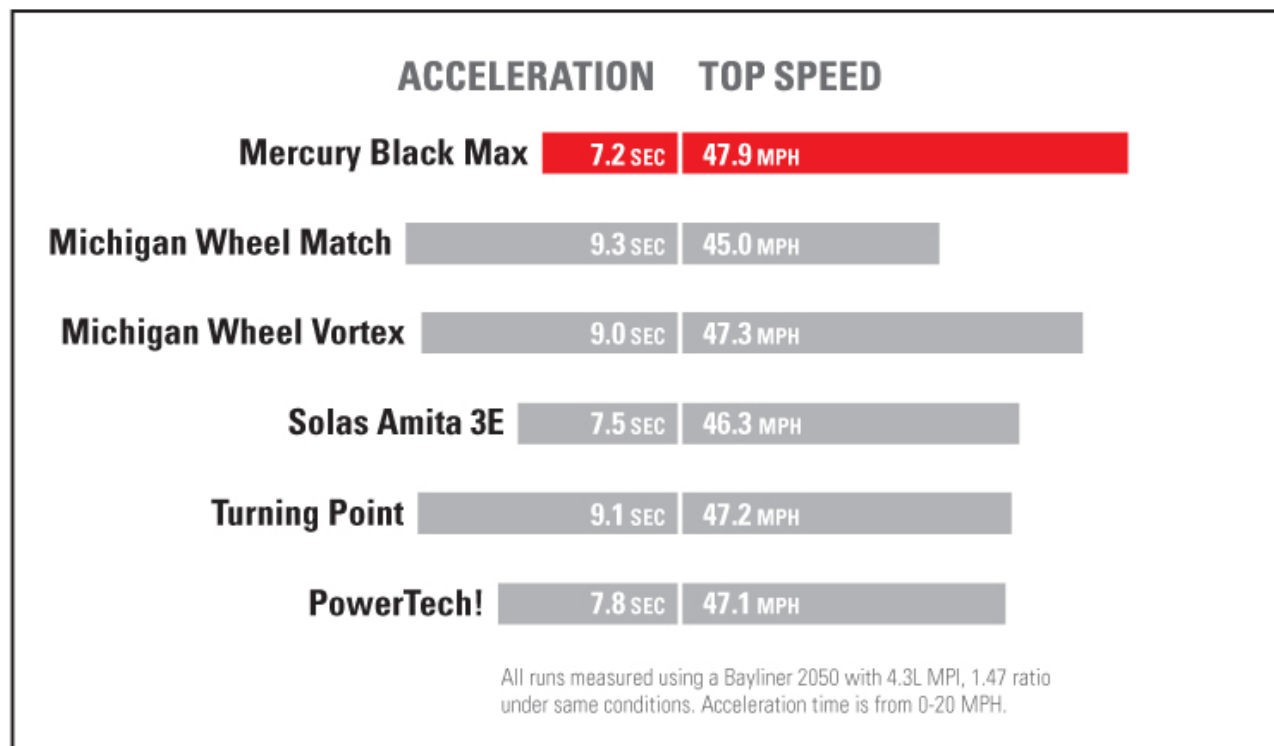
Performance

- Per·for·mance [per-fawr-muh ns] *noun*
 4. the manner in which or the efficiency with which something reacts or fulfills its intended purpose.
- How do we define performance?



Aluminum Performance

- A black prop is not just a black prop – if your customer cares at all about how their boat performs – there is no substitute for Mercury.
- How do we do it?



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Stainless Steel Performance

| | ACCELERATION | TOP SPEED | #@% \$#/x! |
|----------------------------------|--------------|-----------|------------|
| Mercury Vengeance | 7.3 SEC | 48.4 MPH | |
| Michigan Wheel Apollo Sm | 7.7 SEC | 48.1 MPH | BLAH |
| Michigan Wheel Apollo Lg | 7.6 SEC | 47.9 MPH | BLAH |
| Solas Lexor | 8.5 SEC | 46.9 MPH | BLAH |
| Turning Point LE1419 Patriot | 8.2 SEC | 48.4 MPH | BLAH |
| Turning Point V01519 Voyager | 8.0 SEC | 48.1 MPH | BLAH |
| Turning Point V01619 Voyager | 11.0 SEC | 43.0 MPH | BLAH |
| PowerTech! Lifter (PTC) | 8.7 SEC | 47.5 MPH | BLAH |
| PowerTech! Offshore Lifter (OFX) | 7.7 SEC | 47.1 MPH | BLAH |
| PowerTech! Offshore (OFS) | 7.7 SEC | 47.8 MPH | BLAH |

All runs measured using a Bayliner 2050 with 4.3L MPI, 1.47 ratio under same conditions. Acceleration time is from 0-20 MPH.

How do we do it?

- Many propeller companies are actually overseas foundries that manufacture many different things
 - Expertise in producing castings to a print specification
 - Why should I care?
- Mercury has a team of talented professionals who are dedicated to designing and manufacturing the industries **best performing** propellers on the market – bar none. How do we do it?
 - With the most experienced engineering team
 - The most sophisticated design tools
 - The largest breadth of testing resources to ensure we are consistently bringing the best product to market
 - The best materials
- Reason we are so frequently copied in the marketplace

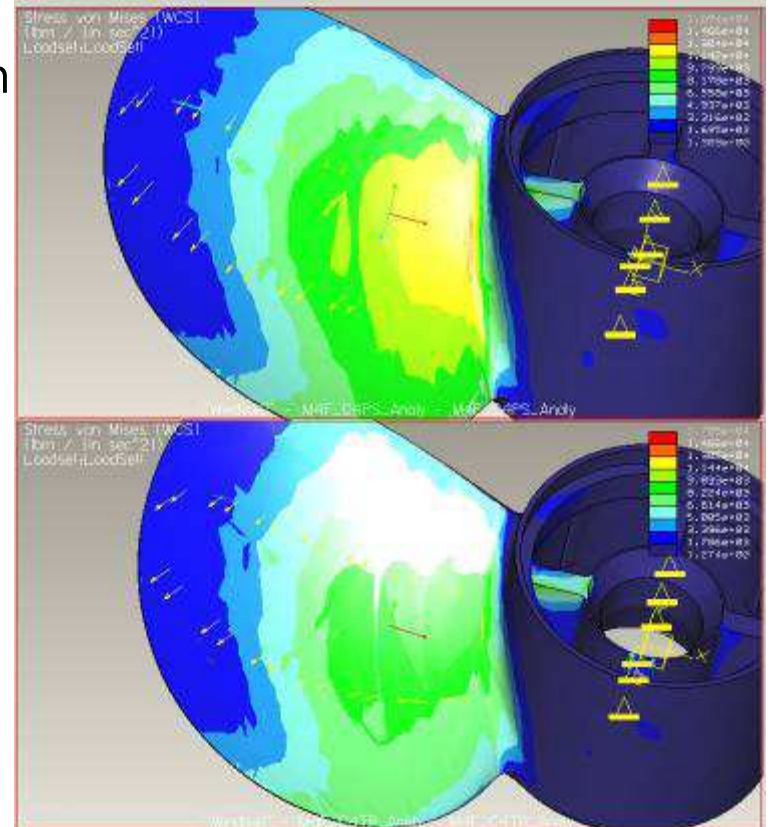


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Best Design Capabilities

- Proprietary 3-D propeller geometry creation software. Proprietary formulas optimizes:
 - Blade/Camber shape
 - Pitch distribution
 - Blade thickness
 - Cup size, shape and distribution
 - Blade diameter
- FEA (Finite Element Analysis) models to optimize strength of propeller design and simulate usage under adverse conditions
 - Allows team to reduce stress in propeller designs – resulting in better durability and longevity



FEA Model

Testing capabilities

- In 2012 we ran 120 boat hydrodynamic boat performance tests
- 110 boats in its performance test fleet
- Boat performance testing is completed by 4 full-time drivers. Data is taken on multiple runs in opposite directions and must meet strict variation criteria to be allowed.
- Constantly evaluating our product vs. competition
- How many boat tests were done by our competitors?



The Best Materials - Mercalloy™

- Mercury has a complete materials lab with two PhD Metallurgists on staff.
- Focus on the best materials resulted in development of Mercalloy - used in both Mercury and Quicksilver propellers.
- Specially designed for our die-casting process
- Patented – No other company has it
- Produces clean, porosity free propeller castings
- 2X Stronger than alloys used by other manufacturers



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The Best Materials – Mercury's Proprietary 15-5 Stainless

- Mercury 15-5 is used in both Mercury and Quicksilver propellers.
- Specially designed for an ideal blend of strength and corrosion resistance
- Patented – No other company has it
- Produces strong consistent castings
- Stronger = Thinner Blades
- Thinner blades = less drag
- Less drag = Better Performance



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Casting Process

- Die casting is a [metal casting](#) process that is characterized by forcing [molten metal](#) under high pressure into a [mould cavity](#)
- Squeeze casting is a form of die casting where pressure is applied to the casting after the die has closed
- Both processes are capable of producing high quality castings
- Both are also capable of producing low quality castings
 - Depends on how well you execute your process
 - Over 70 Years of die casting experience with our own foundry in Fond du Lac Wisconsin
 - Not at mercy of outside casting vendor



How To Evaluate the Quality of an Aluminum Propeller?

- Die casting
 - Most expensive tooling
 - Most accurate
 - Highest quality surface finish
- Sand Casting
 - Poor surface finish
 - Least consistent casting method
- How can you tell the difference?
 - Surface finish is not smooth
 - Die cast propellers have parting lines where the tool separates



How to evaluate the Quality of a Propeller

- Look at the hub system - is it rubber?
 - Absorbs shock
 - Prop shops are rubber advocate\$
 - Not field serviceable – leave customers stranded
 - Move away from rubber hubs due to their lack of suitability for performance applications – tendency to spin – ruining the hub
 - Re-hubbing at prop shop only gives you 60% of the life of a new rubber hub



How to evaluate the Quality of a Propeller

- Flo-Torq II Introduced by Mercury and subsequently imitated by:
 - Solas (Rubex)
 - Michigan Wheel (XHS)
 - Turning Point (Master Torque)
 - Power Tech
- Characteristics
 - Nut, aft adapter (sometimes), drive sleeve and thrust washer



Most Advanced Hub Systems

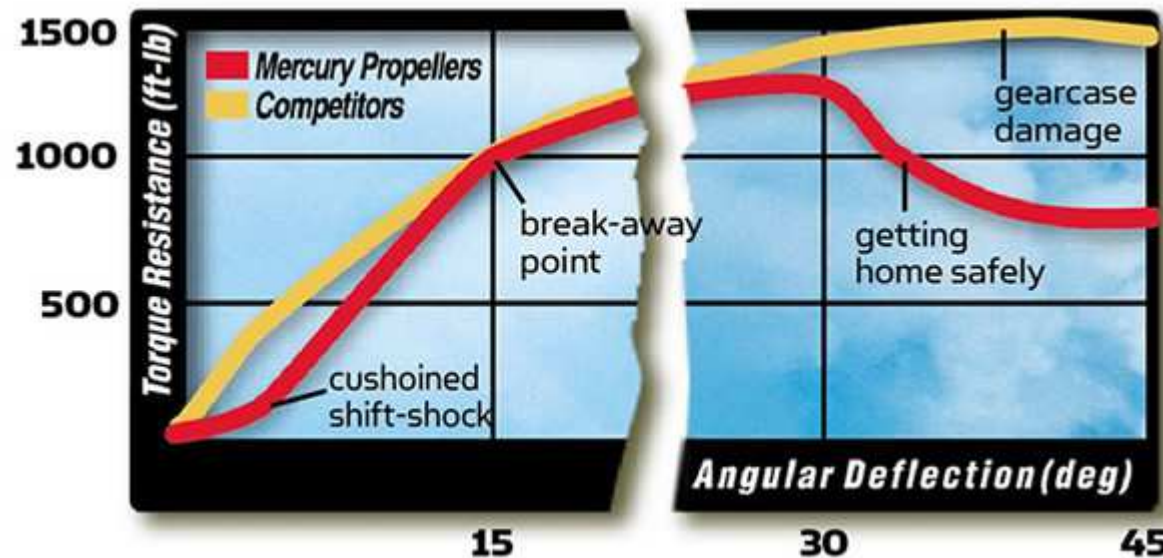
- The Flo-Torq hub is worlds first modular hub system for outboards and stern drives
- Invented by Mercury - Patented Design
- Protects lower unit from damage
- Withstands high engine heat from today's four stroke engines – stronger and longer lasting than rubber hubs
- Reduces inventory – same prop adapts to multiple engine brands
- Field serviceable – keeps customers on the water
- Quality brass and steel components – particularly where the splines meet the shaft
 - Aluminum components is the sign of a cheap product – corrosion risk



Why you want to buy a hub from an engine OEM

OEM

- Propeller companies are generally not concerned about engine protection
- Mercury is the only modular hub manufacturer that makes a hub that protects what matters – your engine!
- Gearcase damage typically occurs at 2000 ft pounds of torque



Mercury Propellers



- Best top end and acceleration available in the market – documented by professional boat drivers



- High Pressure die cast
 - Smooth surface finish and most consistent castings
 - You can tell by the parting lines



- High luster UV resistant paint with smooth surface finish no orange peel or casting flaws



- Quality Hub system with drive protection
 - Made by a company with engines in mind



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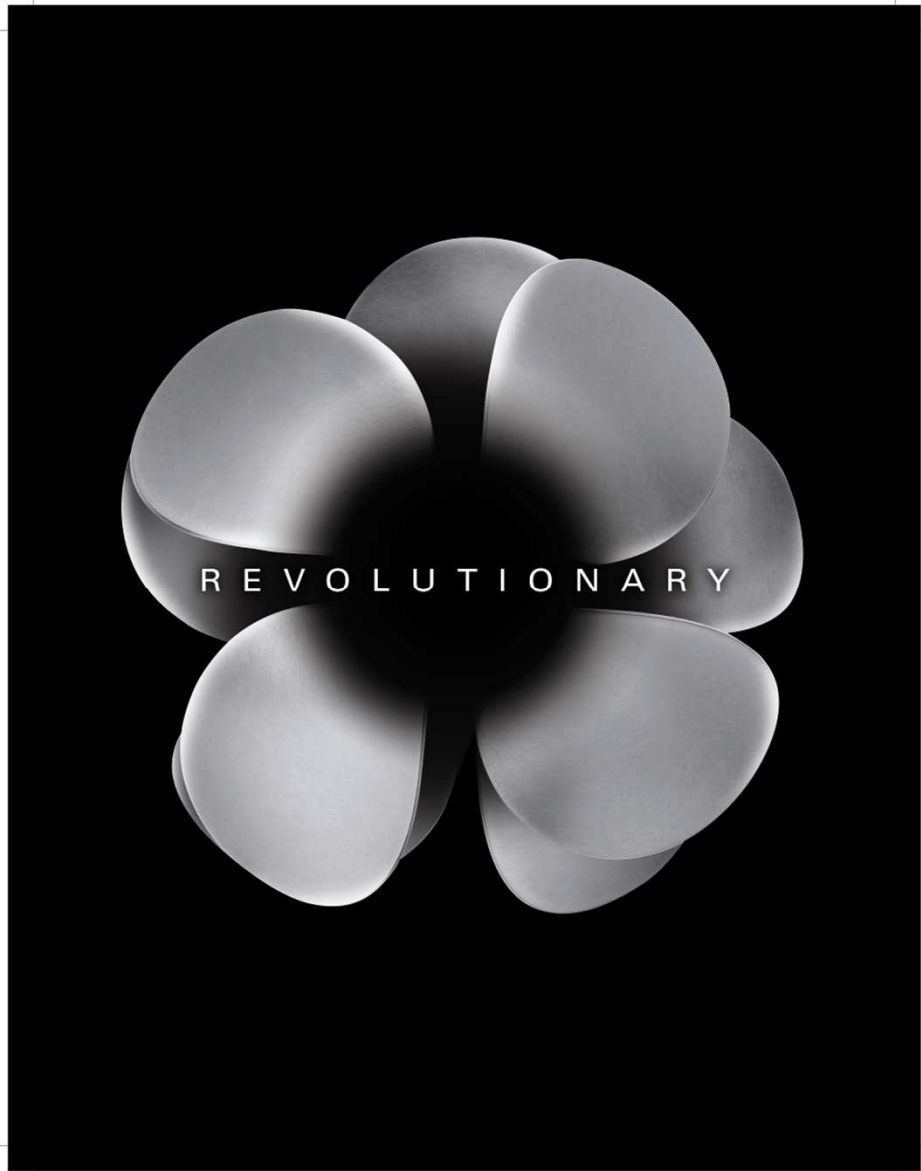
OEM Branded Product

- Q: What is the easiest product to sell?
- A: A product a customer has already used and had a positive experience with.
- Why waste time and effort down-selling a consumer to a lower margin dollar product when they are willing to pay for OEM quality?



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2011/2012 Recap



Quicksilver Thunderbolt for Volvo Penta DPS

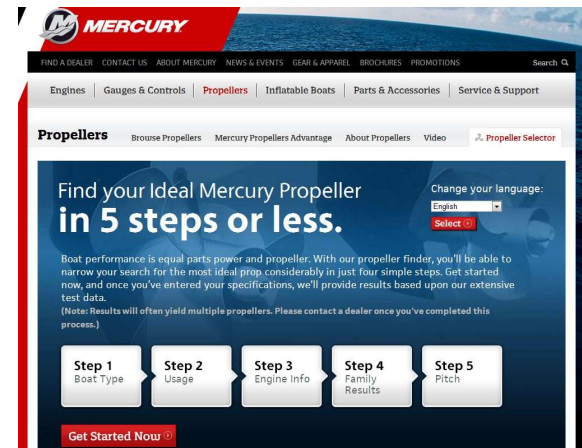
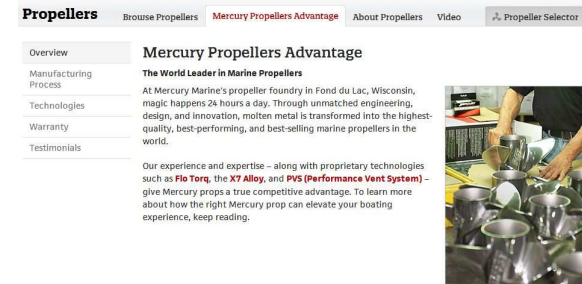
- Mercury is proud to introduce the Quicksilver Thunderbolt line of propellers for Volvo DPS drives
- The first Quicksilver Propeller engineered exclusively for Volvo DPS drives
 - Leverages Mercury Alloys & Design capabilities for top performance
- Larger-diameter 4-blade front propeller for superior acceleration and holding
- Suitable replacement for Volvo® Type F propellers
- Steel hub for easy removal!



Mercury Prop Selector

- Dedicated Mercury Propeller Website
 - Contains detailed application information for each propeller family
- New Mercury Prop Selector compatible with tablet or smart phone use
- Industry leading tool
 - Three ways to find the ideal pitch
 - Length, weight or current prop pitch + engine RPM
 - Contains all major outboard and sterndrive manufacturers

<http://www.mercurymarine.com/propellers/prop-selector/#>

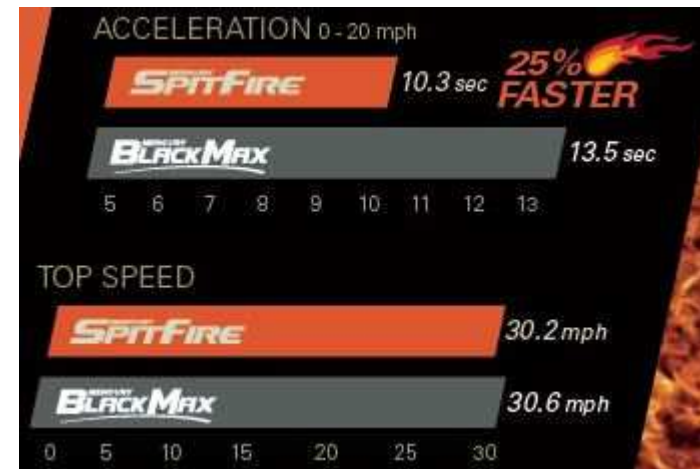


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Introducing the Spitfire – State of the art aluminum prop

- New for 2012
- The Ultimate 4 Blade Performance propeller – Up to 25% faster acceleration and unbelievable holding with no compromise in top speed
- **Technology** – Features design elements from Mercury’s latest high performance designs:
 - Reduced diameter high blade area design with very aggressive cup allows prop to spin up quickly for amazing holeshot
 - Straight trailing edge (like a racing cleaver) for tenacious holding
- Fitment for 25-125 HP Mercury and competitive outboards



Introducing the Spitfire

- The Spitfire is two lines of product designed to meet the needs of specific customers:
 - **Spitfire:** for deep-V boats
 - **Spitfire Pontoon:** The best pontoon prop in the Quicksilver line up, featuring the extra holding and lift to wake up the performance of your pontoon
- Hub Systems:
 - 40-60 Bigfoot, 75-115 HP Propellers use Flo-Torq II hubs (not included)
 - 40-60 Standard Gearcase use Flo-Torq Reflex hub systems (included)
 - 25-30 HP Propellers use rubber hubs (included)
- All propellers are available now
 - Pontoon propellers and 40-60 HP propellers have been selling very well



INTRODUCING MERCURY'S NEWEST ALUMINUM PROPELLER
The Spitfire provides the ultimate performance available in an aluminum propeller. Spitfire is up to 25% faster from 0-20 mph with no penalty in top speed, while providing toracious holding that will keep you on plane even during tight turns.

ACCELERATE AWAY FROM THE COMPETITION
The 4-blade design allows Mercury engineers to pack more blade area within a smaller diameter. Keeping diameter low allows the prop to spin up quickly for unbelievable holeshot. Mercury borrowed the Spitfire's low-diameter, high-blade area design from Mercury's Eternia and Fury stainless steel propellers. This design formula provides unheard-of acceleration while still maintaining the top end speed that made the Black Max the world's #1 aluminum propeller.

HOLD ON!
The Spitfire's designed from the ground up to be the best-handling aluminum propeller Mercury has ever produced. The Spitfire features an extra cup design coupled with a straight leading edge laminate to Mercury Racing's Cleaver® for ultimate holding even in the tightest maneuvers.

Visit your local Mercury Dealer or Mercury's industry-leading prop selector at mercurymarine.com to find the Spitfire that is right for you.

SET THE WATER ON FIRE.



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Propeller extensions



MERCURY
Revolution
4

REVOLUTION 4

New 15 pitch left hand 4 blade propeller

- Adds left hand option for popular 15 pitch size
- Ideal for twin engine center consoles
- Fits outboards and sterndrives 135 HP and up
 - 14.6 X 15P LH P/N 8M0064449

New 20 pitch right and left hand 4 blade propeller

- Excellent holding acceleration and top speed
- Ideal for offshore center consoles, sterndrives and deep-v walleye boats
- Perfect fit with new Verado gearcase
 - 14.6 X 20P RH part number 8M0070052
 - 14.6 X 20P LH part number 8M0070051

MERCURY
ENERTIA

ENERTIA

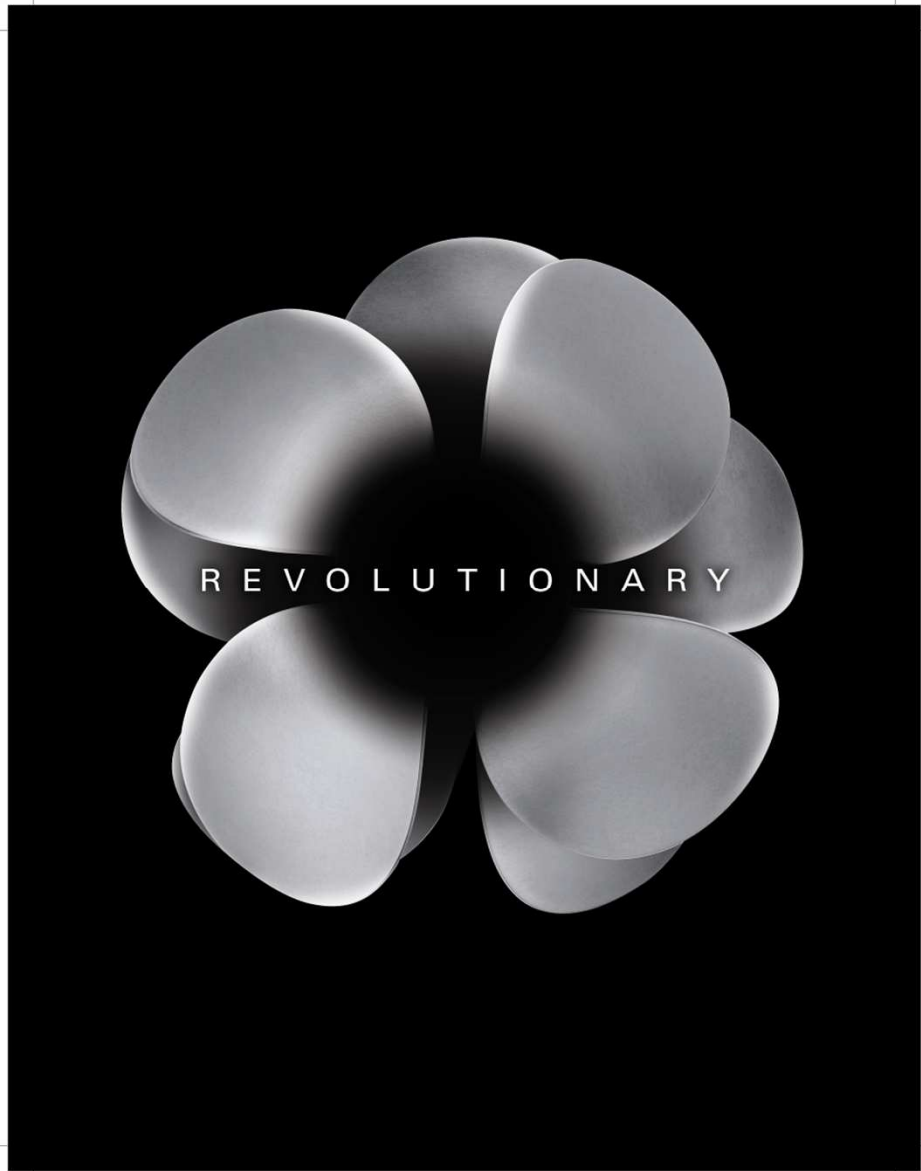
New 11 and 13 Pitch right and left hand propellers
– projected availability November 2012

- Great options for pontoons, tri-toons and commercial applications
- Left propellers provide fitment options for twin engine applications all the way down to 11 pitch
- Features Mercury's proprietary X7 alloy
- Fits outboards and sterndrives 135 HP and up
 - 15.6 X 13P RH Part number 8M0070074
 - 15.6 X 13P LH Part number 8M0070076
 - 16.0 X 11P RH part number 8M0070079
 - 16.0 X 11P LH part number 8M0070077



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2013 Product Update



2013 Prop Preview

Bravo Two Aluminum Propellers

- Introduction of 11, 13, 15, 17 and 25 pitch right and Left Hand Aluminum Propellers into Mercury line-up
 - Joins 19, 21 and 23 pitch aluminum propellers
 - Investment cast with rubber hub
 - Complete range of aluminum props for the legendary Bravo Two Drive
 - Features Mercalloy aluminum Alloy
- Marketing collateral to follow
- Sizeable demand for service requirements



| | DESCRIPTION | P/N |
|-----|--------------------|----------|
| NEW | 17.25 X 25 RH 3 BL | 18620A40 |
| NEW | 17.25 X 25 LH 3 BL | 18621A40 |
| | 17.5 X 23 RH 3 BL | 18618A40 |
| | 17.5 X 23 LH 3 BL | 18619A40 |
| | 17.75 X 21 RH 3 BL | 18616A40 |
| | 17.75 X 21 LH 3 BL | 18617A40 |
| | 18.25 X 19 RH 3 BL | 18614A40 |
| | 18.25 X 19 LH 3 BL | 18615A40 |
| NEW | 18.75 X 17 RH 3 BL | 18612A40 |
| NEW | 18.75 X 17 LH 3 BL | 18613A40 |
| NEW | 19.25 X 15 RH 3 BL | 18610A40 |
| NEW | 19.25 X 15 LH 3 BL | 18611A40 |
| NEW | 19.5 X 13 RH 3 BL | 18608A40 |
| NEW | 19.5 X 13 LH 3 BL | 18609A40 |
| NEW | 20.0 X 11 RH 3 BL | 18606A40 |
| NEW | 20.0 X 11 LH 3 BL | 18607A40 |

Available : September 2013



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2013 Prop Preview

Bravo Three Propellers for Diesel engines

- Designed for use on heavier boats with high horsepower diesel engines.
- A large-diameter four-blade front propeller, coupled with a smaller diameter three-blade rear propeller, provides unmatched acceleration, tracking and handling with diesel applications.
- Extra cup built in to the trailing edges of both front and rear props captures the torque generated by today's turbocharged diesel engines.
- The best-performing propeller for diesel engines matched to Bravo III drives.
- **Available now!**

MERCURY
BRAVO
Three Diesel



| DESCRIPTION | P/N |
|-----------------------------|-----------|
| 21P FRONT 16.0X21P 4BLD LH | 8M0074865 |
| 21P REAR 15.0X21P 3BLD RH | 8M0074866 |
| 23P FRONT 16.0X23P 4BLD LH | 8M0074867 |
| 23P REAR 15.0X23P 3BLD RH | 8M0074868 |
| 25P FRONT 15.75X25P 4BLD LH | 8M0074869 |
| 25P REAR 14.75X25P 3BLD RH | 8M0074870 |
| 27P FRONT 15.5X27P 4BLD LH | 8M0074871 |
| 27P REAR 14.5X27P 3BLD RH | 8M0074872 |



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PVS - Performance Vent System

- With PVS, now you can get Mercury performance, Mercury power and Mercury acceleration – no matter what engine you run.
- The Performance Vent System® is an EXCLUSIVE Mercury innovation that allows you to "custom tune" the venting of your propeller blades – giving you the power to adjust your propeller to the way you boat.
- The propeller is directly responsible for how your boat reacts in the water. PVS™ allows you to adjust for changes in load and environment simply by changing the propeller's vent plugs for optimum acceleration.



PVS - Performance Vent System

- On acceleration, exhaust is drawn out of the vent hole. When the propeller blade strikes this aerated water, it pushes through it much easier than it would solid water – causing engine rpm to increase more rapidly. Once you're on plane, the water flows over the vent holes and seals in the exhaust, allowing the propeller to again operate in solid, non-aerated water.
- Just by varying the size of the exhaust hole and controlling your engine's rpm, you can eliminate sluggish performance or compensate for changes in load and altitude. And it's technology that you can only get with Mercury Propellers.



Propellers with PVS: Maximus / Laser II / Trophy Plus / Tempest Plus / Mirage Plus / VenSura / Revolution 4 / HighFive / Enertia



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Mercury PVS Overview

Most acceleration problems can be addressed using the following PVS venting options:

Problem: Too much ventilation is slowing you down.

Solution: By sealing off the vent hole completely, your prop can now get the solid water it needs to propel through, optimizing performance and fuel efficiency.

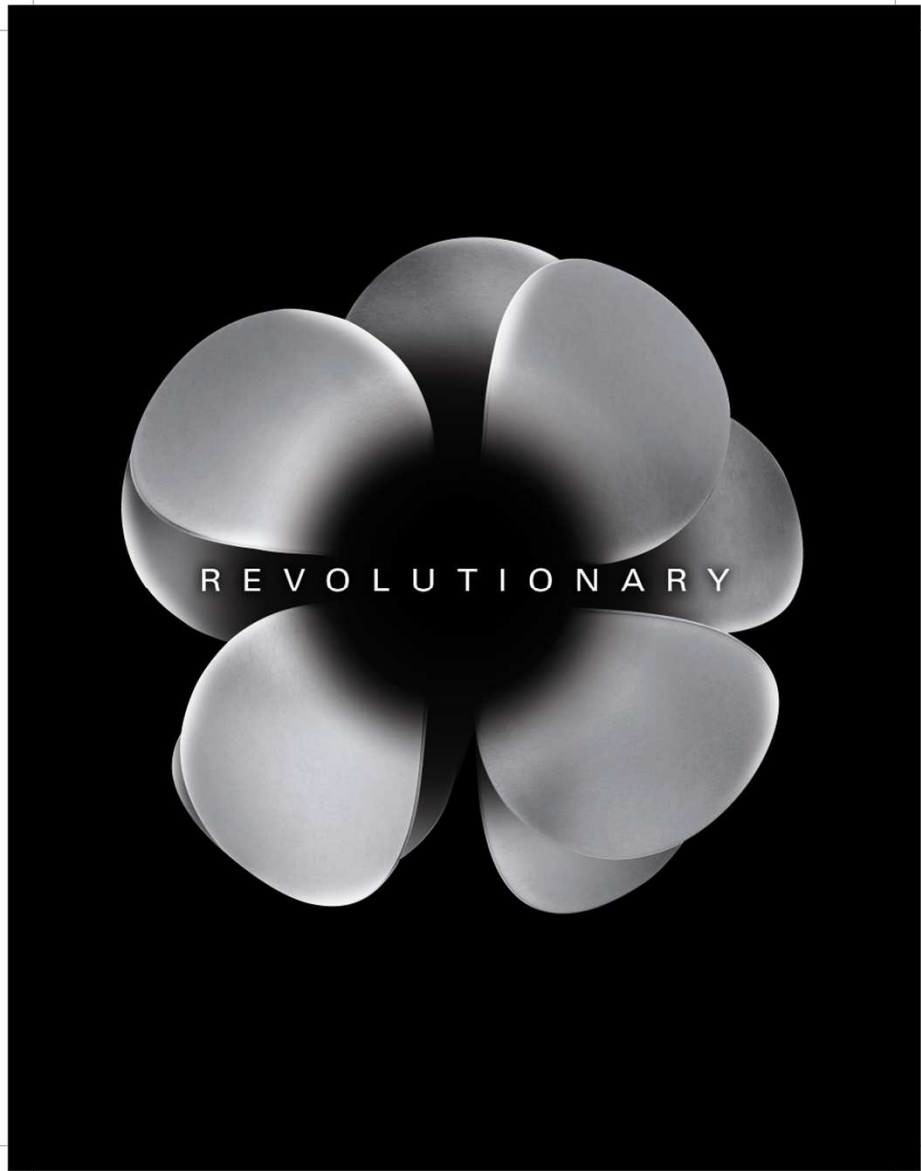
Problem: Boat is sluggish getting on plane.

Solution: By using a large vent and allowing more air through, your engine's RPM get up to speed faster, and your boat levels off quicker.

Problem: Changes in altitude or pulling heavier loads.

Solution: By experimenting, you can find the right amount of ventilation that produces maximum propeller performance – no matter the altitude, load or temperature.





Appendix & Product Line Reference



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Aluminium Series



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MERCURY MARINE
BLACK MAX

The world's best-selling propeller.

Aluminum Series: Black Max ▾

Overview

Specifications

Documents

Black Max

It's not just an average aluminum propeller – there is a reason the Black Max is the world's best-selling propeller! No other prop on the market today provides as much performance, durability, and value as a Black Max aluminum propeller. It's designed to be the perfect complement to a Mercury outboard or MerCruiser stern drive – that's the reason Black Max propellers are installed as original equipment by more boat builders than any other propeller in the world.



- Available in 6- to 23-pitch
- Right-hand rotation
- Fits all Mercury outboards (2.5 horsepower and above), Alpha and Bravo One stern drives
- Recommended for engines with less than 250 horsepower and a top speed of less than 50 MPH



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Aluminum Series: Alpha 4 ▾

Overview

Specifications

Documents

Alpha 4

The Alpha 4 aluminum propeller provides four-blade performance and acceleration at an affordable price. The Alpha 4 is an outstanding propeller for stern drive-powered runabouts, as well as cruisers. With an Alpha 4, your boat will get on plane quicker and stay on plane at lower speeds than with a comparable three-blade propeller. The Alpha 4 is also an excellent water sports prop.

- Available in 16-, 18- and 20-pitch
- Right-hand and left-hand rotation
- Fits outboards (135hp and above), Alpha and Bravo One stern drives
- Recommended for inline 4, V6- and V8-powered stern drives.



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Aluminum Series: SpitFire ▾

Overview

Specifications

Documents

SpitFire

Once again Mercury Propellers has re-written the rules of propeller design and engineering. Who says you have to compromise top-end speed to get the acceleration and holding of a four-blade propeller? With the Spitfire you can finally have both!

Spitfire's breakthrough design features the most aggressive geometry available in an aluminum propeller. It has more cup for best-in-class acceleration and holding, and tenacious grip in turns. Its high-rake, reduced diameter design helps maintain top-end speed.

- Spitfire for deep-v aluminum fishing boats powered by 25hp to 125hp outboards
- Spitfire Pontoon - the best pontoon prop in the Mercury line up, featuring the extra holding and lift to wake up the performance of your pontoon run by a 40hp to 60hp BigFoot or 75hp to 125hp outboard



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Sport Series



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Sport Series: Vengeance ▾

Overview

Specifications

Documents

Vengeance

The Vengeance is Mercury's general-purpose line of stainless steel propellers – providing Mercury quality and amazing durability at a price that represents real value for the dollar. The Vengeance provides increased top speed, acceleration, and durability versus a comparable aluminum prop.

- Available in 9- to 23-pitch
- Right-hand rotation (select left-hand rotation propellers also available)
- Fits all Mercury outboards and Alpha and Bravo One stern drives



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MERCURY MARINE
Laser II

The original choice for outboard-powered bass boats under 200 hp

Sport Series: Laser II ▾

Overview

Specifications

Documents

Laser II

The one that started it all. The large-tube Laser (135 horsepower and up models) is ideal for smaller 15- to 18-foot bass boats with 135 - 200hp engines. The small-tube Laser is the perfect complement for 75 - 125hp bass boats and aluminum deep-V fishing boats where speed is a priority. All Laser models feature Mercury's PVS venting system for outstanding holeshot, and the propeller itself features thin, high-rake blades for outstanding bow lift.



- Available in 19- to 26-pitch
- Right-hand rotation (select left-hand rotation propellers also available)
- Fits outboards 75hp and up, and Alpha and Bravo One stern drives
- Recommended for outboard-powered bass boats with less than 200 horsepower and 75 - 115hp aluminum deep-V boats



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VenSura MERCURY MARINE

Ocean-going durability for large outboard applications, single or twin.

Sport Series: VenSura ▾

Overview

Specifications

Documents

VenSura

The VenSura is a tough, durable saltwater propeller for single or twin outboard applications, 135hp and above. The VenSura's four-blade design delivers better acceleration and holding than a three-blade propeller. The VenSura's geometry provides strong bow lift – even in rough seas.

- Available in 17- to 23-pitch
- Right-hand and left-hand rotation



Elite Series



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Aluminum Series: Bravo Two - Aluminum ▾

Overview

Specifications

Documents

Bravo Two - Aluminum

When you need enhanced mid- to top-end performance, the three-blade Bravo Two propellers step up to the plate. A large blade area provides maximum thrust, and their beefy design gives excellent maneuverability and better holding in turns.

- Aluminum Bravo Two propellers available from 11- to 25-pitch in right-hand and left-hand rotation
- Fits all Bravo Two stern drives





MERCURY **BRAVO** Three

Amazing performance for
contra-rotating drive systems.

Elite Series: Bravo Three ▾

Overview

Specifications

Documents

Bravo Three

This amazing twin-propeller, contra-rotating system is standard equipment on Bravo Three drives. A large diameter four-blade front propeller coupled with a smaller diameter, three-blade rear propeller provide unbelievable acceleration, straight tracking, fuel economy, and precise handling around the dock.

- Sets available from 19- to 30-pitch
- Left-hand forward propeller and right-hand rear propeller
- Available in hi-polish and matte finish
- Fits all Bravo Three stern drives





MERCURY MARINE
HIGH FIVE

Its five-blade design stays hooked up when the going gets rough.

Elite Series: High Five

Overview

Specifications

Documents

High Five

Whether you're pulling skiers or hauling to your favorite fishing hole, Mercury's groundbreaking High Five propeller offers class-leading acceleration. Its five-blade design pulls strong and smooth, even in rough water. The High Five is an excellent fit on V6-powered stern drive runabouts where tow sports are a priority. Among freshwater fishermen who fish in rough water, the High Five has a very loyal following due to the excellent holding of the five-blade design – a propeller that will stay hooked up even when the going gets rough.

- Available in 17-, 19-, 21-, 23- and 25-pitch
- Right-hand rotation
- Fits all outboards 135 horsepower and up, and Alpha and Bravo One stern drives
- Recommended for V6-powered stern drive runabouts and outboard-powered freshwater deep-V fishing boats



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Elite Series: Mirage Plus ▾

Overview

Specifications

Documents

Mirage Plus

The Mirage Plus is the best-selling high-horsepower propeller in the world. More offshore boat companies recommend the Mirage Plus than any other performance propeller. The large-diameter high-output blade geometry provides outstanding acceleration and top speed across a wide variety of applications. From twin- and triple-outboard-powered center consoles to V8-powered stern drive sport boats, the Mirage Plus does it all – and fast!

- Available in 13- to 29-pitch in two-inch increments
- Right-hand and left-hand rotation
- Available in:
 - Standard 1" hub shaft (-A46 versions)
 - Steel hub 1" shaft (-A56 versions)
 - Steel hub with 1 ¼" shaft for XR applications (-A56 versions)
- Fits outboards (135hp and above); Alpha and Bravo One stern drives



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Elite Series: Tempest Plus ▾

Overview

Specifications

Documents

Tempest Plus

Designed for bass and tournament multispecies/walleye boats 19 feet and longer, with 135hp and larger engines, the Tempest Plus is designed to make big boats go fast. Its high rake and bigger cup allow for outstanding lift and handling. That's why more freshwater tournament fishing rigs run Tempest than any other propeller.

- Available in 17- to 29-pitch
- Right-hand rotation (select left-hand rotation propellers also available)
- Fits outboards (135hp and above); Alpha and Bravo One stern drives
- Recommended for outboard applications 135hp and above
- The 17-pitch brings the Tempest Plus's top-end performance to the popular 17-pitch size, while the 22-pitch is just right for faster boats that need a little more prop



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Elite Series: Trophy Plus ▾

Overview

Specifications

Documents

Trophy Plus

The Trophy Plus has a four-blade steel design that provides incredible bow lift for bass and flats boats that run at high drive heights. Its four-blade design provides quick holeshoot, stable handling at high speeds, and holds better than a three-blade propeller in tight turns – inspiring confidence on the water when the speeds get high.

- Available in 17- to 29-pitch
- Right-hand rotation
- 17- to 19-pitch recommended for 75 -115hp outboards on multi-species, bass or flats boats
- 21- to 29-pitch recommended for 135 and higher horsepower outboard-powered bass boats



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Elite Series: Trophy Sport ▾

Overview

Specifications

Documents

Trophy Sport

The Trophy Sport is the ideal propeller for bay and flats boats using 40 - 60hp outboards. Its four-blade design provides quick holeshot, stable secure handling, and holds better than a three-blade propeller in tight turns – inspiring confidence on the water.

- Available in 12 to 15-pitch
- Right-hand rotation
- Fits 40 through 60 horsepower (non BigFoot) outboards
- Recommended for bass, flats and walleye boats



Competition Series



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Comp Series: Bravo I ▾

Overview

Specifications

Documents

Bravo I

The Bravo I four-blade stainless steel propeller is included as standard equipment on more go-fast stern drive boats than any other high-performance propeller. The Bravo I is an ideal fit for high-speed high-drive-height stern drive applications and provides outstanding performance on catamarans and boats with stepped hulls.

- Available in 22- to 36-pitch
- Right-hand and left-hand rotation
- Available in:
 - Standard hub 1" shaft (-A46 versions)
 - Steel hub 1: shaft (-A55 versions)
 - Heavy-duty steel hub with 1 3/4" shaft for XR applications (-A65 versions)
- Fits outboards (135 + horsepower and above), Alpha and Bravo One stern drives
- Recommended for big-block V8-powered stern drives with high-performance hulls (cats and stepped hulls)



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Comp Series: Enertia ▾

Overview

Specifications

Documents

Enertia

The Enertia is a revolutionary propeller that improves both acceleration and top speed on center consoles, high-horsepower pontoons, and stern drive-powered runabouts. The Enertia was the first Mercury propeller to utilize the added strength and durability of Mercury's X7 alloy, which is 30 percent stronger and four times more durable than conventional steels. X7 allowed Mercury's propeller engineers to develop a propeller with thinner blades and higher rake angles – surpassing what is possible with traditional steels.

- Available in 14- to 22-pitch, in one-inch increments
- Available in right-hand and left-hand rotation (left-hand only available in 15-, 17-, 19- and 21-pitch)
- Fits all outboards 135hp and up. Alpha and Bravo One stern drives



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Comp Series: Fury ▾

Overview

Specifications

Documents

Fury

Mercury's state-of-the-art tournament bass propeller, the revolutionary Fury measurably improves acceleration and top speed on bass boats powered by 200hp and higher outboards. Mercury's testing revealed an increase of 1.4 MPH and 12 percent faster holeshot. The Fury is Mercury's top-of-the-line bass propeller and the first bass boat propeller to utilize the added strength and durability of Mercury's X7 alloy. X7 is 30 percent stronger and four times more durable than conventional stainless steel. This revolutionary alloy allowed Mercury's engineers to develop a high rake, reduced-diameter design that would be impossible with conventional materials.

- Available in 24-, 25-, 26- and 27-pitch
- Right-hand rotation
- Recommended for bass boats with outboards 200hp and above



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MAXIMUS
MERCURY MARINE

The Ultimate in Five-Blade
Performance.

Comp Series: Maximus ▾

Overview

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Maximus

The five-blade ultimate high-performance propeller ideally suited to power step-v hulls, v bottoms and cats with high drive heights equipped with 496 MAG H.O., 8.2 MAG H.O. or Mercury Racing engines coupled with Bravo One or Bravo One XR stern drives. If moving from a Bravo I propeller, it is recommended to drop down two inches of pitch.

- Available in 24- to 34-pitch in two-inch increments
- Right-hand and left-hand rotation
- Recommended for Bravo One and Bravo One XR stern drives with big block power





Comp Series: Revolution 4 ▾

Overview

Specifications

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Revolution 4

The Revolution 4 is the four-blade cousin of the legendary three-blade Tempest Plus. The Revolution 4 is an outstanding match for outboard-powered walleye boats, single- or twin-outboard-powered center consoles, and stern drive-powered deck or sport boats. The aggressive four-blade design provides outstanding holeshot and improved midrange over the Mirage Plus.

- Available in 15- to 25-pitch in two-inch increments
- Right-hand and left-hand rotation
- Fits outboards (135hp and above); Alpha and Bravo One stern drives



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Literature

2013 Propeller Guide (See download center)

Accessories Guide (English) including propeller tab (8M0075126)

Propeller consumer guide (8M0060095)



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