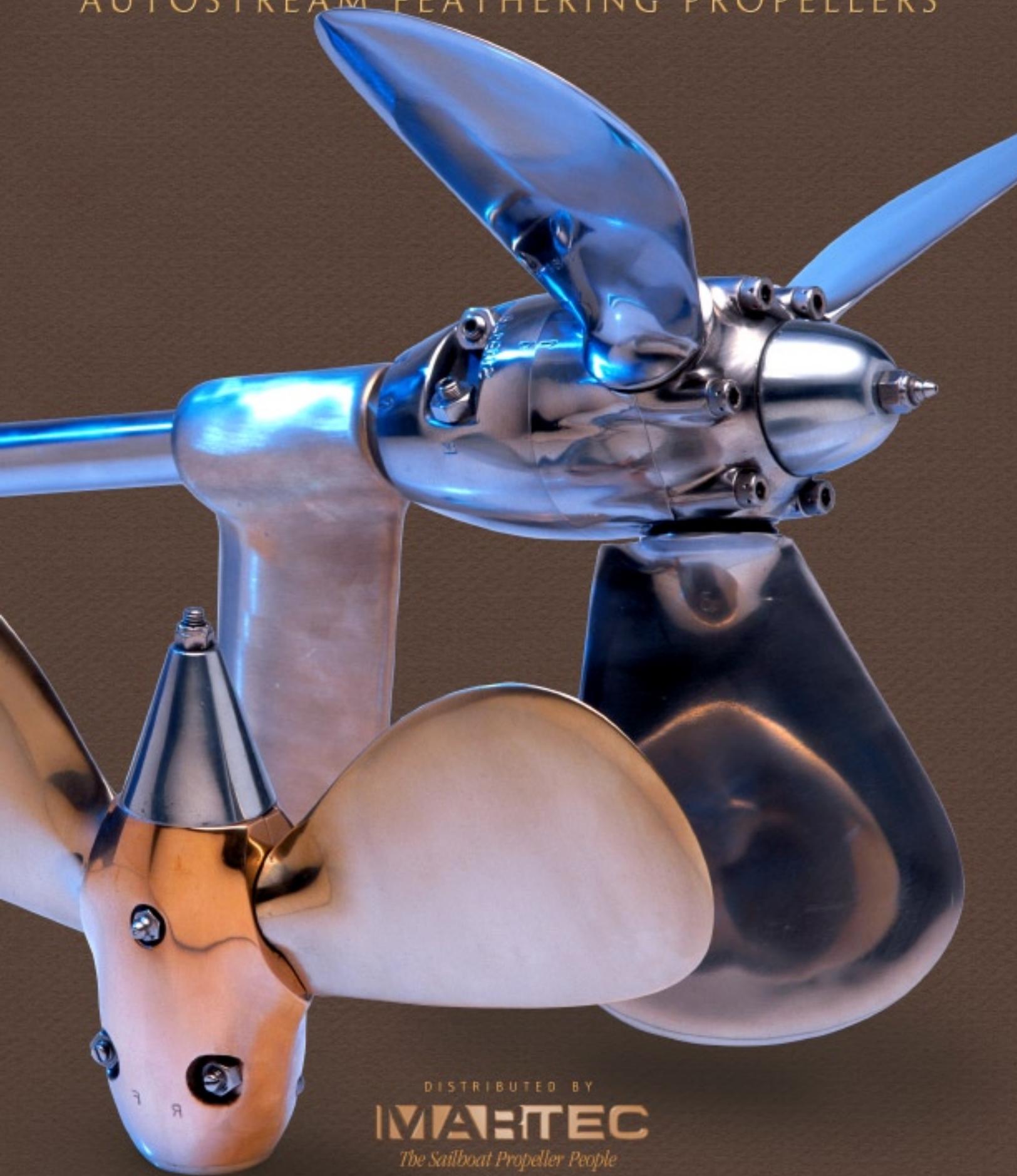


AUTOSTREAM FEATHERING PROPELLERS



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*The Sailboat Propeller People*

# “AUTOSTREAM® 3-BLADE STAINLESS GREATER STRENGTH, LONGER SERVICE A

## ABOUT PROPELLERS

**M**artec solves the problem of feathering propellers for racing and cruising with its Autostream® line of two and three blade feathering propellers. The

## FORWARD THRUST

The large blade area of the Autostream® and the ability to easily adjust the pitch allows the propeller to be “tuned.” With tuning, the Autostream can optimize both performance and fuel consumption to achieve efficiencies comparable to that of the appropriate fixed blade propeller.

CUT-AWAY VIEW · SHAFT MODEL



Autostream® is the logical and performance alternative for both moderate and heavier displacement sailboats; particularly for hulls with either a modified fin or full keel. And when compared to a fixed prop, the Autostream® significantly reduces drag while improving reverse performance.

The three-blade model is also available for “Saildrive” engine installations and may be fitted to Volvo, Yanmar or Bukh saildrives. The Saildrive models’ unique fail-proof cushion hubs absorb shock. And unlike other types of propellers, they cannot fail and leave you without drive.

For flexibility, the stainless model Autostream Propellers can be assembled in either a right or left hand configuration. When this is combined with the capability to make pitch adjustments to the same propeller, the result is that the same Autostream® feathering propeller may still be used with a replacement engine, even if the propeller shaft rotation should change direction.

## REVERSE THRUST

Excellent backing down characteristics are the hallmarks of the Autostream® series. They are among the most effective feathering propellers designed for changing from forward to reverse. Autostreams® rotate their blades 180 degrees on their axes in less than one shaft revolution. The propeller presents the same leading edge of the blade in both directions. The result: extraordinary reverse performance compared to folding, fixed blade and even self-pitching propellers.

In most installations the Autostream® equipped yacht can stop within it’s own length from speeds of six knots or more in emergency situations. And unlike some feathering propellers requiring “factory-authorized” adjustments, the reverse pitch can be owner-set to allow for precise adjustment to reduce prop walk.

# FEATHERING PROPELLERS PROVIDE AND MORE FEATURES AT LOWER COST”

Gary Beck, Martec Engineering

## DRAG

No expensive shaft lock is required to be fitted with an Autostream®. The propeller feathers itself and stays in the feathered position until rotated by the engine. This results in very low drag... even in light winds, when it is most noticeable.

## GENERAL FEATURES

We investment cast the standard Autostream body from 316 stainless steel. The main gear and blades are fabricated from high-strength grade 2507 duplex stainless steel, allowing us to create substantially thinner, symmetrical blade sections that are virtually flat minimizing drag and turbulence over the rudder. All components are carefully engineered for maximum corrosion protection.

Larger gears provide increased reliability and strength. Instant forward and reverse adjustment by external screws means no haulout to dismantle the prop. Lubrication is through a zerk fitting. Easily changed Delrin® bearings provide many years of service life while eliminating expensive rebuilds.

O-ring seals on gears and blades prevent loss of grease, while each blade has two bearings for maximum rigidity and increased bearing life. Even the easily replaced zinc anode (with a stainless core) is designed to reduce turbulence.



"FOR MOST CRUISERS WE WOULD RECOMMEND A FULLY-FEATHERING PROP AS THE ULTIMATE REPLACEMENT"

Ralph Naranjo and Joe Minik, "Propelling Performances" *Cruising World Magazine*, June, 1996

## AUTOSTREAM® FEATURES

- Simple screw and locknut adjustments may be easily performed underwater, eliminating expensive haulouts to dismantle the prop.
- Replaceable bearings throughout
- Independent forward and reverse pitch adjustment allows optimum ahead pitch and fine reverse pitch
- Superior propulsion astern over folding, fixed blade and self pitching propellers
- Each blade has 2 bearings for greater rigidity resulting in smoother operation and increased life
- Five year warranty
- Seals on blades and main gear to retain grease and ensure correct lubrication
- Propeller sizes 15"-20" (380-508mm) diameter
- Shaft sizes to 1 3/8" (35mm) diameter
- Constructed using 316 and 2507 grade stainless steel
- Single point greasing lubricates entire propeller
- Sacrificial anode with stainless steel core gives maximum electrolysis protection
- Assembly screws lockwired for security
- Rated to 80hp (60kw)

## EACH IS SUPPLIED READY TO FIT WITH

- One spare anode
- One hexagon key each for pitch adjustment screws and for fastening screws
- One spare set of 'O' ring seals
- One wrench for pitch adjustment screw locknut
- One spare length of locking wire
- One propeller shaft nut
- One set of instructions for fitting

**MA:TEC**  
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