FEATHERSTREAM™ PROPELLERS

Made in Britain

darglow MARINE ENGINEERS

Average sailing speed often increased by 15%

The Darglow FeatherStream range of propellers allow your yacht to perform to its full potential in all circumstances.

FeatherStream fully feathering propellers are made in the UK by Darglow Engineering in Wareham Dorset. They range from 12" to 20" diameter, all with three feathering blades.

Perfect for confined spaces

Benefits of a feathering propeller

- FeatherStream propellers require no operating system and fit directly to the existing shaft.
- The appropriate forward or reverse drive is automatically achieved when the engine is run ahead or astern.
- In forward drive - near to fixed propeller performance, in reverse - greatly improved manoeuvring.
- When the yacht is sailing the FeatherStream automatically feathers to give minimum drag. Average sailing speed often increased by 15%.
  The shaft remains stationary and there is no need for a shaft brake.
- One big advantage of the FeatherStream range is the ability to fit into restricted apertures. Normally if there is a space for a fixed propeller, you can fit a FeatherStream propeller.

Disadvantages of fixed propellers

More than a third of the total resistance to movement experienced by a sailing yacht hull can be derived from dragging a fixed 3 blade propeller.

- If a fixed propeller is free to rotate when sailing, there will be continuous noise and consequent wear of bearings and gearbox components.
- Propeller drag will cause turbulent water-flow over the surfaces of the rudder, resulting in unpredictable steering problems.

However, the FeatherStream range of propellers is a simple solution to allow your yacht to perform to it full potential in all circumstances.

Our manufacturing process

Design. The latest 3D cad modelling technology is used by our engineering design team to ensure optimum results.

Materials. Aluminium bronze (AB2) used in the body and centre shaft, stainless steel blades, gives a perfect match in terms of longevity, bearing material and corrosion resistance.

Casting. The Investment Casting Process commences with the production of High Quality Wax Patterns from aluminium steel Injection Tool. These are then mounted onto a wax runner system and the assembled mould is coated several times with ceramic material and air-dried.
On completion, the mould is dewaxed leaving an empty shell which is subsequently fired and filled with aluminium bronze (AB2) for the body, centre shaft metal and stainless steel blades, the shell is then allowed to cool and removed.
Castings are cut from the riser/runner system, finished, the blades are then heat

Top quality engineering

treated and passed through to quality control for a rigid Inspection Programme.
The benefits of the investment casting process may be summed up by four words; **accuracy, versatility, integrity** and **finish**. Few, if any alternative metal forming methods can offer such a unique and broad spectrum of advantages

Machining. All the bodies, centre shaft and blades are CNC machined to a very high standard, allowing all components to be interchangeable.

Finishing. All FeatherStream propellers are hand finished to customers vessel specification ie: vessel type, WLL, displacement weight, engine power, gearbox ratio, shaft taper details etc. the pitch of the propeller is then set at Darglow but with the facility to fine tune by the customers if required. The props are checked for balance before final greasing and despatch.

Easy to fit and maintain

Fitting. FeatherStream propellers are manufactured to fit the existing shaft, delivered fully assembled and ready to go. They are as easy to fit as a normal propeller.

Maintenance. This is quick and easy, once a year it needs to be topped up by injecting it with grease .The zinc anode protects the propeller from electrolysis and needs to be replaced as necessary.

darglow MARINE ENGINEERS
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Acclaim for FeatherStream:

92% less drag!

YACHTING MONTHLY

'…a Feathering propeller will give at least 92% less drag than a fixed unit'
Yachting Monthly, May 2009

'…prop drag will add about 4 hours to a typical cross-Channel passage'
Yachting Monthly, May 2009

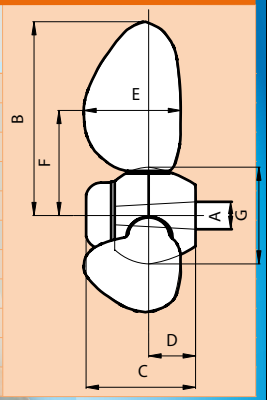
Sailing is transformed!

'…the boat achieves around 1 knot extra… the boat stops within its own length…best of all the sailing is transformed'
Mr. Buchanan

Delighted…

I am delighted with the improvement in the boat's overall performance - both under power and sail - since fitting the FeatherStream'
Mr. Okey

Propeller Diameter (inch)	Hub Type	Propeller dimensions						
		A (inch)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
12	A	1	152	115	52	95	99	88
13	A	1	165	115	52	95	99	88
14	A	1	178	115	52	95	99	88
15	A	1	190	115	52	120	109	88
16	A	1	203	115	52	120	109	88
15	B	1.25	190	134	63	120	109	100
16	B	1.25	203	134	63	120	109	100
17	B	1.25	216	134	63	120	116	100
18	B	1.25	228	134	63	120	116	100
19	B	1.25	241	134	63	134	126	100
20	B	1.25	254	134	63	134	126	100

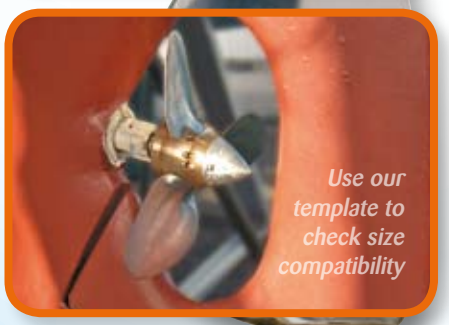


Propeller anatomy

(A-G legend refers to diagram in above table)

A = Maximum shaft diameter in inches
B = Radius of propeller
C = Hub length with short anode
D = Position of maximum propeller diameter
E = Maximum blade width
F = Position of maximum blade width
G = Hub diameter

Download your fitting template on website



Use our template to check size compatibility

12"- 16" series propeller

15"- 20" series propeller

Blades in position for run ahead

Blades in feathered position for sailing

Blades in position for run astern

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