



Airmaster

High Performance Propeller Systems

AP332

Constant Speed Feathering Propeller



Higher Performance for your Aircraft

Airmaster Propellers are setting new standards of performance and value in the light experimental aircraft market. By combining the best composite blade technology currently available, with a precise and reliable constant speed hub system, Airmaster is able to provide a unique performance enhancement to today's modern aircraft.



Mission Statement

Our aim is to produce a range of the highest quality, best performing Constant Speed Propeller systems at a reasonable cost. Our goal is for the Airmaster name to be synonymous with: Quality, Performance, Technical Innovation and Value.

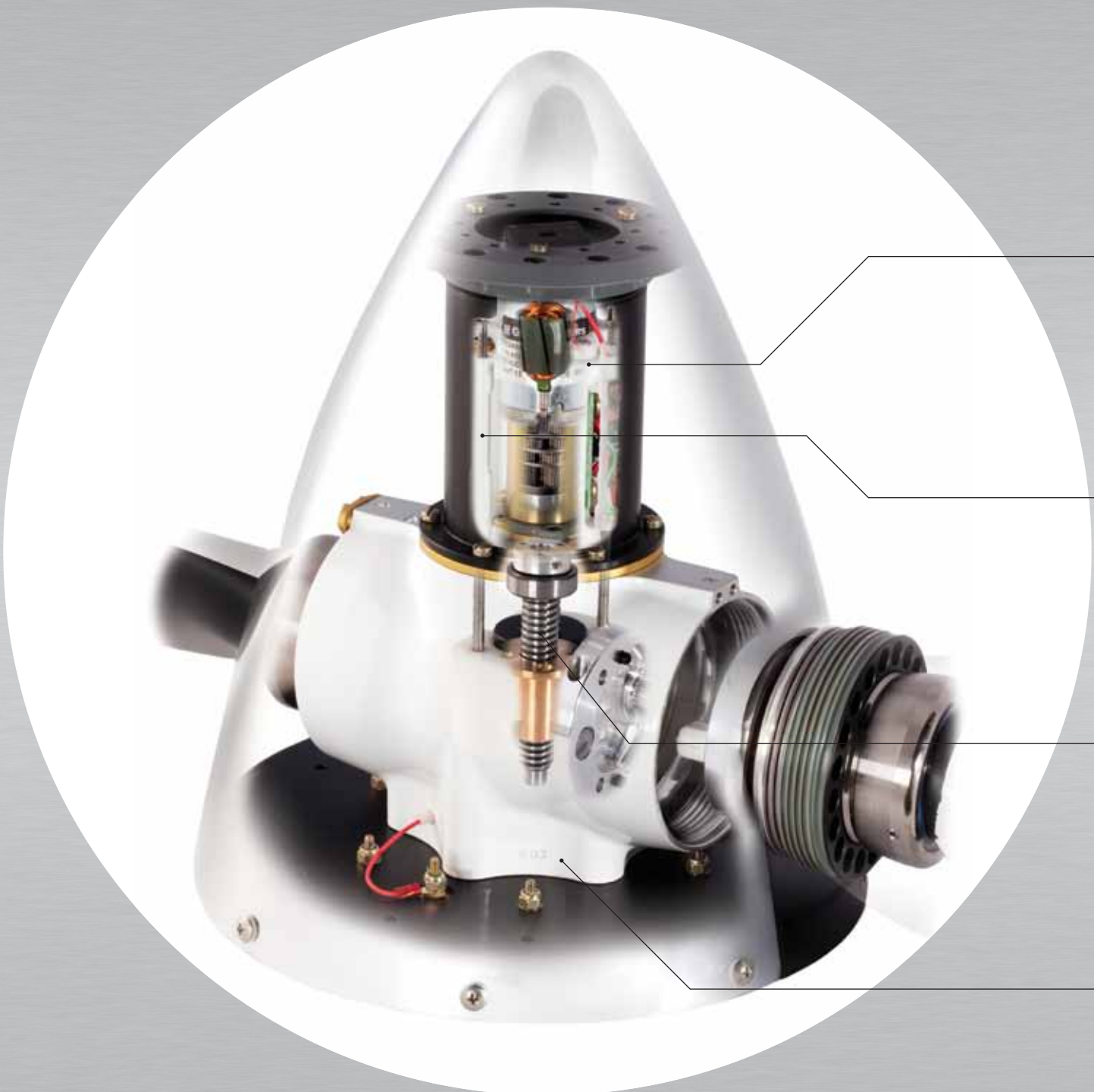


Money Back Guarantee

We place a lot of pride in the quality of our propellers and offer a money back guarantee of satisfaction in addition to the standard product warranty of two years.

We are so confident that you will be pleased with the performance and quality of your Airmaster propeller, we are willing to fully refund the purchase price any time up to sixty days after delivery.

This gives you complete buying protection and peace of mind.



Model AP420 shown for illustration purposes

Airmaster AC200 'SmartPitch' Controllers



Easy to Operate with simple selection of engine speeds for TakeOff, Climb and Cruise.



Precise Speed Control
from modern electric
'solid state' governor.

Flexible and Robust
with full manual override.

Fully Automatic Feathering
/Un-feathering functions
available.



Hold Speed adjustable in
flight to pilots requirements.



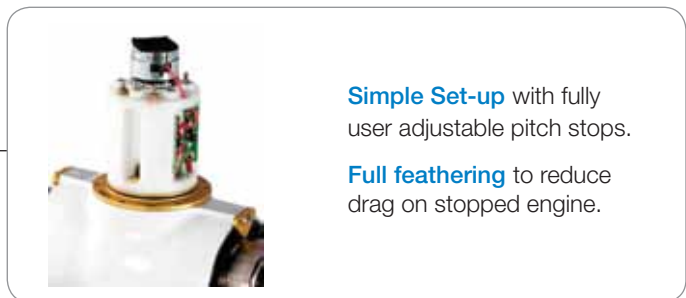
Instant Pilot Feedback
through clear indications
informing the pilot of the
propeller status.

Product Features

Each Airmaster propeller is crafted to the specific requirements of your aircraft and engine combination. We supply a full system incorporating CS hub, composite blades, CS governor, spinner, extensions, wiring and hardware.

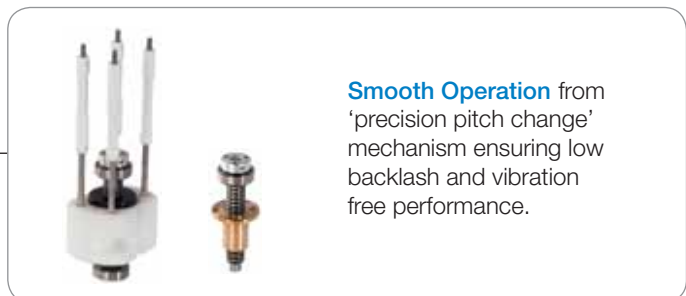


Electric Actuation by
quality Globe gearmotor
(made in USA).



Simple Set-up with fully
user adjustable pitch stops.

Full feathering to reduce
drag on stopped engine.



Smooth Operation from
'precision pitch change'
mechanism ensuring low
backlash and vibration
free performance.



Superior Strength
from fully machined,
one piece hub.



Easy Installation
and maintenance due to
removable blade cartridge.

Blade Options AP332

Industry standard composite blades by Warpdrive Inc (USA)

- Solid nickel inlaid leading edge provides excellent protection against airborne water damage.
- Robust 'solid composite' design comes with lifetime warranty from 'Warpdrive Inc'.
- Flexible design allows clockwise and anticlockwise rotation on pusher or tractor applications in diameters from 62in up to 72in (1570mm – 1828mm).
- Hard wearing flat black lacquer finish.



Spinner Options

High quality spun aluminium spinners, pre-cut and fitted in a choice of sizes and finishes of painted, polished, or matt for painting.



Mounting Options

Propeller extensions available in sizes 0.5in (12.5mm) up to 4in (100mm) to suit every engine and aircraft combination.

AP332 Specifications			
Power Capacity	Reduction gear driven engines:		120hp (89.5kW)
Maximum Speed	2500 rpm		
Maximum Diameter	Up to 72in (183cm)		
Weight	On engine weight (hub, blades, spinner, sensor/brush block):		26lb (11.8kg)
	In cockpit weight (automatic controller and cables):		0.6lb (0.3kg)
	Total Weight:		26.6lb (12.1kg)
To Fit Prop Flanges	Six hole pattern at 4in (101.6mm) PCD, with maximum OD of 5in (127mm). This includes: <ul style="list-style-type: none">• ARP502 style.• 101.6mm PCD Rotax Flange (PN 837 28# series).		
Current Applications	Rotax 912, 912S and 914. Other Engines may be suitable; please inquire.		
Controller Power	Voltage Supply:		10V - 16V DC (12V DC Nominal)
	Current Supply:	Stand-by:	0.1A
		Cycling:	0.5 – 2.0 A
		Breaker:	3A
	Protection:	Motor over-current, Reverse supply connection.	
Program Interface	USB / RS232 to PC.		
Speed Control	Take Off:	Factory preset, may be customised with serial cable and PC.	
	Climb:	Factory preset, may be customised with serial cable and PC.	
	Cruise:	Factory preset, may be customised with serial cable and PC.	
	Hold:	May be set by pilot in flight with manual switch.	
Feather cycle	Automatic feather and un-feather cycles. Manual feather if required.		
Visual Indication	Fine stop, coarse stop, feather stop, fine running, coarse running, feather running, motor over-current, system open circuit, speed signal loss.		
Installation	Controller fits standard 2-1/4" instrument cut-out.		

AP332 Options	
Diameter	Any size up to 72" maximum. Airmaster recommends that aircraft manufacturer's advice be followed. Please inquire for further advice.
Blade Options	Warpdrive Inc (USA) Standard chord or tapered chord solid carbon fibre composite blades with nickel leading edge protection.
Direction of Rotation	Clockwise, or Anti-Clockwise.
Direction of Thrust	Tractor, or Pusher.
Spinner Diameter	8.3in (210mm), 9in (228mm), 10.3in (261mm), 11.2in (284mm)
Spinner Finish	Polished aluminium, Painted White or Matt (for painting).
Programming	Kit available for reprogramming parameters. Includes MS Windows compatible program and serial cable.

Performance



An Airmaster CS Propeller System will give you:

- Higher top speed
- Shorter take-off roll
- Quicker climb
- Steeper descent
- Improved efficiency and flight range
- Quieter operation and lower pilot fatigue
- Safer flying
- Easy maintenance
- Complete backup from 'the factory' and a reseller network.

Performance tests have shown up to:

- 33% shorter ground roll
- 10% better climb than fixed pitch prop
- 20% improvement in cruise and economy

Endorsements



John Hurst - Europa XS

The Airmaster AP332 propeller has proved to be a great match for our Aircraft. The combination of the reliable hub, along with the feathering capability, provides an ideal complement to the Europa.



Bob Brook - Pelican

The installation was simple and quick, thank goodness. It works great and allows me the time to fly the plane instead of constantly having to adjust the pitch.



Jim McKenna - Catalina

The Airmaster/912S combination worked great and provided a very short takeoff distance. Amazing amount of thrust!

Contact

Contact us today to discuss your unique requirements.



Airmaster Propellers Ltd

20 Haszard Rd, Massey
PO Box 374, Kumeu
Auckland, New Zealand
Ph: +64 9 833 1794
Fax: +64 9 833 1796
sales@propellor.com
www.propellor.com