



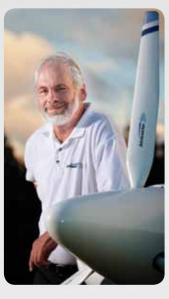
Higher Performance for your Aircraft

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.



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 for AP420

Superior blade technology from Sensenich Propeller Co (USA).

- Solid stainless steel inlaid leading edge provides excellent protection against airborne water damage.
- Aerodynamically advanced 'hollow composite' blade design for high performance and low weight.
- Superb finish quality in high gloss white with red tip and black back.
- Multiple choice of blade profiles and diameters.





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.

AP420 Specifications					
Power Capacity	Reduction gear driven, or 6-cylinder direct drive engines:			120hp (89.5kW)	
,	4-cylinder direct drive engines:			90hp (67.0kW)	
Maximum Speed	3300 rpm				
Diameter	64in (1625mm) 68in (1727mm) 70in (1778mm)				
Weight	On engine weight (hub, blades, spinner, sensor/brush block):			19.6lb (8.9kg)	
	In cockpit weight (automatic controller and cables):			0.6lb (0.3kg)	
	Total Weight:			20.2lb (9.2kg)	
To Fit Prop Flanges	Six hole pattern at 4in (101.6mm) PCD, with maximum OD of 5in (127mm). This includes: • ARP502 style. • 101.6mm PCD Rotax Flange (PN 837 28# series). • 125mm OD Jabiru Flange (PN 4525064 (standard) or PN 4610074 (2-inch extension)). Alternative flange may be supplied by Airmaster.				
Current Applications	Rotax 912, 912S and 914. Jabiru 2200 and 3300. 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:	ЗА		
	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 manual switch	ht with		
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.				

AP420 Options			
Diameter	Please inquire for further advice.		
Blade Options	Specific designs available for your application. Please enquire.		
Direction of Rotation	Clockwise / Anti-clockwise.		
Direction of Thrust	Tractor.		
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



Jim Roberts - Rans S-6

I was impressed with the quality and completeness of the propeller package. Two full turns on the fine pitch adjustment cam and I was able to hit all the published RPM numbers.



Sohrab Ghasimi - Jabiru J430

There were some significant improvements in performance as follows: 20-30% reduction in ground roll, Higher climb rate, Smoother running and an increase of cruise speed to of 15 - 20%.



Thomas Scherer - Europa Classic

I strongly recommend every owner of a small aircraft to opt for a VP and personally see no real competition for the Airmaster.

Contact

Contact us today to discuss your unique requirements.



Airmaster Propellers Ltd

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