

# PROPELLERS

## ULTRA-PROP



Select 2, 3, or 4 blade props. Each blade is moulded from a high strength glass-reinforced composite. High efficiency airfoil design means high thrust from a 59" diameter prop. One set of pitch blocks included, additional blocks available in 1° increments. Universal hubs made from high strength composite. Accommodates most popular bolt-mounting patterns. Each prop comes complete with all assembly and mounting hardware, and complete instructions. Black blades and hub are beautifully complemented by high impact polyester spinner. Blades can be trimmed to length, allowing custom prop diameters as small as 48".

Description	Part No.	Price	Description	Part No.	Price
Kit 2 Blade LH	UP102L	---	Kit 2 Blade RH	UP102R	---
Kit 3 Blade LH	UP103L	---	Kit 3 Blade RH	UP103R	---
Kit 4 Blade LH	UP104L	---	Kit 4 Blade RH	UP104R	---
Kit 5 Blade LH	05-06455	---	Kit 5 Blade RH	05-06456	---
Kit 6 Blade LH	05-06457	---	Kit 6 Blade RH	05-06458	---

## ACCESSORIES

Description	Part No.	Price
Pitch Block Set 13 DG	UP13	---
Bolt Sleeve Set	UPSLEEVE	---
Hardware Pack	UPHDW	---
Hub half 2 Blade	UP1072	---
Hub Half 3 Blade	UP1073	---
Hub Half 4 Blade	UP1074	---

## STEEL LEADING EDGE PROP TAPE



Stainless Steel leading edge tape. This part replaces the leading edge tape on the Ivoprop .....P/N 15-06059 ..... ---



## CONSTANT SPEED ELECTRONIC GOVERNOR

- Converts In-Flight Adjustable Ivoprop into the constant speed propeller
  - Plugs into existing wiring harness
  - Size: 2" x 4" x 1"
- P/N 05-00601 ..... ---

## PROPELLER ENGINE BALANCE MASTER



Balance Masters® are PATENTED, DESIGNED, MANUFACTURED AND DISTRIBUTED IN THE U.S.A. and are easy-to-install devices for propellers and Rotax engines. These devices cut the vibration factor on ultralight aircrafts by as much as 50 percent when both balancers are installed.

Balance Masters® are weighted with a high density liquid mass (Mercury). The physical principles of centrifugal and gyroscopic forces explain the action of the Balance Masters®. With the Balance Masters installed, the weighted liquid mass (Mercury) in the apparatus shifts during spinning, and adjusts to compensate for imbalances due to such factors as changes in flying conditions or warpage in the propeller, from nicks and rocks during takeoffs and landings. The Propeller Balance Masters® mounts on the propeller shaft or gear box in conjunction with the propeller. It is less than 7 inches in diameter.

The Engine Balance Master is made to fit most Rotax engines and bolts under the Starter Pulley on the Fly Wheel side of the engine. It is less than 5 inches in diameter. Each device weighs about 4 oz. Installation will take about 25-30 minutes using ordinary hand tools for each device. Balance Master is designed to fit most propeller bolt patterns and Rotax engines from 277FA through 582. We will need to know the manufacturer of your propeller and engine model to determine the right configuration.

Description	Part No.	Price
Off-Set Prop Balancer	15-05828	---
Balancer for Engine Rotax 912, 914	15-09450	---
Balancer for Engine Rotax 377, 447, 503	15-05261	---
Balancer for Engine Rotax 582, 618	15-05260	---

## POLYMER SPINNER WASHERS



Propeller spinner washers are typically made from thin nylon. They are usually replaced every time the spinner is removed because the screw pressure against the spinner curvature causes the nylon washers to fail. Instead of nylon, these washers are machined from an extruded billet of a, very tough polymer material – the toughest we make – so they won't crack or extrude.

The washers easily conform to the spinner's curved surface and will serve without replacement for a very long time. In fact, they may never need replacement! Fits a # 10 screw, with a diameter and thickness to suit the round head stainless steel screw usually used for prop spinners.

## SCREWS NOT INCLUDED PACKAGED IN BAGS OF 25

Color	Description	Part No.	Price
Yellow	Spinner Washers Pack of 25	05-12883	---
Clear	Spinner Washers Pack of 25	05-15422	---
Gray	Spinner Washers Pack of 25	05-15423	---

## HARTZELL PROPELLER HARDWARE



Description	Part No.	Price
Hartzell Prop O-Ring C-3317-228	05-11998	---
Hartzell Prop O-Ring C-3317-230	05-12380	---
Hartzell Prop Fiber Washer A-1020	05-11999	---
Hartzell Prop Screw B-3845-8	05-12001	---
Hartzell Prop O-Ring C-3317-028	05-12509	---
Hartzell Propeller Nut B-3808-4	05-21990	---