

SER# R3223 66" 3 BLADE

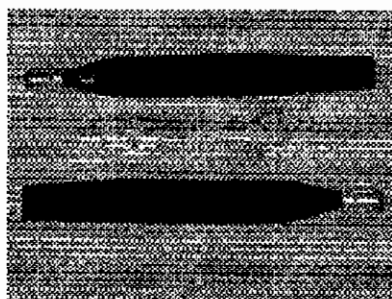
WarpDriveProps.com

**HOVERHAWK CORPORATION IS YOUR WORLD-WIDE
CONNECTION FOR WARP DRIVE CARBON FIBER
COMPOSITE PROPELLERS, REPLACEMENT BLADES AND
PARTS**

**Warp Drive Propellers, Parts, Replacement Blades and
Accessories**



Warp Drive 2-Blade Standard
Prop



Warp Drive 2-Blade HPL Prop
(clamping hardware not shown)



Warp Drive 3-Blade Standard
Prop

"We ship to every location around the globe"

**Call 251-609-0969 for a propeller suggestion for your application,
send a fax to 815-346-5300, click [HERE](#) to send us a request for a
propeller suggestion and quote, or to place your order. Contact us by
E-MAIL with your questions.**

We are a **world-wide distributor** for Warp Drive carbon fiber propellers and offer factory-direct pricing to our customers. These props are made of a solid carbon fiber matrix (no foam core), have ground adjustable pitch and can be configured with 2 to 12 blades. They may be used on most home-built, experimental and ultralight aircraft, including airboats and hovercraft. These props are compatible with most engines. Warp Drive manufactures propellers for applications where engine horsepower far exceeds 115 hp unlike some sport propeller manufacturers. Warp Drive, Inc. offers a **lifetime guarantee of complete satisfaction** to the original purchaser on all of their propellers.

Plate

ALL CARBON FIBER CONSTRUCTION: All Warp Drive Propellers are built using an ALL Carbon Fiber matrix: there are no foams, no fiberglass and no gelcoat used in our blades. The structural and practical advantages of a Carbon propeller over a fiberglass, wood or metal prop are many, including superior strength, light weight, superior durability and a significantly longer useful life.

The construction of Warp Drive's blades allows for simple repair of nicks and gouges that sometimes happen. If you were to damage one blade beyond repair (example: ground strike), the blades are individually replaceable.

Warp Drive carries a variety of different propeller hubs to fit almost any bolt pattern. Standard patterns include Rotax, Hirth, Arrow, Subaru, Jabiru, VW, Revmaster, Continental (SAE I), Lycoming (SAE II), etc. Warp Drive also has a variety of different spinners that mount onto these hubs. Warp Drive has various sizes of polished aluminum cap spinners and full fiberglass spinners which totally enclose the hubs. See the price list for complete propeller pricing and spinner recommendations and pricing.

PROPELLER TIP SPEED CALCULATOR

This website is owned and operated by **HOVERHAWK CORPORATION** which is an authorized worldwide distributor of propellers and parts manufactured by **Warp Drive, Inc.**

SELLER'S NOTICE AND DISCLAIMER

Prices, specifications, and availability are subject to change without notice. Products and materials advertised on this website are sold to the public with the understanding that the buyer assumes all risks and hazards involved in their use or application.

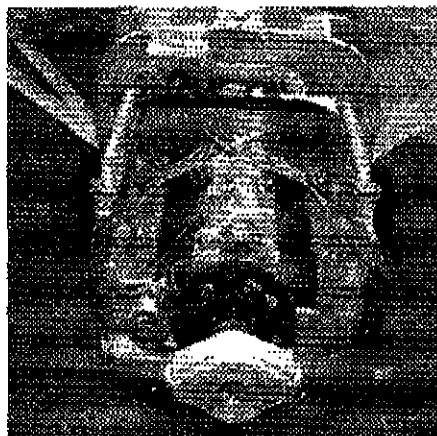
Buyer/User acknowledges assumption of all risk and hazards by purchasing and/or using the products advertised and sold on this website. No express or implied warranties asserted nor fitness of merchantability claimed by Seller. ALL SALES ARE FINAL.

Spacer support plates--per blade	\$8.00
Clamping blocks--per blade	\$8.00
Spacers--Std. hub (6 each)	\$12.00 set
Clamping bolts, nuts, washers--per blade	\$6.00

Propeller Torque Values

Propeller Bolt Torque Values--All Standard, HP and HPL hubs that use 1/4" bolts to clamp the blades in the hub should be tightened to 120 inch pounds. All Rotax bolt patterns that use 8 mm bolts to clamp the blades in the hub should be tightened to **175 inch pounds.** All Standard, HP and HPL hubs that use 3/8" bolts to clamp the blades or mount the prop should be tightened to **35 foot pounds.** Warp Drive propeller installations on direct-drive aircraft engines and other engines used on airboats must tighten the 5/16" clamping bolts to **200 inch pounds** and tighten the 1/2" flange mounting bolts to **60 foot pounds.** Torque 8mm bolts which attach the propeller hub to the engine flange to **175 inch pounds.** Adherence to these torque values is imperative for reasons of safety.

WARP DRIVE PROPELLER ORDER/QUOTE REQUEST FORM



2-Blade Warp Drive HP Prop on
Corvair Engine Powering a
Skycoupe



3-Blade Warp Drive HPL Prop on
Subaru Powered Dominator Gyro



3-Blade Warp Drive HPL Prop on
a Rotax 912 Powered Europa
shown with Spinner Removed
Revealing Properly Installed Crush

5 Blade OS Hub 80"--complete	\$420.00
5 Blade OS 80"--plates only	\$320.00
6 Blade OS Hub 72"--complete	\$385.00
6 Blade OS 72"--plates only	\$285.00
6 Blade OS Hub 80"--complete	\$435.00
6 Blade OS 80"--plates only	\$325.00
6 Blade OS Hub 90"--complete	\$645.00
6 Blade OS 90"--plates only	\$545.00
7 Blade OS Hub 80"--complete	\$445.00
7 Blade OS 80"--plates only	\$335.00
8 Blade OS Hub 72"--complete	\$395.00
8 Blade OS 72"--plates only	\$285.00
8 Blade OS Hub 80"--complete	\$455.00
8 Blade OS 80"--plates only	\$345.00
10 Blade OS Hub 80"--complete	\$465.00
10 Blade OS 80"--plates only	\$345.00
12 Blade OS Hub 80"--complete	\$475.00
12 Blade OS 80"--plates only	\$345.00
OS Hub Parts	Price
Oversize (OS) 1/2" LXL Spacers	\$30.00 set
OS Clamping Blocks--per blade	\$8.00
OS Clamping Bolts, Nut and Washers--per blade	\$6.00
HPL Hubs (2 piece aluminum hub)	Price
2 Blade HPL hub	\$225.00
3 Blade HPL hub	\$260.00
Clamping bolts, nuts, washers--per blade	\$6.00
HP Hubs (2 piece aluminum hub)	Price
2 Blade HP hub	\$260.00
3 Blade HP hub	\$260.00
Standard Hubs	Price
2 Blade Std. hub--complete	\$95.00
2 Blade--plates only	\$60.00
3 Blade Std. hub--complete	\$110.00
3 Blade--plates only	\$70.00
4 Blade Std. hub--complete	\$120.00
4 Blade--plates only	\$80.00

Example of Warp Drive 8-Bladed Airboat Prop

NOTE: As a rule-of-thumb for airboats and hovercraft to determine how many propeller blades you will need for a given engine, allow one blade for every 50 hp of engine output based on at least a 72" diameter prop. Then, if you wish, add one additional blade so you can use a lower pitch setting for faster acceleration.

AIRBOAT AND HOVERCRAFT PROPELLER PRICE SCHEDULE

NOTE: These prices are for Airboat and Hovercraft applications with direct-drive engines exceeding **80 hp** and for engines exceeding **120 hp** with a PSRU installed. The price includes the Nickel Leading Edges which are mandatory and a Protractor to measure and set blade pitch.

3 Blade	Up to 72"	\$1135
4 Blade	Up to 72"	\$1530
5 Blade	Up to 72"	\$1840
5 Blade	Up to 80"	\$1890
6 Blade	Up to 72"	\$2120
6 Blade	Up to 80"	\$2175
6 Blade	Up to 90"	\$2695
7 Blade	Up to 80"	\$2475
8 Blade	Up to 72"	\$2725
8 Blade	Up to 80"	\$2785
10 Blade	Up to 80"	\$3315

All Airboat and Hovercraft Replacement Blades are \$300.00 per blade including the Nickel Edges. (Provide prop serial number)

Replacement Propeller Hubs and Parts (Without Blades)

Hub Description	Price
3 Blade OS Hub--complete	\$275.00
3 Blade OS--plates only	\$205.00
4 Blade OS Hub--complete	\$345.00
4 Blade OS--plates only	\$255.00
5 Blade OS Hub 72"--complete	\$375.00
5 Blade OS 72"--plates only	\$275.00

5" Spinner	2-BI Std. & 100mm bolt circle HPL	\$90
6-3/4" Spinner	3-BI Std. & HP/All SAE 1 & 2	\$130
7" Spinner	4-BI Std.	\$140
Fiberglass		
8" Spinner	2-Blade HPL	\$160
9" Spinner	3-Blade HPL	\$175
10" Spinner	3-Blade Std. & HP	\$200
12" Spinner	2 & 3-Blade Std. & HP matches RV Cowlings	\$225
14" Spinner	3 & 4 Blade OS	\$275

Miscellaneous Accessories and Parts	
Warp Drive Professional Protractor (free with every new prop)	\$35
Prop Mounting Hardware (Rotax only)	\$12
Non-standard Hub Bolt Pattern	\$40
Face Plate - 4", SAE I, SAE II Patterns	\$50
12" Long Polyurethane Prop Tape Strips	\$4.00 each
Prop Blade Repair Per Blade	\$55-\$110

PROPELLER TIP SPEED CALCULATOR

Instructions for Setting Blade Pitch

