

GT3G-SAE2-37-RTWS-178.MMP



GT3G - MMP **(Multi-Mission-Propeller)**

The GT3G Multi Mission Propeller is an innovative high performance three blade ground adjustable propeller. optimized for max efficiency on TOURING and AEROBATIC. It's also a great propeller for STOL aircrafts. It can be used with engines ranging in power from 160 to 280 Hp.

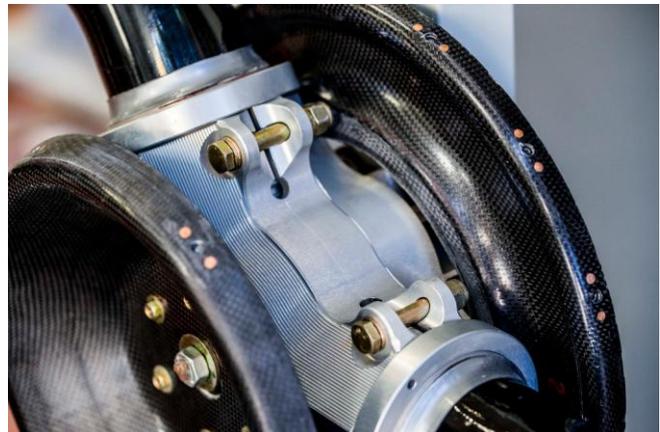


Propeller Designation

GT3G-SAE2-37-RTWS-178.MPP	
GT	Manufacturer
3	Number of Blade
G	Ground Adjustable Hub
SAE2	Propeller Flange Type
37	Blade Designation
R	Right Sense of Rotation
T	Tractor
W	Wooden Blades
S	Stainless Steel Leading Edge
178	Diameter in Metric Scale
MPP	Multi Mission Propeller

The Hub

- The modern and robust monolithic hub is machined from forged or milled aluminium. The hub is available with SAE2 flange and 7/16 1/2" bolts.
- The standard hub hardware is in inches but on request the hub can be provided with metric hardware as well.
- The weight of the hub is 9 pounds, 4 kg. The entire hub is anodized.
- The hub lodges very safe and high tolerance aluminium blade roots. The blade roots are designed to allow easy pitch adjustments to match your required operations. The blade pitch adjustment process is easy and fast. Similarly the blade removal process is straightforward.
- The hub can accommodate different GT blades models in various size and in both sense of rotation and configuration.



The Blades

- The low inertia blades are built in a natural composite technology, using high compressed epoxy impregnated wood in the root area and lightweight wood in the rest of the blade body.
- Epoxy fiberglass and carbon mix covers the entire blade surface in order to protect
- the wooden core against moisture and erosion as well as to increase the torsional strength.
- A bonded stainless steel or Nickel erosion sheath protects the leading edge.
- The blade ferrule is attached to the blade root with a special glue, then threaded and pinned.
- The safety factor of the blade root is IMPRESSIVE! The sample G 37 scimitar blade @ 3000 RPM produce a CF load of 6,000 pounds (3,000 kg)!! The various tests performed on the root showed an average resistance of 92,000 pounds (42,000 kg),



i.e. 7 times stronger!!!. Please note that CAA requirement for the blade root resistance is double the max engine RPM only!

- The blade weight for the 180/220 hp engine range is 6 pounds (2.8 kg).
- Different blades model and diameter can be coupled to the hub.
- The blade is painted with polyurethane acrylic paint. Standard finishing are white, grey and black. Custom finishing are also possible.

The Spinner

- All the spinner assemblies are made in composite/carbon with a standard diameter of 13" inches (330 mm).
- The spinner include cone, front and rear disks.
- All spinner components are easily removable.
- A 13" diameter spinner with all the components typically weighs around 5 pounds (2 kg).
- The spinners are dynamic balanced in the factory.
- Custom spinner can be manufactured on requests.



Prop Ready To Fly

- The typical weight of the propeller ready to fly is 19 pounds (13,2 kg). The weight is very close to the weight of a stock metal fixed propeller but with much less moment of inertia.
- The max RPM allowed are 3000.
- The propeller is smooth at any RPM thanks to advanced airfoils and blade twist.



Advantages of the GT3G-MMP Propeller

- Robust monolithic hub with unlimited life and no maintenance costs.
- Easy to install and bolt on. It's a one man job.
- Easy blades installation and accurate pitch adjustments to meet your specific mission.
- The adjustment operation of each blade only takes few minutes.
- Infinite pitch combination to select from.
- Great vibration dampening.
- Easy blade replacement in case of damage.
- Reduced crankshaft load in the event of a prop strike saving a lot of money in engine overhaul!
- Many blades from the GT production can be matched to the hub.
- It can be used in a wide range of engines combinations and great flexibility in hp application, from 160 hp to 250 hp or more just with one prop.
- Add great value to the aircraft.
- Easy to resell and great resell value. Even if the new buyer requires a different mission (for example a pusher configuration) it can be accommodated just buying different blades.
- In case of a damaged blade it's not necessary to replace the whole propeller but just the damaged blade.
- The propeller can be shipped into a small box, with lower freights cost
- and safer transportation than any of the three blade fixed pitch propellers available on the market.



Based on all the above information there is only one propeller you can buy to make your aircraft more than special ... the **GT Propeller GT3G-MMP**.

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