

 TITANIUM
EXPLORER

TITANIUM

AUTO
GYRO

OWN THE SKIES



BROUGHT TO YOU BY



THE TITANIUM ' EXPLORER SERIES ' OF GYROCOPTERS

Offer you the pilot and your passenger, Super Safe High-Tech Sport Flying, with many reasons to take in the sights of your local area from above. Alternatively to embark on Epic Aerial Adventure Safaris over the most breathtakingly beautiful and diverse scenery our country has to offer, scouting for the remotest of destinations. All this in unrivalled comfort with a birds eye view and the Fun Factor only a Gyrocopter can !

A BRIEF OVERVIEW OF THE TAG AIRCRAFT

Our New Generation of Gyrocopters are aerodynamically designed and constructed from state of the art materials such as Titanium and Carbon Fiber. Gyrocopters have the best flight characteristics of both fixed wing and rotary wing craft with minimal operating costs and are inherently safer. The inherent safety of the gyro comes from the aerodynamic principle by which it flies and generates lift. This principle is called "autorotation". The rotor of a gyroplane is unpowered, unlike that of a helicopter. This autorotation of the main rotor has some benefits uniquely its own and superior to fixed wing or other rotary aircraft. What sets apart a Gyro from any other aircraft, is a constant flying in "autorotation" from take-off up until landing. This Aircraft cannot Stall because of how it's lift is generated. Even with a complete engine failure, gyrocopters can land safely under full flight control and simply float down. A space slightly larger than the size of the aircraft is all that's needed for a successful landing.

A BRIEF OVERVIEW OF THE ROTAX POWERPLANT

All our Titanium Auto Gyrocopters (TAG) are powered by ROTAX powerplants. With low-operating costs, leading class power to weight ratio, well known reliability, it is no surprise that Rotax aircraft engines are the first choice of more than 250 aircraft manufacturers worldwide. More than 175,000 Rotax aircraft engines have been sold since 1973. Rotax aircraft engines stand for outstanding performance, reliability, low fuel consumption and reduced emissions.

TITANIUM AUTO GYRO APPLICATIONS

The gyro predates the helicopter, having been invented in the early 1920s and used throughout the '30s and '40s, even delivering mail between rooftops in US cities. With its low acquisition and running cost, coupled with manoeuvrability, agility and land anywhere capability, it has been very successfully implemented, in the following functions of :

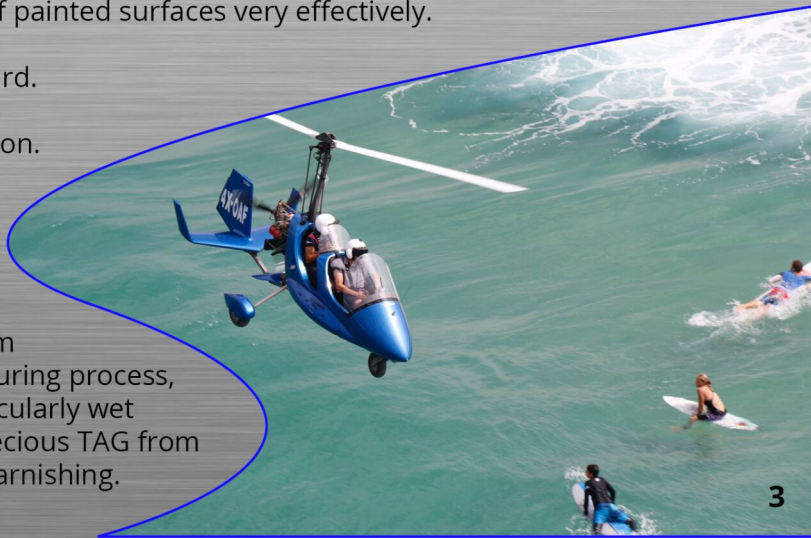
- SURVEILLANCE - GAME-COUNTING - ANTI- POACHING PATROLS -
- CATTLE MUSTERING - CROP SPRAYING - FENCE INSPECTIONS -
- AERIAL POLICING - LIDAR SURVEYING - SAFETY & SECURITY -
- CAMERA SHIP PLATFORMS - BEACH PATROLS -
- RURAL & REMOTE AREAS FIRST RESPONSE MEDICAL SUPPORT -



KEY FEATURES OF THE TAG



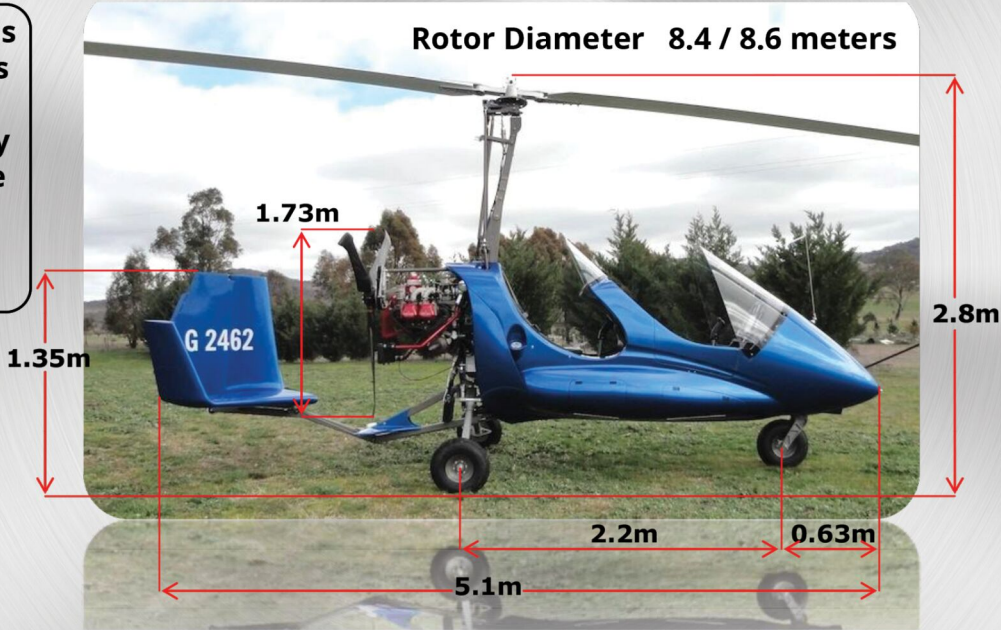
1. Most spacious and comfortable open cockpit tandem available.
2. Light well harmonized controls, ensure smooth pleasurable flying, minimizing fatigue.
3. Large aerodynamic windscreen minimises wind on pilot, making for very comfortable flying.
4. Higher ground clearance and a robust cast aluminium trailing nose wheel fork, enable safe operations out of very rough and challenging terrains, with total peace of mind.
5. Nosewheel suspension on a titanium shaft offer a distinct advantage on rougher terrain.
6. More usable load as a result of titanium and carbon fiber construction
Dry weight 273kg, with 300kg useable load up to a 580kg M.A.U.W.
7. Fully functional dual (pilot and passenger) controls with ergonomically shaped and offset control grips, ensure super comfortable flying, whether you are on a short flight or an epic X-country journey.
Also ideally suited for training purposes.
8. 200l of luggage space (top pic), all that camping equipment, enough for 2 people fits into the storage pods.
9. Lockable additional 20l passenger in flight accessible storage compartment.
10. 90 liters fuel capacity, with 1 liter unusable, and outside of cockpit filling access.
11. Lockable fuel tank cap.
12. TAG is the only gyrocopter with a dual pre-rotation system, using a pneumatically actuated primary, as well as manual lever as a secondary.
12. A very High pre-rotation capability of up to 300 R.R.P.M for very short field take offs.
13. Propeller Guard prevents stone chips and sand blasting on rough outfield operations.
14. Tailplane leading edges, coated with the latest technology invisible self-healing protective film, offers further protection and longevity of painted surfaces very effectively.
15. Basic and single metallic colours are standard.
16. Multiple metallic layered colours are an option.
17. Airframe and Rotor have no TBO or TIMEX the only item that requires an overhaul is the Rotax engine after 2500 hours.
18. Due to solely titanium and aviation aluminium construction materials used in the manufacturing process, we also offer a Titanium bolt option for particularly wet coastal salt air operations, to prevent the precious TAG from ever tarnishing.





SPECIFICATIONS

The cockpit is 0.78 meters wide to comfortably accommodate even the largest of pilots



With a Grade 5 Titanium frame, and 7000 series aluminium main gear, rough terrain or student training landings can be taken in their stride.

Landing Gear Width 1.86 meters, widest in its class for added ground handling safety



POWER-PLANT OPTIONS



	Rotax 912 ULS Turbo 137 HP to 146 HP	Rotax 914 Turbo 115 HP	Rotax 915iS Turbo 141 HP
Empty Weight (Dry) <small>minimum equipment</small>	236 kg	236 kg	256 kg
Empty Weight <small>fully equipped + Oil & Coolant</small>	274 kg	274 kg	294kg
MTOW <small>(Maximum Take-off Weight)</small>	580 kg	580 kg	580kg
Useful Load	306 kg	306 kg	286 kg
Vne	100 knots	100 knots	100 knots
Cruise Speed	60-95 knots	60-90 knots	60-95 knots
Min. Speed <small>(level flight/full power)</small>	25 knots	25 knots	25 knots
Rate of Climb <small>(Vy=60 Knots)</small>	1450 ft/min	1000 ft/min	1800 ft/min
Take-off Distance	60 m	70 m	40 m
Take-off Distance to <small>(50 feet)</small>	150 m	250 m	100 m
Landing Distance	0-30 m	0-30 m	0-30 m
Landing Distance from <small>(50 feet)</small>	200 m	200 m	200 m
Fuel Gasoline			
Fuel Capacity 83-90 Litres			
Fuel Consumption 15-20 L/h			
Storage Capacity 200 Litres			
TITANIUM EXPLORER	TITANIUM EXPLORER	TITANIUM EXPLORER	



Aircraft Features (Included)

1. Titanium Explorer with ROTAX 912 Turbo, 914 Turbo or 915 Turbo Engine.
2. Rear Windscreen.
3. Basic and single layer metallic colours are standard.
4. Rear seat / passenger throttle and break lever.
5. Dual multi-function ergonomically moulded and comfortably angled, pilot and passenger control grips.
6. Dual flight controls, for pilot and passenger.
7. Large front windshield.
8. Rear windscreen.
9. Lockable rear cubbyhole.
10. Lockable fuel cap.
11. Carbon fiber Bolly propeller.
12. Electro-pneumatic pre-rotation system as primary, and secondary manual as a backup.
13. High energy wide cord Rotor blades manufactured from carbon fiber with reflex technology and high torsional stiffness allowing for higher speeds.
14. Wheel spats.
15. Electro-pneumatic trim.
16. Mechanical roll trim.
17. Hydraulic disc brakes with parking brake.
18. 90 Liter fuel tank made from XLPE cross link polythene.
19. High quality seat covers with thick foam padding.
20. Front seat has pocket on the backrest.
21. Landing light.
22. USB auxillary power points for pilot and passenger.
23. Oil thermostat to shorten engine warmup.
24. Propeller guard / protector, colour coded.
25. 4 point seat belt harnesses , for pilot and for passenger.
26. Parking rotor blade tether with pouch.

Instrumentation (Included)

1. Airspeed Indicator.
2. Vertical Speed Indicator.
3. Altimeter.
4. Rotor Trim and Brake Pressure gauge.
5. Rotor RPM Tachometer.
6. Engine RPM Tachometer.





Instrumentation (Included)

7. Engine RPM Tachometer.
8. Cylinder Head Temperature gauge.
9. Oil Temperature gauge.
10. Oil Pressure gauge.
11. Manifold Pressure gauge.
12. Fuel Level Indicator.
13. Engine Hour Meter.
14. All switches are functional circuit breakers to minimise clutter on the panel.
15. iPad Mini Flat mount with aircraft power supply lead.

Options

1. Dual Helmet headset G3 Duo Lynx or Flycom Helmet Headset.
2. Radio, Funke UHF.
3. UHF Radio in combo with VHF Radio, wiring harness and antenna.
4. Whelen side Navigation Strobe Lights, port and starboard.
5. Whelen rear strobe light.
6. Precision vertical card compass. (Made in USA)
7. Mustering Pack with 600/6 aircraft tyres, with certified aircraft inner tubes 15/600/6 for the nose wheel and 16/600/6 for the mains.
8. Fuel flow meter, aircraft certified, with fuel computer panel display.
9. Sun Visor over Instrument Panel.
10. Titanium Mudflaps or oversized spats for larger wheels.
11. Rear instrument panel for training.
12. Internal built in Pilot side storage compartment for drinks and snacks.
13. EGT Gauge
14. Electronic Fuel Pressure gauge
15. Plug in pilot carry bag for all aircraft related docs, ipad and smaller items.
16. Aircraft covers including mast, rotorblades and airfilter covers.
17. Tailplane leading edges, latest technology invisible self-healing protective film.



Dear Potential TAG Owner

Firstly thank you for perusing this rather detailed eBrochure, and in so affording TAG Africa the opportunity to present an option on a rather important decision that you are potentially looking to make.

Please feel free to discuss any details of this brochure that you are perhaps uncertain about, with us, anytime.

We do look forward to your visit to our showroom, of which the details are below.

Fly in, Drive in, or Ride in to where we can chat at length about all the features, flying destinations, improvements and anything to do with Gyrocopters really...

Should you decide on the Titanium Auto Gyro as your Sport Flying Aircraft. You will amongst others, from a manufacturing - engineering - design - finishes and materials perspective. Without a doubt be in the indisputable forefront of this class of aviation product.

Prices quoted are subject to ZAR/AUD/€ rate of exchange at the time of transaction.

Goods to be delivered ex-factory in Canberra Australia.

Guarantee period 24 months.

Lead time is around 3 months to be confirmed on order, depending on colour chosen.

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EXPLORE IT ALL

ANYWHERE BY AIR

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