



Why Pilots Choose Aviomania

Stable by Design. Capable Beyond Expectation.

Founded by aircraft engineer Nicolas Karaolides, Aviomania was built around one mission: to engineer the world's most stable and pilot-friendly gyroplanes.

In a market full of compromises, we took a different path — integrating proven aerodynamic principles with forward-thinking safety and structural design. The result? Gyroplanes that feel balanced, predictable, and responsive — even in the most demanding phases of flight.

Key Engineering Advantages

- **ATD – Active Tail Design**
Engine torque compensation built-in — no more rudder dancing, even in low-G flight.
- **CLT – Center Line Thrust**
Keeps pitch stable under power changes by aligning engine thrust with the center of gravity.
- **Crash-Resilient Airframe**
Triangulated modular structure absorbs energy and simplifies repairs.
- **Kevlar-Reinforced Fuel Tank**
Lightweight, puncture-resistant, and positioned for maximum impact protection.
- **Bonded Aluminum Rotor Blades**
Proven beyond 2,500 hours of use. No life limit.
- **Adaptive Steering by Soft Coupled Castoring (SCC) Landing Gear**
SCC adapts steering response to speed, improving stability and minimizing tip-over risk.



Recognition & Media Mentions

Certified by **DAeC** and **DGAC**. Proud recipient of the “**Grand Champion**” and “**Most Innovative Aircraft**” awards.

🏆 “Top 15 Best Autogyros in the World” – Tech Gear (YouTube, 2024)

🏆 “Top 5 Autogyro Aircraft for Casual Personal Aviation” – Aviation Federation (YouTube, 2025)

📰 Featured in “Top 10 Gyrocopters in the Market Today” – ElectronicSpecifler.com (2024)

“If you can find a better gyro with such stability then buy it.” – Giorgos K (pictured)

Ready to take flight? Let's build your gyroplane.

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Genesis Series – One of The World's Safest Gyroplanes



European precision. Award-winning innovation. Unrivaled in-flight stability.

Aviomania gyroplanes aren't just built to fly — they're engineered to fly better. With aerodynamic balance, structural safety, and effortless handling at their core, Genesis aircraft offer a flying experience trusted by pilots across the world.

From hands-off stability in low-G flight to industry-first safety systems, every Aviomania gyroplane is designed for real conditions, real performance, and real control.

More at Aviomaniatexas.com

Flight Demo: Precision, Power, and Pure Control



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Gyroplane Models

Included in Every Ready-to-Fly Aviomania Gyroplane: prerotator, high-performance 3-blade propeller, suspension landing gear with **soft coupled castoring (SCC) nose wheel** system, **bonded aluminum rotor blades**, electric starter, rotor brake, and wheel covers.

Instruments: altimeter, ASI, compass or VSI, engine and rotor RPM gauges, water and exhaust gas temperature gauges, fuel gauge, hour meter, 12V power outlet, and strobe & landing lights.

Empty Weight – includes battery, prerotator, no fuel.

With the “Genesis Sport” dual canopy system comes standard — open for thrill, closed for comfort.



Genesis Series Specifications:

Model	G1sB “Genesis CE”	G1sE “Genesis Sport”	G2sA-2 “Genesis Duo”
Seats	1	1	2
Frame Type	Open	Convertible	Open
Engine Options	Rotax 582UL, Rotax 912UL		Rotax 915iS, 916iS
	Rotax 912 ULS, 912iS, 914UL		
Max Level Speed	170 km/h (92 kt)	180 km/h (97 kt)	180 km/h (97 kt)
Cruise Speed	110 – 130 km/h 59 – 70 kt	120 – 140 km/h 65 – 76 kt	120 – 140 km/h 59 – 70 kt
Never Exceed Speed	180 km/h (97 kt)	200 km/h (108 kt)	180 km/h (97 kt)
Min Level Speed (MTOW)	30 km/h (16 kt)	30 km/h (16 kt)	50 km/h (27 kt)
Max Rate of Climb	1400 fpm	1500 fpm	1500 fpm
Max Take-off Weight	300 – 390 kg	300 – 400 kg	450 – 560 kg
Dependent on regulations	661 – 860 lb	661 – 882 lb	992 – 1235 lb
Empty Weight From	174 kg (384 lb)	178 kg (392 lb)	230 kg (507 lb)
Max Pilot Weight	120 kg (265 lb)	120 kg (265 lb)	120 kg (265 lb)
Rotor Diameter	23 – 25 ft (7.0 – 7.6 m)	23 – 25 ft (7.0 – 7.6 m)	28 – 30 ft (8.5 – 9.1 m)
Propeller Diameter	64" (1.6 m)	64" (1.6 m)	69" – 72" (1.75 – 1.8 m)
Engine Power Range	65 – 120 hp	65 – 120 hp	100 – 150 hp
Fuel Capacity	36 L (9.5 gal)	42 L (11.1 gal)	75 L (20 gal)
Max Endurance	2hr 30min	3hr	3h 50min

All models feature ATD and CLT systems as standard — engineered stability, no pilot compensation required.

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Customize Your Genesis

Functionality meets freedom—design every detail around the way you fly.

Upgrades & Add-ons

Avionics & Controls

- Electric trim (standard on Duo)
- TRIG TY91 radio w/ intercom
- TRIG TT21 transponder
- EFIS

Instructor & Training

- Instructor kit (rear seat flight & engine instruments + brake)

Durability & Handling

- Rough-field wide tires (6PR, higher ply on request)
- Carbon/stainless mudguards (3-piece)

Performance Options

- Anti-torque ring mount
- External fuel tanks (Duo only – 30 L)

Every aircraft is a conversation—tell us your needs, and we’ll shape the solution.

Customization

Choose one solid color from Red, White, Yellow, Dark Green, Dark Blue, or Dark Grey — included with every aircraft. Want something bolder? Metallic finishes, multicolour schemes, and custom patterns are available on request.



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