



PRODUCT CATALOGUE



**PROFESSIONAL DRONE TEST STANDS
FOR FASTER INNOVATION**

**SOLUTIONS TO ENABLE THE NEXT
TECHNOLOGICAL REVOLUTION IN THE
DRONE INDUSTRY.**

WORK WITH DRONES: SAFE & EASY ABOUT US

Eureka Dynamics is a solution provider for the drone community.

We help our clients to do amazing things with drones easily, faster, and in a safe, collision-free environment. Our products are test stands for ready-to-fly drones that allow validation and testing of the entire system before take-off.



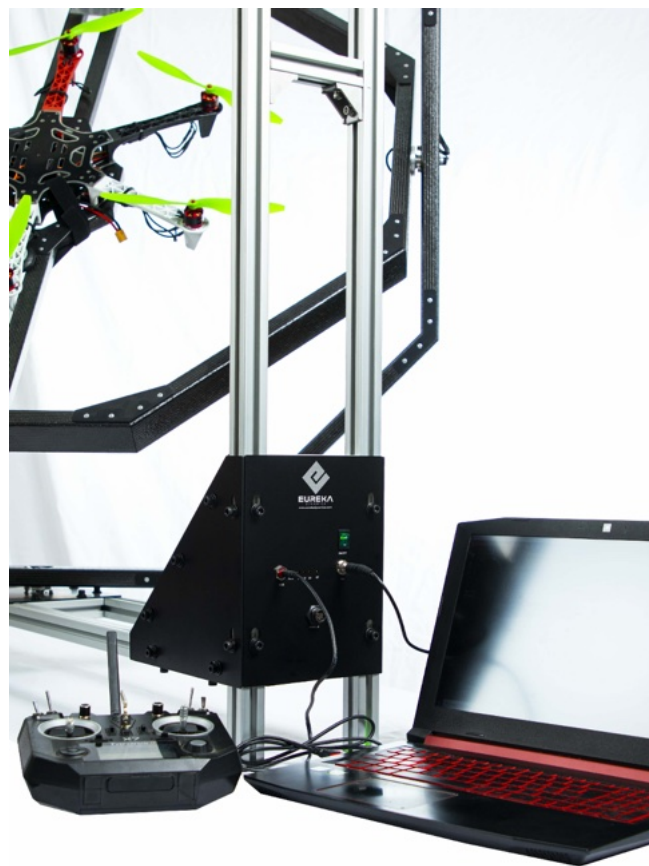
TEST BEFORE FLIGHT TO OVERCOME THE TECHNICAL BARRIERS THAT ARISE WHEN **WORKING WITH REAL DRONES**

We have helped universities, research centers, defense and drone companies all around the world with our patented technology.

FIRST-FLIGHT TESTER GYROSCOPE

Drone innovation requires flight tests during implementation. These are not fail-proof. Mid-flight errors likely end in damage or destruction of the drone, not to mention possible injury.

That is the reason why we have developed the FFT GYRO. Our system allows you to work with functional drones faster and in a collision-free environment. Its safe structure allows the system to be installed in an open or closed space and interact with people in real time.



ACADEMICS

Teach and train your students with real drones, inside the classroom in a safe environment.



DEVELOPERS

Implement, test and validate your development with real drones. Do not limit to just theory or simulations.

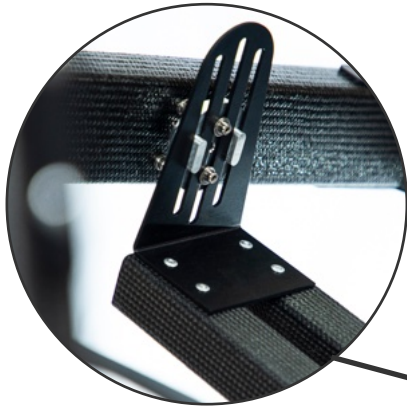


VENDORS

Show your potential clients your products in a safe "real flight" experience at your stores or in a trade show.



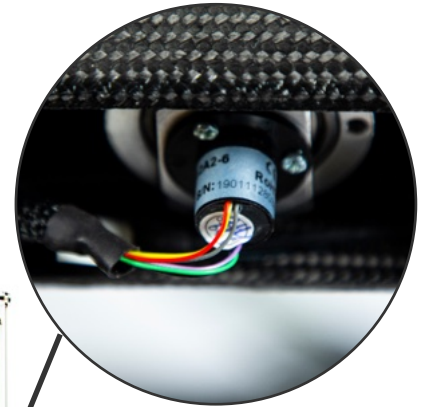
FIRST FLIGHT TESTER GYROSCOPE



ADJUSTABLE HEIGHT FOR DIFFERENT MULTI-ROTORS

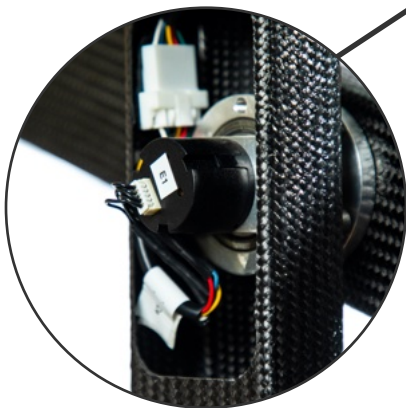
A For All Sizes. A wide set of different series for all kinds of UAVs, from small racing drones to big industrial drones.

MAKING EASIER TO WORK WITH DRONES



FREE ROTATION 3 DEGREES OF FREEDOM

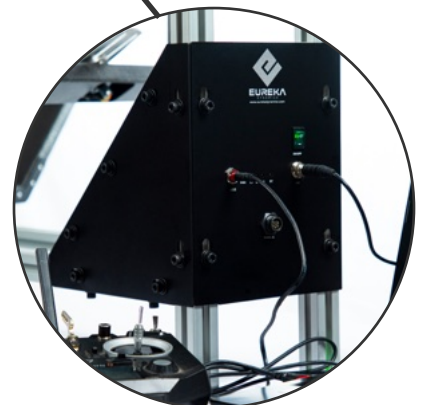
A Simple but Powerful Tool. The system is a special type of gyroscope that can move freely in the roll, pitch and yaw axis without any limitation.



HIGH-RESOLUTION MAGNETIC ENCODERS

With higher resolution, faster sampling and better accuracy, rotation dynamics can be measured with precision.

PC CONNECTION MATLAB AND SIMULINK



PERSONALIZE YOUR PERFECT FFT GYRO

Choose from our solutions to meet your specific requirements.

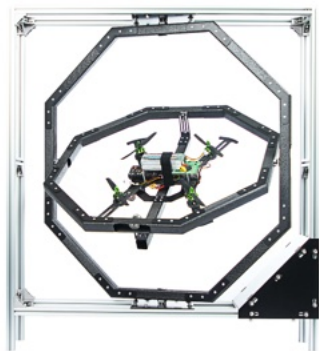
01. SIZE MEET OUR FFT GYRO SERIES

Choose from our available size ranges.

● Small size range

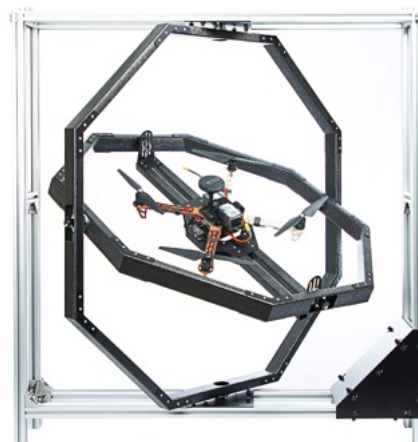
Designed for small size multi-rotors. Compatible with different types of multi-rotors and sizes, from **100 mm** to **450 mm** rotor-to-rotor distance, or up to **750 mm** outer diameter. The system is ideal for:

- Robotics and Autonomous Vehicle courses.
- Building a small-scale prototype and test a new concept.
- Developing and implementing new concepts, mechanical and electronic designs, and controller algorithms.



FFT GYRO 250

Dimensions – L x W x H:
110 cm x 110 cm x 115 cm (unfolded).



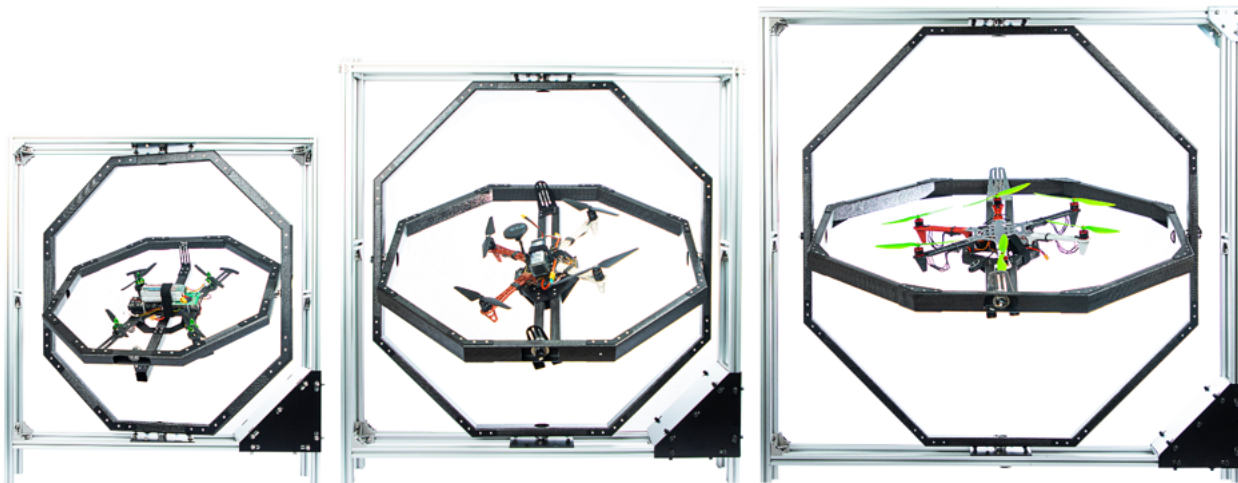
FFT GYRO 450

Dimensions – L x W x H:
135 cm x 135 cm x 140 cm (unfolded)

● Medium size range

Designed for medium size multi-rotors. Compatible with different types of multi-rotors and sizes, from **450 mm** to **1000 mm** rotor-to-rotor distance, or up to **1500 mm** outer diameter. The system is ideal for:

- Training AI flight controllers.
- Tuning non-linear control parameters.
- Building a scale prototype and testing a new invention.
- Robotics and Autonomous Vehicle postgraduate projects.
- Developing and implementing new concepts, mechanical and electronic designs, and controller algorithms.



FFT GYRO 600

Dimensions

L x W x H:

156 cm x 156 cm x
176 cm (unfolded).

FFT GYRO 800

Dimensions

L x W x H:

185 cm x 185 cm x
205 cm (unfolded).

FFT GYRO 1000

Dimensions

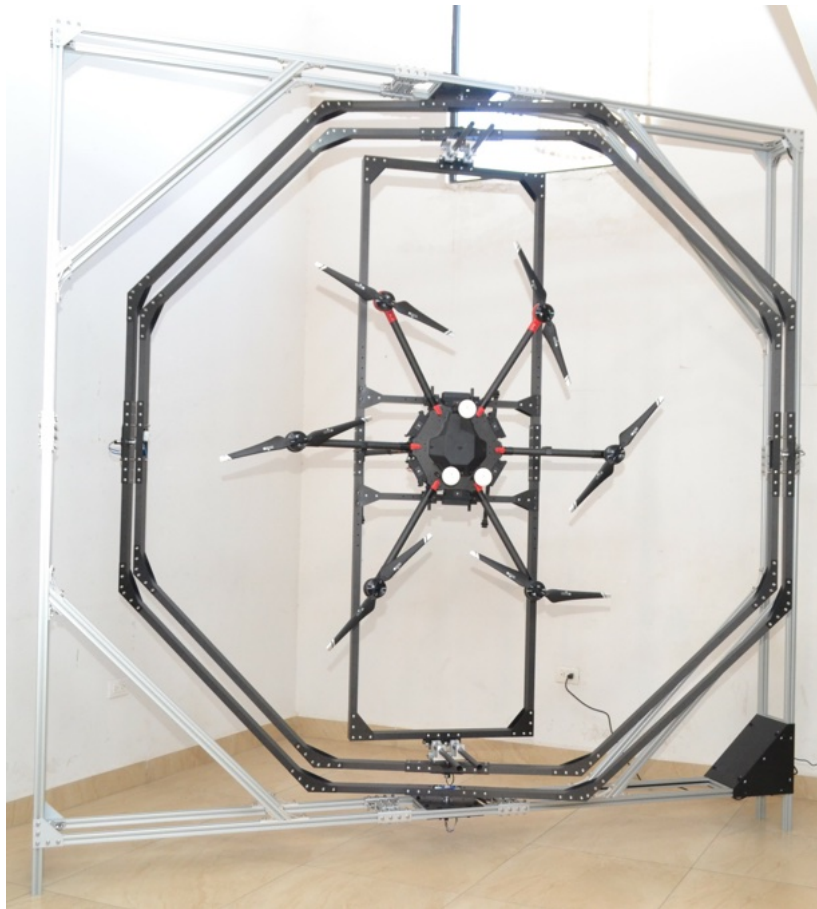
L x W x H:

220 cm x 220 cm x
225 cm (unfolded).

● Large size range

Designed for large size multi-rotors. Compatible with different types of multi-rotors and sizes, from **1000 mm** to **2000 mm** rotor-to-rotor distance, or up to **2800 mm** outer diameter. The system is ideal for:

- Robotics and Autonomous Vehicle courses.
- Autonomous Vehicle company projects.
- Building a real-scale prototype and testing a new invention.
- Integrating UAV technology into a custom application for your clients.
- Developing and implementing new concepts, mechanical and electronic designs, and controller algorithms.



FFT GYRO 1500 Dimensions – L x W x H:
280 cm x 280 cm x 312 cm (unfolded).

PERSONALIZE YOUR PERFECT FFT GYRO

After selecting a size, choose to add an electronic customization according to your needs.

02. SPECS CUSTOMIZE FOR YOUR NEEDS

FFT GYRO

Mechanical test bed platform. Three degrees of freedom about the main axes: roll, pitch and yaw.

No electronics added.

Available for small, medium and large size ranges.

01



02



FFT GYRO PRO

Test bed system for control algorithms.

High-resolution magnetic absolute encoders, with multiple turns. Sensing and control operation from MATLAB/Simulink.

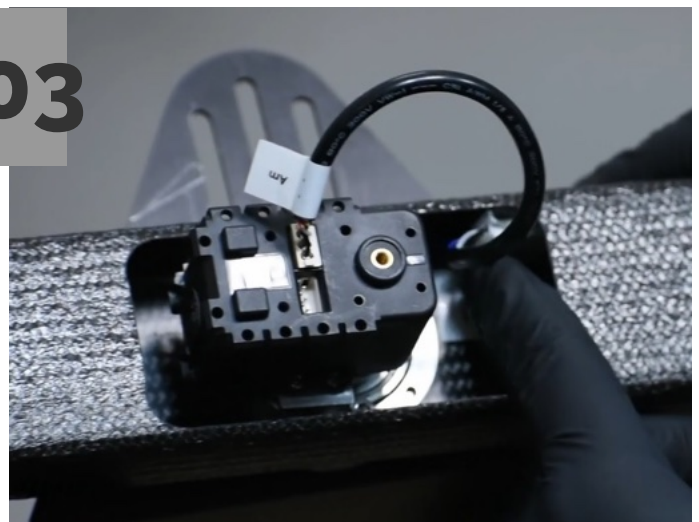
Available for small, medium and large size ranges.

MOTOR KIT

FFT GYRO PRO with servomotors to simulate external forces. Motors can be driven by current or voltage, so torque, rotation speed or angular position control can be customized. Sensing and operation from MATLAB/Simulink.

Only available for the 250, 450, 600 and 800 versions. **Robotic motors are sold separately.**

03



PERSONALIZE YOUR PERFECT FFT GYRO

After selecting a size, the next step is to choose a material for the gimbal's structure.

03. MATERIAL

EXPLORE OUR HIGH-QUALITY OPTIONS



02 CARBON FIBER

High-performance. Strong, stiff, and light. Provides improved aerodynamics for professional UAVs, to minimize extra weight and added inertia

01 ALUMINIUM ALLOY

High-quality, affordable, and corrosion-resistant. Strong and stable structure for flight tests. Its non-ferromagnetic properties avoid any reaction to magnetic fields.



PRODUCT EXAMPLE

FFT GYRO

Given the wide customization possibilities, we have arranged a nomenclature based on its of the characteristics available:



01 **SIZE: 450 VERSION**

Designed for medium size multi-rotors, based on the famous 450 quadcopter frame.

02 **SPECS: PRO VERSION**

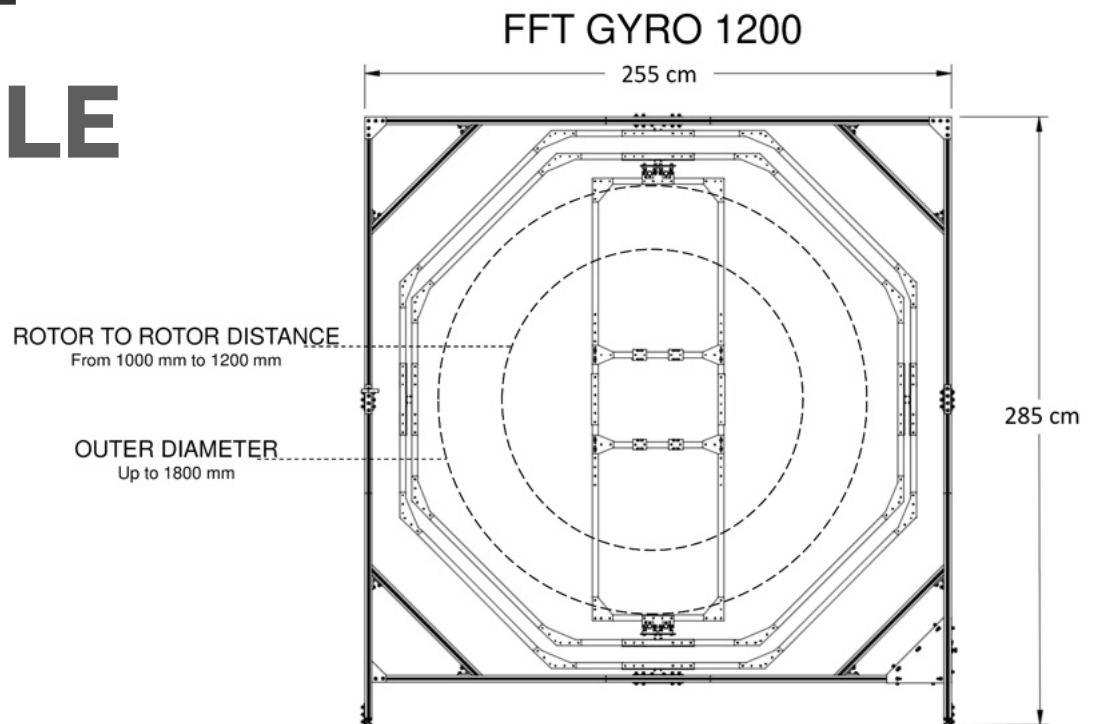
High-resolution magnetic encoders. Sensing and control operation from MATLAB/Simulink.

03 **MATERIAL: CARBON FIBER**

No material combines better the characteristics of being strong, stiff, and light.

FFT GYRO 450 PRO CARBON

PRODUCT EXAMPLE



SPECS - SIZE	Drone rotor-to-rotor distance (mm)	Drone outer diameter (mm)	Frame dimensions L x W x H (cm)	Max. weight Aluminum version (kg)	Max. weight Carbon Fiber version (kg)	Encoder Compatibility	Motor Kit compatibility
250	100 - 250	up to 450	110 x 110 x 115	2.5	3	Yes	2.5, 6.0
450	250 - 450	up to 750	135 x 135 x 140	4	5	Yes	2.5, 6.0
600	450 - 600	up to 1000	156 x 156 x 176	5	6	Yes	6.0
800	600 - 800	up to 1200	185 x 185 x 205	6	8	Yes	6.0
1000	800 - 1000	up to 1500	220 x 220 x 225	8	10	Yes	No
1200	1000 - 1200	up to 1800	255 x 255 x 285	10	15	Yes	No
1500	1200 - 1500	up to 2050	280 x 280 x 312	15	20	Yes	No
2000	1500 - 2000	up to 2800	380 x 380 x 400	20	40	Yes	No



FIRST FLIGHT TESTER PRICING

We have arranged a scheme of prices to easily visualize and compare our products.

SPECS / SIZE	ALUMINIUM	PRO ALUMINIUM	CARBON	PRO CARBON
250	\$2,500.00	\$5,100.00	\$4,400.00	\$7,000.00
450	\$3,500.00	\$6,200.00	\$5,500.00	\$8,200.00
600	\$4,500.00	\$7,200.00	\$6,400.00	\$9,100.00
800	\$5,600.00	\$8,400.00	\$7,700.00	\$10,500.00
1000	\$7,800.00	\$10,600.00	\$10,200.00	\$13,000.00
1200	\$10,200.00	\$13,100.00	\$12,800.00	\$15,700.00
1500	\$12,400.00	\$15,400.00	\$14,900.00	\$17,900.00
2000	\$16,800.00	\$19,800.00	\$19,800.00	\$22,800.00

MODEL	CAPACITY	PRICE
MOTOR KIT 2.5	2.5 N.m at 12V, 1.5A - Resolution 0.087°	\$1,900.00
MOTOR KIT 6.0	6.0 N.m at 12V, 4.1A - Resolution 0.087°	\$2,900.00

All prices are quoted in USD. Prices do not include shipping.

We offer a 5% discount for academic institutions or if you purchase 3 or more units.



LEAD IN DRONE INNOVATION

Whether your company is focused on sales, customer experience or research and development, this helpful tool will be a great aid for your projects.

GET IN TOUCH



Give us a call

We would love to answer all your questions.

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+52 (66) 2135-6065



Send us an email

You can request a quote or an online demo of our products.

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