

DYNOTIS ST-101

Engineered for precision. Trusted for results.

Introducing the Dynotis ST-101

Built for Bigger Drones. Engineered for Deeper Data.

The Dynotis ST-101 Thrust Test Stand is a next-generation propulsion testing platform designed for high-performance UAV systems and advanced research labs. With ultra-precise measurement capabilities across thrust, torque, RPM, voltage, current, and temperature, the ST-101 sets a new standard for test reliability. Capable of handling propellers up to 30 inches, it's made for serious developers who demand accuracy, repeatability, and real-world simulation. Optional modules like Wi-Fi connectivity, dynamic wind measurement, and environmental sensors transform this test stand into a complete drone performance lab – right on your bench.

Powered by

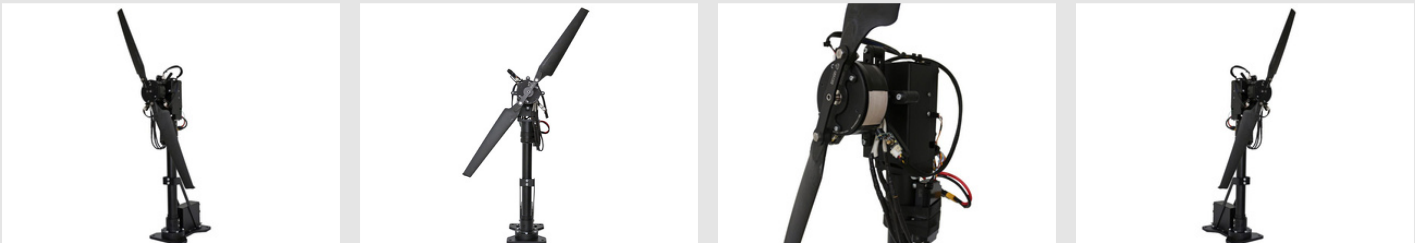
DYNOTIS



THRUST TEST STANDS

SPECIFICATIONS

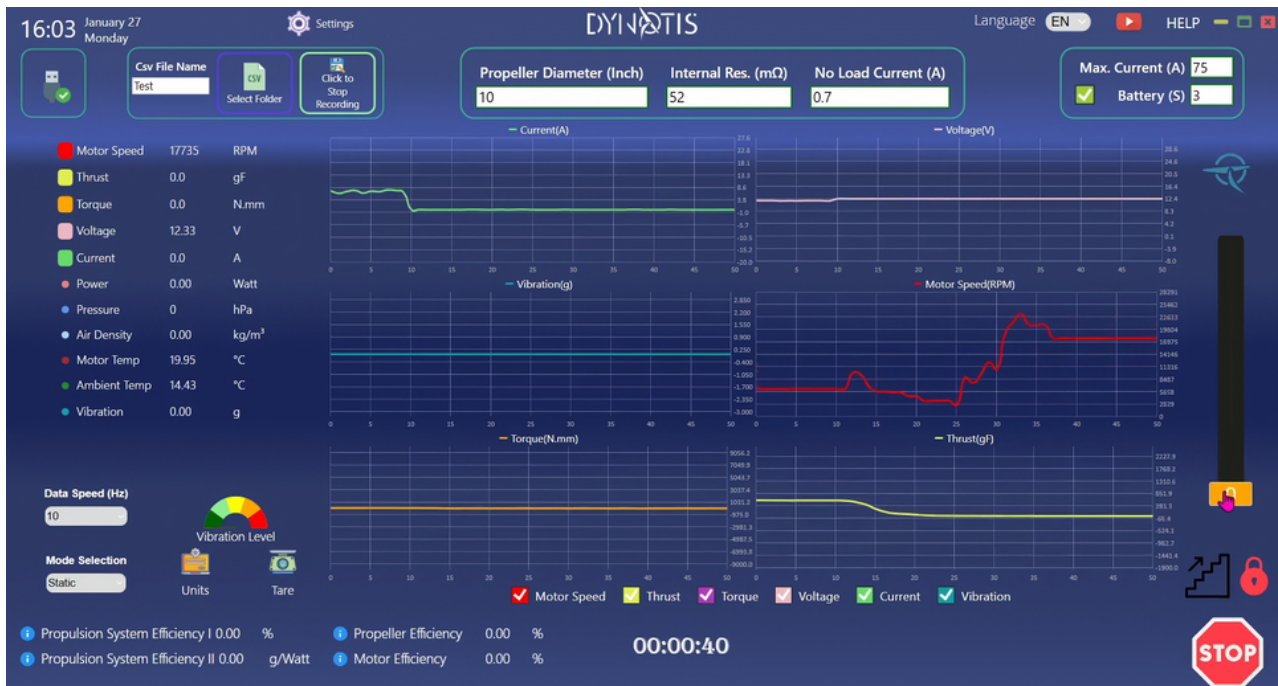
THRUST	10 kgf
THRUST ACCURACY	±1 gF
VOLTAGE	0 - 60 V
VOLTAGE ACCURACY	±0.5%
CURRENT	0 - 75 A
CURRENT ACCURACY	±0.3%
RPM	0-100,000 (±1 RPM)
TORQUE	3.5Nm (±4%)
MOTOR TEMPERATURE	-20°C ~ +350 °C
MAX PROPELLER DIA	30 inches
SAMPLING RATE	1000Hz
POWER SUPPLY	5V 1A USB Type-C
OPERATING TEMPERATURE	-20°C - 50°C



Dynotis Benchmark Software

Precision in Data. Power in Insight.

Real-time monitoring, precision graphing, and detailed data logging – all in one powerful interface. Designed for seamless testing and performance analysis of UAV propulsion systems.



FEATURES



REAL-TIME DATA MONITORING

View live readings of thrust, torque, RPM, voltage, current, and temperature – all in one intuitive dashboard.



HIGH-SPEED GRAPHING

Visualize system performance with real-time graphs powered by 1000 Hz sampling, ideal for fine-tuning UAV propulsion.



CUSTOMIZABLE DATA PANELS

Arrange and personalize your display to focus on the parameters that matter most to your testing workflow.



DATA LOGGING & EXPORT

Automatically record all performance metrics and export them in CSV or spreadsheet formats for in-depth analysis.



MULTI-AXIS SYNCHRONIZATION

Sync multiple channels for precise correlation of electrical and mechanical parameters over time.



LIVE ALERTS & THRESHOLDS

Set operational limits & receive instant alerts when values exceed safe ranges – enhancing safety.



ANALYSIS-READY REPORTS

Generate Professional test reports for internal R&D, presentations, client documentation – with just one click.



PLUG & PLAY INTEGRATION

Seamlessly connects with all Dynotis test stands via USB, ensuring quick setup with no complex calibration.