

DYNOTIS ST-1001

The Limit? It Doesn't Exist Anymore.

Introducing the Dynotis ST-1001

Power Unleashed. Precision Unmatched.

The Dynotis ST-1001 is the most powerful and advanced test stand in the Dynotis series – built for ultra-heavy drone propulsion systems, electric aircraft, and next-generation aerospace platforms.

It supports up to 100 kgf thrust, 100 Nm torque, and handles extreme power inputs of up to 200V and 500A, making it the definitive solution for high-load performance testing.

With lab-grade $\pm 0.5\%$ accuracy, 90-inch propeller support, and 1000 Hz sampling, the ST-1001 is engineered to deliver precise, real-time data – even under the most demanding flight simulation conditions.

Powered by
DYNOTIS



THRUST TEST STANDS

SPECIFICATIONS

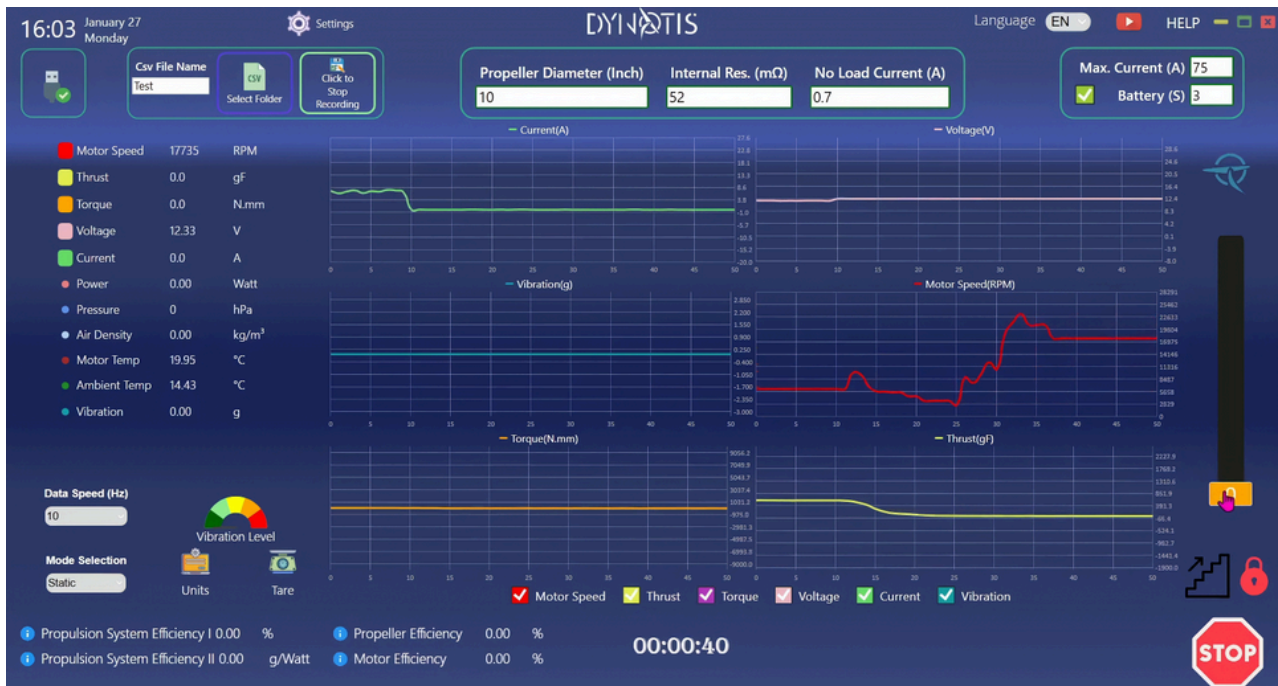
THRUST	100 kgf
THRUST ACCURACY	$\pm 0.5\%$
VOLTAGE	0 - 200 V
VOLTAGE ACCURACY	$\pm 0.5\%$
CURRENT	0 - 500 A
CURRENT ACCURACY	$\pm 1\%$
RPM	100-100,000 (± 1 RPM)
TORQUE	100Nm ($\pm 1\%$)
MOTOR TEMPERATURE	-20°C ~ +350 °C
MAX PROPELLER DIA	90 inches
SAMPLING RATE	1000Hz
POWER SUPPLY	5V 1A USB Type-C
OPERATING 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.