

DYNOTIS ST-751

For Giant Rotors, You Need Giant Precision.



Introducing the Dynotis ST-751

Heavy-Lift Ready. Precision-Lab Engineered.

The Dynotis ST-751 is the most powerful test stand in the Dynotis lineup, designed to test massive drone propulsion systems used in cargo UAVs, VTOLs, hybrid drones, and aerial platforms requiring ultra-high thrust. With a capacity of up to 75 kgf thrust, 60 Nm torque, and support for propellers up to 90 inches, it redefines what's possible in UAV performance benchmarking.

Whether you're testing a new-age logistics drone or validating electric aviation platforms, the ST-751 is built to handle the heaviest loads with the highest accuracy – all at a blazing 1000 Hz sampling rate.

Powered by



SPECIFICATIONS

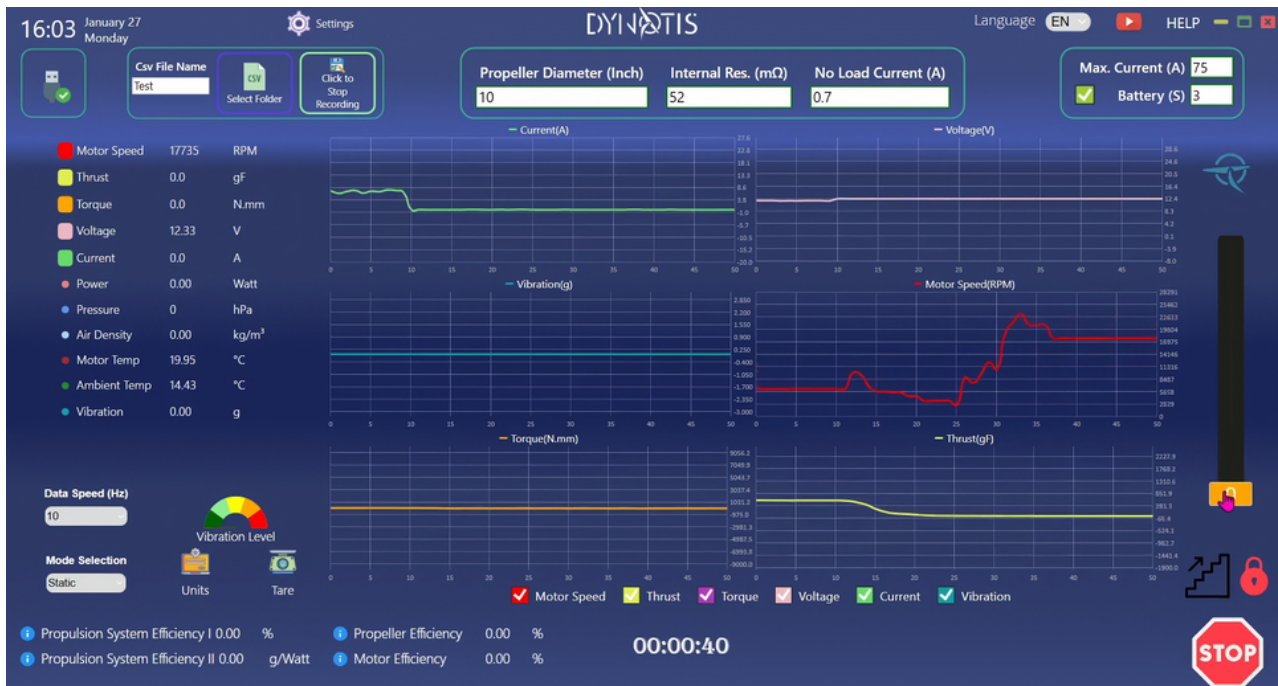
THRUST	75 kgF
THRUST ACCURACY	±1 %
VOLTAGE	0 - 120 V
VOLTAGE ACCURACY	±0.5%
CURRENT	0 - 300 A
CURRENT ACCURACY	±1%
RPM	0-100,000 (±1 RPM)
TORQUE	60 Nm (±1%)
MOTOR TEMPERATURE	-20 ~ +350 °C
MAX PROPELLER DIA	90 inches
SAMPLING RATE	1000Hz
POWER SUPPLY	5V 1A USB Type-C
OPERATING TEMPERATURE	-20°C - 50°C



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.