



Ground/Flight testing and monitoring solutions from Kistler – for efficient, safe and sustainable electric aircraft

Selected applications:

- Electric propulsion system vibration measurements and monitoring
- Electric propulsion system reaction forces and moments
- Electric motor testing (torque-speed efficiency)
- Thrust and torque measurements
- Battery thermal runaway testing
- Structural health monitoring
- Structural analysis and optimization
- Payload stability
- Impact testing
- Qualification of safety critical components
- Landing structure and gear testing
- Production monitoring: zero-defect production with full process traceability
- Data management and big data analysis

Benefits

- Custom measuring chains for UAV, drone and eVTOL testing applications
- 60+ years of experience in Aerospace industry
- Application know-how to discuss measurement solutions
- Miniature and thermally stable accelerometer technologies (IEPE, PE or MEMS)
- Small and low weight modal accelerometers with different measurement ranges
- Single and multi-component force sensors and dynamometers or force and torque measurements
- Low and high frequency response accelerometers
- TEDS (Transducer Electronic Data Sheet)
- Dual range rotary torque sensors for efficient measurements
- Flexible and scalable signal conditioning, DAQ and software solutions
- · Reliable and flexible cabling solutions



measure. analyze. innovate.

Selected products for eVTOL testing





Accelerometers (vibration measurements, structural analysis and optimization, modal analysis)

Force sensors (electric propulsion system reaction forces and moments testing)









Torque sensors (electric motor torque-speed efficiency testing, torque ripple testing, torque cogging testing)

Pressure sensors (battery testing, battery thermal runaway, operating temperature up to 1000°C)







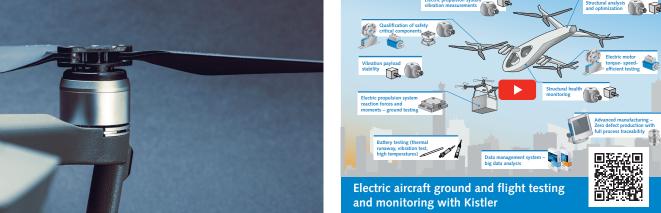


Signal conditioning and DAQ (solutions for signal processing and subsequent data digitization, data acquisition)

Software (data visualization, data management)



Our precise methods evaluate the torque, speed and angle of rotation of electric





Scan to learn more! www.kistler.com/evtol

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