

AT A GLANCE

LOADS AND AEROELASTICS



CORE CAPABILITIES

- Loads analysis
- Aeroelastic modelling
- Reverse engineering
- Certification support and planning
- In-service incident support
- Test planning and management

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Supporting rotary wing, fixed wing, UAV and UAM aircraft

AIRCRAFT LOADS AND AEROELASTIC SPECIALISTS

Stirling Dynamics has over 30 years experience providing loads and aeroelastic design support for new and modified aircraft platforms in both the civil and military sectors. From concept evaluation through to certification, we help our customers keep their programmes on schedule by providing experienced, agile and technically competent engineering services. Our expertise covers static and dynamic loads calculation, flutter analysis and testing (flight and ground) for model characterisation and validation.

INDEPENDENT LOADS TOOL SUITE

Our in-house suite of loads tools means we can provide independent analysis for our customers. From supporting small scale problem solving to whole aircraft loads calculations. Stirling engineers also have extensive knowledge and experience of EASA, FAA and military standards and requirements, including standards for new and supplemental certification.

Ground loads and flight loads

Aerodynamic loads

Flutter analysis

Ground vibration testing

Aeroelastics and aeroservoelastics

Fatigue loads

Flight test

Static and dynamic loads

CS / FAR-23 / 25 / 27 / 29

Landing gear loads

Stirling Dynamics Limited
 an expleo company

230 Bristol Business Park
 Stoke Gifford
 Bristol
 BS16 1FJ

Tel: +44 (0)117 915 2500

Email: enquiries@stirling-dynamics.com

