AT A GLANCE
LANDING GEAR DESIGN & ANALYSIS

CORE CAPABILITIES
- Requirements capture and definition
- Concept Design and architectural studies
- System and component design and integration
- System simulation and modelling
- Loads analysis
- Verification and validation
- Certification support
- Continuous product development
- In-service issues and incident support

WWW.STIRLING-DYNAMICS.COM
Stirling has over 30 years experience providing independent and impartial advice on landing gear design, analysis and modification. We understand the challenges surrounding modern landing gear and have extensive knowledge of all the latest EASA, FAA and military requirements and standards, which are applied in conjunction with a range of proven in-house analysis and modelling tools.

Our specialist landing gear team works with aircraft manufacturers, system providers, modification companies and aircraft operators globally on a variety of fixed and rotary wing aircraft, from the Airbus A350 to the T625 Light Utility Helicopter.

**At a Glance**

**World Class Landing Gear Design and Integration Services**

**An End-to-End ATA 32 Solution**

Our capabilities encompass definition of the landing gear architecture, including **sizing, kinematic studies, shimmy analysis** and extend to the wider landing gear systems such as extension and retraction, steering, braking, door systems and monitoring system functionality, covering all aspects of ATA 32 subsystems.

**Oleo pneumatic shock absorber modelling**

**Extension and retraction systems**

**Airframe and landing gear loads**

**Shimmy analysis**

**Wheels, tyres and brakes**

**Braking and steering control systems**

**Performance optimisation**

**Sizing and mass prediction**

**Tyre selection and modelling**

**Landing gear monitoring systems**

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

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