Stirling Dynamics is a fast-growing, advanced engineering company that delivers a range of complex systems and technical services to the aerospace, training & simulation and marine markets. Our strength lies not only in providing world-leading technical expertise and innovative products but also in our ability to work collaboratively with clients to build strong relationships with a focus on open communication and transparency.

Trading since 1987, we have accumulated a wealth of knowledge on over 70 different aircraft types and multiple marine platforms, delivered to both civil and military programmes around the globe.

Exports make up over 80% of our business and our teams support clients in North America, Western Europe and the Asia Pacific region. We respect the differences in international cultures and recognise that every organisation has its own preferred way of working. Our flexible contracting models, coupled with cultural awareness, ensure that customer satisfaction is achieved throughout the project lifecycle.

www.stirling-dynamics.com
Aerospace

Stirling has been supplying high calibre, independent and impartial, technical engineering services to the aerospace market for over 30 years. Recognised as the UK’s leading independent landing gear specialist, our expertise also extends to hydraulic systems, environmental control systems, flight control systems, and fuel systems for major aircraft programmes in the UK, Europe, Asia and the US.

These services are provided for new aircraft designs, modification and conversion programmes, for both fixed and rotary wing platforms in civil and military arenas. This same expertise is also invaluable in the support of accident investigations and litigation activities. Our key strength stems from our pool of highly experienced engineers and in-house modelling and simulation toolsets.

We have a solid track record in supporting our customers in their interaction with aviation authorities including the UK Civil Aviation Authority (CAA), the Federal Aviation Administration (FAA) and the European Aviation Safety Agency (EASA).

Training & Simulation

Stirling has a long-standing track record of delivering high-performance training and simulation products into major defence and worldwide R&D programmes. Our customers include the UK MoD and global defence organisations, such as Lockheed Martin, BAE Systems and Leonardo. Our key technologies lie in active controls and motion cueing systems.

Our world-leading active controls offer state-of-the-art solutions for pilot training, aircraft simulation and flight test applications. These products are fully active, reconfigurable and capable of simulating the controls in rotary or fixed wing platforms.

We are proud to supply the active sticks and throttles for the Lockheed Martin F-35 pilot training simulators. We also continue to break new ground in cockpit control technology and provide innovative simulator solutions to clients across all our core domains.

Additionally, our motion cueing systems offer some of the most advanced and compact Dynamic Seat and G-Seat technology available on the market today. We have supported training seats for the Hawk MK 128, KAI T-50 Golden Eagle and the AW159 Wildcat, as well as providing a number of customers with our generic rotary wing and generic fixed wing seats.

Aircraft We’ve Worked On

Stirling has worked on over 70 different aircraft types and has played key roles in many of the major aircraft development programmes.

These programmes include the F-35 Lightning II, Airbus Single Aisle Family, Widebody Family and A400M, Bombardier C-Series and Global 7000/8000, Leonardo helicopter fleet and many others, as well as supporting aircraft role change activities and holding a unique aircraft reverse engineering capability.

Simulator Programmes & Flying Test Bed Aircraft

- F-35 Lightning II - Stick and Throttle
- UH-60M - Dual Cyclic, Collective and Pedals
- UH-60L - Dual Cyclic and Collective
- EC135 - Active Inceptor Side Stick
- Challenger 601 - Active Inceptor Side Stick
- Bell 412 - Active Inceptor Side Stick
- Rascal Blackhawk - Dual Cockpit Cyclic and Collective
- VITAL Project - Cyclic and Collective
- HACT Project - Cyclic and Collective
- NASA Aries & SATS Projects - Active Inceptor Side Stick

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Marine

With decades of experience in delivering marine solutions and services to national procurement agencies, shipbuilders and systems integrators – Stirling Dynamics has the knowledge, skills and capability to help solve our customer's most complex underwater problems.

From early concept, to first of class and batch development; Stirling has built an enviable reputation in submarine autopilots within platform management systems (PMS). Our advanced steering, diving and hover solutions are active across a diverse range of platforms from diesel-electric patrol to nuclear-powered fleet submarines.

Our advanced modelling and simulation capability allows us to evolve our understanding of naval architecture into synthetic vessel and environment models that underpin our safety assured software control solutions. In addition, Stirling Dynamics' provide a full range of support services, including system commissioning, at-sea trials support and post-trial performance tuning.

Innovation drives our solutions; Stirling Dynamics is actively collaborating with our partners in exploring the future marine environment to offer further augmentation of existing systems and systems of greater autonomy.

Our Key Customers

Submarine Platforms

- Trafalgar Class - Slow Speed Control
- Swiftsure Class - Slow Speed Control
- U209 - Autopilot
- U212A - Autopilot
- Dolphin AIP - Autopilot
- Jangbogo III - Concept Studies

Operators Worldwide

Going From Strength to Strength

From our head office in the UK, Stirling delivers world-leading technologies and engineering capabilities to a global customer base. Since forming in 1987, the company has gone from strength to strength, seeing sustained growth and diversification. Our product portfolio spans state-of-the-art pilot training equipment and advanced autopilots for submarines, and we provide world-class engineering technical services to an international customer base.

Stirling was acquired by Expleo in 2018. Expleo is a world-class partner in engineering, quality and digital solutions for clients operating in the aerospace, automotive, defence, financial services, industrial, and transportation sectors. With around 15,000 employees in more than 25 countries, Expleo has the cutting-edge technical know-how and proven expertise in complex and critical systems.

Supporting Our Customers All Over the World

Working with Stirling brings flexibility, agility, openness, independence and a wealth of experience and expertise gained from decades working on major programmes around the world. We can provide the transfer of knowledge, technology, and guidance to help deliver programmes successfully. Our engineers are deployed all around the world and have provided direct, on-site team augmentation and knowledge transfer as far afield as Canada and Japan.

Offering a Flexible Working Approach

Stirling recognises that every client has their own preferred way of working and we adopt a flexible contracting approach to support this. The delivery of our services, from short-term to more involved programmes is achieved by employing a range of business models including on-site support, time-and-materials and fixed-price packages.

Our Head Office

Stirling Dynamics,
230 Bristol Business Park,
Stoke Gifford,
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BS16 1FJ
Tel: +44 (0) 117 915 2500
Email: enquiries@stirling-dynamics.com

Our Keystones

- To deliver innovative technical services and technology solutions into our core markets
- To build sustainable, beneficial relationships with suppliers, clients and institutions
- To be recognised as an innovator and catalyst of new technologies
- To continue to make investments for the future through research & development and education

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