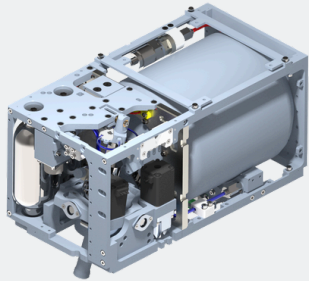


CPS & RCS Solutions

Chemical Propulsion Systems Reaction Control Systems



LMO's modular and agile chemical propulsion systems are designed for small satellites ideal for orbital manoeuvres for phasing, maintenance and end-of-life operations. Designed using proven monopropellant technologies to provide high impulse with low power at a low cost.

LMO's compact reaction control systems utilise either liquid or gas to store the necessary total impulse for reaction control manoeuvres. Once necessary, the liquid or gas is fed to RCS thrusters where it is exhausted in gas form providing thrust levels between 10-100mN.

Experience

LMO's past and current experience of designing and developing propulsion systems include:

- 2U factor HTP CPS for 12U Cubesat under ESA GSTP programme,
- LMO-103S CPS and R134a RCS for ESA LUMIO mission,
- ADRAS-J Propulsion System Design (launched in February 2024).

Propellant

LMO's solutions can utilise different materials to provide maximum compatibility with a range of traditional and novel chemical propellants such as:

- HTP, LMP-103S, Water, R134a

Facilities

LMO's facilities in Reading (UK) include all necessary lab equipment to execute the majority of all testing in-house, working with partners for environmental campaigns.

- Clean area with Laminar Flow Benches
- Cleaning Equipment
- Pressure & Leak Testing
- Electronics & Mechanical Assembly

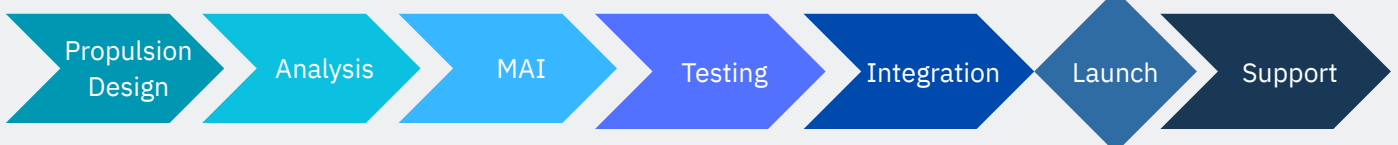
Configuration Options

LMO's propulsion systems are designed to offer maximum flexibility providing a complete tailored solution based on the customer's mission requirements:

- Propellant Tanks
- High pressure regulation & feed systems
- Thruster Pointing Mechanisms
- Driver Electronics

Team Capabilities

LMO's team has experience across the entire mission lifecycle allowing LMO to provide a range of solutions to support your mission, from concept design through to full hardware delivery, including launcher range operations.



Let us keep in touch

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