



Electrify your aircraft

End to end solutions - from design to manufacturing and EASA approvals.

Experience the future of aerospace.

The eVTOL solution providers

Development and supply of
airworthy equipment

- Accelerated development
timescales
- Bespoke solutions
- Reconfigured portfolio
equipment
- EASA Design and Production
approvals



The eVTOL solution providers

Engineering consultancy experts

- Highly specialist skills
- Full lifecycle capability
- Wide coverage of systems & structure
- Flexible engagement models
- Worldwide footprint





Electrification solutions for existing platforms & new development aircraft

Existing aircraft conversion

- Reverse engineering without OEM data
- Airframe modifications
- System development & integration
- Equipment development & supply
- EASA Design and Production approvals



Electrification solutions for existing platforms & new development aircraft

New aircraft development

- Highly specialist skills
- Full lifecycle
- Wide coverage of systems & structure
- Equipment development & supply



Aircraft solutions

Both

- Airframe design
- Flight Control
- Landing Gear
- Actuation
- Power management

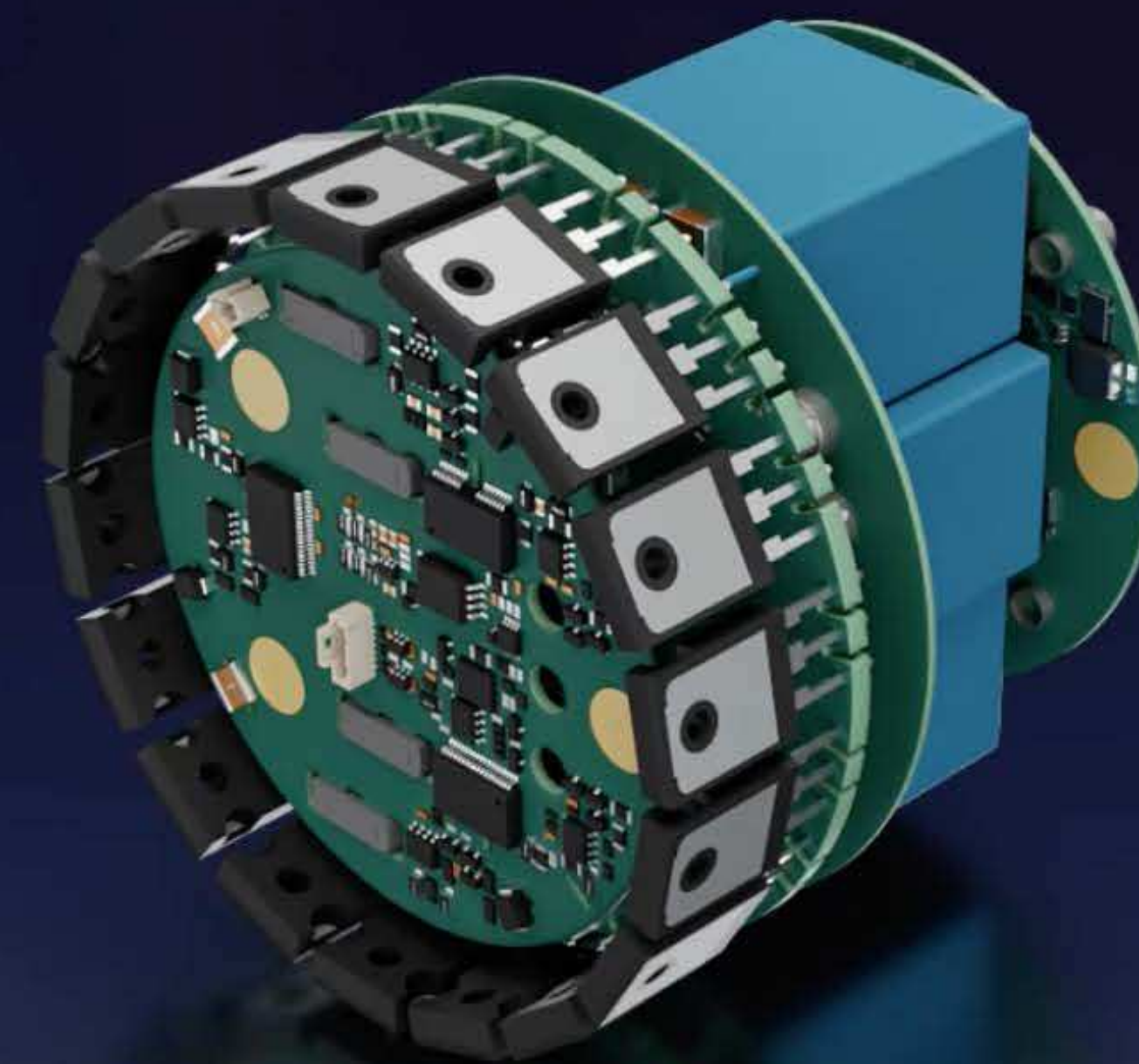
Existing Platforms Only

- Reverse engineering
- Conversion/Modification

eDrive and Power Management

All major electrical components of your aircraft engine

- Fan
- Propeller
- Wheel hub
- Inverter
- Power Management





Flight, Mission and Pilot Controls

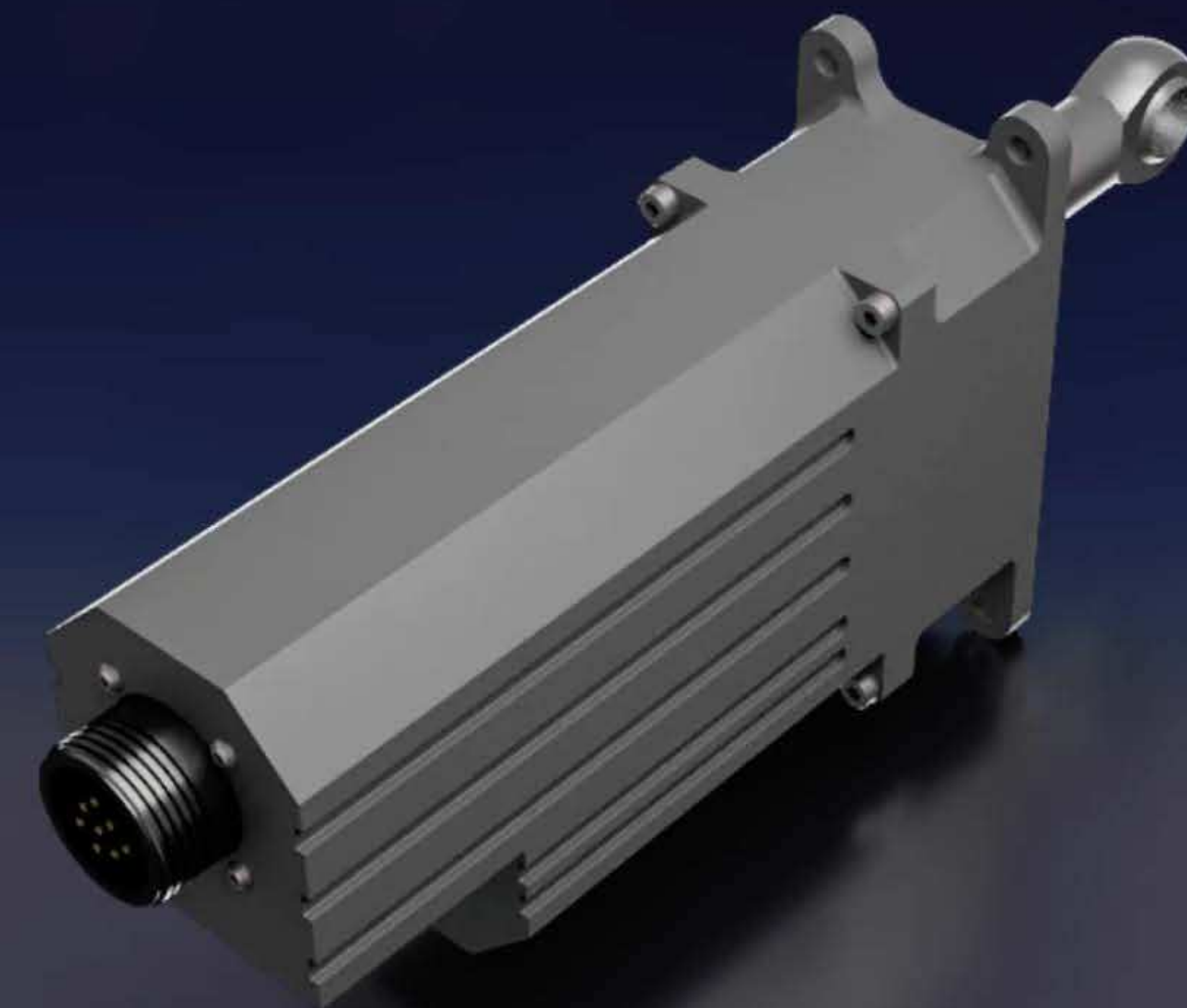
Bespoke equipment solutions for
flight and training

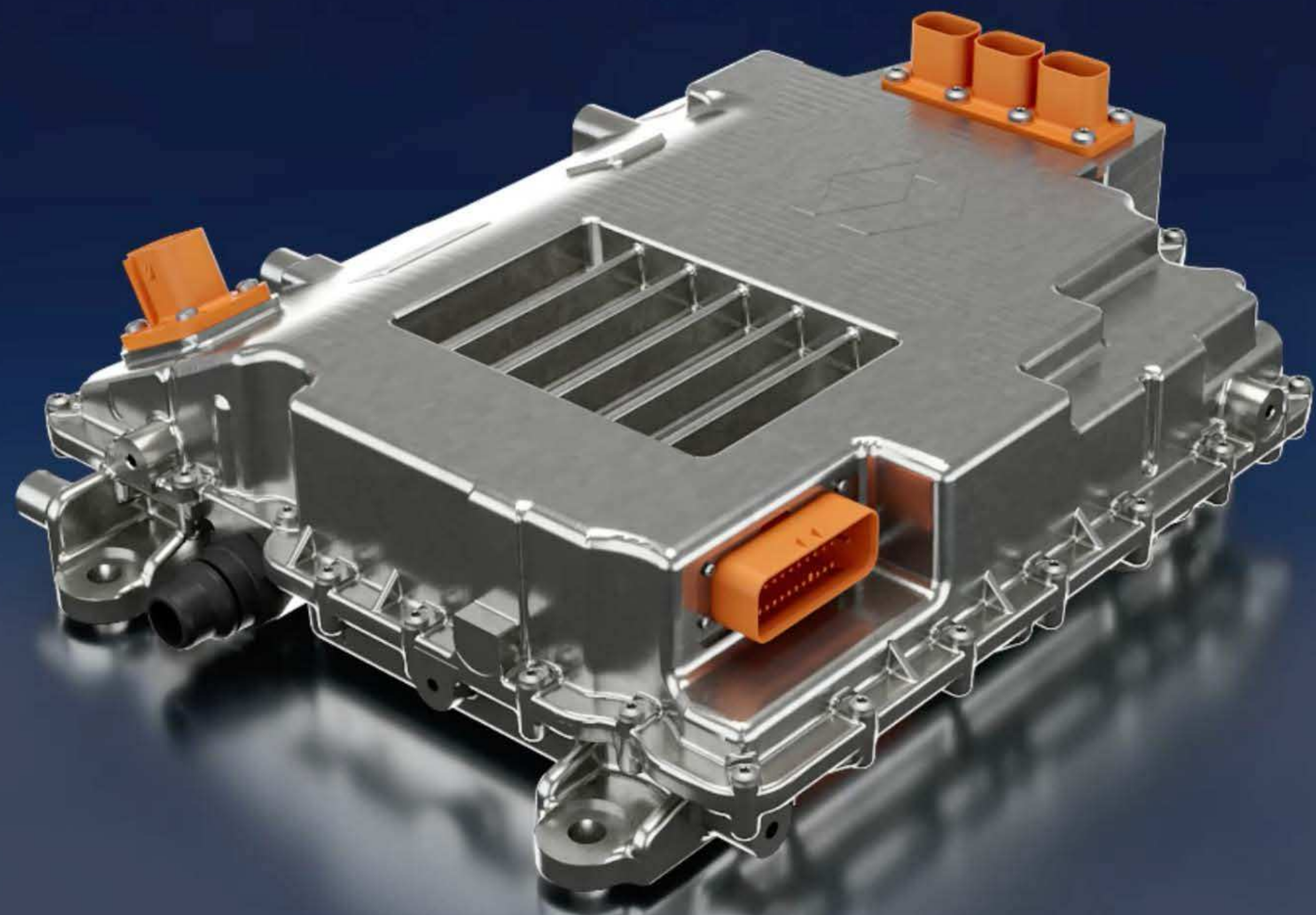
- FCCs, Side sticks, throttles,
collectives, cyclic, pedals, tillers
- Active and passive
- Military and civil
- Fixed wing, rotary wing
- Flightworthy and pilot training

Actuators and Control Units

Customised to your needs

- Primary and secondary flight control surface actuation
- Tilt rotor, blade pitch control
- Landing gear extension & retraction
- Rotary and linear
- Electro-mechanical and Hydrostatic





Flying Fuel Cell

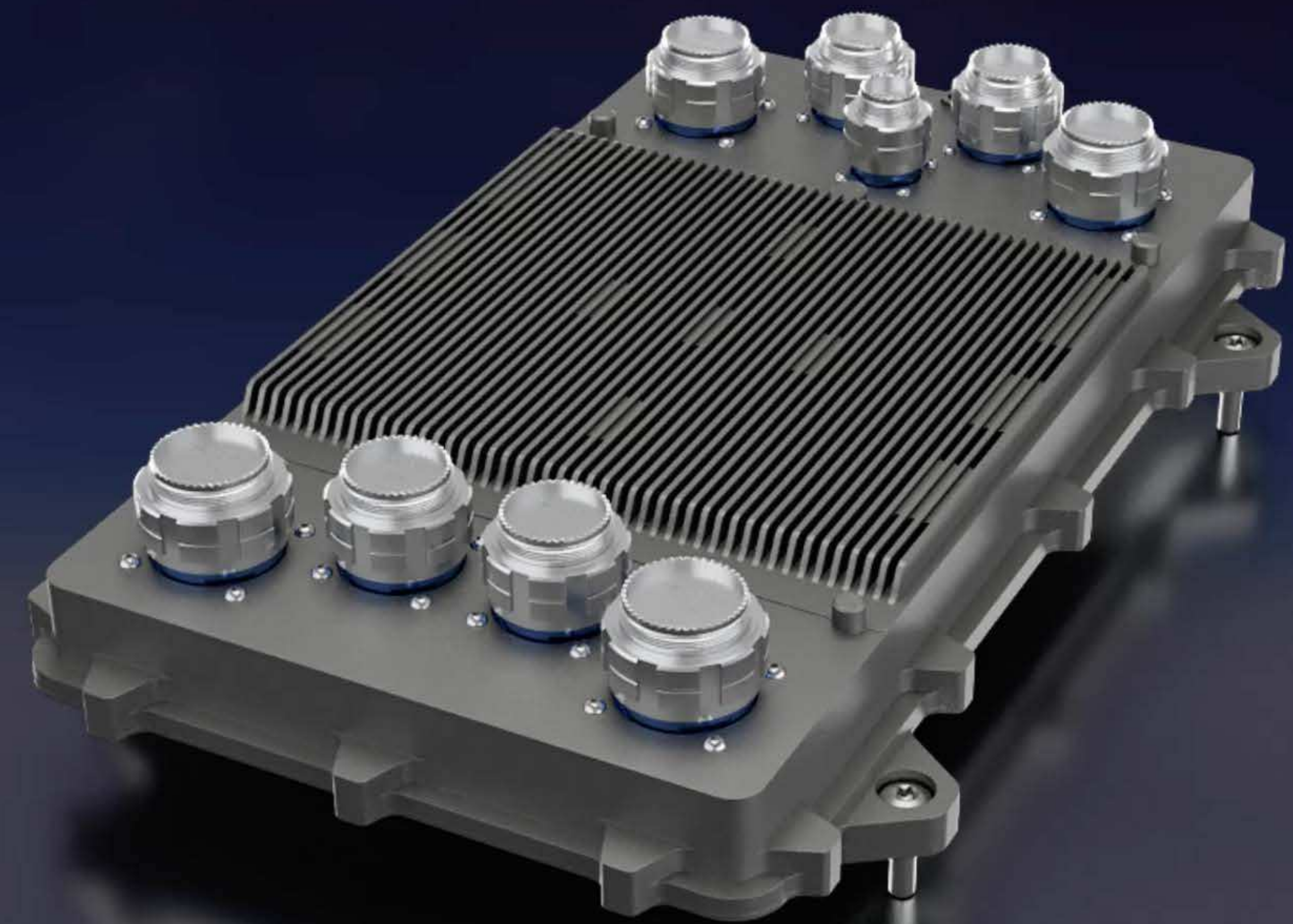
Pioneering experts in green technology

- DC Boost Charger
- Fuel cell DCDC converter
- High-voltage /high speed inverter

EECU/FADEC

Proven fail-operational safety architecture

- Turbo Jet
- Turbo Fan
- Turbo Props
- Combustion Engine



Consult the experts

- Certification
- Safety & reliability
- Safety critical software
- MBSE
- Electronic hardware
- Systems Integration
- Equipment development
- Control system development
- Reverse engineering
- Digital twin
- Requirements management
- Modelling & simulation
- Aeroelastics
- Structural dynamics
- Fluid dynamics
- Ground vibration testing
- Test planning & management
- Flutter
- Flight & ground loads
- Flight performance
- Thermal management
- Power management

Modernisation and modification services to existing airframes

EASA 21J approval (EASA.21J.807) for a wide scope of aircraft modification activities.



(expleo)



SILVER ATENA
an expleo company

 **STIRLING**
DYNAMICS
an expleo company

**40+ years
engineering,
technology and
consulting
expertise**