

## COMPLETE PRODUCT LIFECYCLE ENGINEERING

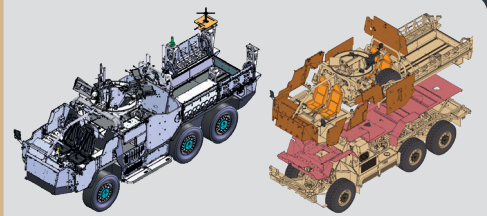
### CONCEPT & PROTOTYPE DESIGN

Creative & resourceful



### DETAILED DESIGN

Systems approach for robust design solutions



### TESTING & PRODUCTION

Rigorous testing and design for  
quality outcomes



### THROUGH-LIFE SUPPORT

Continuous development  
for supportability and maintainability



## CUSTOMER FOCUSED ENGINEERING

Supacat prides itself on delivering customer first engineering. Our focus is to be a reliable, strategic partner that our customers can trust to get the job done in fast-paced, dynamic environments.

Capabilities including:

- concept and prototype development
- requirements management
- testing and production engineering
- systems and integration engineering
- analysis and CAE

# KEY OFFERINGS

## Concept and Prototype Development Engineering

- Design and development of components for rapid prototyping
- Requirements and operational analysis
- Development of interface control documents (ICDs)
- FMEA input into early design concepts
- Design studies and report creation for preliminary design review

## Systems and Integration Engineering

- Vehicle systems design
- Mechanical systems design (metal and composites)
- Electrical systems design and analysis
- Control systems analysis
- Modifications and upgrades development
- Assistance with retro-fitting systems onto existing platforms
- Assistance with integration of Third Party components and/or systems onto various platforms

## Analysis Engineering/CAE Support

- Metallic and composite structure analysis
- Finite element analysis (FEA)
- Materials analysis
- Vibration and fatigue analysis
- Multi-body dynamics analysis
- Structural optimisation
- Support for the optimisation and standardisation of analysis methodology, tools and processes
- Computational fluid dynamics
- Blast simulation and physical testing

## Testing and Production Engineering

- Design for manufacture and maintenance
- V&V Engineering including trial development and planning, and trial management
- Acceptance testing, certification and qualification support
- Fault finding and root cause analysis support
- Support of quality assurance activities
- Translation of engineering drawings and specifications
- Through-life engineering support for platform role enhancements in the form of upgrades and modifications
- Support to safety case
- ILS
- Technical publications
- Training support

# TESTIMONIALS

"We achieved great success in this project which exceeded our own high expectations – we could not have done that without your support."

"I would not hesitate to put your engineers in direct contact with our customers because of their professionalism and enthusiasm."

"Your engineers have such a positive and proactive approach to their work – that attitude combined with their systems mindset allows us to trust them to get work done in constantly changing, highly complex engineering environments."

# CONTACT DETAILS

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