

VEHICLE SYSTEMS & SERVICES



World Leading Military Vehicle Integration and Support Partner

Vehicle Systems and Services (VSS) is a division of NP Aerospace specialising in complete vehicle integration and support solutions. With over 25 years' experience leading complex military vehicle integrations and expertise in composite platform manufacturing, the company is a preferred partner for today's world leading defence organisations. The VSS Team has integrated and supported over 2,000 vehicle platforms used in high threat military environments, including more than 700 Cougar Vehicles. The Team offers through life support and spares services, through its role as Engineering Authority for the UK MoD's Protected Mobility fleet of 2,200 vehicles under the PMETS contract.

Complete Vehicle Engineering and Support Service

PROGRAMME MANAGEMENT EXPERTISE

Our team is led by highly skilled programme managers with decades of experience in leading complex military vehicle projects. Our engineers have worked on the vast majority of vehicle platforms used by the UK MoD including troop carrying, EOD, ambulance vehicles, and have experience of numerous global vehicle platforms.

SYSTEM DESIGN AND INTEGRATION

Our VSS Team has the complete Engineering Authority role for MoD platforms via our Protected Mobility Engineering & Technical Support (PMETS) contract. We are able to integrate complex electronic systems, mission-specific interior fittings, internal stowage and vehicle upgrade systems in short timescales to meet urgent capability requirements.

TESTING AND CERTIFICATION

Our Vehicle Systems & Services Business meets MoD classified security requirements. We manage the full end to end process of vehicle integration including all testing and certification requirements. Our UK facilities also include an ISO 17025 UKAS accredited Ballistics Range for armour testing and validation.

CAMAC ARMOUR DESIGN AND INTEGRATION

We design, manufacture and install advanced multi-hit composite CAMAC platform armour, delivering outstanding protection at up to 50% less weight than the equivalent steel alternatives.

INTEGRATED LOGISTICS SUPPORT

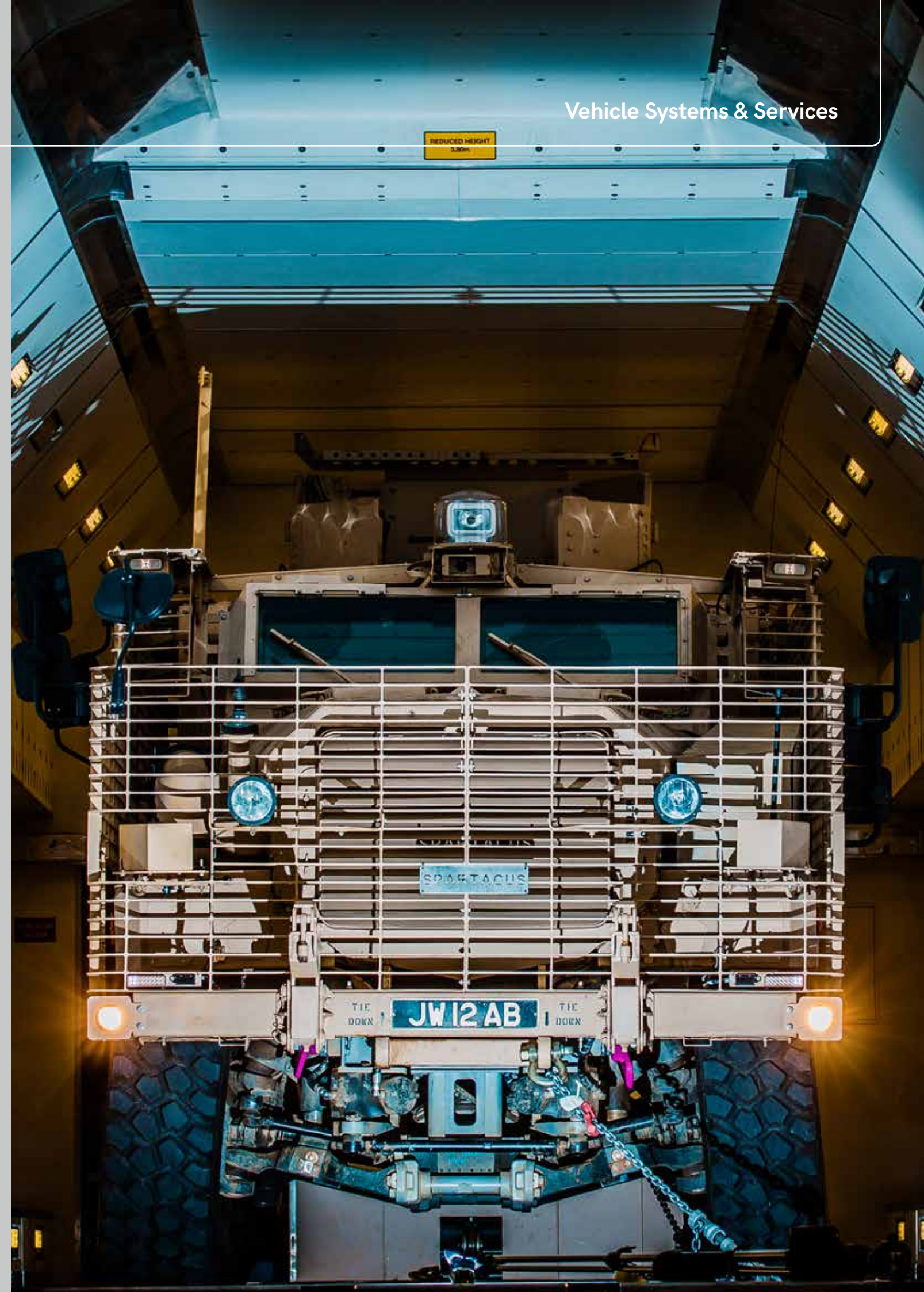
Our integrated logistics support service includes supportability analysis, obsolescence management, configuration management and tailored support solutions.

SPARES

We offer an extensive spares service to meet the needs of customers and specific operations using our robust and proven supply chain.

POST DESIGN SERVICES

As Engineering Technical Support Provider for the entire UK Protected Mobility Vehicle Fleet, we are able to offer a complete post design service. Our agile and efficient vehicle integration processes are designed to meet challenging customer requirements.



Proven Delivery for Global Operations



Designed, integrated and armoured composite Snatch Land Rovers for military and law enforcement operations.



Designed, integrated and armoured over 380 MAN military trucks.



Integrated over 700 Cougar family vehicles and 30 platform variants, including the Mastiff, Ridgback, Wolfhound and Buffalo.



Engineering Technical Support Provider for the entire UK Protected Mobility Vehicle Fleet.



Engineering Authority for Roll Over training simulator used to train military staff prior to deployment.

Latest Technical Innovations



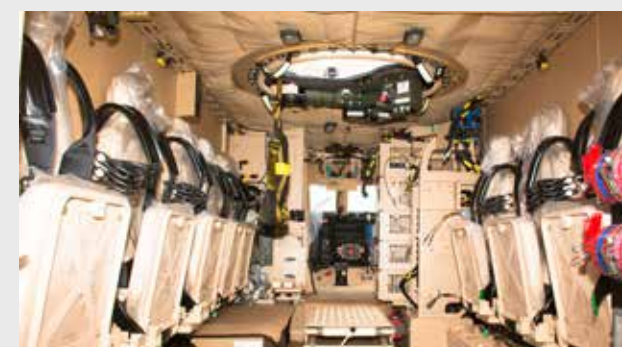
Re-engineered Ridgback and Mastiff Vehicles with new suspension and drivetrain systems for advanced off-road performance in British Army Operation Newcombe reconnaissance programme in Mali, Africa.



New hybrid electric drive Foxhound and Jackal vehicles for the British Army to improve stealth capability and environmental impact, working in conjunction with General Dynamics, Magtec and Supacat.

Our vehicle integration pedigree is built on our extensive integration history, world class facilities and expert know-how, which set us apart from other providers:

- A legacy of delivering complex vehicle integration across a wide range of platforms
- Secure vehicle integration facilities in Coventry, UK
- Agile and efficient vehicle integration processes to meet challenging customer requirements
- A robust and proven supply chain
- Full design and test capability for composite armour including an on-site ISO 17025 UKAS accredited ballistics range



End-To-End Support

POST DESIGN SERVICES

Our extensive vehicle integration pedigree allows us to deliver a range of post design services to enhance the capability of in-service military platforms. We are proud to be the UK Engineering Technical Support Provider for the entire UK MoD Protected Mobility Vehicle Fleet. This includes the Mastiff, Wolfhound, Ridgback, Buffalo, Choker, RODET, Foxhound, Jackal, Coyote and Husky.

THROUGH LIFE SUPPORT

We deliver an extensive range of through life support services such as obsolescence and configuration management.

SPARES AND LOGISTICS

Via our secure warehouse facility, we stock and deliver spares directly to our customers' supply operations, providing a fast response to user demand.

Our inventory planning is based on usage data analysis. We combine logistic planning skills and supply chain management with advanced technical support to deliver a lean and efficient service.



FLEET UPGRADES

We are able to implement vehicle upgrades to meet global safety and legislation regulations from designing bespoke lighting and mirror solutions through to full scale re-engineering upgrades to deliver critical performance capabilities.



REPAIR AND REFURBISHMENT

We are able to rebuild battle-damaged vehicles, restoring them to fully operational conditions and to upgrade vehicle systems according to customer requirements.



PLATFORM ARMOUR

In addition to our leading Vehicle Systems and Services Business we also design and manufacture ultra-lightweight composite CAMAC Platform Armour. Suitable for use in land, sea and air applications, CAMAC armour is up to 50% lighter than the equivalent steel protection. CAMAC armour is designed to meet customer specific requirements and is available in multiple ranges.



CAMAC SPALL LINER

- Improves crew and platform survivability through the mitigation of behind armour effects
- Shaped spall increases coverage by reducing fixing points and greatly reduces installation time
- Enhanced ultimate protection when combined with CAMAC Appliqué or Structural armour
- Up to 50mm thick



CAMAC APPLIQUÉ ARMOUR

- Suitable for new platforms or upgrades
- Extreme light weight multi-hit protection solutions for STANAG 4569 Levels up to 6
- Up to 50% lighter than equivalent steel solution
- Patented encapsulation system giving maximum protection, multi-hit capability and reduced mass



CAMAC SEMI-STRUCTURAL ARMOUR

- Fully customisable weapons station design
- STANAG 4569 Levels up to 3
- Multi-hit performance at significantly lower weights than other solutions
- Lowers vehicle centre of gravity - increasing stability and agility
- Tailored solutions to meet customer requirements



CAMAC COMPOSITE SURVIVABILITY CAPSULES

- Key weight reduction enabler, up to 50% lighter than equivalent steel solution
- STANAG 4569 Levels up to 4
- Elimination of behind armour threats
- Modular and upgradeable CAMAC appliqué packages to suit individual customer requirements

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