

PENMAN



EST 1859 OVER
150 YEARS OF PENMAN 

All over the world our clients are secure in the knowledge they are protected...

PENMAN PROTECTED™



THE PENMAN
GROUP OF
COMPANIES:

PENMAN

CREATION UK
VEHICLE DESIGN & ENGINEERING
A PENMAN COMPANY

ARDVARK
A PENMAN COMPANY

P OVER 150 YEARS PENMAN

Penman has been in business since 1859, evolving from a family business to become part of a UK PLC, and more recently returning to Private Ownership.

Penman operate from a secure site in southern Scotland (15 acres), incorporating 130,000 sq ft of flexible workshop/production space combined with extensive secure vehicle holding areas.

Penman currently employ circa 140 people across a range of disciplines including Mechanical, Electrical/Electronic and Software Design and Development, Project Management and Integrated Logistic Support. We are fully certified to ISO 9001:2008 encompassing all of our key activities.



Penman operate from an integrated design, development, manufacturing and test site from where external customer support services are provided both in the UK and to locations worldwide.

We offer design consultancy services, design and manufacture for third parties and manufacturing capabilities to OEMs and Design Authorities.

We also offer our customers full vehicle Re-role, Refurbishment and Life Extension Programmes to maximise fleet efficiency and value for money.

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P ARMoured Vehicles

PENMAN DESIGN, DEVELOP, MANUFACTURE AND SUPPORT
A WIDE RANGE OF PROTECTED VEHICLES FOR WORLDWIDE MARKETS.

PENMAN METRAS™ MRV

Designed as a platform allowing modularity of options to suit mission profiles. The only vehicle in its class specifically designed with an integrated blast mitigation system consisting of a V-shaped hull as the primary strike face, supported by a unique non-parasitic platform.

- Multi-role capability (allows different body fit configurations)
- Utility across the full spectrum of operations
- Protects against all threats identified in key system requirements
- Flexibility to adapt to new and emerging threats



ARMoured CABS

Penman design and manufacture Armoured Cabs for a broad range of vehicle chassis.

PENMAN ARMoured CABS PROTECTION:

- Ballistic Protection • Mine-Blast Protection
- Fragmentation Protection • Riot Protection

SOLUTIONS FOR ALL CONCEPTS:

- Fully Integrated Replacement Cabs
- Up Armoured Original OEM Cabs
- Applique Kits for Rapid Protection



ARMoured CONSTRUCTION

Penman design and manufacture protected construction equipment on a variety of OEM products including CATERPILLAR, JCB and CASE.



ARMoured SUVs/4X4s/Saloons

Penman design and manufacture protected 4x4 SUVs primarily on Toyota Land Cruiser and Land Rover chassis.

- Toyota LandCruiser • Toyota HiLux • Mitsubishi
- Public Order Land Rover • RAPTOR II
- Ford • Opel/Vauxhall • Skoda

Supply and integration of ECM/Jamming/VHF/HF/UHF/CODAN and SATPHONE systems are available.



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P EOD VEHICLES

PENMAN HAVE DEVELOPED CONSIDERABLE EXPERTISE IN THE DESIGNING & MANUFACTURING OF COMPLEX VEHICLES FOR THE EXPLOSIVE ORDNANCE DISPOSAL (EOD), IMPROVISED EXPLOSIVE DEVICE DISPOSAL (IEDD) AND ELECTRONIC COUNTER MEASURE (ECM) USER COMMUNITY.



System solutions are available on a variety of chassis from commercial van/truck through to specialist military 4x4 and 6x6 Off-Road vehicles incorporating a range of Penman PROTECTED Armour schemes.

Penman can provide a complete system solution including EOD Robots, Equipment and Training.

HOMELAND SECURITY

Penman produce a range of EOD, CT, Surveillance and Command & Control vehicles based on COTS chassis for a variety of Homeland Security applications.

EOD MILITARY

System solutions are available on a variety of specialist military 4x4 and 6x6 off-road vehicles incorporating a range of Penman PROTECTED armour schemes. Integration of the latest state-of-the-art Robot Command and Control Systems, including extensive power provision and management.



P LANDMINE CLEARANCE VEHICLES

Penman design and manufacture protected Equipment for Mine Clearance including:

PENMAN ARMOURED CABS PROTECTION:

- Penman Minder Wheeled Loaders
- Dozers • Backhoe Loaders
- Aardvark AMCS Flail/Tiller Prime Mover

MINE CLEARANCE - AP & AT MINE PROTECTION:

- Mechanical Area Clearance
- Mechanical Support to Manual Demining
- Minefield Quality Assurance



P SPECIALIST VEHICLES

Penman design & manufacture a broad range of commercial and military specialist non-armoured vehicles ranging from:



- Rapid Intervention Fire Vehicles (RIV)
- Land Rover 6x6 Conversions
- Specialist Command and Control Vehicles
- Mobile Training Units
- Mobile Communications Units
- Specialist Logistics Vehicles



P CASH IN TRANSIT VEHICLES

PENMAN ARE ONE OF THE UK'S LEADING VEHICLE ARMOURED. OUR SECURITY VEHICLES TEAM SPECIALISE IN THE DESIGN AND MANUFACTURE OF BALLISTIC AND ATTACK-PROTECTED VEHICLES FOR THE CASH-IN-TRANSIT SECTOR.



We provide totally integrated solutions comprising hardware and operating software. In addition to the Design and manufacture of our own standard range of security vehicles, we also work closely with all main carriers and local authorities creating security solutions required within the CIT sector such as high street collection, trunking, bulk coin carrying, schools, leisure centre, car park meter and ATM servicing.

If you require further information regarding any of our products or wish to discuss specific requirements in detail, please do not hesitate to contact us.



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P MILITARY TRAILERS

LIGHTWEIGHT MILITARY TRAILERS

General lightweight trailer specification:

- GTW 1750kg Laden • Unladen Weight 620kg
- Hydraulic Disc Brakes • Auto Reverse
- Land Rover Wheels and Tyres • Robust and Durable
- Approved for Air-Portability • Low Temperature Range

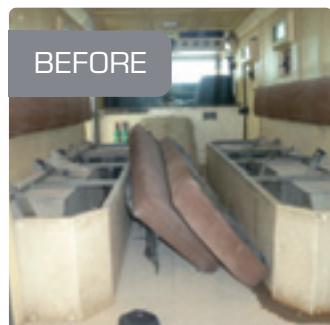


MILITARY/SPECIALIST TRAILERS

Penman design and build Military/Generator Trailers for a range of special applications including mobile workshops.

P RE-ROLE/LIFE EXTENSION

PENMAN PROVIDES A FULL-SERVICE CAPABILITY TO RE-ROLE OR EXTEND THE LIFE OF VEHICLES WHICH HAVE SEEN EXTENSIVE USE.



This service provides Customers with a very cost-effective solution for emerging new capabilities by re-using equipment already in inventory, and in some cases doubling the effective life of the platform.

- Full Chassis Mechanical Refurbishment and Upgrade
- Operational Module Refurbishment and Upgrade
- Re-Armouring, Up-Armouring or Armour Protection Upgrading across a Range of Platforms.
- Design, Development and Manufacture of new Sub-Systems, incl. Electronics, Hydraulics & Pneumatics.
- Chassis and Driveline Modifications and Upgrades available including 4x4 to 6x6, Right Hand Drive to Left Hand Drive, Engine/Transmission/Axle Change, Suspension and Braking Upgrades
- Environmental Control Systems Upgrade, Power Systems Upgrades
- Situational Awareness, Communications and Electronic Counter-Measures Retrofit.



P VEHICLE SYSTEMS INTEGRATION

VEHICLE SYSTEM INTEGRATION

Our System Integration team undertakes the specification, design and integration of associated vehicle based mechanical, electrical and electronic systems, often as part of a broader, complex, fixed & mobile Programme Solution.

We understand the complexities in evaluating installation requirements and the challenges involved with physical integration. Following evaluation and design, we enable successful application to numerous platform types and configurations.

Irrespective of the nature of integration tasks, we are known as experts in our field who can deliver real knowledge and practical solutions to integration challenges... We work closely with a range of major vehicle OEMs and Prime Contractors, who value the capability, knowledge and reliability of our Vehicle System Engineering team.

We take pride in this responsibility and believe it bares witness to the trust that our customers place in both our capability and reliability.



P GLOBAL CUSTOMER SUPPORT

PENMAN PROVIDES COMPREHENSIVE THROUGH-LIFE CUSTOMER SUPPORT ON A WORLDWIDE BASIS. SPARE PARTS SUPPLY AND MANAGEMENT, FIELD SERVICE TECHNICIANS, INTEGRATED LOGISTIC SUPPORT, POST DESIGN ENGINEERING SERVICES, REFURBISHMENT AND OVERHAUL, AND A RANGE OF OTHER ACTIVITIES.

SPARES

Penman provides an extensive Spare Parts supply and management service to our Customers in the UK and Overseas. Our dedicated Spares team handle all aspects of supply and shipping.



INTEGRATED LOGISTICS SUPPORT (ILS)

Penman manage projects through-life, providing in-service support engineering assistance to programmes including addressing reliability failures & managing obsolescence issues.

SUPPORT ENGINEERING SERVICES INCLUDE:

- Integrated Logistic Support Management
- Logistic Support Analysis
- Reliability and Maintainability Analysis
- Spares Analysis and Supply Support
- Failure Mode Effect and Criticality Analysis (FMECA)
- Fault Tree Analysis (FTA)
- Whole Life Costing

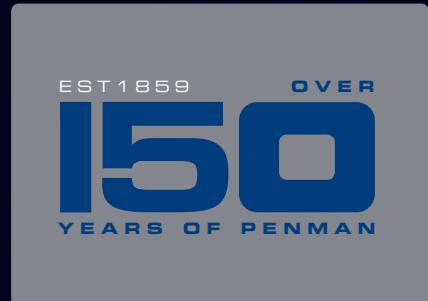
Penman are pleased to support programmes at any level, providing support direct to procurement organisations, prime contractors and original equipment manufacturers in any domain or market sector.



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Heathhall, Dumfries DG1 3NY, United Kingdom

Tel: +44(0)1387 252784 Fax: +44(0)1387 267332 Email: info@penman.co.uk

www.penman.co.uk



Penman Engineering Ltd reserve the right to change designs, technical details and specifications at any time without prior notice as part of our ongoing continuous product improvement activities.