USER FOCUSED SOLUTIONS

PROJECT MANAGEMENT

CAPABILITY DEVELOPMENT

SYSTEMS ENGINEERING

MECHANICAL, ELECTRICAL, COMMUNICATIONS

SIMULATION AND VIRTUAL VALIDATION

TESTING AND VALIDATION

INTEGRATED LOGISTIC SUPPORT (ILS)

ON SITE VIK INSTALLATION



IDES integrated design & engineering solutions

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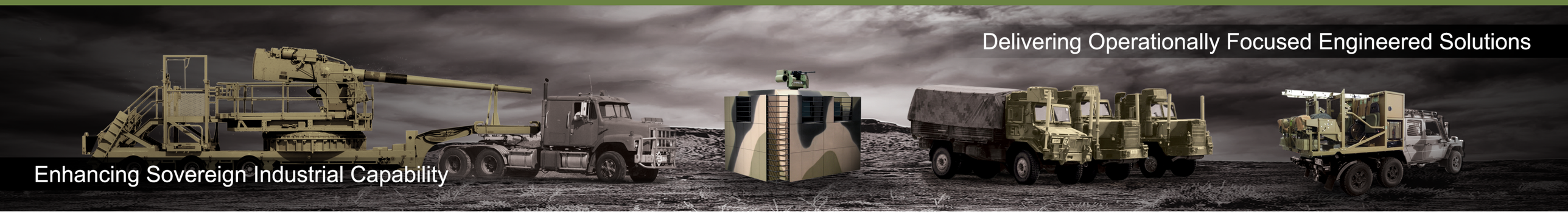
IDES integrated design & engineering solutions



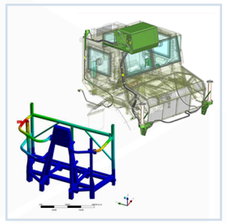
OPERATIONAL ENGINEERING SOLUTIONS

QUALITY SYSTEM CERTIFICATION DNV ISO 9001

AUSTRALIAN OWNED



SERVICES



Systems Integration & Product Development

Integrated Design & Engineering Solutions (IDES) is a Melbourne based, Australian owned, Advanced Product Development & Systems Engineering Company, focusing on mission & safety critical systems.
IDES specialises in delivering engineered solutions - from the concept stage through to product delivery - focusing on ergonomics, operational and through life support requirements.
IDES offers tailored development of bespoke solutions as well as structured integration of customer specified or IDES recommended systems – governed by our Stage Gate Systems Engineering approach utilising highly experienced staff supported by best in class CAD, CAE/FEA and 3D Laser Scanning tools.

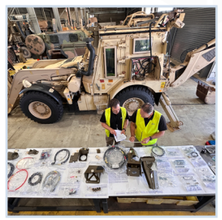
► Special Vehicles and Modifications ► Deployable Land Systems, Modules & Trailers
► Integration of FP-ECM and Land EW ► Emergency Services Systems ► Special Forces Applications
► Survivability Enhancements ► C4I ► ILS - Training, Documentation, Spares and Support



Prototyping and Verification & Validation

IDES advanced design techniques and quality assurance processes enable the rapid delivery of evaluation mock ups & full representative prototypes used to rapidly validate product design, performance and production process. Once prototype validation has been completed IDES can deliver production components and assemblies ensuring quality assurance and inspection, configuration management and controlled supply to customer locations.

► First Article 3D Laser Scan inspection ► Rapid prototype development and manufacture
► Electrical, Power and Communications cabling ► High Precision Components and Assemblies
► Complex Fabricated Structures ► Manufacture and Installation of Vehicle Integrations Kits (VIKs)
► Experienced Secondary Vehicle Manufacturer



Volume Production - Australian Supply Chain

Delivering the Volume Production phase of a project requires more than manufacturing capacity. IDES uses our proven quality processes and sovereign Australian supply chain to provide high quality and reliable production capability. Our Australian-based workforce and supply network enable rapid responsiveness, sustainment support, and long-term program continuity
With proven experience transitioning complex systems from development into full-rate production, we combine rigorous configuration control, quality management, and production engineering to deliver capability at scale.

► Sovereign Australian manufacturing and supply network ► Proven quality and compliance systems
► Agile schedule and reduced program risk ► Enduring production and sustainment support



Mobile Installations - All Barracks - Australia Wide

IDES mobile installation capability enables the rapid deployment, installation and commissioning of complex systems at Defence bases, barracks or any suitable facility anywhere across Australia. Supported by experienced field teams, and proven processes, IDES delivers consistent, high-quality outcomes. This agile approach allows capability to be installed, tested and accepted within the customers existing logistics operations.
With a nationally deployable workforce and strong logistics network, we can support multiple installation activities simultaneously across metropolitan, regional and remote locations. IDES are experienced in coordinating with Defence stakeholders, site personnel and local contractors to ensure safe, efficient and schedule-driven delivery, providing a reliable partner for nationwide rollout and sustainment programs.

PRODUCTS



Large Calibre Ammunition Mobile Testing Platforms

IDES has designed, delivered and is providing In Service Support of Mobile Proof Gun Mounts (MPGMs) used by the Australian Defence Force. The MPGMs provide a mobile capability for the testing of Navy's 5" (127mm) munitions including long range high speed transportation and firing at different range locations.

IDES MPGM system includes:
► Integration of Naval 5” Gun ► Ergonomic Gun Platform suitable to testing ammunition ► High recoil capable ground engagement system ► Powered round lifting system for improved material handling safety
► Weather proof storage solutions ► Training ► In Service Maintenance ► Inspection Plans



Modular Off-Road Radio Facility (MORF) Trailer

The Modular Off-Road Radio Facility (MORF) Trailer is a rugged, rapidly deployable communications solution that delivers reliable, high-quality radio coverage wherever it is needed. Designed for deployment by a single operator, the MORF can quickly establish supplementary or standalone communications networks in remote and challenging environments, ensuring personnel remain safe, connected, and operational when fixed communications infrastructure is limited or unavailable.

IDES MORF Trailer features includes:
► Fully Engineered, Road Registrable, Off-Road, base Trailer ► Self Leveling Outriggers
► 15m Pneumatic Mast ► Solar Panels ► On-board Battery Storage ► Back-up Generator



Vehicle Integration Kits (VIKs)

Defence Platforms and Vehicles regularly require ruggedized integration of advanced communication systems, electronic systems, sensors and mechanical systems to deliver capability outcomes for their operators.
IDES has a proven record in successfully delivering and installing customised integration solutions for Defence, Emergency Services, Transportation and Mobile Health customers.

IDES VIK Deliverables include:
► Engineering Development, Overall Project Management and Quality Assurance ► Rapid prototyping, prototype installation, testing and certification ► Engineered structural mounts ► Electrical and communications cabling ► Full ILS including Training, Technical Publications, Reliability Assessment
► VIK Installation, Spares and In Service Support



Special Purpose Vehicles

The IDES Special Purpose Vehicle is a fully engineered, road-registerable, turnkey capability designed to meet the demanding operational requirements of the most extreme users. Built on a proven platform, the vehicle integrates enhanced cargo capacity, ballistic protection, custom bar-work, integrated communications systems, upgraded braking and suspension packages, and comprehensive 360° illumination in both white and infrared spectrums. This integrated approach delivers a mission-ready solution that combines protection, mobility and operational effectiveness in a single platform.
Engineered for reliability and adaptability, the vehicle can be configured to support a wide range of operational roles while maintaining compliance with road registration requirements. Every system is seamlessly integrated, tested and validated to ensure optimal performance, providing operators with a capable, deployable asset that is ready for immediate service.