

Unidan Engineering builds the toughest Unimog-based off-road vehicles for commercial, industrial, and emergency response. With advanced fabrication and precision engineering, our vehicles thrive in extreme conditions. Since 2011, we've set the benchmark for off-road capability.



CAPABILITIES

- Automotive/Heavy Vehicle Engineering
- Light to Medium Fabrication
- In-house Design & Engineering
- Robot Welding
- Development of cutting-edge materials, components, and conversion systems for extreme-duty vehicles



DISCRIMINATORS

- Australian owned & Operated
- In-house Manufacturing and Assembly
- ICN Registered
- Local sourcing of all parts
- Modern CNC equipment including 6kw Laser, 170T Press Brake, 5 Axis Machining Centre
- Overhead crane with 6T lifting



AREAS OF EXPERTISE

- Precision Engineering
- Cutting Edge Manufacturing
- Innovation Fabrication
- Reverse Engineering
- Offroad Transport, Expedition & Emergency Vehicles



INDUSTRIES SERVED

- Emergency Services inc Fire, SES, Ambulance
- Flood, Storm Rescue & Recovery
- Defence
- Recreation/Adventure
- Tourism
- Mining & Resources

KEY PARTNERS



Mercedes-Benz





NACAP



Challenge

- Provide a safe, reliable and cost-effective long term solution
- Support business in PNG's mining & resources sectors
- Operate in remote, hard-to-access locations with a constant threat of hostile activity

Solution

- Full mechanical, structural, and cosmetic restoration of five Ex-ADF Unimogs
- Custom design and manufacture of critical components, including riot cages and bespoke electrical systems.

Benefits

- Increased reliability with decreased mean time between failure
- Cost-effective maintenance with easily accessible parts
- Replacement parts readily manufactured onsite
- Safe and secure transport for employees in high-risk environments



PSTR/ONE RESPONSE



Challenge

- Deliver a high-clearance vehicle with exceptional wading depth
- Support swift water rescue operations
- Provide secure storage for all necessary emergency equipment

Solution

- Custom design and manufacture of a high-wading vehicle for emergency response
- Integration of extensive storage for essential emergency equipment
- Engineering of interchangeable bodies for adaptable deployment

Benefits

- Universal application, supporting a wide range of emergency scenarios
- Reliable transport through water-logged and challenging terrain
- Interchangeable and deployable body, reducing response time and costs



SES NSW



Challenge

- Deliver high-clearance, purpose-built vehicles for emergency response
- Ensure effectiveness across floods, storms, and tsunamis
- Provide a reliable solution for extreme and unpredictable conditions

Solution

- Custom design and manufacture of Unimog 5023 vehicles to meet SES operational requirements
- Integration of emergency lighting, crane, hydraulic winches, water/dust-proof storage, and advanced communications

Benefits

- Enhanced operator safety with a significantly reduced risk.
- Faster response with access to difficult terrain where traditional vehicles struggle.
- Onsite manufacturing of replacement parts for minimal downtime.