



MINING LIGHT VEHICLE PRODUCTS AND SERVICES







WHO WE WORK WITH

DEVELOP



Barminto



Newmont™

ANGLO
AMERICAN



BRIGHTSTAR
RESOURCES LIMITED

Complete Mine Site Fit Outs

ELM Engineering specialises in delivering complete mine-specification light vehicle solutions for both underground and surface mining operations. Every vehicle is engineered to maximise safety, compliance, reliability and asset life, with each build tailored to meet individual site standards and operational requirements. From custom electrical systems and corrosion protection to safety equipment, fabricated components and fire suppression, ELM provides a complete turnkey solution ready for immediate deployment.

Why Choose ELM?

- Mine compliant builds
- Engineered solutions
- In-house fabrication
- Auto electrical specialists
- Custom wiring harnesses
- Australian quality
- Flexible Tailored Solutions

Custom Electrical Systems

Every vehicle is fitted with a custom-designed electrical harness engineered specifically for the selected platform, providing reliable integration of all electrical accessories and allowing for future expansion.

Features

- Custom front-to-rear electrical harness
- IP66-rated stainless steel electrical enclosure mounted in the engine bay
- Clearly labelled accessory relays and fuse panel
- Individual fused and relayed circuits for every accessory
- Fully enclosed braided conduit
- Fire-retardant wrapped connectors and wiring
- Deutsch plug connections for all additional harness splices

Corrosion Protection

Additional corrosion protection is applied to maximise vehicle life in harsh underground and surface mining environments.

Features

- Underbody rust protection
- Protection applied to interior sill panels and side steps
- Colour-coded RhinoLite 2K protective coating around the windscreen
- Black RhinoLite 2K protective coating to lower doors, side panels, sill panels and interior step areas

Mine Lighting Package

Designed to maximise visibility, improve operator safety and ensure mine site compliance.

Standard Features

- Amber beacon with integrated 97dB reverse alarm
- LED work lights
- LED high-mounted reverse, stop, tail and indicator lights
- LED low-mounted reverse, stop, tail and indicator lights
- Spotlights
- LED tray headboard lighting

Vehicle Accessories

Purpose-built components engineered for demanding mining environments.

Features

- ELM galvanised mining tray body
- ROPS Certification
- Poly SmartBar bullbar
- Underbody spare tyre carrier
- IP66-rated stainless steel electrical enclosure
- Rearward-facing snorkel
- SIBS braking system or inline driveline brake caliper
- GVM upgrade or heavy-duty suspension upgrade
- Custom poly inner door skins
- Stainless steel sill panel guards
- Door restrained safety strap
- Side steps
- Tow bar with wiring harness and plug
- Wheel chock holder and wheel chocks

Auto Electrical Accessories

Integrated electrical systems designed to improve vehicle functionality, safety and operator awareness.

Standard Features

- DVR digital video recorder Front Facing
- UHF radio system
- VHF radio system
- Engine protection and monitoring systems
- DVR rear facing
- Reverse camera and display
- Red lockable battery isolator
- Yellow lockable starter isolator
- Clutch start switch

Fire Suppression System

Integrated fire suppression systems designed to protect personnel, equipment and critical vehicle components.

Standard Features

- QTEC 12L LOP fire suppression system
- AFFF cylinder mounted behind the tray headboard
- Nozzle coverage for alternator, exhaust, starter motor and battery
- Minimum 45-second discharge time
- Dual activation valves
- Electrical alarm module conforming to AS5062
- Non-fluorine foam agent
- 9kg dry chemical fire extinguisher with mounting bracket

Vehicle Fit out Comparison

ELM Engineering offers a comprehensive range of mine-specification light vehicle configurations, purpose-built to suit the unique requirements of underground and surface mining operations. Whether you require a general service vehicle or a specialised fit-out for maintenance, electrical, production or explosives applications, every vehicle is engineered, manufactured and assembled to meet your site's operational, safety and compliance requirements.

Nippers Features

- Bolt / Split Set Holder
- Drill Steel Holder
- Lockable Toolbox

HV Electrical

- Electricians toolbox
- Fold-down vice holder
- Dawn vice
- Dual battery system
- Redarc isolator
- Custom battery enclosure integrated into tray
- 1000kg Kevrek crane
- Jack leg
- Reinforced tray
- Manual or pendant crane control

Fitters

- Jerry can holder
- Fitters toolbox
- 2 × 110L oil tanks
- 12V electric oil pump
- Oil retractable dual pedestal reel
- Sight glass
- Breather
- Oil control valve
- Fold-down vice holder
- Dawn vice
- Pneumatic 20L grease system
- Retractable grease reel
- Grease gun
- Air pedestal retractable reel

Explosive

- Australian certified explosive transport box (half or full size)
- Certified explosive tray
- Blue / Red beacon system
- AFFF system
- Explosive signage
- Certification plaque and documentation

Fire Suppression



Qttec Fire Suppression

ELM Engineering supplies, installs and maintains Australian-made automatic fire suppression systems designed specifically for mobile mining equipment and heavy machinery. Our systems provide rapid fire detection and suppression, helping protect operators, minimise equipment damage and reduce costly downtime.

Designed for the harsh Australian mining environment, our vehicle fire suppression systems are available for both underground and surface applications and comply with Australian Standard AS5062.

Features

- Australian Made fire suppression systems
- Designed to AS5062
- CSIRO ActivFire Listed
- Low-pressure foam suppression technology
- Automatic and manual activation
- Pneumatic or electronic fire detection
- Engine shutdown integration
- Audible and visual alarms
- Compact and standard cylinder options
- Custom engineered for mining equipment
- Nationwide servicing and support

Applications

- Suitable for:
- Underground mining equipment
- Surface mining equipment
- Light vehicles
- Heavy vehicles
- Loaders
- Underground trucks
- Drill rigs
- Excavators
- Dozers
- Graders
- Agricultural machinery
- Construction equipment

FIRE SUPPRESSION

Detection Options

- Our systems can be configured to suit the application using:
- Pneumatic detection
- Pneumatic manual activation
- Linear Heat Detection (LHD)
- Electric manual activation
- Combination detection systems
- This flexibility allows ELM to engineer the most appropriate solution for each machine and operating environment.

Sizes

- Available cylinder capacities:
- 12L 20L 25L 30L
- 35L
- 45L
- 65L
- 88L
- 106L

ELM Services

- ELM provides a complete turnkey fire suppression solution including:
- System supply
- Engineering consultation
- Machine-specific design
- Installation
- Commissioning
- Certification
- Scheduled inspections
- Preventative maintenance
- Recharge services
- Fault diagnosis
- Repairs
- Replacement components

Our Process

From initial consultation through to final delivery, ELM Engineering follows a structured project management process to ensure every vehicle is built to the highest standards of safety, quality and compliance.

1. Consultation

We work closely with you to understand your operational requirements, site standards and vehicle application.

2. Mine Specification Review

Our team reviews your mine specifications and compliance requirements to ensure every detail is incorporated into the build.

3. Quotation

A detailed quotation is prepared outlining the recommended configuration, scope of works and project deliverables.

4. Engineering

Our engineers develop a tailored solution, including electrical systems, fabricated components and vehicle modifications.

5. Manufacture

All fabricated components are manufactured and prepared to ELM's stringent quality standards.

6. Vehicle Build

Our experienced technicians complete the vehicle fit-out, integrating all accessories, electrical systems and specialised equipment.

7. Quality Assurance

Every vehicle undergoes comprehensive testing, inspection and quality assurance before handover, ensuring it is fully compliant and ready for service

8 Delivery



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GLOBAL PRESENCE

ELM Engineering operates across key regions to deliver quality solutions and support to our global partners.

