



EXPLOSION PROOF ENGINES & VEHICLES



Mine Bug RTV X900

Power Skid

MINEBUG RTV X900 – 2-SEATER

MINE BUG AUSTRALIA PTY LTD
PH: (+61) 02 4871 2600
FAX: (+61) 02 4872 2077
Glenn Down: Director gdown@minebug.com.au
7 Braemar Ave, BRAEMAR, NSW, 2575, AUSTRALIA

WWW.MINEBUG.COM.AU





The Mine bug is a Low-Cost Mine compliant 4x4 powered utility RTV vehicle.
Developed specifically for mine runabout light duties, including but not limited to;

- ✓ Mine management
- ✓ Maintenance fitters & electricians
- ✓ First aid personnel
- ✓ Contractors



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| Specification | | MINE BUG |
|---|----------------------------|---|
| Model # | | Mine Bug X900 W-H |
| | | Contact Glenn Down--0417-251639---02-48712600 |
| Engine | Make | Kubota D902-E4-UV |
| | Type | 3-cylinder, 4 cycle, Diesel, OHV |
| | Displacement | 898cc |
| | Power | 16.1KW @3200rpm |
| | Cooling System | Liquid; Staggered four core cross flow radiator, temperature sentinel 100 Degree C |
| | Starter | Pneumatic 125psi Vane Starter |
| | Inlet system | MS manifold c/w 316SS Amal Flame Trap; Manual Strangler valve; Kubota inlet air filter |
| | Exhaust System | 316SS Wet scrubber c/w dual low water float valves, hi water float valve, Freudenberg Particulate filter; temperature sentinels 77 Degree C |
| Onboard Air Compressor | V Belt Driven | Clisby 500 |
| Transmission | | Variable Hydrostatic Transmission (VHT-X) |
| Gear Selection | | Hi-Lo range forward, neutral, reverse |
| Max Speed | | 38kph |
| 4WD system | Front differential | Limited-slip differential |
| | Rear Differential | Foot operated differential Lock |
| Steering | | Hydrostatic Power |
| Brakes | Front/Rear | Wet-disc brakes |
| | Parking Brake | Rear Wheels Spring applied/compressed air override |
| Suspension | Front Suspension | Independent, Dual A-arms with adjustable spring preload |
| | Grease points | remote grease lines 6 point |
| | Front Suspension travel | 205mm |
| | Rear Suspension | Independent with coil over shock |
| | Rear Suspension travel | 205mm |
| | Grease Points | remote grease lines 12 point |
| Ground Clearance | Front | 266mm |
| | Rear | 263mm |
| | Underfoot Platform | 280mm |
| | Max water immersion | 300mm |
| Lights Alternator Handheld Control Reversing Switch Methane Monitor/Shutdown | MAE | Flameproof LED front and rear |
| | MAE | Flameproof Alternator 4x 12V 300W V belt driven |
| | MAE | MAEIRMK2 |
| | AMPControl | ATF900 enclosure |
| | Ausdac | Vehicle Gas System NGVG3-1----includes s Trollex Sniffer and Display, Ausdac Controller and lockout switch, |
| | | |
| Occupant Protective System (OPS) | Windscreen | Laminated Glass |
| | Windscreen Wiper | Hand Operated Windscreen Wiper |
| | Metal Full Height Doors | Doors c/w Sliding Glass panel/ pneumatic interlocks |
| | Tubular overhead structure | 50.8 steel tube |
| | Metal Canopy | Kubota |
| | Seat Belts | 2 point |

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| | | |
|---|----------------------------------|--|
| | Reversing Horn | Pneumatic |
| | Horn | Dash Board mounted |
| | Certification | SAE J2194 and OSHA 1928 ROPS |
| Dimensions | Length | 3110mm |
| | Width | 1600mm |
| | Height, overall | 2000mm |
| | Front tread centres | 1240mm |
| | Rear tread centres | 1240mm |
| | Wheelbase | 2045mm |
| | Turning radius | 4M |
| Weight Payload capacity Towing capacity | Gross c/w fluids | 1270kg |
| | Driver, Passenger and Load | 350kg |
| | Not Approved for towing | n/a |
| Cargo Bed | Material | Steel |
| | Width Length Depth | 1465 x 1030 x 285 |
| | Volume | 0.43M3 |
| | Bed Height (unloaded) | 887mm |
| | Cargo Bed Load | 250kg plus driver and passenger |
| | Dumping system | Hydro Power Lift |
| Fuel Tank capacity | Plastic | 30L |
| Air Receiver | Mild Steel | 28L |
| Scrubber Water | 316SS | 43.5L |
| Makeup Tank | 316SS | 3.8L |
| Radiator Header Tank | Mild Steel | 18L |
| Hydraulic Oil Tank | | |
| Vehicle safety systems | Flameproof Lights and Alternator | |
| | Inlet Manifold c/w Flame Trap | |
| | Pneumatic Safety Circuit | Pneumatic Temperature Sentinels---over temperature safety circuit system air pressure dumped--fuel rack closed--park brake applied |
| | Emergency Engine shutdown | Liquip shutdown valve manually operated from Cabin-Strangle air intake to inlet manifold |
| | Methane CH4 Monitor & Shutdown | Engine start restrained until monitor allows, if excess CH4 then system shuts down engine |
| | Fire Extinguisher | 2.5kg Powder |
| | Fire Suppression | Available as an Option |
| | Door Open Interlocks | Pneumatic Door Interlocks----Door open Park brake spring applied---fuel rack closed |
| Sound rating at operators' ear Tyres Tyre Option | At max rpm | 85dba |
| | | 25 10-12, 8Ply |
| | | Options 12Ply |

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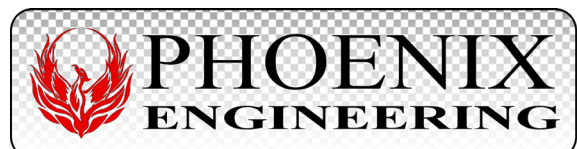
POWER SKID

This machine fills a gap in the provision of an approved **FLAMEPROOF DIESEL ENGINE SYSTEM** for **UNDERGROUND use**. The POWER SKID can be used for many applications and offers availability for mine engineers to develop specific solutions



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POWER SKID

BASIC SPECIFICATIONS & FEATURES

- Kubota D902 3-cylinder DINA TIER 4 developing 20 kW @ 3600RPM. Mechanical governor (no electronics)
- This engine has been fully tested at Test Safe Londonderry to AS/NZS 3584.2 – 2008 for explosion protected diesel engines and is design registered for use in underground coal mines in NSW.
- The engine does not require disposable exhaust particulate filters to comply with the EPA exposure limits when operated in accordance with New South Wales guideline MDG 29.
- This engine system has a SAE 6-1/2 PTO which could be used as a power source for various purposes in an underground environment as a power source to run machinery such as
 - Pumps
 - Hydraulic Power Packs
 - Compressors
 - Fans/Blowers, etc
- The skid base has a robust design and has fork tyne pockets as well as RUD lugs which means that it could be moved by a fork lift or be lifted by a crane.
- The system comes with on-board pneumatic management system including air starter motor
- Flameproof alternator, strobe light and hour meter are provided with the system.
- The system has an option of including a Methane monitoring/shutdown system

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