Miretti Explosion Proof +200 vehicles for mining and tunnelling sectors annually

Miretti explosion protects
- MULTI SERVICE VEHICLES (MSV)
- DUMPERS – WHEEL LOADERS – EXCAVATORS – MIXERS
- PERSONNEL CARRIERS
- DRILLING VEHICLES
- MONORAIL
- AMBULANCES
- CRANES
- TBM

The production range also includes explosion proof sophisticated lighting systems, electricity sub-stations, data transmission and gas detection/monitoring and control systems.

All products satisfy the requirements for use in environments with presence of gas, flammable powders and coal dusts.

Miretti also adopts an environmental friendly approach by using gas purification systems for exhaust gases.

With this strategy Miretti can offer: Design - Customisation - Lead Time - Quality - Safety - Service.
Mining Industries
Examples of Explosion Proof Protections applied to Mines Vehicles and Equipment
Tunnelling Industries
Examples of Explosion Proof Protections applied to Tunnels Vehicles and Equipment

Over 40 years dedicated to the environment and safety of the workers
Tunnels and Mines Integrated Gas Monitoring System (IGMS)

Miretti can provide Integrated Safety and Security Systems (and not only simple components).

The Miretti Integrated System allows the control and monitoring of the explosive gas in combination with the pollutant substances. Our Systems can control also the tunnel ventilation apparatus.

Miretti can offer the customer a Complete Solution for the Safety and Security Management of the entire working site.

Miretti Monitoring System is supplied, integrated and certified in compliance with the main Worldwide Explosion Proof Regulations such as: ATEX, NEC, MA, MSHA, IECEx, EAC. It is also possible, on request, to have a Notified Body Approval of the entire Miretti System.
**Modular Station for Tunnelling / Power & Control Cabin / Enclosed Operator Control Room**

6/04 KV – 530 KVA – Ex-p Group I M2, installed on a mobile base for tunneling with presence of explosive gases.

The pressurization and cooling systems are supplied with dry compressed air by means of a standard industrial compressor.

The purge allows a safe functioning in dangerous atmosphere and the air is also used to cool the apparatus.

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**Tower Lights**

Lighting system for Group I, composed of a tower and explosion proof metal halide floodlights.

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**Enclosures**

Material: Carbon Steel or Stainless Steel

Suitable for Group I M2 - ATEX 2014/34/EU for USA & CANADA

Marking:

- I M2 Ex d I
- I M2 (M2) Ex d [ia] and/or [ib] I
- I M2 (M1) Ex d [ia] I

Class I Division 1 Group C D T3C - Class II,III Division 1 Group E F G T3C

Ambient temperature: -20°C +55°C - Protection degree: IP 65

Sizes on request

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**Led Explosion Proof Lights**

This new special led light is suitable in any hazardous area, both Group I - mining – and Group II (Zone 1-21 and Zone 2-22) - surface.

Advantages: total respect of environment, high luminous efficiency, low heat, no radiation and low energy consumption. It can work in high vibration conditions. The average working time is about 50,000 hours with a long-term of maintenance-free period.

The LED explosion proof light can be wall and pole mounted, with easy installation and wiring operations. Moreover, the soft light does not cause any glare or any eyestrain to the operating personnel.

Version with emergency unit is available for 60 and 90 minutes.
Miretti’s products are certified in compliance with current local regulations, collaborating with the most important Notified Body & Testing Laboratories Worldwide: ATEX, NEC (FM), IECEx, EAC, MA, MSHA.

Our Certifications, your Safety
Miretti’s products are certified in compliance with current local regulations, collaborating with the most important Notified Body & Testing Laboratories Worldwide: ATEX, NEC (FM), IECEx, EAC, MA, MSHA.

Customers

After Sales Service
The Miretti after-sales service, present in most countries, ensures fast response times, dedicated assistance, telephone and on-site support and the availability of specific spare parts for more than ten years to help maintain constant productivity for customers.

Why choose Miretti?
Miretti has been leader since 1973 in the Explosion Proof Protection of vehicles and boasts impressive experience in the field. The company operates all over the world with branches in USA, China, Germany, UK, France, Hungary, Benelux, Australia, Singapore. Miretti is ISO 9001 and ISO 14001 certified and is an approved supplier for the most important world producers. Constant research focuses on new technologies and innovative solutions. All explosion proof conversions are developed and implemented in agreement with OEM Original EquipmentManufacturers to maintain original safety levels and ergonomics in conformity with local standards and regulations. Miretti ensures a reliable after-sales service, qualified technicians, quality and fast maintenance.

Focus on... CoatEx
CoatEx provides a thermal barrier between hot engine surfaces (e.g. turbochargers and exhaust manifolds) and the external atmosphere. CoatEx enables the OEM “dry” turbocharger and manifold to be retained, reducing M2 conversion costs and minimising risk of failure by fitting non OEM turbo and water cooled manifold. CoatEx Solution is certified for use in M2 environments.

Dry FilterEx Cooler Technology
A ‘compact’ exhaust cooling system with integral self-cleaning exhaust flame arrester. Enables maximum engine ‘uptime’ as the self-cleaning flame arrester can operate for approx. 1000 hours before requiring cleaning. Reduces costly service maintenance against option of conventional exhaust flame arrestors that need to be changed every 20 hours.

DPF Systems
Miretti can Explosion Proof Protec different typologies of DPF Systems by CoatEx insulation.

Our Certifications, your Safety
Miretti’s products are certified in compliance with current local regulations, collaborating with the most important Notified Body & Testing Laboratories Worldwide: ATEX, NEC (FM), IECEx, EAC, MA, MSHA.

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Expertise of over 40 years
Quality & Innovation
Competitive Pricing
Certifications & Testing
After Sales Service
Training & Product Education
Research & Development
Reliable Customized Solutions
Global footprint

Engineering Excellence and High Quality Know How in Industrial, Oil&Gas, Coal Mining and Tunnelling Sectors.
Miretti Production Facilities are located in:

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