

Depollution of vehicles



A vehicle contains both liquid and solid elements classified as hazardous. Fuel, used oils, brake and coolant fluids, windshield washer fluid, if not treated properly or in accordance with current regulations, can severely harm the environment by polluting the soil and water. Only after undergoing this treatment can an ELV be reclassified as non-hazardous waste.

Vacuum extraction

- Extraction of polluting fluids: coolant, brake fluid, windshield washer fluid, engine oils, and hydraulic oils, LHM.
- Selective fluid aspiration with 99% vacuum.
- Transfer tank (small volume) or storage tank (large volume)
- Scalable installation with the possibility of expanding tanks and workstations.

Other applications

- Air pollution control,
- Air or other gas sampling,
- Leak testing,
- Smoke and/or dust extraction.

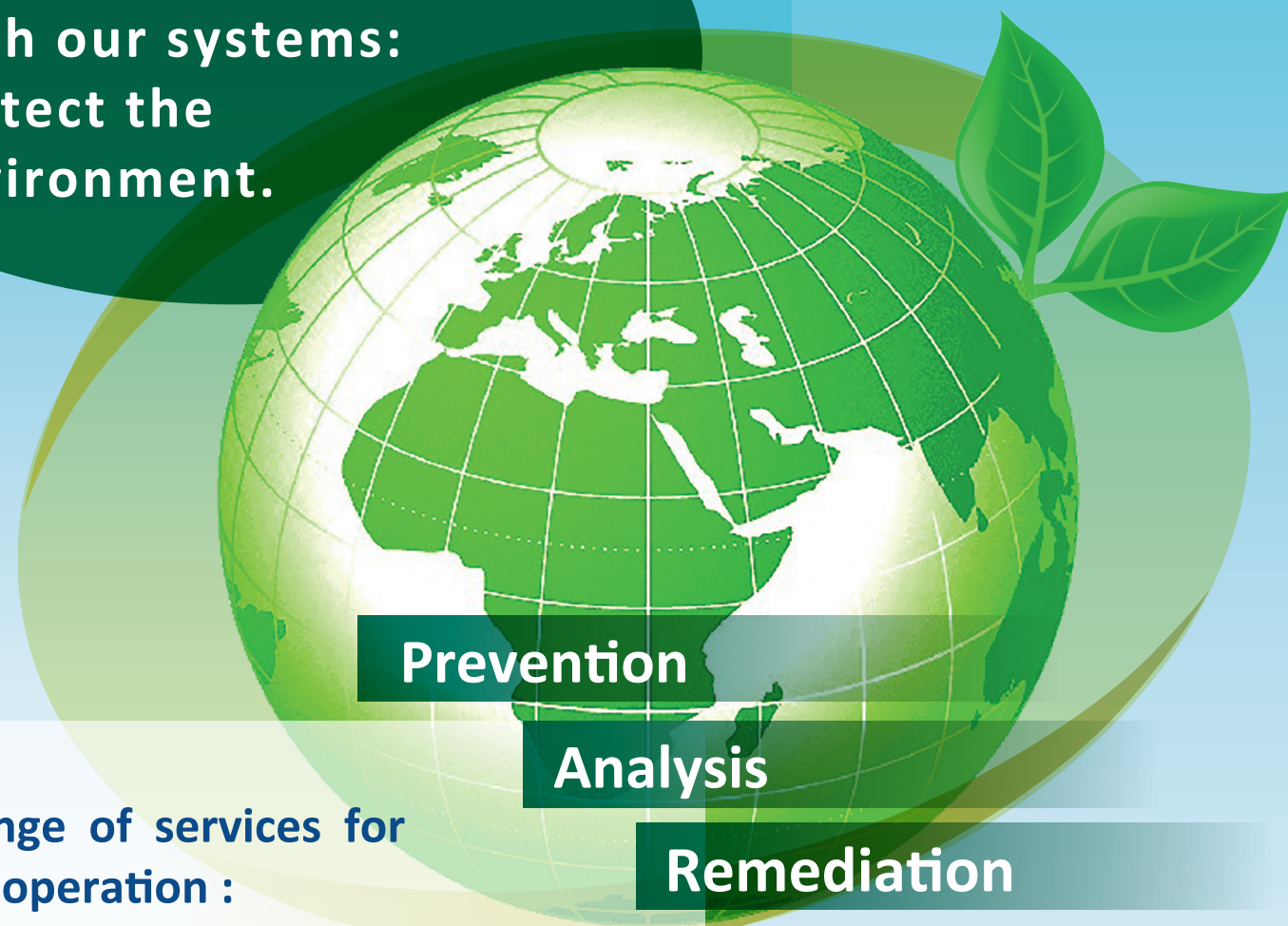


Our resources

Mil's, a French manufacturer founded in 1926, currently has a team of 109 people spread across three production site in Lyon.

- **Salespeople** to listen you and to understand the constraints of your applications,
- **A design office**, 10% of the workforce, to offer you or to develop the best solution,
- **A productive space** of more than 15,000m², with several assembly and machining workshops,
- **Aftersales service** : also to provide advice for optimizing your equipment's performance.
- **Training** : To understand, to install and to service your plant numerous modules about air, vacuum and oxygen are available.

**With our systems:
protect the
environment.**



A range of services for your operation :

Manufacturer of vacuum pumps, blowers, and oxygen generators, MIL'S steps in to assist you. Our mastery of the entire process, from design to marketing, ensures the perfect quality of our products.

Our ranges offer a wide variety of equipment, from vacuum pumps and blowers to complete systems. of vacuum, air and oxygen on-site production.

Research and development of new products: MIL'S is continuously in pursuit of the most relevant solutions.

A comprehensive offer...

If your operations involve vacuum, compressed air, or oxygen, our wide range of technologies will provide you with the most suitable solutions for your application. We select the equipment with you based on your criteria: operating costs, maintenance frequency, size, noise level... Numerous accessories complement our offer.



www.mils.com

... and customized solutions,

Is your application unique ? Aware of your requirements and demands, such as working in humid environments, handling aggressive gases, operating at high temperatures, or being located in ATEX zones, we have developed specific equipment for your industries. We are able to adapt existing models or develop new products to build customized solutions tailored to your needs.

Thanks to the partnership we maintain with our clients, we define the specifications together, ensuring the fulfillment of our commitments.

In compliance with regulatory requirements.

Do suppliers meet your quality standards ? MIL'S pumps and systems are manufactured in France, near Lyon, in compliance with environmental and safety standards. Moreover, they all undergo individual testing before shipment.

Our equipment is CE marked and produced in compliance with the requirements of ISO 9001:2015 and ISO 14001:2015 standards.



Vacuum sewage system



Gravitational sanitation facilities cannot be used in sensitive or challenging geographical areas (proximity to lakes, rivers, or the sea, marshy ground, drinking water catchment areas, etc.). In these environments, vacuum sanitation emerges as an excellent alternative. Our vacuum stations, equipped with lubricated or oilless pumps, allow for the suction of effluents and their conveyance to the storage tank.

Power station with Evisa or Sirella pumps

- High capacity of pumps to evacuate water vapor.
- Extended range of liquid trap pots.
- Pump control system to adapt to demand variations.

Vacuum sanitation is not only used for collecting wastewater from households but also in harbors to preserve the natural river or marine environment. Collection terminals allow for the collection of black water, grey water, and motor oils.

Aeration and oxygenation



At this treatment stage, the aim is to increase the oxygen content in the water for it to be disposed of or reused safely. Regenerative blowers are the most used way in small or medium sized ponds.

On site oxygen production plants offer a highly efficient solution, breaking down organic matter, promoting the faster growth of beneficial microorganisms, and neutralizing harmful components.

Other applications

- Vacuum pumping
- Back washing of sand filter
- Effluent concentration
- Ozone generator
- Effluent concentration
- Odor removal



Soil treatment



Soil pollution management is experiencing significant growth both on the account of the presence of industrial brownfields (metallurgy, chemistry, etc.) that must be decontaminated, and on of the urban expansion encroaching on industrial areas.

The vacuum extraction, or 'venting,' creates an air depression in the soil from a well allowing for the vaporization of volatile compounds.

«Striping» or «air sparging» extends «venting» to water-saturated zones by injecting air to physically extract pollutants from the water. Rotary vane or claw pumps with vanes or nozzles, and side-channel turbines, are used in soil rehabilitation processes. The injection of oxygen produced by O2 generator enhance the activity of organisms, accelerating pollutant degradation.

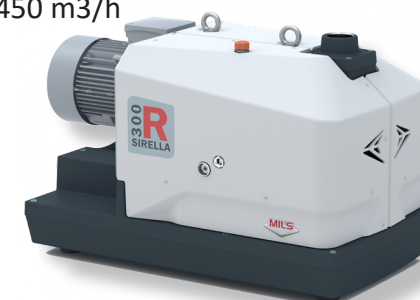


EVISA lubricated vane pumps

- Flow rates up to 630 m³/h
- Maximum vacuum 0.06 mbar
- ATEX versions available

SIRELLA claw pumps

- Flow rates from 95m³/h to 450 m³/h
- Maximum vacuum 50 mbar



Biogas production

For the past years, biogas has been established as a sustainable method of energy production. However, the fermentation of organic matter produces hydrogen sulfide that must be removed to use the biogas. To neutralize it, the most widespread solution is the injection of gaseous oxygen into the digester roof.

