

DRAIN, SEWER AND INDUSTRIAL PIPELINE

CLEANING, DRILLING, REHABILITATION, WASTE MANAGEMENT & CCTV INSPECTION SPECIALISTS



From pipe surveying to industrial vacuum units, our services are highly efficient and incredibly mobile, requiring no nearby utility services to carry out a job.

Rescue Rod is a leading specialist in the provision of pipeline cleaning and maintenance solutions in Southern Africa.

Our reputable privately owned company, which has been in operation since 1990, provides a comprehensive range of services that comprise drain cleaning, horizontal drilling, pipe bursting, wet and dry vacuuming, pipeline condition assessment, underground utilities detection, septic tank drainage and water supply.

The range of services the company offers is the most comprehensive in the region. We pride ourselves on maintaining exceptional standards of service efficiency at all times in all the branches of operations we perform. We apply the most advanced technologies and expertise available and conform to international standards in all the services we provide.

The company deploys a large fleet of world-class specialised vehicles and associated equipment, operated by highly skilled employees. We ensure that all environmental, health and safety standards are strictly observed at all times.

Since inception Rescue Rod has

consistently applied a philosophy of continual improvement throughout its business operations. We regularly review our services, internal processes, equipment and the skills and motivation of our employees – all with the aim of introducing further improvements wherever possible and practicable to the benefit of our clients. In addition, our services are available 24/7 all year round.

Research & development as well as regular training of our employees are given priority to ensure that all branches of our service provision are maintained at the highest level. We regularly canvass the views of clients on the quality of our services as a further measure of guaranteeing service excellence throughout our operation.

Our clients include a host of well-known as well as lesser-known companies who will vouch for the quality and efficiency of our services.

Health and Safety

Health and safety are of paramount importance in our organisation. This includes ensuring that our employees comply with all health and safety procedures applicable to the range of

services we provide. In addition, we ensure that the environment in which our employees work is safe and that they wear protective clothing and relevant equipment as legislated. Our employees are given the necessary instructions and training to correctly implement the prescribed systems for identifying risks, as well as for monitoring and controlling the various health and safety hazards they and their colleagues may be exposed to in the course of their work. We possess the required official certifications for the handling and transportation of all types of hazardous waste, including asbestos.

Our health and safety procedures include regular meetings and briefing sessions to further ensure that our employees adhere to the procedures at all times.

Training Programmes

Regular professionally managed formal training is provided to our employees in accordance with their respective responsibilities.

The courses provided cover all aspects of our business, ranging from technical training relating to the equipment deployed to aspects that include transporting of dangerous goods and handling of asbestos and other hazardous materials.

We provide a comprehensive range of services in pipeline maintenance and related functions, in which we apply an array of cutting-edge technologies best suited for each service in terms of efficiency, speed of operation, cost-effectiveness and environmental friendliness.

We deploy the most advanced equipment available worldwide and employ well-trained and highly skilled personnel to execute the work.



INDUSTRIAL & COMMERCIAL DRAIN CLEANING

RANGE OF SERVICES OUR SERVICES ENCOMPASS

Drain Pipe Cleaning
Horizontal Drilling, Including Rock
Pipe Bursting
Wet & Dry Vacuuming
CCTV Pipeline Condition Ass.
Septic Tank Drainage
Water Tankers
Waste Management
Trenchless Molding
Pipe Rehabilitation -
Primus Liner & CIPP

INDUSTRIES INDUSTRIES WE SERVICE

Construction
Electrical
Food & Beverage
Manufacturing
Mining
Municipalities
Plumbing
Tourism & Hospitality
Waste Management
Hospitals
Private



Drain cleaning is one of the major services we offer and provide, in which our low impact combination slurry suction and high pressure water jetting technology is applied to unblock, unclog, flush and clean drains.

Our state-of-the-art technology has been proven to be more effective than traditional mechanical and chemical drain cleaning methods. We are equipped to handle both large municipal drainage systems and narrow diameter commercial and residential drains.

Our cleaning procedures minimise drain cleaning costs through the use of pressure jetting and slurry suction in combination whereby most of the water used is recovered and re-used repeatedly in the cleaning process. The function of the slurry suction part of the process is to recover dirty water as it is flushed through the drain being cleaned and return it for re-use in the high pressure jetting process. friendly.

This eco-friendly method obviates wastage of fresh water while at the same time contributing significantly towards reducing operating costs. In this way we provide a cleaning service to our clients that is efficient, speedy, price-competitive and environmentally friendly.

WET & DRY VACUUMING

Wet & dry vacuuming is another area in which our expertise is widely used and well-proven in many industrial sectors, ranging from heavy industrial and mining applications to construction, municipalities, agriculture and food production.

Heavy duty vacuum trucks are the most efficient and economical solution for the collection and disposal of industrial waste.

Our services in this category include ongoing scheduled maintenance and a rapid-response emergency service for managing and cleaning up spillages.



The trucks are highly versatile and may be used to collect and remove waste matter of any form, be it hazardous material, fine powdery material, grits, liquids or sludge.

In addition to waste collection, our vacuum trucks may be used to collect and redistribute clean bulk materials such as grain and chemicals.

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HORIZONTAL DRILLING



We are the leading providers and experts in the use of horizontal directional drilling (HDD) as a means of installing piping, conduit and cabling underground.

This trenchless technology is today recognised as the most efficient, rapid and cost-effective method of installing the above-mentioned service, in place of the traditional trenching and excavating methods previously applied for this purpose. Horizontal drilling permits installation of such services under construction sites, rivers, roads and railway lines without disrupting these surface functions and operations in any way.

We have the experience to meet any HDD project requirement. The technology applied incorporates the capability to drill through solid rock, without the need of blasting.

PIPE REHABILITATION

Pipeline rehabilitation can be defined as "a family of methods, materials, and equipment capable of being used for the installation of new or replacement or rehabilitation of existing underground infrastructure with minimal disruption to surface traffic, business, and other activities."



CIPP (Cured-in-Place-Pipe) is used to rehabilitate existing sewer pipelines by lining the walls of the existing pipe with an epoxy resin tube.

During the renovation process, the liner is soaked in resin and then inserted into the defective pipe using pressurised air or water. This completely lines the inside of the pipe and eliminates any existing or potential damage.



Curing creates a completely new, watertight pipe within the old one. This

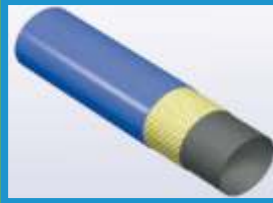
rehabilitation application can be carried out quickly, permanently and cost-effectively.

BRAWOLINER® which is a "no dig" sewer rehabilitation system for repairing damaged drains and sewers without the need to carry out disruptive excavations.



Primus line®

Trenchless pipe rehabilitation technology is an innovative technology for the trenchless rehabilitation of pressure pipelines for different media such as water, gas and oil. The process is based on a flexible high-pressure hose and a connecting technology, which has been developed specifically for this system.



The extremely smooth inner coating, ideal flow characteristics and the optimized systems for high-, medium- and low-

pressure requirements all make Primus Line® an economical choice for the rehabilitation of aging pipelines. Water authorities and network operators benefit from a sustainable and reliable operation and consistent revenue.

WATER TANKERS



Rescue Rod operates a sizeable fleet of water tankers to provide fresh potable water to sites where water is problematic.

These encompass all types of sites and operations requiring emergency supplies of water when their regular water supply has been temporarily cut off. They include construction, mining and industrial project sites, towns, settlements,

hospitals, hotels, conference venues and a wide variety of manufacturing and processing industries.

To cater to differing requirements we provide water trucks as well as fixed water tanks for installation on site. Various sizes of trucks and fixed tanks are available for hire.

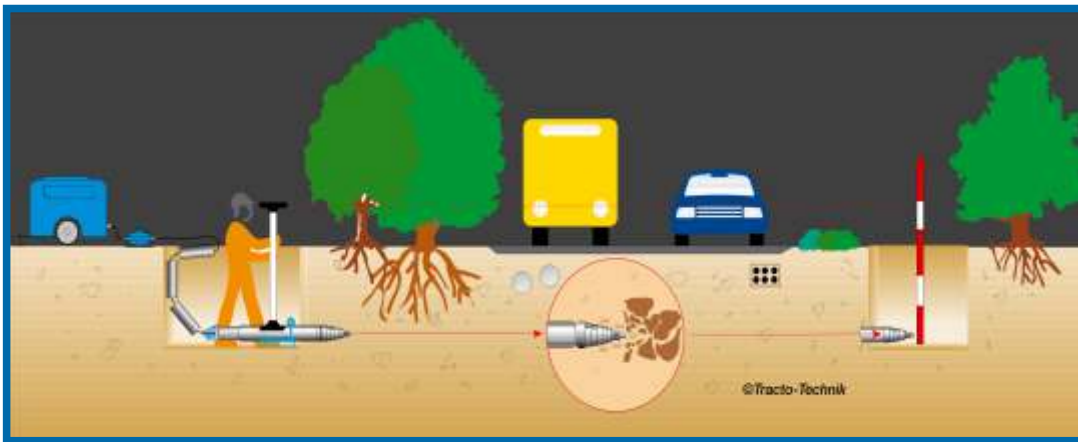
TRENCHLESS MOLING



New To Rescue Rod

As a leader in trenchless technology Rescue Rod provides a complete, efficient and comprehensive service, from conception to completion. You can expect safe, cost-effective and innovative solutions to whatever underground installation project you have planned. Instead of digging trenches Rescue Rod uses the trenchless technique called Moling.

Moling is a quick, reliable, cost effective and environmentally friendly solution, ideal for the installation of shorter runs of cable and ducts, fibre, pumped sewer lines, water mains, oil lines and gas lines under roads, existing structures, congested areas, environmentally sensitive areas and waterways.



HOW MOLING WORKS

Moling works on the simple principle of displacing soil while installing the pipe along the desired path. The impact mole consists of a pneumatically-driven steel tube powered by a compressor attached to a piston. The pneumatic hammer placed at the head of the casing. The impact mole is first positioned at the correct line and grade after which compressor is activated, pushing the mole forward by the hammering action at the head. The mole is long and hence helps maintain the integrity of the bore hole as it advances. Once the borehole is completed, the product pipe is pulled in at the same time that the mole is extracted.

ADVANTAGES OF MOLING

- Low operational and reinstatement costs
- Less expensive than traditional trenching methods
- Suitable for all soil conditions except rock
- Minimal or no excavation beyond the necessary connection pits or termination points for the installed water main
- Minimal disruption to the customer and customer's property in comparison with traditional trenching techniques
- Environmentally and socially beneficial



DOMESTIC & COMMERCIAL MOLING SPECIALISTS

Excavating an open trench to repair drains, replace pipes or lay cable is not always convenient, desirable or cost-effective when taking into consideration the damage and disruption that might be caused to driveways, lawns and road surfaces.

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CCTV PIPELINE CONDITION ASSESSMENT

Rescue Rod applies the most advanced technology available to conduct remote inspections of pipelines to ascertain the causes of blockages, breaks and other problems prior to providing the optimal solutions.

The technological tool the company applies for this purpose is closed-circuit television (CCTV) technology.

The CCTV pipe inspection equipment includes high resolution cameras capable of inspecting and measuring pipes of 80mm to 1500mm in diameter. We are able to inspect just about any pipe, tank or vessel up to a distance of 500m.

Rescue Rod is one of only a few CCTV pipeline condition assessment service providers in Southern Africa that also offer explosion-proof systems capable of conducting safe inspections in Zone 1 explosive atmospheres.

WinCan reporting software is used in

conjunction with our CCTV inspection systems to collect and analyse data. Among the variety of tools available on WinCan is a geographic information system (GIS), which can create colour-coded maps of pipeline and sewer networks, including all their relevant constituent elements.

WinCan also incorporates WinCan Web, an online service for viewing and downloading the CCTV system reports, with inspections results being transferred to the cloud for browser-based access.

WinCan Web's main features and advantages are:

- Speed of operation and easy sharing
- Browser-based access to inspection data, images and video
- Immediate and secure delivery of inspection results
- Allowing authorised viewers to generate their own reports from the data



SEPTIC TANK DRAINAGE

We operate a fleet of vehicles known as Honeysucker trucks for fast and efficient drainage and cleaning of septic tanks, holding tanks, sumps and grease traps, without interfering in the operations of these facilities.

Our trucks are equipped to remove all forms of wet waste and are designed to access almost any site, no matter how narrow the roadway or access point may be. The trucks remove and dispose of the waste matter in an environmentally safe manner.

REGULATORY BODIES

Rescue Rod adheres strictly to all policies, standards and laws of the various regulatory bodies governing our industry.

The regulatory bodies to which we are affiliated are:



**Construction & Industry
Development Board (CIDB)**



**Southern African Society for
Trenchless Technology (SASTT)**



**Institute of Plumbing South Africa
(IOPSA)**



**Water Institute of South Africa
(WISA)**



**South African Federation of Civil
Engineering Contractors (SAFCEC)**



**The Institute of Waste
Management Southern Africa
(IWMSA)**

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RESCUE ROD'S MAIN CUSTOMERS



RAND WATER

GLENCORE



WASTEMAN



SASOL



Unilever



CITY OF TSHWANE
IGNITING EXCELLENCE

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