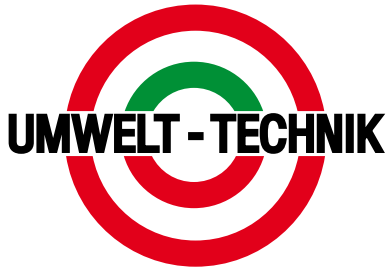


# UMWELT-TECHNIK

## Pipe Cleaning, Building and Servicing Ltd.



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### INTRODUCTION

UMWELT-TECHNIK Ltd. was founded in 1990. The center is in the industrial plant of Kerecsend, 120km to the Northeast of Budapest. UMWELT-TECHNIK has 48 employees. In 1992 UMWELT-TECHNIK became the member of the Rabmer Group and therefore today 75 per cent of the shares is owned by an Austrian company, Rabmer GmbH, 25 per cent is in Hungarian ownership.

Over the past 15 years UMWELT-TECHNIK has grown to be one of the market leaders in the market of NO DIG technologies (i.e. trenchless renovation of pipes) in Hungary. The company's spectrum of services is unique in the Hungarian market: inspection, cleaning and disinfection, and trenchless renovation of pipe systems. UMWELT-TECHNIK offers services for all kinds of pipes and channels: potable water, waste water, gas, etc.

Being the member of the international Rabmer Group UMWELT-TECHNIK has the firm ground to innovate continuously and adapt to the new needs of the market. Constant innovation lead to a wide range of technologies applied by the Group and made it possible to renovate pipes from 80mm diameters up to 3000mm.

Certified in accordance with EN ISO 9001

Certified in accordance with EN ISO 14001

### MAIN ACTIVITIES, PRODUCTS AND SERVICES

- **TRENCHLESS RENOVATION OF PIPES (NO DIG)**

The excavation-free tubing reconstructions—to name NO DIG in another way—have three major advantages over the traditional pipe renovations with excavation:

1. minimal impact on the environment
2. reconstruction takes much less time
3. cost-effective in every sense

Instead of opening the asphalt on the whole line of the pipe NO DIG technologies require just a few trenches (size app. 2x3m)—the number of trenches on a given section depends on the special characteristics of the pipeline in particular. According to the diameter of the pipe several hundred meters of the liner can be installed through the trenches. With these technologies a new pipe is installed within the existing one to ensure the smooth operation of the pipe for some other forthcoming decades.

UMWELT-TECHNIK offers a wide range of no dig pipe rehabilitation technologies depending on the transported medium, the material and diameter of the pipe and also the damage(s) on the pipeline.

- **PIPE CLEANING**

Pipe cleaning is very important for the maintenance and quality supply of public utility companies and other companies operating pipe systems. Different kinds of sediments can occur on the inside wall of pipes that can have negative effects (even biological impact) on the quality and the flow of the transported potable water. To get rid of these harmful sediments we offer a wide range of pipe cleaning methods depending on the type of the pipe and sediments deposited on the wall. Different pipe cleaning tasks require different processes. For example, gravity systems require high pressure hydraulic cleaning. In practice, mechanical pipe cleaning has proven to be

the best method for pressure systems. One of the processes used for the mechanical cleaning and complex disinfection of pressurized pipelines is called EGER-CLEANER.

Pipe cleaning is also important in the case of NO DIG rehabilitation technologies since it is the first step in pipeline renovation.

- **PIPE INSPECTION**

It is indispensable for pipeline operators to check the pipe system they run on a regular basis as a prevention of serious damages in the future. There are a lot of ways to examine the condition of the pipelines. UMWELT-TECHNIK therefore offers a package of different kinds of inspections to enable pipeline operators get an appropriate and thorough view of the state of their pipes.

Pipe inspection is also essential in the case of NO DIG pipe rehabilitations. Before renovation, pipelines have to be thoroughly examined. Careful and comprehensive inspection is provided by a *CCTV inspection system* with color video recordings of the defects.

The level of water-tightness of the conduit network is also a relevant piece of information. Leaking conduits contribute to environment pollution and also decrease the efficiency of the sewage treatment plant. The *AMS-4 electronic probe* inspects the cracks and points of leakage in conduit networks.

We also perform the *tightness test* of operating and new pipes using a computerized method. The advantage of this process is that - as opposed to traditional water tests and high pressure measurements - measurement results can be obtained in a short time without interfering with the system in operation.

### **UMWELT-TECHNIK offers:**

UMWELT-TECHNIK offers a package of different methods and technologies as a helping hand for a convenient, cost-effective, environment-friendly and safe pipe system maintenance to achieve a smooth operation and long-life pipe system.

The package includes technologies for three areas of service:

- inspection of pipelines
- cleaning and disinfection of pipelines
- trenchless renovation of all kinds of pipelines (potable water, waste water, gas, oil, industrial pipes)

### **WHO COULD BE INTERESTED IN OUR SERVICES?**

Such organizations and companies that operate pipe systems or institutions that are involved in pipe renovation:

- **Public Utility organizations** (Waterworks, Gasworks, Atomic Power Plants, etc.)
- **Companies with large industrial plants** (factories, chemical factories, airports, etc.)
- **Companies involved in pipe renovations** that are interested in working together with UMWELT-TECHNIK Ltd.

