

# PIPE CLEANING

Pipes are the lifeline of all facilities in every sector of industry: From pipes with 12 mm internal width to big pipelines, for fluids, solid materials or gases, with vacuums, overpressure or in a constant flow of flux. In order for pipes to fulfil their important functions, their continuity must be guaranteed.

All kinds of pipes and sewers must be kept clear, and this is important for a number of reasons. The material flow must be able to circulate unhindered, otherwise, it can lead to disruptions in the production process. Professional pipe cleaning is the requirement for meaningful inspections, filling and pressure tests as well as preparation for repairs. High pressure water jetting can be used for the washing and cleaning of pipes, internally and externally, as well as cutting pipes.

There are infinitely many different pipes and haulings. The corresponding cleaning methods are just as different. Large lengths and widths all add up to large surfaces. In addition, there are a multitude of different materials, bends and valves.

Particularly challenging are the hard deposits that can completely block pipes: sand, stone and organic material, for example, roots. Mediums such as crude oil, diesel or gas can be most problematic. Crude oil



**01** Dirty pipes can be a reason for disruptions in production process.

**02** Clean pipes are required for unhindered, freeflowing production materials.

**03** WOMA® offers high pressure units and accessories to clean pipes of all widths.

contains accompanying substances such as limestone, sulphite, salt etc., which cause stubborn deposits and can completely block pipes. In all of these cases, production can come to a standstill. When the going inside pipes gets tough, the water must get even tougher. As tough as ultra-high pressure. High pressure is the optimal solution for all time-sensitive cleaning tasks regarding dirty, blocked or corroded pipes.

Different jets can be adapted to clean the pipes, which means that deposits and severe blockages can be removed. In many cases, pipelines are fixed in place and offer only a few openings for access. In this case, cleaning with high water pressure is possible on site, without the need to deconstruct the pipe, particularly in hard-to-access facilities, whether it is due to high-up places, or narrow areas.

In contrast to mechanical tools such as hammers, chisels and brushes, there is no danger of damage during cleaning. The high pressure water jet technology is a quick, simple and extremely cost-effective procedure. Using water as a cleaning medium is simple to recycle using a filter.

With pipes with very large diameters, for example, water pressure pipes from hydro-electric power plants, pipelines and sewer pipes, which need to be cleaned over a long stretch, a lot of power is required. The WOMA® high pressure water technique is also the leader when it comes to such tasks, where other procedures have limits, or have exceeded their limits.

#### Advantages at a glance

- The cleaning of pipes is feasible, even in hard-to-access areas
- Pipes with differing widths can be freed from dirt and deposits
- Water jetting causes no damages to the inner walls of the pipes

## EXPERTISE PIPE CUTTING

Pipes are not just cleaned, but are also cut, for example, to repair damages, replace sections, build connections or when tearing down facilities. Cold cutting with help from abrasives at 2000–3000 bar pressure is the most versatile and economical solution. Pipes of all wall thicknesses can be cut. This procedure is spark-free and can also be used on areas at risk of explosion.

