

About Mourik

Infrastructure

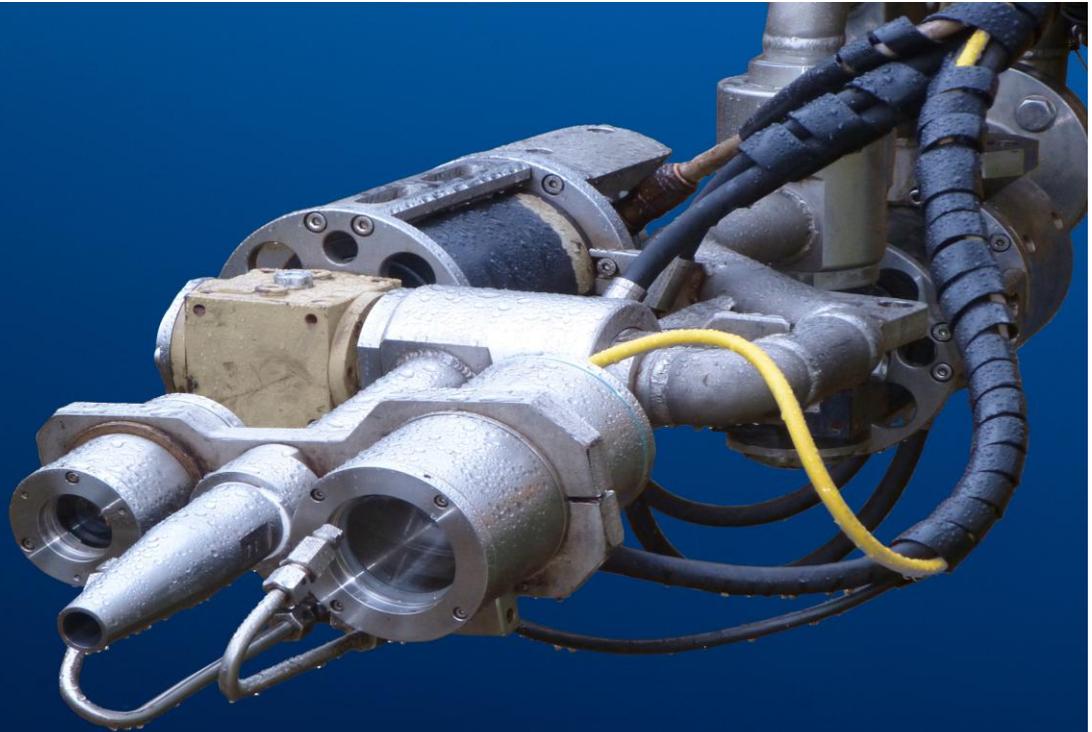
Industrial Services

Catalyst Handling

Industrial and Commercial Construction

Environmental Technology

Project Development



Non-entry Tank Cleaning

Manway Cannon



'Automatic Remote-controlled Tank Cleaning'

Mourik has a broad experience in the field of non-entry tank cleaning, the method of cleaning tanks which limits tank entry. Mourik uses remote-controlled jetting cannons, called manway cannons, that are also equipped with a camera and light.



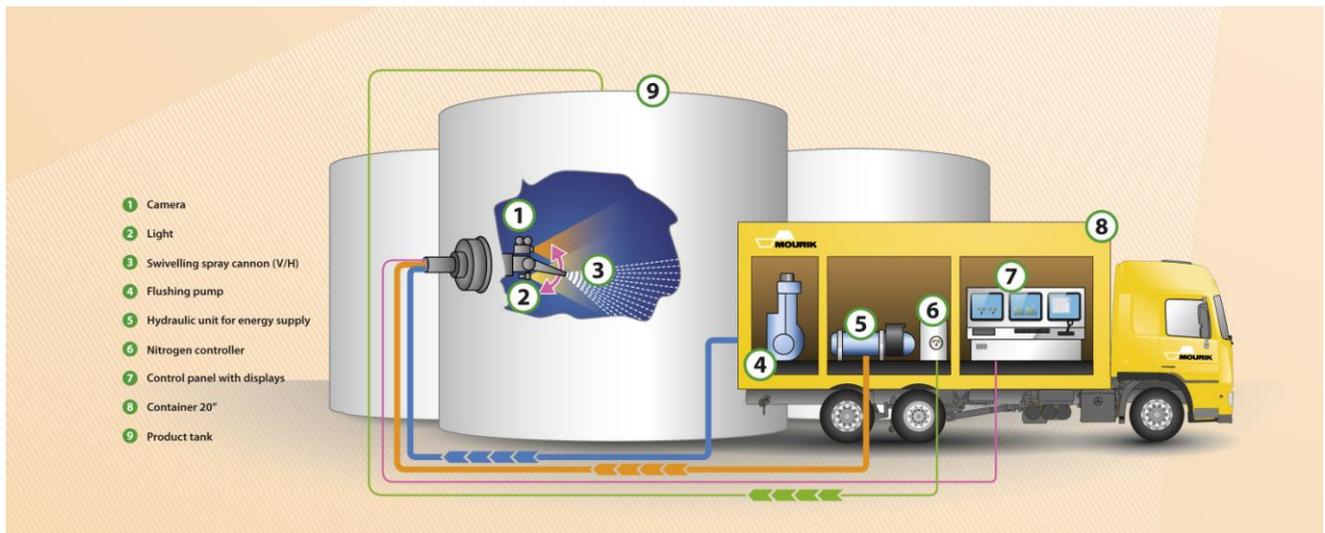
The Manway Cannon Unit including Control Room

New standard

By further developing and optimizing the jetting cannons, Mourik has set the standard for tank cleaning. The cannons clean with a high pressure up to 25 bar and are applicable to practically every product, including highly inflammable products. The control room is situated at a safe distance from the tank. Inside the control room, an operator continuously monitors the cleaning process while measuring levels of explosive gasses (LEL) and oxygen (O₂).

Safety

Safety, health and environmental were aspects that triggered the development of this new technology. Except for final cleaning, if required, no person has to enter the tank. During the cleaning process with the manway cannon, it is possible to inert the tank with nitrogen (N₂).



The Cleaning Process

The non-entry tank cleaning's closed circuit construction reduces the gas and vapour emissions to a minimum. The system can therefore be applied in locations that have demanding requirements for emissions, noise or smell, e.g. near residential areas.

- *Cleaning in closed circuit;*
- *Faster, more efficiently;*
- *Minimum emissions, smell or noise;*
- *Tank entry reduced to minimum;*
- *Pressure of up to 25 bar at 50 m³/hr;*
- *Continuous high standard thanks to automatic cleaning;*
- *Continuous process registration on DVD;*
- *Continuous monitoring of O₂ and LEL levels.*

Technology

The non-entry tank cleaning system comprises of a jetting cannon that is mounted onto the tank manhole. The cannon is equipped with an inspection camera and light. This guarantees continuous monitoring of the cleaning process from the manway cannon control room. Any kind of liquid product (water, gasoil, crude oil, A1 products) can be used as jetting medium for cleaning under high pressure of up to 25 bar and 50 m³/hr. Additional to continuous monitoring of the cleaning process, continuous measurement of the level of explosive gasses (LEL) and O₂ levels takes place within the tank. If indicated levels are exceeded, the system immediately switches off.

Safer, cleaner, faster

Thanks to the non-entry cleaning system that has been reviewed and optimized by Mourik, manual cleaning of storage tanks has been reduced to a minimum. The cleaning technology increases safety and efficiency and on top of that, is environmental friendlier.

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