



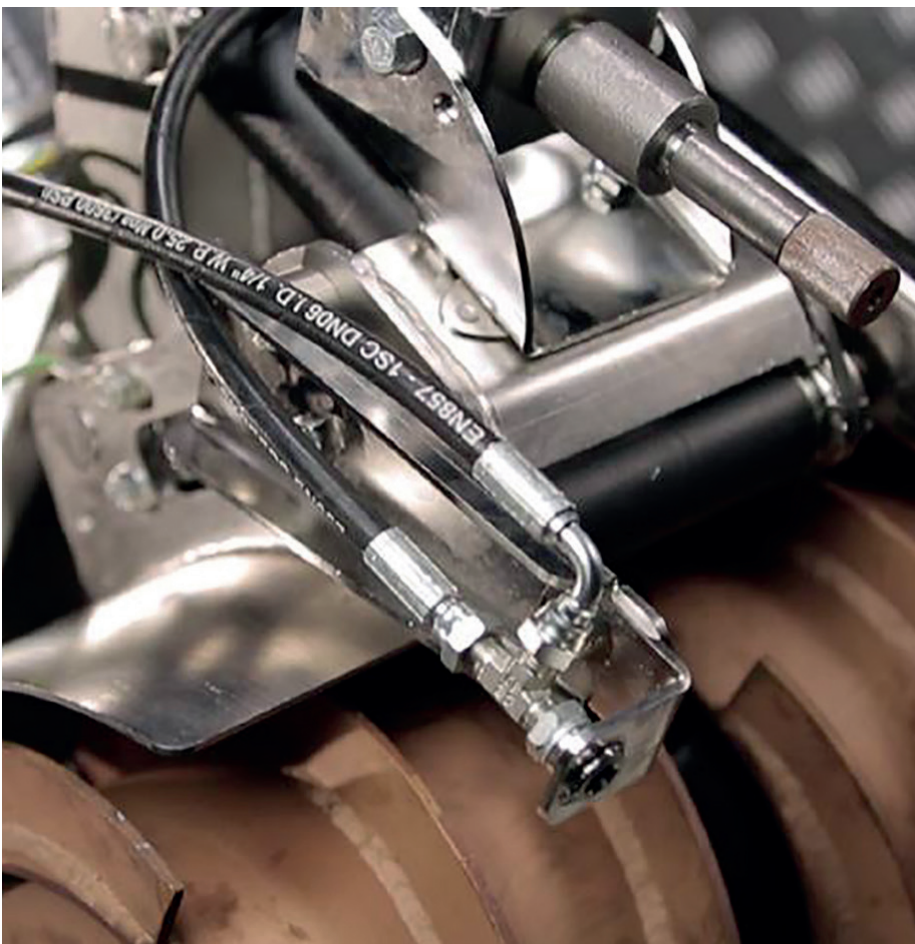
INDUSTRIAL CLEANING ■ TANK CLEANING ■ TANK CONSTRUCTION/-MAINTENANCE/PIPE CONSTRUCTION ■ SCAFFOLDING ■ INSULATION  
INSTALLATION & SHUTDOWN MANAGEMENT ■ PLANT AND EQUIPMENT CONSTRUCTION ■ AUTOMATION AND I&B ■ CIVIL ENGINEERING



## TANK CLEANING OIL SLUDGE SEPARATION







# DECADES OF EXPERIENCE CUSTOMER-ORIENTED SOLUTIONS

# INNOVATIVE TANK CLEANING SYSTEMS

For decades, the Rohrer Group has specialised in providing comprehensive services for industrial installations. Founded in 1975, the company has grown to become a strong global player while remaining family-owned to this day. A dense network of branches all over Europe guarantees quick service at the highest technical level.

The Rohrer Group consolidates a wide range of fields of expertise to provide comprehensive packages of products and services. One core competency is tank cleaning.

Innovative solutions and continued developments in the field of „No Man Entry“ tank cleaning make the Rohrer Group an interesting partner for numerous refineries and fuel depots.



- Residue minimisation via the use of Turbomix systems
- No Man Entry tank cleaning systems
- Tank cleaning robots for use in Zone 0
- Emissions-free tank cleaning via the use of mobile torching systems
- Tricanter® separation technology for dramatic reductions in residue





# NO-ENTRY TANK CLEANING

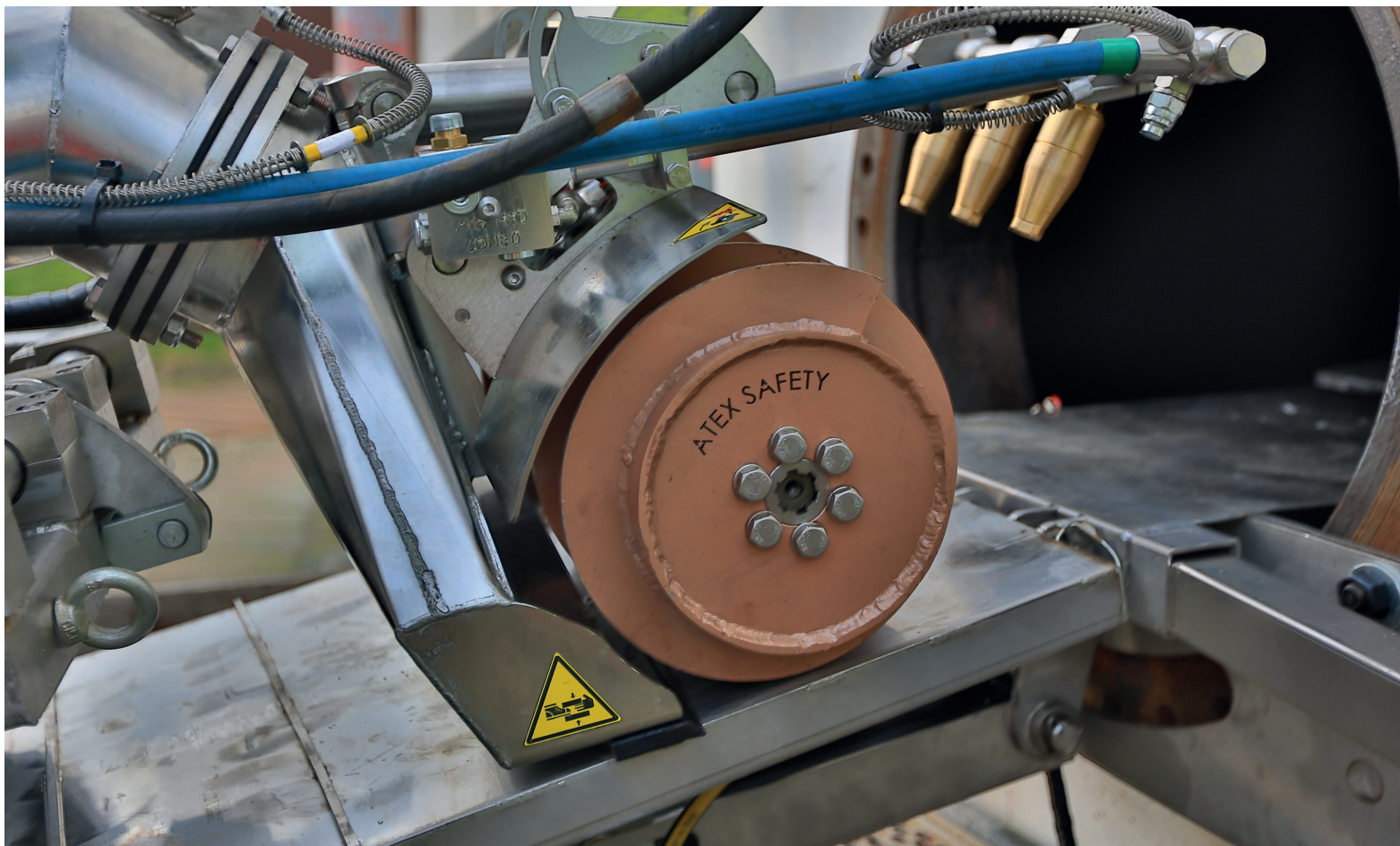
- No Man Entry systems for fixed roof tanks:
- Modular cleaning systems in container units
  - Rotating cleaning lances
  - Eccentric pumps
  - Integrated hot water production
  - Air compressor for operating the lances
  - Monitoring of oxygen and explosion limits



# EFFICIENT RESIDUE MINIMISATION

- Hydraulically driven agitators for installation in tank roofs:
- Operation of up to 6 agitators per drive unit
  - Mobile hydraulic aggregates for placement near the tank
  - Jet direction of propeller is variable to remove deposits in a targeted fashion





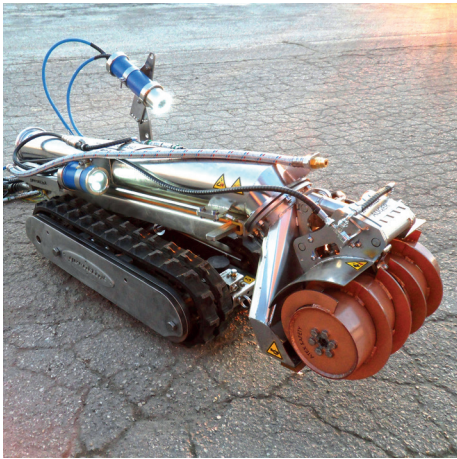
DECANTER®- AND TRICANTER®-SYSTEMS

- Decanter®- and Tricanter®-systems for separating the liquid residue in two and/or three phases:
- Decanter®: Separation into solids and oil-water mixture
  - Tricanter®: Separation into solids, water and oil
  - Drastic reduction of residue quantities
  - Minimisation of disposal costs
  - Separated phases can be routed back into production
  - Greatest advantages in combination with a No Man Entry cleaning system



TANK CLEANING ROBOT ZONE 0

- Modified tank cleaning robots for No Man Entry tank cleaning are used in ATEX Zone 0.
- Robots with multiple cameras
  - Power pack with 75-metre hydraulic line
  - Control station with monitors and control unit
  - High-pressure hot water with 5 HP nozzles
  - Camera rinsing
  - Additional weights for use in oil sludge







# AUTOMATIC TANK WALL CLEANING

Cleaning and de-coating of tank walls and hard-to-reach surfaces with various robot systems:

- Wall cleaning robot with magnetic wheels
- Robot with integrated extraction function
- Outfitted with up to 5 HP nozzles
- Removes coatings with a max. of 2,500 bar
- Operated via remote control



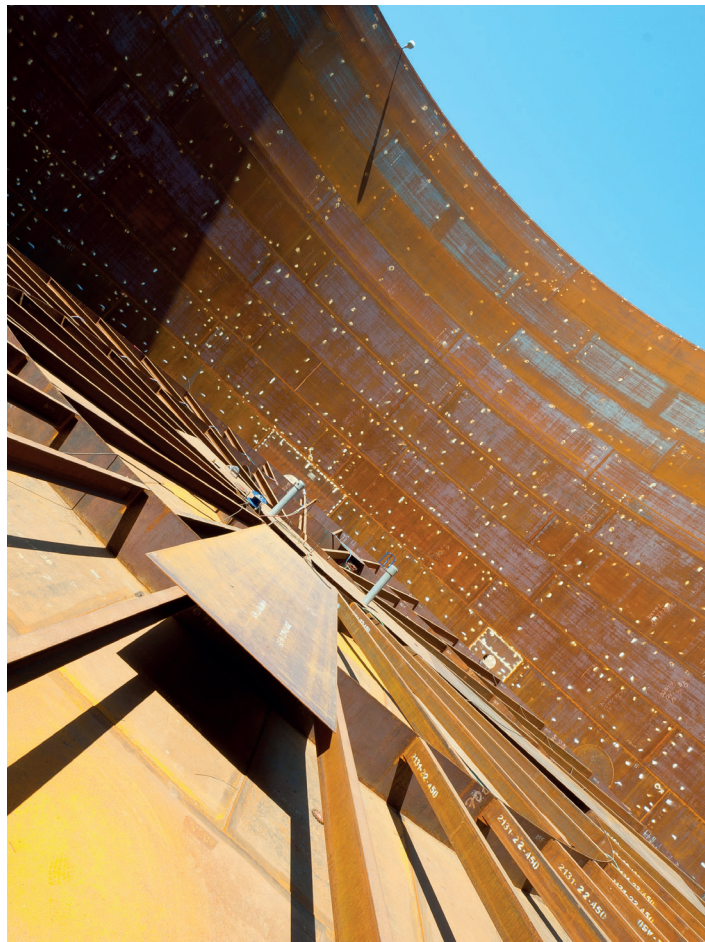
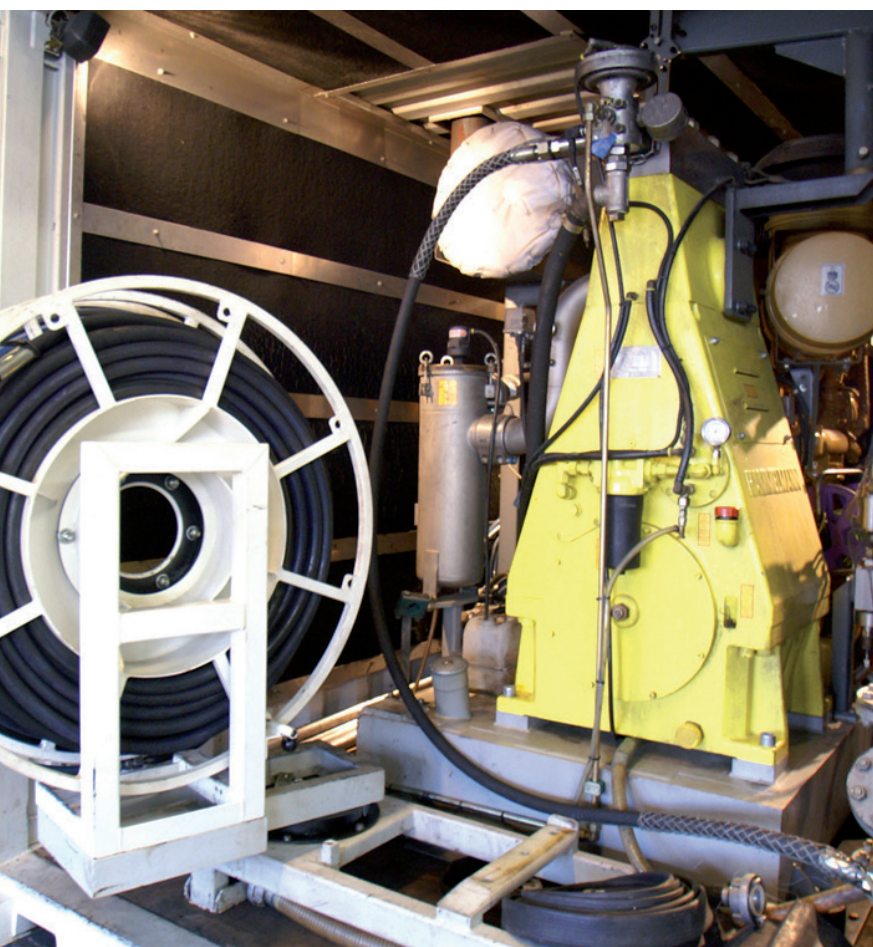
# REDUCTION OF EMISSIONS

Highly efficient process for degassing and ensuring that prescribed limit values are not exceeded:

- Use of mobile torching systems or combustion chamber systems
- Processing of 3,500 m3 gas/hour
- Continued use of the torches during tank cleaning to eliminate explosions







## GAS-FREE TANK

After removing most of the residue and oil sludge, manual fine cleaning is provided:

- Manual stripping and extraction of remaining oil layer
- Cleaning of floor, interior tank surfaces and fixtures with HP hot water devices
- Cleaning level without gas or welding – suitable for tasks with a risk of combustion

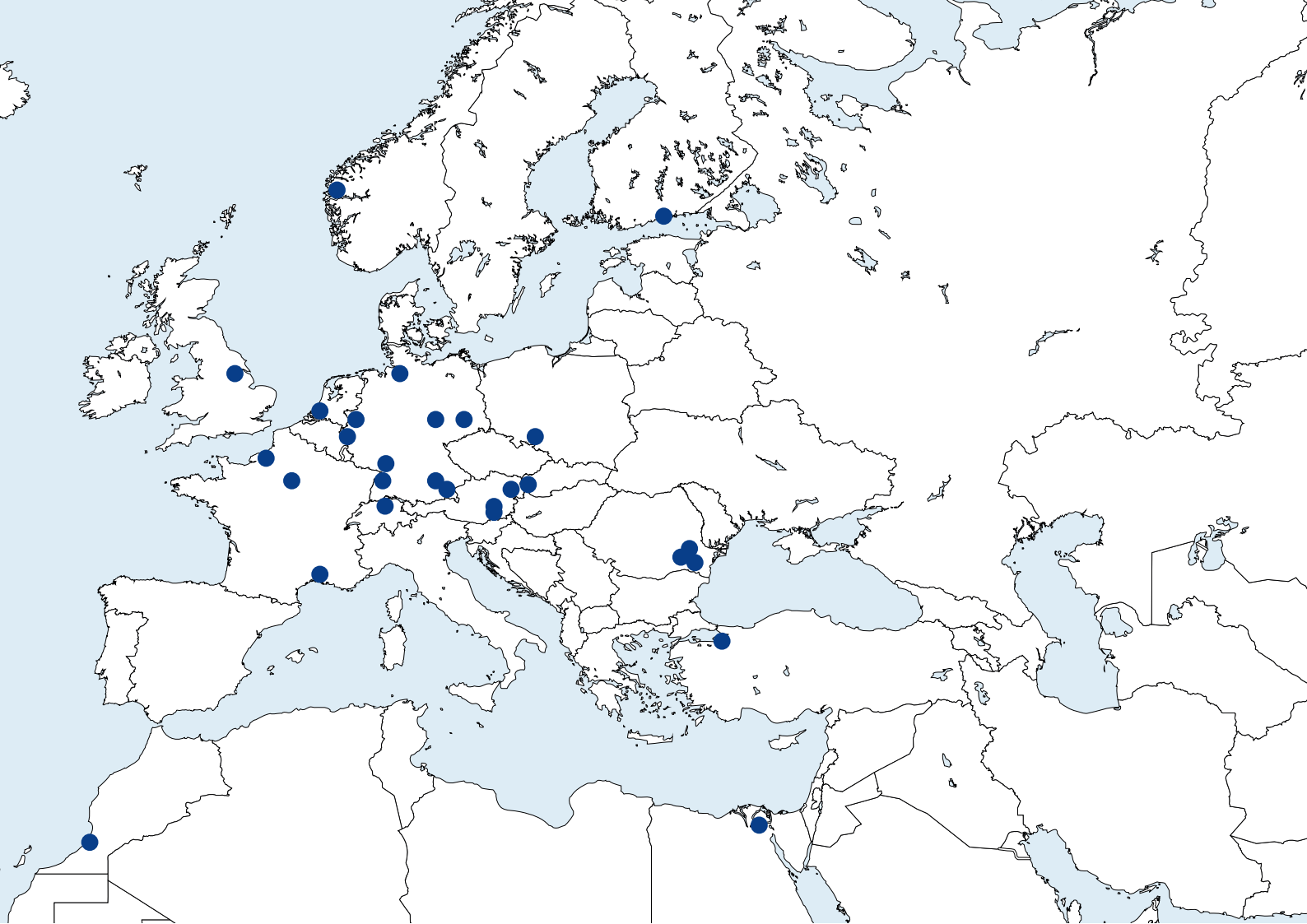


## INDIVIDUAL SOLUTIONS

Other services offered include turnkey projects in the field of tank construction and in tank installation and pipe construction.

- Tank construction
- Installation construction
- Pipe construction
- Steel construction
- Full range of on-site products and services





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