

Gröninger *news*

Cleaning Systems for transport, logistics, offshore, industrial and environmental services companies

Fall 2011



Jerrycans Tanktrucks
Bulk Trucks Barrels IBCs
Railcars **ISO containers**

Foreword

An expected 7% average growth of the gross domestic product in 2011 and 2012; a growing number of consumers with a middle-income of 14% per year in an area with a population of over 4 billion. Just a few facts that point to the incredible development of the Asian continent. Meanwhile, the top 10 world's busiest ports measured by transshipment of goods, is dominated by eight(!) Chinese ports, one port in Singapore and only one European port (Rotterdam).

The above trends have automatically led to an explosive growth in demand for high-quality cleaning of tank containers in particular. In order to meet this demand, Gröninger Cleaning Systems Asia Ltd Pte was recently incorporated. This branch, with Singapore as its operational base, is managed by Lyndsey Wallace. Now we are able to offer even better support to our future customers in Asia.



In this newsletter some announcements of our projects in India and China are made. Many of our overseas projects are mounted in container modules. This ensures the necessary flexibility in constructing and significantly reduces installation time and costs.

We hope that the Asian developments will have a positive impact on your company as well. Should those developments result in a growing demand for cleaning solutions, we will be ready to be of service to you!

The Gröninger Team

First cleaning station Romania is a fact

The first official tank cleaning of Romania was opened at the end of September 2010. Gröninger constructed a modern cleaning system with two cleaning bays and delivered a sophisticated water treatment system on behalf of Logiserve SRL in the town of Râmnicu Vâlcea, next to the Oltchim plant.

Oltchim S.A. has been manufacturing various chemicals, including PVC, Polyol and Natronlog, since 1966. Many of these products find their way to Western

European buyers. Logiserv SRL takes care of a substantial part of the transports. Due to the increasing quality requirements, the need for an own cleaning system arose. The first contact was made with Gröninger through the German sales office.

After several meetings Gröninger was selected. Lucian Login (Director of Logiserv) about the selection: *"We were looking for a company which had proved to be able to construct such systems. Because of the distance we also found it impor-*

tant to have a good service organisation. Gröninger was able to convince us on both, also because they had good references."

The system has two cleaning bays. Because of the risky nature of the products to be cleaned, it was decided to create cleaning bays in an explosion-safe environment.

The earthing reel connected with the PLC ensures that the cleaning will not be started before the tanker or container is earthed. Then you can select to either clean with cold, warm or hot (95°C)





WTR intends to make a living from food

water. Various chemicals, such as acid, lye or a strong degreaser are added to this water. Products with a high melting point like paraffin can be heated with steam. This is done safely through the rotor jets. If required, the tanker or tank container can also be dried.

Once the cleaning has finished, an ECD can be printed with the MainPro software of Gröninger. To make it possible to publish the ECD, Logiserv incorporated the ASCR; the Romanian Trade Association for Tanker Cleaning. The organisation is a member of EFTCO.

Lucian Login: *"We aim at 20 to 30 cleanings a day to start with. If it becomes very busy, we will be able to easily extend the system. Measures for this purpose have already been taken. I would like to thank Gröninger for the pleasant cooperation. It is a pleasure to work with an experienced party that doesn't just deliver what it is paid for, but can also give advice in other areas. We were particularly happy with the constructional support."* □

Since 2000, the Willicher Tankwagenreinigungs GmbH in Willich has been a reliable address for the cleaning of tankers. Over the years, with proven quality, the number of customers has been increasing, not in the last place because of the strong personal commitment of the managers, Mr Bermes and Mrs Giesing. Especially for customers in the foodstuffs industry, an additional, separate foodstuffs zone was commissioned.

In the preliminary stage much time was spent on special structural changes to the former workshop, i.e. by means of joint reference visits. As a result, the cleaning bays all have facilities enabling the professional cleaning of foodstuffs. For example, the foodstuffs zone is completely separated from the other cleaning bays, which prevents the contamination of chemicals and food.

When the workshop was reconstructed, great attention was paid to the finishing of the walls. The extremely smooth coating ensures that dirt can be easily removed. Waste water from the tanker is collected in a controlled way and discharged into the waste water treatment system. This will keep the floor perfectly clean during and after a cleaning. A stainless steel hose plateau has been provided

for the cleaning of hoses. Highly motivated staff and an extensive quality system ensure that brushes, hoses, etc. are used and stored in the correct manner.

The cleaning system commissioned by Gröninger is partly heated by means of a cogeneration system. In the second step, steam is used to reach the temperature required for cleaning foodstuffs. Once the cleaning process has finished, the tanker can be blow-dried in no time with warm filtered air.

A PLC-PC connection ensures that the cleaning certificate is not just a certificate. All cleaning parameters have been obtained. This cleaning system perfectly ties in with the words that characterise WTR: Quality and reliability! □

Tank Cleaning Europoort

From 20,000 to 40,000 cleanings a year!



High pressure pumps

The new bays offer the possibility to clean the most varying products. In a relatively short time, heavy additives and other troublesome products can be cleaned by using 200 bar pumps.



Heat exchangers

The right temperature can be selected with the control panels at the work platforms. The heat exchangers, which are placed at the high pressure side of the system, are able to heat up water to 95°C.



Air purification

As the first tank cleaner in the Netherlands, Tank Cleaning Europoort has an air purifier in which gas washers (acid and alkaline) and an active coal filter operate in series. This has also made it possible to clean odour substances which were formerly unwanted/prohibited.

Tank Cleaning Europoort achieved an enormous increase in capacity with the opening of six new cleaning bays. Products that were too challenging to clean can now be cleaned thanks to the investment in an air purifier and 200 bar pumps. The new cleaning bays will only be used to clean chemicals. The existing cleaning system was reconstructed for the cleaning of foodstuffs.



Detergents

One can choose from various detergents to reach an optimal result. Metering is PLC controlled and the amount of detergent added to the cleaning water is up to 99,9 percent accurate. In some cases the chemicals can also be sprayed into the tank in pure form to have it interact well.



Cleaning bays

The cleaning bays are optimally equipped for the cleaning of both tankers and containers. The residual water can be pumped to the water treatment system or a separate collecting tank. Also products that are dangerously explosive can be cleaned by making use of ATEX components.



Control

With the expansion it has become possible to double the number of cleanings from 20,000 to 40,000 per year. It is clear to see from the implemented quality system that not only quantity is given concern but also quality. The entire cleaning process can be followed visually from the office and the consumptions (water, energy, steam etc.) for each cleaning are registered.



Environment

The flue gas condenser implemented on the boiler enables preheating of the rinsing water to an average temperature of 45°C with residual heat. The frequency converters on the high pressure pumps ensure an optimal use of energy and keep down the maintenance costs. This way, considering the environment and cost reduction go hand-in-hand.

The existing cleaning installation system provided three cleaning bays for both foodstuffs and chemicals. After one year already, this cleaning was going at full speed. By the investment in additional circulation systems for the cleaning of

latex and polymers even more capacity was achieved, but then the expansion options became limited. That is why, within four years after the opening, plans for a new cleaning system were created by the owner Kees in 't Veen.

The first ideas were turned into sketches. After many drawings and meetings with Gröniger and other contactors the time had come; the new cleaning was a fact! □

8 Man holes? No problem at FP Wash

Directly adjacent to the A1 motorway in Emstek (near Cloppenburg) in the north of Germany a new tank cleaning depot was opened: FP Wash GmbH & Co. KG. The cleaning was an initiative of the brothers Gerd and Stephan Funke.

In the environment of Visbek there are many compound feed plants. FP Wash now serves this sector with three cleaning bays. One cleaning bay is equipped with rotor jets for inside cleaning and two are equipped with a brush system for outside cleaning.

Many of the silo trucks for animal feed drive with a trailer. Therefore, the num-

ber of man holes is often more than six. As the silo is usually divided into compartments, the position of the rotor jets would normally have to be changed. In order to avoid this, Funke has mounted eight rotor jets over a length of 15 metres.

Director Jörg Prues: "Cleaning can be done with hot or cold water, possibly with the addition of chemicals. To save energy we have asked Gröninger to come up with ideas. This led to the installation of an advanced control valve for the pumps. An intermediate temperature can be selected when appropriate to use less gas.



Once the cleaning programme has finished, sterilisation can be done with steam. It is also possible to have the truck dried. The entire system is PLC controlled and can be operated from the cleaning bay platform.

Through short communication lines and vigorous acting, the licence application and the construction of the cleaning depot were finished in no time. We are convinced that the cleanings will be performed with the same attitude." □

Customised truckwash in Vienna

What to do if your fleet contains bulk trucks, kippers, excavators and flatbed trailers? In that case, a standard roll-over brush system is not sufficient. To make manual cleaning easier, Gröninger offers tailor-made truckwash systems.

The company Spindler from Vienna has many different means of transport. To keep them clean, a new wash location was recently built at their main operational base. When they were searching for a suitable cleaning system they came across a video on the website of

Gröninger, which was followed by the first contact.

After several acquaintance meetings they opted for a system that is constructed as follows:

- Underside washer to clean the bottom of the trucks
- Oscillating chassis washer to clean the chassis and wheel housing
- Foaming arch to foam the entire car
- High pressure lances on monorails for the manual cleaning of the car
- High pressure rinsing arch for a perfect final cleaning

Because of the different cleaning possibilities, Spindler is able to have all cars clean on the road! □



New tank cleaning at Euroliquids BV

Since May 2011, Euroliquids BV in Europoort has expanded its services with a brand new tank cleaning. Euroliquids produces liquid fertilisers. In addition to IBCs the company also makes use of bulk transport by road tankers.

There was one unloading bay located at Euroliquids for tankers with nitric acid and other chemicals. A steel construction containing a rotor jet was placed at this unloading bay. Once unloaded, the driver can immediately and easily rinse out the inside of the tank.

As a result, drivers at Euroliquids can immediately unload, and have the inside of their tank cleaned and loaded again. □



H&S Cleaning opens third location

In April 2011, H&S Cleaning opened its third tank cleaning. In addition to Barneveld and Vlissingen, there is now also a cleaning in Ter Apelkanaal. The cleaning is situated immediately in front of the entrance of the potato starch producer AVEBE. That is another reason why the cleaning depot is specialised in cleaning foodstuffs.

To establish this cleaning a joint venture was set up with Truck and Carwash Center Zuid Groninger. Two cleaning bays were made available, which then

became fully equipped. The cleaning bays are equipped with electric rotor jets, high pressure guns, drying cones, hose rails, etc. In short, everything you need to carry out good inside cleaning operations.

The MainPro operating software was installed to guarantee the quality. With this the different parameters can be monitored during the cleaning process. This way, the customer can be confident that all work will be carried out exactly as set out in writing.

With this third location a next step was taken towards H&S Cleaning's ambitions to grow. As Gröninger, we are proud to be part of this. □



News items



Cleaning Overberkel – Borculo (NL)

Cleaning Overberkel cleans tankers with foodstuffs in two cleaning bays. These cleaning bays were fed by a central pump unit that was worn out due to intensive use. Within a few days, Gröninger had installed a new pump unit. The use of frequency converters minimises wear and reduces energy consumption. □

Afvalstoffendienst – Den Bosch (NL)

The new building of the Afvalstoffendienst (Waste Product Service) Den Bosch was taken into use this spring. The service provider is responsible for the cleaning of wheelie bins and roll-containers. Contrary to what used to be possible, different types of roll containers, wheelie bins and covered drums can now be cleaned with a combined tipping and cleaning system. □



Cleaning Thys – Merksem (BE)

In 2008 the tank cleaning and truckwash were already built. But since early 2011 Thys can now also be of service to customers with IBCs. The IBC system is used for the cleaning of IBCs that are contaminated with foodstuffs. As the cleaning at Thys particularly concerns vegetable oil and fat, it is made possible to blow steam into the IBCs. This facilitates further cleaning. The rinsing water drops in a collection tray and is then discharged. To reduce the impact on the water treatment system, the residual product can be removed by suction first. Once the cleaning has finished, the IBC will be blown dry with filtered air by operating the dryer of the tank cleaning. □



Ongoing projects

■ Fourcee – India (IN)

Four tank container cleaning systems
- Kandla
- Hazira
- Jamnagar
- Gairaula

■ Schlichtmann Transport – Harsefeld (DE)

New development of tank cleaning

■ Cotac – Antwerp (BE)

Air purification

■ KS Recycling – Sonsbeck (DE)

New development of tank cleaning

■ Van Oord – Rotterdam (NL)

High pressure unit on ship

■ Cleaning Thys – Merksem (BE)

Extension of tank cleaning

■ Schütz – Shanghai (CN)

IBC Cleaning

■ SAMCo - Saudi Arabia (SA)

New development of tank cleaning in Jubail

Gröninger Cleaning Systems B.V.

Edited by

Gröninger Cleaning Systems B.V.
P.O. box 131, 3100 AC Schiedam
Fokkerstraat 539-547
3125 BD Schiedam
Tel.: +31 (0)10 437 10 22
Fax: +31 (0)10 462 24 32
www.groninger.eu
info@groninger.nl

Art direction and lay-out

Ontwerpstudio Bosgra BNO

Photography Pieter van Leeuwen,
et al

Printing Drukkerij Bout & Zn.

