

Gröninger *news*

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

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Foreword

The number of (potential) customers finding their way to Gröninger Cleaning Systems is on the increase. Quite often customers find us via our website, but even more so by word of mouth and references from our existing customer base. On a daily basis Gröninger is confronted with a wide array of cleaning challenges and questions. At times our technical staff has to push themselves to the limit in order to find the right solution. However, based on our experience, technical knowledge and especially our inventiveness in 99 out of 100 cases we succeed in coming to a satisfying solution. At times this is by using a "standard" system, but more often based on a "customised" proposal.

Performing cleaning tests is a proven method in order to find cleaning solutions. Together with the customer the Gröninger staff develops a test scenario, whereby tests are done at varying pressures, temperatures and with the application of different types of cleaning agents. The tests can be done with or without

the use of filtration technology and waste water recovery. These tests clearly help us to determine the best cleaning methodology in specific circumstances.

Do you see opportunities to improve the cleaning methods and procedures in your production or logistical process as well? Then please do not hesitate to pose your questions to Gröninger. Most likely, the solution is not as complicated as you might think. We help you to discover cleaning solutions. For that purpose Gröninger brings in over 60 years of experience and expertise.

Jaap Schokker (+31(0)6 462 462 44) is our contact person for the segments industry/environmental services/offshore and Joost Kasbergen (+31(0)6 265 788 20) for tank cleaning/transport/logistics. They are very keen on helping you forward!

The Gröninger Team

Den Hartogh expands Rotterdam cleaning facility

The Rotterdam-Botlek (NL) site of Den Hartogh cleaning has been expanded with three extra cleaning bays. The expansion was motivated by increasing demand for non-food and chemical cleanings, but especially by strong food business.

"Den Hartogh considers tank cleaning as an important pillar in the logistical services portfolio we offer. We operate cleanings in countries like The Netherlands, Spain, France and Turkey," according to director tank cleaning Dennis Verduyn. "In 2001 Den Hartogh acquired Rocore in Rotterdam, a modern

installation that had just been built by Gröninger. Although we expanded and improved the installation in the course of the last decade, we in 2010 felt the time was right for a thorough expansion and revision. With all the Gröninger expertise available, the decision was not difficult to do the project together with them."



Walter Rau modernises tank cleaning for food trucks

Gröninger Cleaning Systems has supported Walter Rau Lebensmittelwerke GmbH in Hilter (D) in the process of modernising the existing cleaning bay. The most important adjustments were the installation of steaming via the rotor jets for the separate tank compartments. Some operator safety measures were also adjusted.

Walter Rau produces margarine products and edible oils and fats. The company mainly sells to wholesalers, retailers, food service customers and the food industry in general. The company was founded in 1903 and joined forces in 2008 with Bunge. Bunge is a world class food- and agribusiness company. The site in Hilter already operated a tank cleaning. With the realisation of integra-

ted steaming via the rotor jets the cleaning effectiveness has significantly been improved. Steam facilitates the rinsing process by loosening the fats and oils remnants from the tank surface. By using steam, the energy and water consumption is seriously reduced as well. The

tank is heated up faster with steam than with hot water and therefore the cleaning cycle is shortened. Also some safety measures were introduced at Walter Rau, like a sensor that stops the high pressure water flow when the rotor jets are not correctly positioned in the man hole. □



Since the renovation the company has seven cleaning bays. Bays 1 through 3 are for food only, while chemical and non-food cleanings are done at bay 4 through 7. Bay 7 has a special lay-out to handle tankcontainers.

The most recent volume and turnover

fugues of the Port of Rotterdam indicate that (tank)containers and ore are strong growth segments. Rotterdam benefits from the strengthening world economy, especially resulting from imports from China and exports from Germany. The overall activity in the ports is back again to the 2008 level.

From a timing point of view Den Hartogh is therefore doing well. We clearly hope the new installations will help Den Hartogh to reap the benefits from the revival of world trade activity. □



Wemmers and vegetable oil plant AAK cooperate!

Wemmers Tanktransport at Bleskensgraaf and the vegetable oils and fats company AAK have realised a new tank cleaning facility at the production site in Zaandijk (NL).

Wemmers is the main transport company servicing AAK, a large multinational that produces speciality fats with high added value. AAK sells its endproducts to the chocolate and confectionary industry and the food and animal feed industry in general. AAK also supplies fats for technical applications. The company operates production facilities in i.e. Denmark, Mexico, The Netherlands, the United Kingdom, Sweden, Uruguay and the U.S.A.

The new installation at AAK is only aimed at tank trucks that load and unload at AAK. By "insourcing" the cleaning process, the company can guarantee qual-

ity and validate food safety in the best possible way. The process is completely kept in one hand. The production plant in Zaandijk is situated in an urban area. With the investment in a tank cleaning the number of vehicle movements is drastically reduced, resulting in a clear win-win. The neighbours are happy and logistical costs are significantly lower. The cleaning bay operates with three water propelled rotor jets, which get water supply from a 150 l/minute high pressure plunger pump. The pump has an integrated frequency converter. This reduces wear and tear and improves energy efficiency. The bays also have two spray guns, one above and one aside the tank lorry.

The discharge hoses are cleaned with the help of a hose cleaner and a special platform. Each rotor jet has its own steam supply. The application of steam

heats the tank surface and loosens up the product remnants more easily. The installation is controlled via stainless steel control panels and has an integrated TRS validation system for cleaning management.

The whole installation benefits from the existing infrastructure, like the steam boiler and hot water preparation systems available at AAK. The result is a very compact, integrated and most importantly very effective tank cleaning facility for all parties involved. □



Resins cleaner for HTC

HTC Columbus in Antwerp (B) recently expanded its services to cleaning of resins and latex based products. In order to do the job safely and effectively, the decision was taken to purchase a newly designed resins cleaning installation from Gröninger.

HTC aims to offer its customers a full range of cleaning services. Cleaning out tank containers and tanks with product remnants like resins had been on the "wants list" for quite some time. The newly installed resins cleaner is a skid-based stand alone unit. Operational cost of the unit can be kept at a minimum by using the existing infrastructure, like the steam boiler and hot water preparation

system. The installation is placed in a separate cleaning bay, in order to avoid waiting time for the other cleanings done at HTC.

The investment at HTC increases customer service levels to an exceptional standard! □





Gröninger builds its first tank cleaning on African continent

Gröninger Cleaning Systems has commissioned the first ever installation sold in Africa. This installation is situated at a newly developed depot facility in Alexandria (Egypt). The project was awarded by Global Depot Solutions, a company that works together with local partners, in this particular case transportation company Egyptans, in the field of Intermodal Transport Depots. In Alexandria the installation focusses on the handling of tank containers.

The new and very innovative installation was built at the Gröninger factory in Schiedam and is integrated in a 40 ft container. Steam from a very compact

steam boiler is injected in an insulated hot water tank and heats up the cleaning water to about 80°C. A booster pump in combination with special adjustments like heat resistant seals etc. makes it possible for the pump to be fed with hot water without running cavitations risks. Obviously, also cold water can be selected during the cleaning process.

The installation has two measuring pumps for chemicals. The boiler also supplies steam to the rotor jets for the purpose of pre-steaming the tanks. The rinsing water is pumped from the tanks and stored in tank containers. The pumps separate three flows: organic, non-organic and heavy metals.

The GDS management is formed by Evert van Vliet and Cor Mol, entrepreneurs that have a proven track record in the international (tank)container world. "We are looking for systems that meet western world requirements in non-western circumstances. We strive for quality in combination with robustness. This led us almost naturally to Gröninger. In close cooperation we designed a system that meets our strict parameters. We like to work with "plug and play" systems. Therefore the complete cleaning bays infrastructure like steps, stairs and platforms were also designed and supplied by Gröninger. The end result is fantastic, and most importantly it really works," according to Evert and Cor. □



New IBC cleaning cabins for AkzoNobel Deco in Cologne

At the AkzoNobel facility in Cologne paints and coatings are produced. Internal transport and distribution is done by IBCs and containers, which need a thorough cleaning before reuse. The on-site cleaning installation was moved in the Spring of 2010. Gröninger was selected for this project. In addition to the internal move, Gröninger has modernised the installation and has delivered two extra cleaning cabins.



The cleaning cabins facilitate external and internal cleaning of IBCs and stainless steel containers. In order to save water and detergents, a complete loop has been developed, using four recycling tanks, thus reducing the water usage to an absolute minimum.

The rotor jet for the internal cleaning is fed by a 150 bar high pressure plunger pump. For operator safety a specially designed protection cover was introduced. With a mixture of water and detergents kept at 60°C an optimal cleaning result is achieved. □



New cleaning cabin for IFF Tilburg

International Flavours & Fragrances Inc. (IFF) of Tilburg (NL) has increased its production facilities. Early 2010 Gröninger was awarded a contract to create a completely new cleaning facility with a cleaning cabin and a high pressure washing unit.

The cleaning cabin is designed to clean various types of stainless steel production containers, by using hot water without detergents. The system is, in line with the strictest IFF standards, designed to achieve a high level of productivity and safety. It can work automatically with washing programs, automated positioning of the rotor jet, integrated vapour control and many safety measures to safeguard the operators. Ergonomics and functionality go hand in hand. □



Innovative high pressure unit for new Huijbregts Group production facility

De Huijbregts Group (1936) is currently constructing a brand new facility in Helmond (NL). This new facility will produce spices and seasonings for the food industry and will boost the group in the food powder logistics.

Gröninger has, in cooperation with Biesheuvel Techniek, developed an innovative high pressure pumping solu-

tion. A high pressure cleanpack, with frequency controlled detergent pumps, feeds both the spraying guns and the rotor jets to clean the production tanks. The system is completely integrated into the plant infrastructure and is controlled from the central control room of the facility. □

New household waste container (“KLIKO”) cleaning facility for municipality of Oosterhout



The city of Oosterhout (NL) recently started working with the new semi-automated container cleaning installation on their municipal waste disposal site.

For long municipal vehicles have been cleaned on a central washing bay on the site. The existing high pressure unit

has now been replaced by a modern Gröninger unit. The standard household waste containers (so called kliko's) now can be cleaned more thoroughly and much faster. The unit is also multi-functional in that respect that it also allows for the outside cleaning of municipal vehicles on the central washing bay. □

Potable watertank rinsing unit for “MOPUstar”

The MOPUstar is an offshore oil production platform to be used in the North Sea near Norway.

The platform is built by Gusto/SBM offshore. Gröninger has already built an explosion proof high pressure pump unit for the MOPUstar. On this kind of

platforms the potable water tanks need to be cleaned regularly. These tanks are usually hard to reach since available space is limited. Therefore designing an efficient cleaning option was not an easy challenge. The Gröninger/Gusto engineers, however, jointly came up with an innovative solution. A smart



combination of a small rotor jet with a dedicated integrated flange construction completely takes over the operator's job. Easy does it! □

High pressure unit for tank storage park at Stubbe

Stubbe Logistics at Gouda (NL) has added a new service to their already wide value added logistics portfolio for wet cargo.

In 2005 Stubbe moved to their beautiful location on business park Gouwestroom. This location consists of an office building, a combined IBC and tank cleaning, a waste water treatment plant, flexible heating locations and temporary storage for tank containers. In the last two years a filling service was added, positioning Stubbe as the regional leading Liquid Logistic Centre.



Recently eight large storage tanks with a total capacity of appr. 1.200 tons for temporary storage were positioned. Gröninger has created the cleaning solution for these tanks by using the existing infrastructure of the tank cleaning facility, which was built by Gröninger in 2005.

On top of the work platform and in between the storage tanks a support beam with an industrial electrical hoist on a trolley has been mounted. This hoist holds a flexible high pressure hose with a rotor jet. The hoist with the rotor jet can be moved manually along the storage tanks and the rotor jet can be mounted on top of each tank. From the top of each tank the rotor jet can be put into position using the control unit. The actual washing process is completely automated and is managed by the PLC of the tank cleaning system. Cleaning quality is optimal. And the needed flexibility of a modern tank storage facility is guaranteed too.

We hope that many customers will be served well by this latest expansion of Stubbe! □

News items

2nd Tank Cleaning Symposium Brecht (B), October 14 2010

Several experts in the field will discuss the topic "legal liability" in the logistical supply chain. Tank cleaning operators in The Netherlands and Belgium are exposed to all sorts of liability risks. The organisers expect about 200 participants. Like in 2009, the entrance is free. □



Barrel cleaning installation for Thor

Thor GmbH from Speyer (D) produces and sells preservatives, raw materials for cosmetics and fire proof materials. The products are stored and moved in various types of barrels. Until recently Thor had been cleaning these barrels manually. Recently Thor ordered a barrel cleaning installation at Gröninger, with which all sorts of barrels in all sizes can be cleaned internally and externally. □



H&S England automates hose cleaning

H&S transport recently ordered an enhancement for their hose cleaning system in England. Loading and unloading hoses have to be cleaned properly and efficiently. The system now uses high pressure water and detergent dosing is possible. This enhanced functionality further strengthens H&S local presence. □

The picture shows a modern Gröninger hose cleaning platform.



Ongoing projects

- **WTR – Willich (D)**
New tank cleaning installation
- **Funke – Visbek (D)**
New tank cleaning installation
- **Logiserv Râmnicu Vâlcea (RO)**
New tank cleaning installation & waste water treatment plant
- **Tank Cleaning Europoort Rotterdam (NL)**
Major expansion of existing tank cleaning installation
- **Schlichtmann Transport Harsefeld (D)**
New tank cleaning installation
- **Cleaning Twente – Almelo (NL)**
Fully automated IBC cleaning installation
- **Lohberger Transporte Vienna (AT)**
Customised exterior cleaning washing bay
- **Fourcee Infrastructure Equipments Pvt. Ltd Mumbai – India**
Four containerised tank cleaning installations

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