

WANGEN Triplex™ pumps guarantee the stable disposal of sewage sludge

Clean water is important. Robust pump technology supports this.



Untreated waste water from Winterthur and the Töss Valley (canton of Zurich/Switzerland) is extensively purified and treated in the waste water purification plant (ARA). After an average of only one day, the waste water has passed through all the cleaning stages and is discharged purified into the River Töss - with significantly better values than are required by law.

Pre- and post-clarification in waste water treatment plants produces thickened sludge, which is either dewatered directly or fed to the sludge dewatering units via the anaerobic digestion stage. These units dewater the sludge using centrifuges, screen belt presses, rotary filter or chamber filter presses, and it is then pumped with a dry substance content of 20–45% for further processing in silos, sludge basins or directly for sludge drying. This task is provided by WANGEN [KB and KL series](#) pumps.

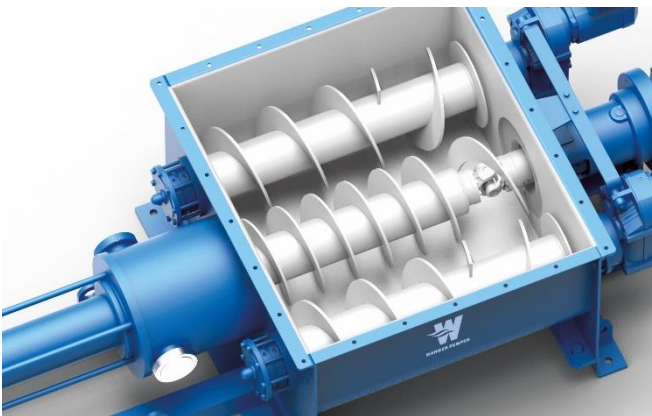
Winterthur Department of Public Works uses pumps for this process, which are produced by the German manufacturer WANGEN PUMPEN, based in Wangen in the Allgäu region of Germany. Every year, around 85,000 cubic metres of sewage sludge are produced during the waste water purification processes in the waste purification plant in Winterthur. Three large WANGEN KL-R Triplex™ hopper feed pumps are operated in this facility and reliably pump the sewage sludge, dewatered to a dry substance content of approx. 30-35 %, into the silos provided.



Strong partner in Switzerland

Rototec AG, the Swiss sales partner of WANGEN PUMPEN, has deliberately chosen to use these Triplex pumps. Working closely with the Application Technology department of Pumpenfabrik Wangen GmbH, the operators were advised of the possible applications of WANGEN progressing cavity pumps for pumping dewatered sewage sludge. The WANGEN Triplex™ pumps were installed in 2016 at the waste water plant in the canton of Zurich. The company's application knowledge and many years of experience in the waste water sector were decisive factors in opting to use pumps in the plant in Winterthur, which are produced by the German pump manufacturer.

WANGEN KL-R Triplex™ for the continuous pumping of sewage sludge



Benefits of the WANGEN Triplex™ pumps include the reliable prevention of bridge building, due to the integrated screw system and the large buffer volume in the collecting container. The KL-R Triplex™ series of pumps are impressive on account of their constant pumping, for instance when feeding drying equipment. Any interrupted feed from the dewatering system is compensated for by the buffer volume in the collecting container.

The robustness and durability of the WANGEN Triplex™ pump makes it ideal for the most heavy-duty operating conditions.

Product information on the WANGEN KL-R Triplex™

Three WANGEN KL-R Triplex™ pumps are currently operated in the ARA Winterthur waste water treatment plant:

- Model: KL65R 80.8, with hopper dimensions 1,000 x 1,100 mm
- Pressures up to 48 bar
- Medium to be pumped: Dewatered sewage sludge with a dry content of 30–35 %
- Robust pump technology
- Minimal downtimes for maintenance work

The operators of the plant are also very satisfied with the operation of the pumps and confirm: "We initially faced challenges due to the very compact space available, long pipelines, poor pumping conditions and the spatial conditions we needed to take into account. Together, we developed solutions, shared knowledge and expertise, and systematically implemented the customer's specific requests. The result: Everyone is very satisfied and the stable disposal of sewage sludge in the catchment area is guaranteed."

"We were able to successfully complete this project at ARA Winterthur, thanks to the cooperation with our long-standing Swiss partner Rototec," explains Heiko Kaiser, Regional Sales Manager at WANGEN PUMPEN.

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Well-founded advice forms the basis for successful and long-term cooperation. Rototec AG exclusively designs solid and reliable pump systems to meet your requirements, installing brand-independent solutions. 30 years of experience in the sale of solidly designed pumps for all industries help in assessing new challenges. The company has its headquarters in Richigen (canton of Bern), Switzerland.

[All information on Rototec AG](#)

www.wangen.com

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