

WANGEN Xpress pumps convince operators of Wastewater Treatment Plant in Ireland

EPS Group successfully install innovative pumps from WANGEN PUMPEN in a Wastewater Treatment Plant in Ireland.

- **Site name:** Shanganagh Wastewater Treatment Plant
- **Location:** Dublin, Ireland
- Population Equivalent: 186,000 PE
- Pump Application: 6% DS primary sludge is pumped from the base of a Square Primary Settling tank to a Sludge Thickening screen.

Original installation: The plant used eight progressive cavity pumps from another supplier (non-WANGEN) with manual variable gearbox. The speed of these pumps was controlled manually using a speed variator that in turn controls the media flow. The Wastewater Treatment Plant had problems with original pump installation, because the gearbox of the pump failed due to high loading at slow speeds. The rotor and stator had quite a bit of wear due to the high level of abrasives entering into the pump and numerous blockages occurred.

The WANGEN Xpress offers the optimal solution to solve the problem of blockages:

EPS Group - the Irish Water, Wastewater and Pumping Specialist - provided a WANGEN Xpress pump with “robust” cardan joint that fits perfectly into the current installation layout. Due to the existing pipework layout, the customer was looking to install a replacement pump with as little disturbance to the pipework layout as possible. EPS offered an Xpress 48m model, which had a similar footprint and only required one small adjustment to the pipework. To control the speed (flow) of the pump, EPS provided a 4KW IP66 wall mounted variable speed drive, which allowed the customer to control the speed of the pump remotely through a Modbus connection between the variable speed drive and onsite PLC.



The innovative WANGEN X-LIFT quick-change system ensures reliable pumping of media and a fast rotor/stator change without having to remove any piping. This contributes to a substantial reduction of maintenance costs!

Successful operation: The Xpress pump and variable speed drive was installed in April 2020 with very positive comments on the pump's performance from the operators. EPS Service Manager (Leinster Region, Ireland) Pat Lambe says "Installing the XPRESS pump was smooth and successful. The performance of the XPRESS impressed the customer, who has since gone on to purchase a second WANGEN pump and Variable Speed Drive (VSD)".

And WANGEN PUMPEN's Regional Sales Manager, John Booth appreciates the successful integration of the Xpress pump to enhance the performance of the customer's plant. The EPS group provided a complete professional solution for the wastewater treatment plant.

WANGEN Xpress self-priming pump with X-LIFT quick-change system



The reliable pump with cardan joint is excellent for conveying sludge in Wastewater treatment plants. Fast rotor/stator changes are possible thanks to the **patented WANGEN X-LIFT quick-change system** developed by the German company WANGEN PUMPEN. When removing or installing the rotor/stator, there is no need to remove the pump from the piping system thanks to its Service in Place design. The Xpress pump ensures easy maintenance and considerably shortens the servicing time.



[WANGEN Xpress video](#)



WANGEN PUMPEN offer a comprehensive program of robust and highly reliable pumps for Wastewater Treatment and Anaerobic Digestion plants. These wastewater treatment pumps are excellent for conveying thin slurries or even sludge with a **dry substance content up to 45% DS** at large lift and over long distances. Key to the success of WANGEN pumps is the very robust pump design and **high stability Cardan joint** and the own design of **heavy-duty mechanical seal** specifically engineered for extremely arduous applications. WANGEN pumps ensure minimum maintenance and production downtime with very low life-cycle costs!

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EPS is a trusted provider of innovative, progressive and future proof products, solutions and services to the water sector. With 50 years expertise, we pride ourselves on our client focus, embracing a can-do attitude; reliability, certainty of performance and delivery to clients.

[All details about the EPS Group](#)

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