

Extended range boosts wash press performance

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New high-capacity counter pressure screw reduces screenings volume

Wastewater treatment has many challenges, not least the removal of wipes and rags with a cost-effective and sustainable screening process. Handling this debris efficiently requires robust and reliable equipment, which has been the hallmark of Nordic Water's Meva product range for decades. The counter pressure screw (CPS), used with the screw wash press, offers excellent dry solids content, optimizing performance and minimizing disposal costs.

Nordic Water, a Sulzer brand, is at the forefront of wastewater product engineering, with a comprehensive range of high-efficiency pumps, mixers, screens, filtration plants and much more. At the treatment plant, the screens and wash presses are the first line of defense for the equipment downstream. Part of the process to remove debris at the inlet involves the screw press, which compacts and dewateres the waste before depositing it in a skip for disposal.

Increased performance

Nordic Water has extended its range of counter pressure screws with the launch of the CPS-X50, which has been designed to handle the full capacity of the SWP 40 wash press. Together they can achieve a dry solids content of 50-60% and the build quality ensures a long service life. It is also possible to specify a long conveyor section to reach storage skips or hoppers for an efficient transport process.

The removal and disposal of screenings from the incoming flow is an important process for any wastewater treatment plant. With an increasing volume of waste,

greater pressure is being placed on the equipment and operating costs need to be kept to a minimum. To that end, Nordic Water's combination of the Meva Screw Wash Press and the Counter Pressure Screw deliver up to 50% less screenings by volume than a traditional pipe system.

The high counter pressure offered by the CPS ensures a longer retention time in the press zone, which provides a greater washing effect. This reduces the organic content of the screenings, an important factor when it comes to disposal. Many countries have imposed increased costs, or even prohibit the disposal of waste with high organic content.

Turnkey solutions

To ensure operators can achieve maximum capacity, the CPS-X50 has a larger diameter screw that is capable of delivering more torque thanks to the larger gear unit, drivetrain and bearings. In fact, this system currently offers the largest capacity of any counter screw equipment on the market.

Specialists from Nordic Water can support customers with all the necessary planning and designs for screenings handling equipment to ensure the most reliable and cost-effective system. Turnkey solutions including controls and connections to surrounding infrastructure ensure minimal disruption and exceptional performance and reliability for years to come.

Image captions:

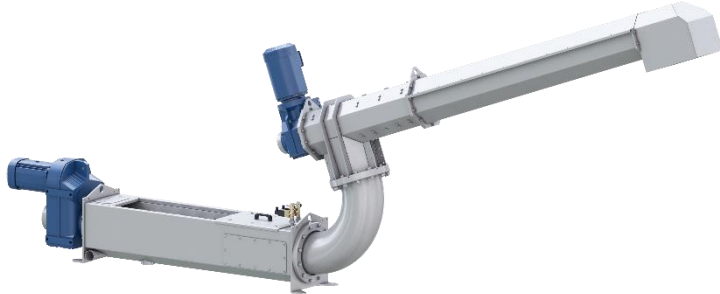


Image 1: Nordic Water has extended its range of counter pressure screws with the launch of the CPS-X50

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About Nordic Water

Nordic Water offers a wide range of equipment and systems for water purification plants, waste water treatment plants and industries of all sizes. Working on improving the effectiveness of water treatment since 1961, Nordic Water is a pure engineering company with a passion for developing original ideas and technical solutions that have the potential to revolutionise the water sector and drive the whole industry forward.

Nowadays the company is 100% Swedish-owned with the head office based in Gothenburg and its products distributed worldwide through a network of own sales companies and representatives.

For more information, visit <https://www.nordicwater.com/>

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