



MWS Equipment Launches

HYDR○PURE

Smarter Water Management

COALISLAND, NI – 24th August 2021—Smarter washing solutions specialist, MWS Equipment is proud to announce the latest addition to its product portfolio. The **Hydropure** thickener range is designed to maximise water recovery whilst minimising the use of tailing dams.

Water management solutions are increasingly in demand across the modern aggregates production world, with water being a valuable global resource. MWS Equipment have listened to their customers, particularly in regions where it can be difficult and, in some cases, impossible to find the water required to supply an aggregate processing plant. MWS have used their high-level expertise within this industry to design a range of thickener systems which complements the current range of wet processing equipment.

HYDROPURE THICKENER

The primary goal of the Hydropure thickener is to recycle as much water as possible at the point of use ready for feeding back to the wash plant. The MWS Equipment range of thickeners come in a variety of diameters of 6, 8, 10 and 12 metres. They are designed to handle various flow rates from 180 to 650 m³/hr of slurry and process up to 40 tph of solids.

A well designed and installed thickener system can recycle up to 90% of the original feedwater supplied to the plant. This greatly reduces the amount of “fresh” water which is required. The use also vastly reduces the overall footprint of a plant as it reduces the need for large surface area



settling ponds, and the costs associated with operating such ponds.

Smarter Operation Unit



The cyclone overflow (waste slurry) from the wash plant is directed to the Hydropure thickener where an anti-turbulence feed chamber adds a small amount of flocculant to the waste stream. This flocculant which is prepared in a dedicated make up station is used to combine the small particles together into larger sizes. These larger size particles then sink to the bottom of the Hydropure Thickener, allowing the clean water to flow over the weir into the clarified water tank, for direct reuse within the wash plant.

The particles which settle in the tank are collected in a lower cone section where they can be pumped from the thickener.

The Hydropure is fitted with a centrifugal pump which is used to pump this waste sludge out of the thickener. This can either be to a settling pond or sludge holding tank for further processing by a filter press or similar.

The system is controlled from either a dedicated standalone PLC system or it can be combined into the controls of the MWS Equipment wash plant.



As a result, customers enjoy the flexibility to choose the best filtration technology for their production environment, along with being able to integrate the Hydropure into existing equipment.

Ben Frettsome, Product Line Director, MWS Equipment, said “in line with our core values of commitment, innovation and sustainability we are diversifying our product range to supply our customers with a full product solution. MWS has been responsive and

adaptive to change, with the outcome being our industry-leading design which offers versatility and cost efficiency. The water management range showcases the very best of MWS engineering and, with almost infinite permutations across the wet processing sectors, enables us to deliver our customers truly smarter water management solutions.”

Norman Kane, Senior Technical Manager, MWS Equipment, added “This is an exciting development for the business with the new product range complementing our core offering. Over the years, MWS Equipment have gained a great reputation for quality products and efficient service, and these are

the standards to which MWS Equipment will thrive to emulate. The business will continue to expand to suit the demand of the industry, regularly releasing new products and increasing its coverage to service our partners and customers through its regional teams.”

MWS Smart water treatment and process filtration solutions are designed to:

- **Increase productivity** – using the latest water treatment and process filtration innovations
- **Improve quality** – using proven technology to deliver consistent results
- **Drive sustainability** – saving water, energy and consumables while reducing waste
- **Reduce operating costs** – with solutions focused on a low total cost of ownership
- **Maximise efficiencies** – through tailored technology that meets exact site requirements.

For further information visit: www.mwswashing.com.

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MWS Equipment designs and manufactures a full range of modular, mobile and static washing equipment for the aggregates, waste & recycling, mining and construction & demolition sectors. The professional profile of the washing division has grown and evolved over the last 5 years, and the new brand and alignment reflects a commitment to the future and customers who seek leading edge products and services to grow their business. As of 2019, MWS Equipment is a part of Metso Outotec.

Metso Outotec is a frontrunner in sustainable technologies, end-to-end solutions and services for the aggregates, minerals processing and metals refining industries globally. By improving customers' energy and water efficiency, increasing their productivity, and reducing environmental risks with their product and process expertise, Metso Outotec is the partner for positive change.

Headquartered in Helsinki, Finland, Metso Outotec employs over 15,000 people in more than 50 countries and its pro forma sales for 2020 were about EUR 3.9 billion. The company is listed on the Nasdaq Helsinki. mogroup.com, twitter.com/MetsoOutotec. Metso Outotec ranked 8th on the Global 100 list of the world's most sustainable companies.