



Minerals

Dewatering Solutions
for Sand and Aggregates





Our global team of in-house dewatering specialists are positioned close to our customers to ensure rapid response where it counts.

With decades of dewatering experience behind them, our engineers are well equipped to provide tailored fluid management solutions to help customers take back control of their water.

Over 40 years of dewatering expertise is just the beginning

We're an original equipment manufacturer in the truest sense – we develop, design and make the end-product. Together with our innovative engineering and leading-edge materials technology, our team of passionate dewatering specialists ensure that you not only receive the best-in-class equipment, but expert configuration and support to optimise even the most challenging applications.

Engineered-To-Order is second nature

Water can be unpredictable and so can site requirements - that's why we regularly put our engineering skills to the test in the development of engineered-to-order solutions. Using simulation techniques such as DEM (Discrete Element Method) modelling, our team of specialists study the ins and outs of each operation to deliver integrated turnkey solutions featuring our extensive range of equipment ideal for sand and aggregates applications.

World class service and support wherever you are

Across the globe, Weir Minerals provides unsurpassed service and support for your equipment. Whether you order a complete system, single piece of equipment or wear parts, our skilled after-market service teams make us a valued partner in both the mining and aggregates industries.

We also provide professional on-site training for your personnel to ensure smooth, safe and efficient plant operations and maintenance, creating value for you from day one.

Take control of your water with Weir Minerals

We know that no matter what you're processing, you'll always need to move water from point A to point B. Weir Minerals targets the challenges quarries face with pumping water around site, providing the optimal solution for each specific and unique application.

From reclaim and process water management to in-pit dewatering, our product portfolio includes Warman® and Multiflo® pumps especially engineered for fluid management. Our range of highly engineered Multiflo® pontoon barges and pump houses uses these pumps to offer customers a variety of floated and land based mobile fluid management solutions.



Multiflo® LF dewatering pump units

The trailer-mounted Multiflo® LF range of high performance, high head, pumps is specifically designed to effectively handle a wide-range of liquids from water, to sewage and sludge.

Multiflo® LF pumps provide a dependable, highly efficient, and portable solution for variable site conditions, including applications where liquids may contain high percentages of solids and other material.



Multiflo® SJG submersible pumps

The Multiflo® SJG submersible dewatering pump is engineered to combine a light weight pump design with proven materials of construction to create an efficient and reliable dewatering pump solution.

The SJG pump utilises a design that maximises pump wear life through standard pump features such as epoxy coated casings that provide demonstrated corrosion and erosion resistance.



Warman® DWU dirty water pumps

The Warman® DWU pump is specifically engineered to handle dirty water from onsite water sources such as ponds and open pits with specific gravity (SG) of up to 1.05.

Designed using Weir Minerals' advanced materials technology, the Warman® DWU pump processes fluid efficiently and minimises the need for pump maintenance.



Trillium Floway® vertical turbine pumps

Available as single or multistage pumps, the Floway® vertical close coupled turbine pump features a fabricated discharge head, top mounted motor and wet pit or closed suction.

The range of vertical Floway® pumps provides the capability for higher pressures with premium efficiencies and low operating costs in sand and aggregates applications.



Warman® SHW submersible slurry pumps

The Warman® SHW submersible slurry pump is a fully customisable slurry pumping solution that provides advanced pump features and high chrome wear parts for maximum processing efficiency.

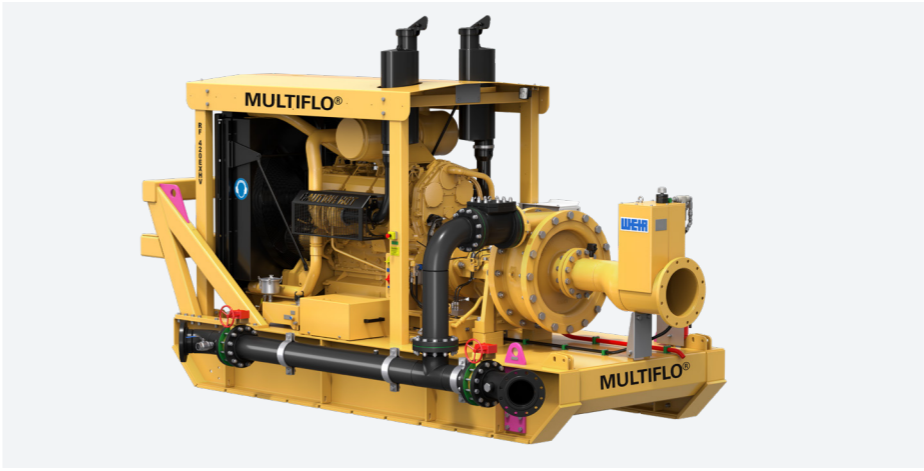
The SHW pump makes extensive use of Weir Minerals' finite element stress analysis and state-of-the-art solids modeling to ensure reliable, long wearing, solids handling capability.



Multiflo® pontoon barges

Multiflo® pontoon barges are engineered to be safe and extremely stable, available as both heavy duty single hull or lighter-weight modular designs.

Our Multiflo® pontoon barge range includes polyethylene, steel or fibreglass floats paired with vertical or horizontal mounted pump sets to suit a wide range of applications.



Multiflo® dewatering pump units

Multiflo® dewatering pump units are equipped with a heavy-duty skid and diesel or electric engine capable of producing high volume flow at extra high heads.

Our Multiflo® dewatering pump skids utilise a self-priming arrangement for a range of horizontal mounted pump sets, and the heavy duty construction and modular design create a stable skid that is designed to be lifted or dragged into position where it's needed.

These Multiflo® units reliably maintain high pump efficiencies, ideal for quarrying and environmental water management.

Balancing the water level on site is an important consideration for every application. Alongside decades of engineering experience, our product portfolio ensures our dewatering solutions deliver exceptional results no matter the application.

The Weir® Mobile Pumphouse

The skid-mounted Weir® mobile pumphouse is an innovative mobile solution that provides a variety of pumping possibilities for your water management applications. The Weir® mobile pumphouse is designed to be relocatable with flexibility to modify discharge locations.

The groundbreaking design sets a new standard for hydro-transport system management. Traditional pumphouses can become a limitation when operations expand to new areas.

The Weir® mobile pumphouse overcomes these limitations by providing you with the ability to rapidly reconfigure a pumping network thus providing a significant capital and operating cost advantage.

Design

- Patent-pending pump and motor base design isolates building settlement effects so that pump and motor alignment is not compromised
- An array of pump options are available to adapt to varying applications
- Supplied as a completely self-contained and environmentally controlled module
- Standard maintenance features include gantry crane, roof and side access facilitating pump maintenance operations
- Custom tooling for cold weather use is available
- Companion eHouse is available for power control and remote communication
- Ideal for Thin Fine Tails (TFT) hydro-transport



The Weir Minerals sand wash plant

Our range of Weir Minerals compact sand wash plants feature industry leading materials technology, process equipment and are fully supported by Weir Minerals' unrivalled global service network.

These plants contain our advanced technology and are designed to be portable, easy to assemble, maintain and operate. Weir Minerals sand wash plants are capable of meeting the needs of even the most experienced of sand producer while proving intuitive and easy to operate for a new entrant.

Design

- Lined with Linatex® premium rubber
- Compact skid design (within standard transport parameters)
- Sump features a mesh layer to prevent larger particles from damaging the Warman® pump or Cavex® hydrocyclone
- Sump inspection hatch facilitates easy maintenance
- Flexible platform and stairs configuration
- Panels and spigot can be easily replaced if required
- Constructed using world-class components
- A Variable Frequency Drive (VFD) (optional) ensures the plant continues to operate optimally regardless of any changes in feed
- The VFD can reduce the plant's overall power consumption and commissioning time, while increasing the wear-life of the pump
- Flexibility to process wet and dry slurry
- A floating ball switch is located inside the sump to protect the Warman® pump from dry runs.
- Minimal foundation work required during installation
- All discharge and connection points are designed to be operated with ease

Performance

- Drier product compared to sand screw plants
- Fewer moving parts compared to sand screw plants
- Rapid assembly
- Maximum recovery
- Low energy consumption
- Low total cost of ownership
- 100% direct washing is enabled through the Cavex® hydrocyclone
- Supported by the Weir Minerals global service network

Engineered-To-Order Solutions

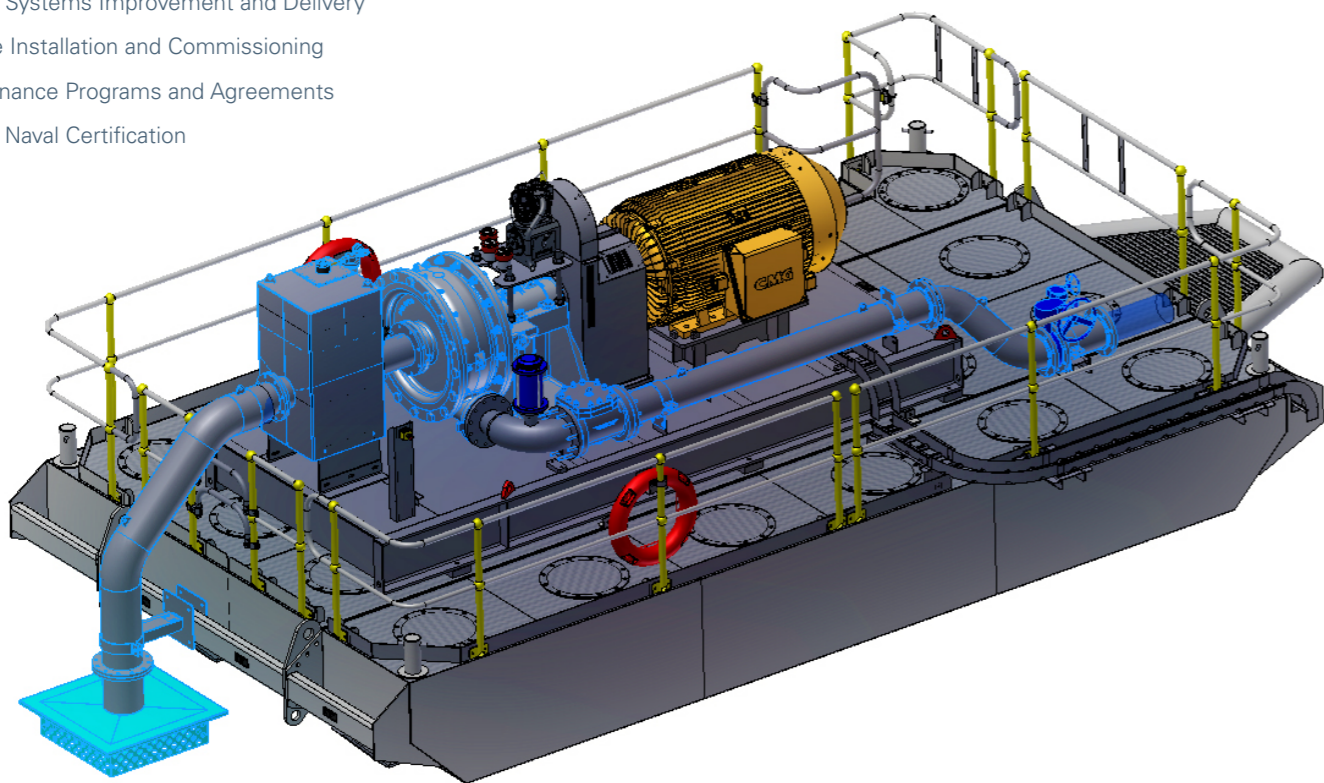
Establishing relationships with our customers is just the beginning. We hear feedback directly from the people who work with our equipment every day, and that helps us create even better solutions.

Having in-house engineering expertise means that we work directly with our customers to create solutions that consolidate waste to recover more product more easily, while also extracting reusable water and sending it back into the process plant more quickly than standard solutions. With our extensive product portfolio we are equipped to provide the entire solution. From initial consultation and design, to manufacturing, commission, and training and supervision of site operators.

The Weir Minerals dewatering team engineers in-house solutions using highly engineered and reliable equipment that isn't just efficient, but also adds value to a customer's site process. And for our customers these all-in-one Multiflo® packages eliminate the headache of integrating civil construction, electrical control rooms (MCC), control systems, pipes, cables, and mechanical and electrical works. No matter the application, Weir Minerals' solutions put partnership and efficiency first.

Our capability

- Project Management and Superintendence
- Civil Construction
- Civil Design
- Electrical Design
- Electrical Construction and Installation
- Mechanical Design, Analysis and RPEQ Signoff
- Quality Systems Improvement and Delivery
- On Site Installation and Commissioning
- Maintenance Programs and Agreements
- Marine Naval Certification



Our Expertise

The Weir Minerals team has been responsible for successfully designing, manufacturing and optimising sand processes around the world. Our teams take the time to understand your objectives and design a solution which fully meets your needs.

After delivery and commissioning, our partnership continues through our unmatched global service network. Our local service experts remain on-hand to assist with any maintenance, operational or improvements needs you may have, as your process or operating conditions change.





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