Armstrong Industrial showcases high pressure solutions at Waterjet Expo

Armstrong Industrial will be showcasing its waterjetting and high pressure wash solutions at the Waterjet Technology Association (WJTA) Conference and Expo in New Orleans.

As a division of Armstrong Fluid Technology, Armstrong Industrial provides single-channel access for a wide range of industries with both fluid and gas applications.

“Our industrial high-pressure systems have been engineered for efficiency – so that customers can optimise their operations while reducing their energy consumption,” said Michael Cline, General Manager of Armstrong Industrial. “Leveraging 90 years of engineering experience, our solutions deliver advanced performance, proven reliability and measurable efficiency.”

The Armstrong Industrial team will be on the ground at the WJTA event in Hall A – Stand 840, where the company’s offerings to be highlighted include its high pressure umbilical flushing units, its high pressure (HP) wash system and its mobile ultra high pressure (UHP) wash unit.

Umbilical flushing

The HP umbilical units boast waterjetting capabilities up to 2,500-16,000 PSI (170-1100bar PSI; in standard industrial applications, they deliver flows of 2.5-15.8 gallons (10-60 litres) per minute.

“Our ceramic RAM technology gives our units superior wear resistance compared to traditional steel components, and extended service life so that customers can reduce their replacement frequency,” said Cline. “It also means 40-60% lower embodied carbon footprint than steel construction – while providing greater corrosion resistance for harsh operating environments.”

He highlighted the intelligent controls on these high pressure units, including IoT connectivity for performance tracking and smart monitoring capabilities for predictive maintenance – which can be integrated with facility management systems.

HP wash systems

At its exhibition stand at the WJTA Expo, Armstrong Industrial will also be introducing visitors to its high-pressure wash system – engineered for industrial fan, duct, and surface cleaning applications. Powered by Armstrong Envelope intelligence, these systems use less energy – to reduce customers’ carbon dioxide emissions by 20-30%, said Cline.

“Variable speed control adjusts pressure and flow in line with cleaning needs, while the soft starting and stopping avoids power surges and water waste,” he explained. “The auto-stop feature when the machine is idle also cuts unnecessary runtime.”

The system’s intelligence adds 10-15% to operational efficiency, as it auto-adapts to different wash zones and duty cycles. The real-time pressure and flow control ensures optimal cleaning, while integrated alarms and diagnostics allow for smarter decision-making.

These advanced wash systems are available in low flow and high flow variants. The low flow variant is employed in cleaning applications from ducts, heat exchanger fins and cooling coils to solar panels, dust collector fans and paint booth exhausts. Among the applications for the high flow variant is the cleaning of electrostatic precipitators, air preheater banks, boiler casing outer shells, conveyor belts and industrial tankers.

Mobile UHP unit

Another focus of the Armstrong Industrial range being discussed on the stand at WJTA Expo will be its mobile UHP (Ultra high-pressure) wash unit – for applications like drain cleaning, cable duct desilting and rail culvert cleaning. Its plunger pump generates pressures of 32,000 PSI (220MPa) to achieve a flow rate of 10 gallons (38 litres) per minute. Powered by a 248hp (185kW) John Deere diesel engine, the generator set is sized for the pump and auxiliaries. No gearbox is required, as the pump and engine are directly coupled.

With Armstrong Industrial's commitment to safe operations, the UHP wash unit features safety and control components including a rupture disk to protect against overpressure, and a high pressure filter to protect the pump and nozzle. A leak nozzle line ensures that seal leakage can be safely handled, and a manual cylinder valve controls water delivery.