

Colfax Fluid Handling Announces All-Optiflow® Progressing Cavity Pumps, Increasing Flow Potential

(Bottrop/Germany) Colfax Fluid Handling has introduced the Allweiler All-Optiflow® series of progressing cavity pumps. Applications include waste, wastewater treatment and paper manufacturing. Colfax Fluid Handling, a global leader in fluid-handling solutions for critical applications, is a business of Colfax Corporation (NYSE: CFX). All-Optiflow progressing cavity pumps offer up to twice the flow of standard pumps for applications up to 6 bar (87 psi) and move virtually any type of liquid, including fibrous and solid materials efficiently and reliably.

The pumps feature high power density to help reduce energy consumption by up to 15% when compared to standard progressive cavity pumps. Shaft diameters are approximately 30 percent smaller than those found in standard progressing cavity pumps, reducing friction by nearly 50 percent. This, combined with the application of low-wear materials, provides the potential for reduced maintenance costs. The All-Optiflow series employs a variety of innovative design details designed to reduce energy consumption as well as costs for maintenance and spare parts. Examples include redesigned pumping elements with higher power density, low-friction rotors and shaft seals, and stators with a special surface.

This Allweiler pump series is designed to optimize the standardization of structural components, such as a patented stub shaft connection and a lifetime-lubricated joint, allowing operators to move most liquids economically. The stator surface is honeycombed and works in tandem with the patented "sharkskin" rotor surface. This should provide a lower starting and operating torque, allowing the pump to operate at higher efficiency than normal and providing stable performance curves throughout operation. "The advanced design of the All-Optiflow lowers total costs of ownership (TCO) over that of comparable systems," said Stefan Kleinmann, Sr. Director Marketing & Business Development. Allweiler is a brand of Colfax Fluid Handling and has been delivering progressing cavity pumps to customers around the world for more than 50 years.

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Image caption:

With a maximum capacity of 3800 l/min, "All-Optiflow" can handle all types of industrial processes. It pumps liquids with a viscosity up to 300,000 mm²/sec with a maximum pressure of 6 bar. The pumps' advanced design, materials, and special surfaces significantly reduce expenses for energy and maintenance compared to conventional progressing cavity pumps.

Image: Allweiler GmbH

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