

Allweiler at Achema: Pumps at the heart of every system

(Radolfzell) At this year's Achema, Allweiler AG will employ an informative multimedia exhibition concept to introduce a new generation of intelligent pumps (Hall 8, Booth R17/19). Specific smart technologies are designed to eliminate problems associated with leaks, overheated bearings, and defective seals, thereby resolving complex sets of challenges faced by Allweiler's customers. Automatic safety reactions designed to prevent disturbances before they happen are an example of intelligent functions that ensure high stability, long service lives, and lower Total Cost of Ownership (TCO).

Allweiler AG's exhibit at this year's Achema will focus on its solutions and capabilities where pumps are the "heart" of the system. New intelligent technologies are utilized to solve complex challenges facing pump operators.

An important example of smart technology is "condition monitoring" of major mechanical components. This is facilitated by the new "Allready Box" feature, which quickly recognizes a leak on the shaft seal or the first indications of bearing damage. Reactions can range from optical and acoustic signals, forwarding of signals to a monitoring station, shutdown of the pump, or even change-over to a reserve pump. Existing pumps can be easily retrofitted with this technology.

"Allseal" is another innovation that provides an economical way to monitor mechanical seals. In this case, an opto-electronic sensor detects wear early enough to avoid unpleasant surprises like system downtime. This feature is currently available on Allweiler screw pumps and will be extended to other pump series on a step-by-step basis. Pump/motor assemblies already in operation can be easily retrofitted.

"Allspeed" is a highly dynamic method of speed control developed for high-pressure pumps that move cooling lubricants in machine tools. It is capable of achieving speed jumps of 5000 1/min. and pressure differences of 120 bar within 500 ms. Adaptive capacity and pressure regulation, without the need for valve controls, plus true plug-and-play functionality that does not require programming and parameterization produce a truly novel approach to control. Operational costs can be reduced by 50% or more with only a minimal investment in comparison to conventional methods.

Dr. Michael Matros, Chairman of Allweiler AG, explains: "We are now focusing on intelligent solutions that lower overall costs because that is what our customers are demanding. We have every intention of fulfilling their requirements."

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With its comprehensive selection of screw, centrifugal, and progressing cavity pumps, Allweiler is always able to offer an optimized solution regardless of the customer's liquid or application. Allweiler pumps are additionally characterized by outstanding robustness. Magnetically-coupled centrifugal pumps of the Allmag CMA series are a good example. Used in the process industry, they exhibit extended service lives and are able to resist dry running, which saves the customer significant amounts of money.

Founded in 1860, **Allweiler AG** is the oldest German pump manufacturer and the European market and technology leader for centrifugal, propeller, screw, progressing-cavity, cogwheel, rotary lobe, macerators, and peristaltic pumps. Allweiler AG owns a foundry and produces its own stators. It manufactures ready-to-use fuel and lube-oil skids and rinsing-water facilities. Allweiler AG has its main German headquarters in Radolfzell on Lake Constance as well as a major production site in Bottrop, Germany. Allweiler AG has been part of Colfax Corporation since 1998.

Colfax Corporation is a global leader in critical fluid-handling solutions, including the manufacture of positive displacement industrial pumps and valves used in global oil & gas, power generation, marine, naval and a variety of other industrial applications. Key product brands include, Allweiler, Fairmount Automation, Houttuin, Imo, LSC, Portland Valve, Tushaco, Warren and Zenith. Colfax is traded on the NYSE under the ticker "CFX." Additional information about Colfax's products, businesses and practices is available at www.colfaxcorp.com.

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