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PRESS RELEASE

WITTMANN BATTENFELD at the Fakuma

Performance indicator for the health status of servo-pumps

WITTMANN BATTENFELD has developed an easy-to-understand and robust performance indicator that shows the health of hydraulic driven units and pumps at a glance. Among other benefits, it enables required maintenance work to be scheduled more effectively.

The servo-pumps in injection molding machines are what drive the movement of the main hydraulic units. These include the clamping unit, ejector, injection unit, and the injection and metering systems. Reliably manufacturing components to a high quality depends on the pumps operating properly.

"Health Factor" developed by WITTMANN BATTENFELD indicates the health status of the main hydraulic units, from which the condition of the pumps can be deduced. The unit related performance indicators computed from the "Health Factor" not only take into account a multitude of internal process parameters of the respective drivetrain in real time, but draw on historical trend values too. If the performance indicator falls for just one unit, it means that only this unit is showing wear. If the performance indicators decrease for all units, it indicates a general pump or wear issue. The information not only allows repair and maintenance work to be planned more effectively, but to target the unit or pump in question. The operator can order the required parts in good time and schedule downtime for the repair work so as to minimize disruption to the ongoing production operation.

The company's current developments are focused on the health status of electrically driven units.



Fig.: Servo-hydraulic machine from the *SmartPower* series

The WITTMANN Group

The WITTMANN Group is a globally leading manufacturer of injection molding machines, robots and auxiliary equipment for processing a great variety of plasticizable materials – both plastic and non-plastic. The group of companies has its headquarters in Vienna, Austria and consists of two main divisions: WITTMANN BATTENFELD and WITTMANN. Following the principles of environmental protection, conservation of resources and circular economy, the WITTMANN Group engages in state-of-the-art process technology for maximum energy efficiency in injection molding, and in processing standard materials and materials with a high content of recyclates and renewable raw materials. The products of the WITTMANN Group are designed for horizontal and vertical integration into a Smart Factory and can be interlinked to form an intelligent production cell.

The companies of the group jointly operate eight production plants in five countries, and the additional sales companies at their 34 different locations are present in all major industrial markets around the world.

WITTMANN BATTENFELD pursues the continued strengthening of its market position as a manufacturer of injection molding machines and supplier of comprehensive modern machine technology in modular design. The product range of WITTMANN includes robots and automation systems, material handling systems, dryers, gravimetric and volumetric blenders, granulators, temperature controllers and chillers. The combination of the individual areas under the umbrella of the WITTMANN Group enables perfect integration – to the advantage of injection molding processors with an increasing demand for seamless interlocking of processing machines, automation and auxiliaries.

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