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WiAssist app from WITTMANN now with plasticizing module

Optimal machine setting within one minute

An over- or undersized screw may impair both processing efficiency and parts quality. Therefore, the WITTMANN Group has upgraded the WiAssist app by adding a new module. This module calculates the material's dwell time inside the plasticizing unit, thus simplifying the selection of the screw size.

WiAssist supports injection molders in selecting and setting up their injection molding machines. As an app, the digital assistant is always available at hand via smartphone and saves users from laborious calculations.

Screw within the optimal range

The essential feature is the material database contained in the app. After the material, shot weight and cycle time have been entered, the app calculates in a few seconds the relevant process parameters, such as cooling time, internal mold pressure, injection pressure, screw speed and – as a new feature –also the melt's dwell time inside the plasticizing unit. This additional function makes it possible to select the optimally suited injection molding machine for a given mold in less than one minute – for instance where injection molding machines with different screw sizes are available in a large machine fleet.

The new screw module can be used for 3-zone screws from the WITTMANN Group. Here, the app calculates the optimal dwell time and gives recommendations for the appropriate screw diameter and metering stroke as well. A clear graphic display shows which values are within the optimal range, which ones are only partly suitable and which ones are not at all suitable.

Careful selection of the plasticizing unit is vital, because the screw has an immediate effect on parts quality and processing efficiency. If the screw diameter is too small, this shortens the dwell time, and the material is melted insufficiently. But if the screw is dimensioned too large, this lengthens the dwell time, with the possible result of thermal damage to the material and faulty parts as a consequence.

Troubleshooting included

The WiAssist app offers a total of five functions:

- Querying material properties
- Assistance with the selection and setting of injection molding machines
- Calculation of process parameters
- Troubleshooting
- Direct contact with WITTMANN

The troubleshooting module includes an extensive database with frequent injection molding faults, possible causes and problem-solving suggestions.

Via the contact button, users can either send an email to WITTMANN or contact the service hotline directly by telephone.

This makes the WiAssist app a valuable assistant for all machine setters and process optimizers who work with injection molding machines from the WITTMANN Group.

The right choice of plasticizing unit is vital for both efficiency and quality standards. By calculating the dwell time, the WiAssist app from WITTMANN simplifies this process.

Picture: WITTMANN

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. 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 ten production plants in seven countries, and the additional sales companies at 35 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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