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PRESS RELEASE

DESMA presents production solutions for the sustainable design of the future at the DKT in Nuremberg from July 01-04, 2024.

Even in 2024, the joy of seeing each other again in the industry is great and the DESMA Elastomertechnik team is looking forward to four interesting days full of exchange at the German Rubber Conference in Nuremberg. DESMA will be presenting its exhibits in Hall 9, Stand 509.

DESMA HIGHLIGHTS AND INNOVATIONS LIVE AT DKT 2024:

A new size with new possibilities: The new **SEALMASTER 300+** with DESMA brushing system, ***FlowControl*** cold runner and mold dummy, which illustrates all possible mold sizes with the respective specific usable area. The **SEALMASTER 300+** has a clamping force of 3,000 kN, a ***FIFO-B*** high-pressure injection unit with 3,160 bar and a volume of 2,200 cm³.
The test results from the industry are available and confirm the 20 advantages of this series, which can be demonstrated live on the exhibition stand and/or in the presentation system:

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- ✓ Modular design offers maximum variability and productivity, such as up to 50 % more usable forming area for maximum output increase, depending on the heating plate configuration.
- ✓ Completely newly developed clamping unit with significantly reduced friction values for maximum dynamics and optimum positioning accuracy offers 60 % more opening stroke to cover a wide range of mold heights.
- ✓ 30 % more clear width for double-decker molds for double the productivity.
- ✓ 27 % greater tie-rod spacing for easy mould changes and maximum brush width utilization.
- ✓ New brushing and demolding technology positioned directly on the tie rod for the shortest approach distances and perfect alignment.
- ✓ Newly designed machine casing ensures optimum accessibility to all components.
- ✓ New machine base with special holders for heavy-duty rollers for safe installation in production.
- ✓ Positioning of all temperature control units and the vacuum pump on an extendable service rack for optimum accessibility.
- ✓ Ergonomically arranged, newly developed ***ServoGear*** hydraulic unit ensures maximum ease of servicing.
- ✓ 70 % of the hydraulic lines are piped.
- ✓ Hydraulic tank made entirely of stainless steel.
- ✓ 50 % less hydraulic oil required.
- ✓ 50 % faster travel speeds.
- ✓ Conveyor belt discharge possible on three sides.
- ✓ The **SEALMASTER+** is also available as a 4000kN version with the same machine dimensions.
- ✓ Further improved heating plate temperature accuracy, +/- 1.5 °C homogeneous temperature distribution over the entire mold surface.
- ✓ New lift-off ***FIFO-B*** injection unit with 60% reduced nozzle length, resulting in significantly shorter injection times and higher available injection pressure.
- ✓ The completely newly developed ***ActiveFeed*** generation for feeding problematic mixes with quick-release cassette for easy mix changes.

- ✓ Depending on the requirements of the respective injection molding process, the ***FlowControl cold*** runner, optionally with ***PressureSense*** technology, or the ***ZeroWaste*** ITM pot, combined with the latest mold technology, can make a further contribution to sustainable and resource-saving elastomer article production by producing optimum, sprue-free and waste-free articles in high quality with low reject

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rates. The valve gate cold runner or ***ZeroWaste*** ITM technology, as well as brushing systems and/or other automation systems, are controlled centrally via the machine control system. All sensors and, for example, the cavity pressure can also be monitored and documented via our ***PressureSense*** technology.

- ✓ With the ***DRC 2030 TBM*** control generation and trend-based visualization, all processes are always under full control. Full connectivity, including traceability and all remote service tools, can also be used to guarantee maximum system availability and process traceability.

DESMA 968.560 ZO **BENCHMARK**

Also, on show live at the trade fair stand will be one of the all-round talents, the DESMA 968.560 ZO **BENCHMARK** with 6,300 kN clamping pressure, 6,600 cm³ ***FIFO-A*** injection unit and silicone tamper. Thanks to the **BENCHMARK** clamping system and the demoulding table, this machine offers optimum ergonomics for the operator and ideal accessibility for handling systems, robots, or other automation systems. The areas of application for this series are wide-ranging, from large-volume seals, insulators, cable sleeves and rubber-metal parts to respiratory masks, vibrating screens, and membranes. The patented ***FlowControl*** cold runner technology for sprue-free and waste-free injection molding will also be presented. This machine is also equipped with all available energy-saving options: In addition to the savings achieved using DESMA ***ServoGear*** hydraulics

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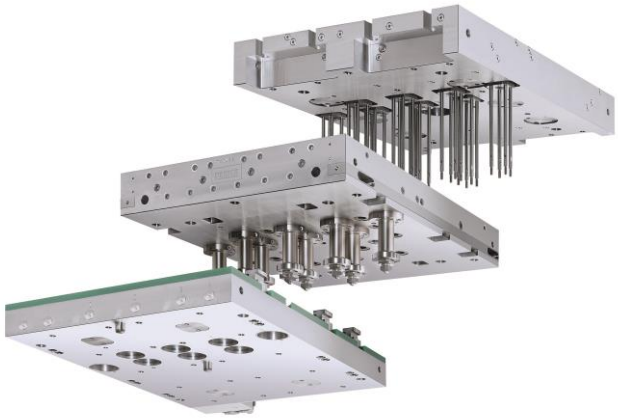
and ***EcoSilence*** temperature control units, ***EnergyControl+***, ***Iso+***, ***HeatShield*** and ***IsoMold*** contribute to a significant reduction in energy consumption.



8 nozzles ***FlowControl*** cold runner

Brush module with spraying device

The DESMA team will be happy to present further topics to you at Stand 509 in Hall 9:

- ITM and cold runner technology, ***PressureSense***, waste-free/low-waste production
- Production solutions for industrial and structural change
- Digitization with DESMA
- Automation solutions from a single source
- Traceability
- Sustainable solutions
- Silicone processing with DESMA
- Virtual company tours through the DESMA plants
- Demo ***Ecos*** - Determine "Product Carbon Footprint" and draw the right conclusions.

The DESMA PCF Navigator ***Ecos***, which has already been evaluated by TÜV SÜD, will also be presented. The entire process, from the manufacture of the actual production plant to the articles produced, can be visualized with this tool to derive clear options for the most suitable production process. To be able to carry out these calculations itself, DESMA has stored a database with default values for a wide range of elastomer types. Furthermore, there are additional input fields for individual data entry to include upstream or downstream production steps and their CO2 impact. The ***CoolApp*** has been fully integrated to verify the possible use of cold runner technology. This allows the actual material savings to be considered as realistically as possible depending on the selected nest layout and the selected cold runner. Of course, when using a cold runner, the additional energy consumption due to both cold

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runner operation and cold runner production is also considered. Any additional cycle time savings resulting from the use of cold runner technology can also be taken into account.
This provides a detailed overview of the factors that make up the CO2 footprint of a seal or molded part and how high it will be. ***Ecos*** also shows which measures can be used to achieve which reduction effects. In this way, it makes an important contribution to understanding the interrelationship of all influencing factors and to making quick decisions on the optimum production process.

PCF- Navigator ***Ecos*** is available as an application on mobile devices, laptops and PCs.

Further information at desma.biz and dkt2024.de

DKT 2024
GERMAN RUBBER CONFERENCE
NETWORKING FOR SUSTAINABLE FUTURE