



NEWS RELEASE
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WITTMANN WX138 robot: a new era begins

*At the K 2019, WITTMANN will showcase numerous new robot models: two new appliances of the **PRIMUS** series – **PRIMUS 16T** and **PRIMUS 48T** – as well as three models of the **SONIC** high-speed series: **SONIC 131**, **SONIC 142** and **SONIC 143**. WITTMANN is just as proud of the newly developed **WX138** robot, which will also be presented to the public for the first time at the K 2019.*



WITTMANN WX138

WITTMANN is famous for robots equipped with mobile X-axes, which show their advantages especially in 2-component applications, and in cases of flexible gripper design with various additional axes: that is, in complex automation solutions which are typical for injection molding machines ranging from 300 to 4,000 t. Their design also has a positive effect on the vertical dimensions of production cells, since it thus becomes possible to work with lower adapters. For injection molding machines with up to 300 t clamping force, it is an advantage to have overhangs arranged in a compact way. This is particularly important when it comes to the necessary protection of the machine operator. For all of these reasons, WITTMANN will offer exclusively the first robot with a rigid X-axis in the new **WX** design.

The **WX138** is much more than a simple revision of an existing appliance. The **WX138** has a fundamentally new design. It comes with a load capacity of 12 kg and several brand-new features.

The demolding stroke (X-axis) is available in a range from 620 to 920 mm and is driven in an innovative way by an internal belt. In this way, the drive unit is completely concealed inside the profile of the demolding axis, and the moving loads have been reduced by 30%. The vertical stroke ranging from 800 to 1,200 mm offers sufficient flexibility for using the **WX138** in insider cells as well as on injection molding machines with 300 t clamping force. Another feature worth mentioning is the dramatically increased rigidity of the vertical profile, which has been developed in-house by WITTMANN. Compared to similar systems, the rigidity in the direction of the demolding stroke has been increased by 50%, and in the direction of the main carrier (Z-axis) by 100%. Moreover, the appliance's sophisticated design offers the advantages of internal cable routing and protection of the vertical drive. The main axis (Z) comes with the same design as the demolding stroke and integrates the drive unit inside the steel profile in the same way. The steel profile has also been developed by WITTMANN and houses the energy supply as well as the drive. In this way, all moving components are optimally shielded against coming into contact with the operator. Together with the compact control cabinet, whose space requirements behind the Z-axis are less than 130 mm, the overall design of the **WX138** ensures that the robot can be operated very easily and protected in line with CE principles.

In developing this appliance, WITTMANN has paid special attention to designing a cost-efficient system which is not limited to just the robot itself, but also includes the necessary protective elements. On the whole, this opens up an even wider field of application for the **WX138** on all kinds of injection molding machines.



WITTMANN WX138

Like all **WX** appliances, the **WX138** also operates with the new WITTMANN **R9** control system. Its 10.1" touch-display offers all features of an efficient control center, including the creation of robot sequences and the ability to exchange data with other appliances via OPC-UA.

The **WX138** from WITTMANN will be available for delivery from the end of 2019.

The WITTMANN Group is a worldwide leader in the production of injection molding machines, robots and peripheral equipment for the plastics processing industry, headquartered in Vienna/Austria and consisting of two main divisions: WITTMANN BATTENFELD and WITTMANN. These two divisions jointly operate the companies of the WITTMANN Group with eight production plants in five countries. Additional sales and service companies are active in 34 facilities in important plastics markets around the world.

WITTMANN BATTENFELD pursues the further expansion of its market position as an injection molding machine manufacturer and specialist for state-of-the-art plastic processing technologies. As a supplier of comprehensive, modern machine technology in modular design, the company meets both present and future market demands for plastics injection molding equipment.

The WITTMANN product portfolio includes robots and automation systems, material handling systems, dryers, gravimetric and volumetric blenders, granulators, temperature controllers and chillers. With this diversified range of peripheral units, WITTMANN offers plastics processors solutions to cover all production requirements, ranging from independent production cells to integrated plant-wide systems.

The integration of these various segments under the umbrella of the WITTMANN Group has led to complete connectivity between the various product lines. This integration has greatly benefited plastics processing users, who are increasingly looking for seamless production, including automation and peripheral functions.

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