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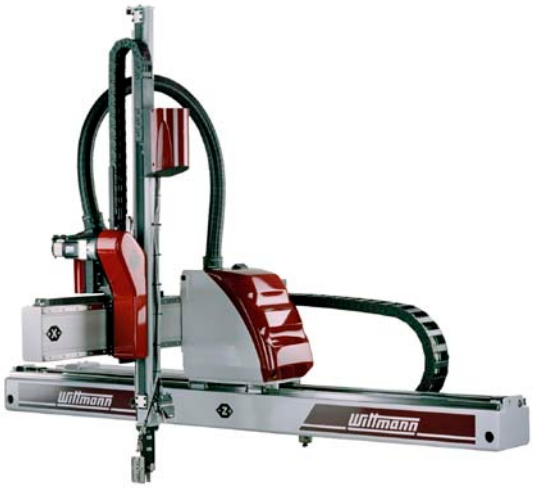
[Witt-NR-15-2012_Robots]

Creating value with new WITTMANN robot models at Fakuma 2012

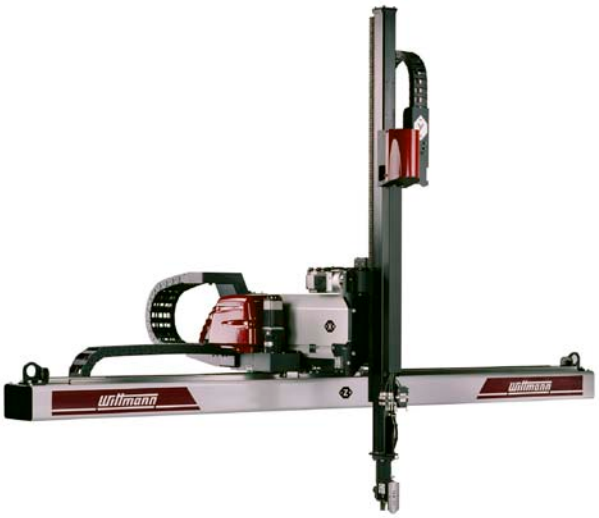
The display of the robot models from WITTMANN at the Fakuma 2012 provides the visitors with a representative cross-section of the extensive product portfolio of the market leader in Germany. Included will be even two new introductions, demonstrating their manifold possibilities: the robot models W808 and W822.



W808

The W808 model represents a significant improvement over the previous model W801 and is available from the WITTMANN Group worldwide as of now. The servo robot W808 is designed for shortest cycle times, which are typically found in smaller machine applications up to about 150 tons. This model is equipped with a fixed kick-axis with a reach up to 600 mm. The horizontal axis is available in lengths of 1,250 mm, 1,500 mm or 2,000 mm, while the vertical axis is available in either 600 mm, 800 mm or 1,000 mm. The W808 can handle a maximum payload of 3 kg and comes as a standard with the powerful WITTMANN R8.2 robot control.

Another new introduction is robot model W822. It features a special vertical design within the W82x robot series of WITTMANN. This comprises a rack and pinion, making the W822 robot able, to handle payloads up to 15 kg with strokes of 1,000 mm and 1,200 mm. The optional vertical axis of 1,400 mm still offers a payload of 12 kg. Otherwise, the model W822 features the same mechanical dimensions as the proven and versatile W821. This robot model thus provides a reach in the kick-axis of 780 mm and a horizontal traversing stroke of up to 4,000 mm.



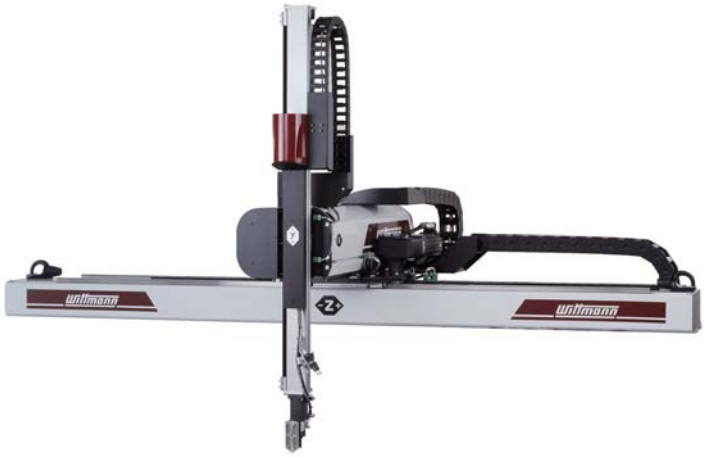
W822

Both newcomers are equipped with the robot control R8.2, offering highest flexibility, coupled with an intuitive and user-friendly interface. The W822 model furthermore demonstrates a new real-time function, which is called *DynamicDrive* and directly affects the control of the drives. *DynamicDrive* monitors by default in the background, the load limit of each axes motion of the robot. This feature was originally designed for the Ultra High-Speed horizontal robot from WITTMANN and has now been adjusted to the standard series.

In the deactivated state of *DynamicDrive* a warning is displayed in case the maximum load limits are exceeded. In the activated state, however *DynamicDrive* governs the acceleration and deceleration profiles of each axis motion of the robot. This real-time function developed by WITTMANN for the complete range of robots with R8.2 control therefore serves as a protection for the mechanical structure and drive control, as well as for the optimization of each movement of the robot.

Of course, the comprehensive functionality of the WITTMANN R8.2 robot control is furthermore available: features such as *TruePath*, *SmartRemoval*, *EcoMode*, *Find'nPick*, *SmartStart*, and the possibility to link the control to the internet allow easy operation and highest productivity. These functions are on display in an audio tour to interested visitors.

Complementing the diverse robot display, a W821 UHS robot model from the Ultra High-Speed series is presented, which is typically designed to operate with opening times of up to and around 1 sec. With a factory-set payload of 3 kg, tailored to high acceleration and deceleration profiles, specifically the UHS robots can take advantage of the *DynamicDrive* functionality. WITTMANN's Ultra High-Speed series also features the W837 model in a horizontal arrangement; operating within an IML application for the production of credit cards. A 4-cavity mold with double-sided labels is being deployed.



W821 UHS

In connection with this IML system the W837 model highlights the benefits of highest acceleration and deceleration as well as intelligent signal exchange with the injection molding machine. These features enable fast cycle times and very low power requirements. W837 series robot models are usually designed with a horizontal axis of approximately 2,500 up to 3,000 mm. The separation of the labels from a magazine and the handling of the molded parts are taken over by upstream and downstream automation components. Also for such automation systems, the module principle of WITTMANN is applied: the use of many proven and standard components from the WITTMANN-modular system. This ensures maximum uptime and worldwide availability.

Integrated into a complete workcell, the robot model W843 is on display on a WITTMANN BATTENFELD *MacroPower* XL 550 machine. The best-selling robot model W818 is integrated into the safety guarding of an HM 110 machine, named “Insider Solution”. Fully integrated into the machine frame is robot model W8VS2, a vertical SCARA robot from WITTMANN to operate within the confined space of the *MicroPower* 15 machine.

W843 IML system insights

WITTMANN worldwide is one of the leading manufacturers of robots and peripheral equipment for the plastics industry. The WITTMANN group with Headquarters in Vienna/Austria is a worldwide operating company with 7 production facilities and 20 branch

offices in all major plastics markets in the world. WITTMANN's product range includes robots and automation systems, automatic material handling with dryers and plastic recycling, temperature controllers and chillers for machine tools and volumetric and gravimetric blenders.

With this comprehensive range of peripheral equipment, WITTMANN can provide processors of plastics with total solutions which cover all their requirements, ranging from autonomous work cells with single zone temperature controllers, screenless granulators, sprue pickers, integrated vacuum loading systems and integrated cross-linked control systems with integrated material loading and dryers to automated robotic systems for flexible finishing of semi-finished injection molded parts.

On April 1st, 2008 WITTMANN took over the BATTENFELD Kunststoffmaschinen GmbH at Kottingbrunn (Lower Austria). There will continue to be independent growth in the market for auxiliary equipment on one hand and for injection molding machines by BATTENFELD on the other. However, the syndication will lead to connectivity between both product lines, providing the advantage plastics processors have been looking for in terms of a seamless combination of processing machines, automation and auxiliary equipment – all occurring at a progressive rate.

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WITTMANN at the Fakuma: hall B1, booth 1204