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WITTMANN robots:
… big … bigger … WX193!

*In its basic configuration, the new WITTMANN **WX193** robot model is already designed for applications involving extremely large parts manufactured on injection molding machines with clamping forces of 4,000 tons or more. With the **WX193**, the new **WX** robot series from WITTMANN has been extended upwards by adding a completely new model.*

WITTMANN WX193 robot – the first of its kind – during installation work in April 2019.

Every version of the new **WX193** shows impressive dimensions:

- X-axis: from 2,000 to 3,000 mm
- Y-axis: from 2,800 to 3,600 mm
- Z-axis: from 5,000 to 9,000 mm

Like all other WITTMANN robots, the **WX193** comes with a flexible, modular design, for its main linear axes are all available in a number of different lengths to enable optimal adjustment to the individual application and/or injection molding machine.

In its standard configuration, the **WX193** can handle loads of up to 150 kg. An additional pivoting servo C-axis is used in this configuration. In contrast to the conventional pneumatic pivoting axes, which are the standard equipment for many robots and enable pivoting movements of up to 90°, WITTMANN has chosen the servo variant. This version offers a pivoting range from 0 to 180°, a torque of 250 Nm and an accuracy of 0.1°. To cope with the gigantic strokes and move high payloads torsion-free across the entire working area, the Z-axis takes the form of a thick-walled double profile made of steel with a cross-section of 700 × 400 mm. All other axes of the **WX193** also consist of steel components to provide maximum rigidity. For the drive systems, WITTMANN relies on rack-and-pinion combinations (used on all horizontal axes) or a combined belt and rack-and-pinion drive (for telescopic vertical axes). Of course, additional rotary axes can be built in as optional extras (e.g. servo B-rotation around the vertical axis or servo A-rotation around the parts removal axis).

The new **WX193** robot is delivered with the latest version of the integrated WITTMANN **CNC9** control system and the **R9 TeachBox** as standard. In its functionality, the **R9** is based on the **R8** version, which has proved its efficiency over a long time, but with a number of further improvements in the features offered by the **R9 TeachBox.** The**TeachBox** now provides better visualization possibilities, i.e. a larger display now measuring 10.1" with multi-touch functions. The resolution of the screen compared to **R8** has been increased from 800 x 600 to 1,280 x 800 pixels. Step keys implanted in the housing facilitate positioning of the robot by means of tactile feedback. Of course, the **R9 TeachBox** also continues to offer the familiar programming and teach environments such as ***TextEditor***, ***QuickEdit*** and the ***QuickNew Wizard***. This ensures downward compatibility with existing, older program versions.

The syndication of the WITTMANN Group has led to connectivity between all product lines, providing the advantage plastics processors have been looking for in terms of a seamless integration of injection molding machines, automation and auxiliary equipment – all occurring at a progressive rate.

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