



# Precise, clean and fast - Woojin Plaimm at Fakuma 2017

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“Precise, clean and fast” is Woojin Plaimm’s trade fair motto for Fakuma 2017. A fully electric injection molding machine from the TE series will be on display at the GKV/TecPart Verband Technische Kunststoff-Produkte e.V. stand. At the same time, Fakuma 2017 will also be the premiere for the company’s new German sole agency, Nortec Maschinentechnik from Soltau (D), which assumed the new machine business and after-sales for Woojin Plaimm as of 1st May 2017.

Production will be realised using a fully electric TE110 with a clamping force of 1,100 kN where the tie bar distance is 410 x 410 mm (h x w). Screw diameters from 22 to 32 mm are on offer as the injection units for the TE110. The TE110 is powered by high performance servo motors. The TE series can provide high cycle speeds thanks to movements which occur in parallel. Peter Nellen, the CEO of Nortec: “The use of a single independent servo motor for each operation in the machine enables every movement to be controlled in parallel, including the removal of the part during the dosing for the following cycle.” The TE series is ideal for demanding uses with maximum precision in the areas of electronics, packaging and medicine. When operational, the machines from the TE series are very quiet, clean and energy efficient, they emit very little heat, they function without the expense of oil recooling and they offer better environmental and working conditions.

## A finite element analysis enables the optimum distribution of forces

The toggle lever system in the TE series has been developed on the basis of a finite element analysis for the optimum distribution of forces. The clamping force is derived from the typical concentration points at the edges of the mold to the centre. The toggle level principle enables the creation of a uniform clamping force envelope curve around the cavity. The efficiently applied clamping force lowers the energy requirements in general and allows for greater injection and internal pressure in the mold. A separate drive motor ensures the adjustment of the clamp to various mold installation heights. A solid linear guide enables the precise movements of the clamping unit. The TE series provides a clamping force range from 300 to 8500 kN with the corresponding injection units supplied from the factory.

## The electric high-precision injection unit

The TE injection units by Woojin Plaimm stand equally for precision and speed: The inline injection unit in the TE series, combined with the closed control loop, is optimal for high precision injection molding. The TE110 is also equipped for injection molding with very short cycle times, where very fast and precise position control is required.



The fully electric TE series by Woojin Plaimm: Precise, clean and fast

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