



Injection Molding Automation for Plastic Parts

Whatever injection molding systems are used for, XENON offers automated production concepts for thermoset and thermoplastic products. Our modular solutions are adapted to individual requirements and include high-speed removal handling with upstream or downstream assembly steps through integrated final inspection stations to parts packaging.

As a leading automation expert with over 30 years of experience, XENON stands for high precision mechanics and also proprietary software tools for digital production management (traceability, data analysis, predictive maintenance).

Our Key Competencies

- Automation solutions for thermoplast based injection molding systems
- Automation solutions for thermoset based compression molding systems
- Holistic implementation of peripheral processes
- AOI of complex assemblies



Product Development Support



Responsibility as General Contractor



External System Integration



Injection Molding Applications

- Standard Horizontal
- Standard Vertical
- Micro Injection Moulding

Molding Automation Portfolio

Robot Systems

Our robot systems with specialized gripper technologies is as unique as the injection mold. From simple load and unload processes up to complex multi gripper systems, we have built hundreds of robot applications.

- Linear robot system
- Multi-axis robot systems
- Cam-driven highspeed applications

XENON as System Supplier

As a general contractor, XENON takes care of the complete automation of all peripheral areas for the entire injection molding process, including the input and output operations into the mold. This not only increases the throughput of the injection molding application, but also ensures the quality of the manufactured products over the entire production process.



Key Automation Processes for Injection Molding

Feeding/Separation

- Flexfeeding
- Trayfeeding
- Vibration Bowl Feeding

Activation Process

- Plasma Activation
- CO₂ Cleaning
- Laser Cleaning

Loading Process

- Part and Insert Loading
- Tempering of Insert Parts
- Smart Gripper Systems

Unloading Process

- Moulded Part Handling
- SPC-Parts Handling
- Cooling

Testing

- High Voltage Test
- Optical Test
- Functional Test



Worldwide leading companies rely on XENON automation systems



That's automation.

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