Solutions for Integrated Automation
As far as improving production efficiency in injection molding processes is concerned, integrating the upstream and downstream working steps cannot be avoided. This is precisely where ZAHORANSKY Systems Technology’s strength lies. Our specialists develop innovative concepts, modules and solutions for the integrated automation of injection molding production processes with dedication and tenacity – specifically for the manufacture of plastic products in the consumer, medical technology and cosmetic sectors.

**ZAHORANSKY – PERFECTLY DIFFERENT**

**We guarantee you:**
- Short development and delivery times
- Optimal production support
- Good project management and direct communication channels
- Service – fast, competent and worldwide
- Quality – Made in Germany

**We are happy to advise you. Just ask us!**

---

*Automated Technology + Mold Making = Innovative Solutions for Integrated Automation*

**Systems Technology with ZAHORANSKY-Plus**

You have made the right decision with ZAHORANSKY. Our Systems Technology and Mold Making business divisions (as well as Plant Engineering, when required), develop a plastic-compatible complete solution with you and for you. So you can be sure that all system components interact perfectly with each other – from pallets to the finished packaged and palletized product.
Our Solutions for Integrated Automation:
From an Already Completed Automation Module to a Tailor-made System

In the automation of processes related to the injection molding, there are different requirements for which the ZAHORANSKY Systems Technology has three categories of solutions:

- **Modules**: Modular platforms or units that fulfill particular functions such as assembly, take-out or unloading, and that can be integrated directly into existing systems on a modular basis.
- **Solutions**: Configurable devices, machines or systems that can be immediately used for the automated production of your products.
- **Tailor-made**: Tailor-made systems that are developed specifically for your needs, requirements and products.

### Modules
- Units for automated take-out
- Configurable platform for assembly tasks
- Tray loading and unloading station

### Solutions
- Automated injection molding tool
- Stand-alone or integrated assembly systems

### Tailor-made
- Complete systems (injection molding tool – packaging machine)
- Medical validation of system
- Development of new processes based on customer requirement

#### Three modular units for the automation of working steps in relation to the injection molding

1. **Automated take-out**
   - Z.SIROC overhead
   - Z.SIROC vertical
   - Z.SIROC sideload

   The Z.SIROC extension unit automates the take-out from the injection molding machines, and is available in three versions, depending on the desired position of the robot.

2. **Automated assembly**

3. **Automated loading and unloading**
   - Z.LODOS (no illustration) is an efficient tray-loading and unloading station, which accelerates the further processing of molded parts.
   - It ensures linear flow of the trays, can be attached to the Z.SIROC / Z.MISTRAL, and is designed according to occupational ergonomic principles.

   The Z.MISTRAL flexible platform, which can be linked with the Z.SIROC, performs definable assembly tasks.
Intelligent Tools and Machines – Automated with Passion & Perfection

The Z.TIM automated injection molding tools facilitate total integrated manufacturing. The individual parts are injected, and assembled into a bottle stopper in the tool, without the cycle time being extended. Fully automated and highly efficient!

Z.TIM

Application-specific Systems – Tailor-made by ZAHORANSKY

Tailor-made system for the fully automated production of inner cannulas for tracheal cannulas. Fully automated insertion of the injection blow-molded cannulas into the injection molding tool for overmolding the connector for the injection molding of the adapter. Including visual quality control.

Tailor-made automation system for isolating ground cannulas, with integrated processing for optimizing the extraction force when overmolding the cannulas, which are fed to the injection process.

Z.BLIZZARD

Your solution for integrated automation – what can we develop for you? Just ask us!

Z.ZYKLON

Z.BLIZZARD automates the manufacture of pre-filled injection syringes, known as Pre-Filled Syringes. The system is characterized by the needles being processed using the FIFO principle and then immediately overmolded with the COC/COP syringe body. A sequence automation (Z. MISTRAL) to be integrated, used for example for siliconizing, ensures high quality.

The Z.ZYKLON system automates the production of hypodermic needles, by overmolding the cannulas with a Luer Lock application, making the customary adhesion of the needle unnecessary. An example of complete integration of needle isolation and injection molding.

Z.ZYKLON

Your solution for integrated automation – what can we develop for you? Just ask us!
German Engineering with **Passion & Perfection**

More than a century ago, Anton Zahoransky marked the start of a new era in brush production when he developed the first drilling and tufting machine for brushes. The company has grown into an international business offering complete solutions in the field of machine building and automation technology. It now has four divisions: Mold Making, Systems Technology, Packaging Machines and Brush Machines.

And the driving force is and always has been more than just solid “German Engineering” and concentrated innovative strength. It is the unbroken spirit of “Passion & Perfection”: lifeblood, persistence and an absolute desire to develop solutions that deliver exactly what they promise.

**ZAHORANSKY – PERFECTLY DIFFERENT**

The locations of the ZAHORANSKY Group