



January 2025  
Tooling and Automation



# SMC Mould Innovation

SMC Mould Innovation (SMC) is a renowned developer and manufacturer of high-performance **injection molding tools**. Founded in **1925** and rebranded in **2006**, SMC today stands as a leader in the Swiss plastics industry. It leverages **optimal tool design** and a **top-tier manufacturing process** to consistently deliver innovative solutions with superior **production efficiency** and **economic reliability**. SMC services a wide range of customers hailing from the **electrical equipment, medtec, pharmaceutical, carpentry, and even watchmaking industries**.

**100**

Years of  
experience

**23**


Total  
employees

**16**

Average  
cavity tools

**5+**

Industries  
served

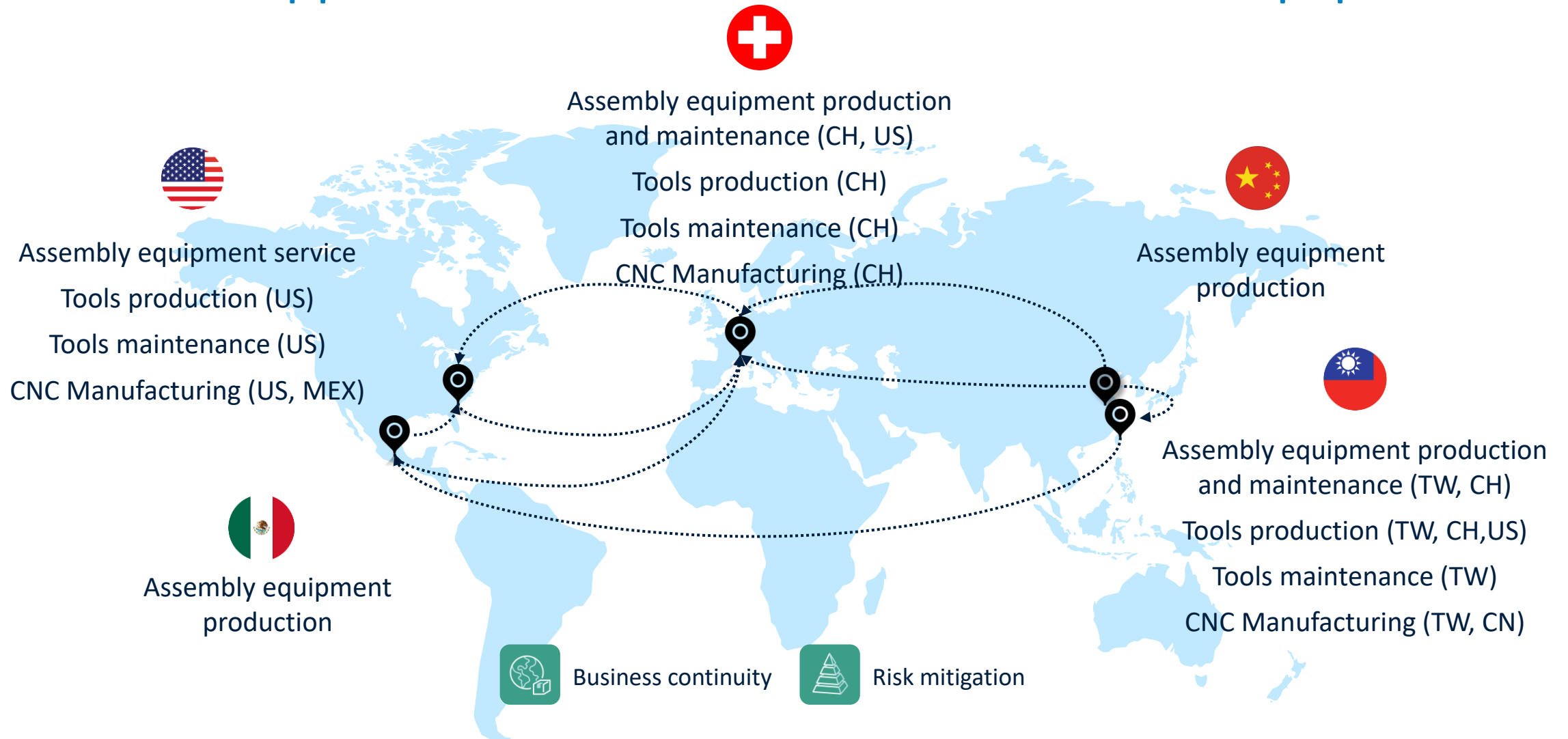


**smc**  
mould innovation





# Global support network for tools and automated equipment





Tooling solutions





# SHL Tooling solutions

SHL's comprehensive **tooling program** guarantees the **timely delivery** of **high-performance** plastic injection molds. Our **global team** of professionals offer their years of experience in **design for manufacturing** to ensure **high-quality production**, **fast cycle times**, and **mold longevity**. Our **vertically integrated operations** provide us the agility to effectively transition between **low- and high-cavity tools**, supporting both the **pilot and commercial** production demands of our customers.



Design & engineering



Reverse engineering



Prototyping



Inspection, verification, & validation



Manufacturing & assembly



Repair & maintenance

Output of  
**1,150** cavities  
for new tools/year



Max cavity: **64**  
Average cavity: **16**



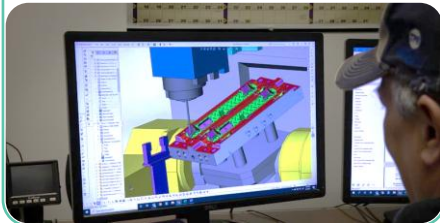
Preventive  
maintenance on  
**1,500** tools/year





# Full complement of in-house competencies

Design, engineering, and process expertise using **cutting-edge software systems.**



Continuous investments in **state-of-the-art equipment.**



Robotic automation for **round-the-clock production.**

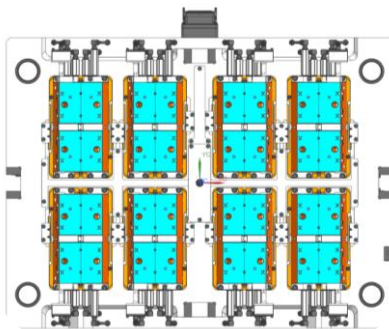
**Rigorous in-process inspections** and precision **metrology measurements**



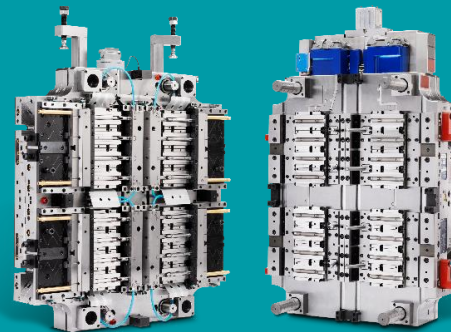
**In-house repair and revision capabilities** for **faster response** and **turnaround.**



**Modular designs**



**Hot runner, high-cavity tools** with **complex features** and **advanced capabilities.**



Investment in **people** through **continuous training** and **apprenticeship programs.**





# Our manufacturing capabilities

We invest in **top-quality equipment** and **best-in-class machining technologies**, supplemented by our design for manufacturing expertise and mold flow simulations, to ensure high-quality tool production.

Milling



Deep hole drilling



High speed cutting



EDM



Wire cutting



Grinding



Cylindrical grinding



Laser welding



Metrology



Assembly

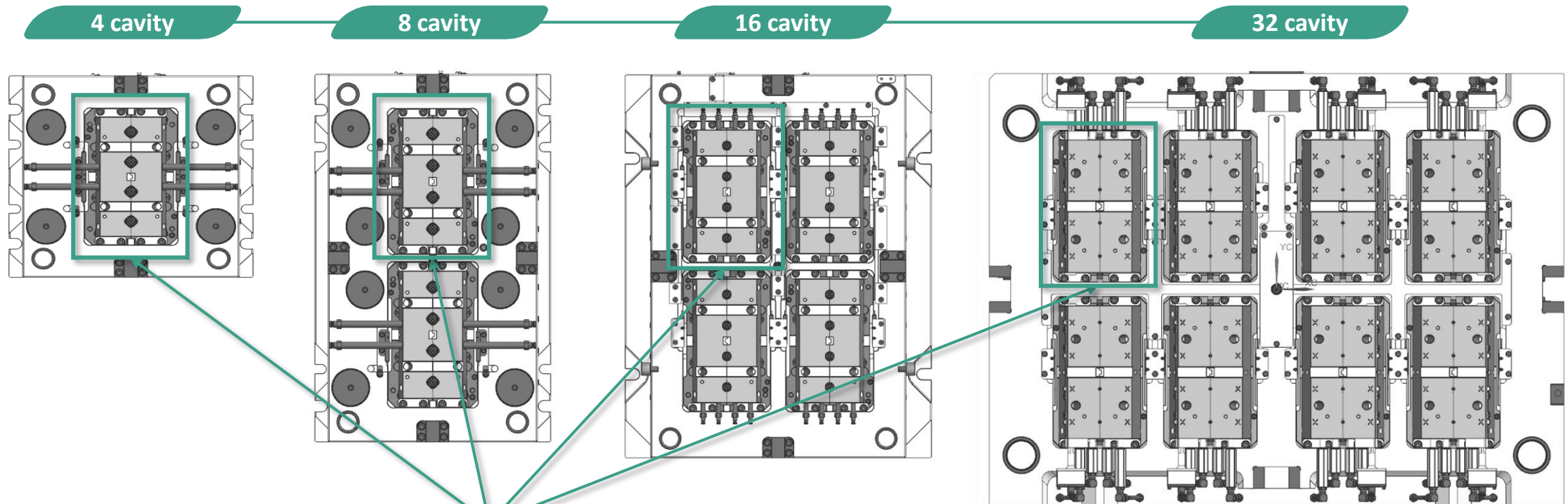






# Enabling scalability

Though a **modular approach** to tool inserts, we support our customer's need for **up- or down scaling** their productions.

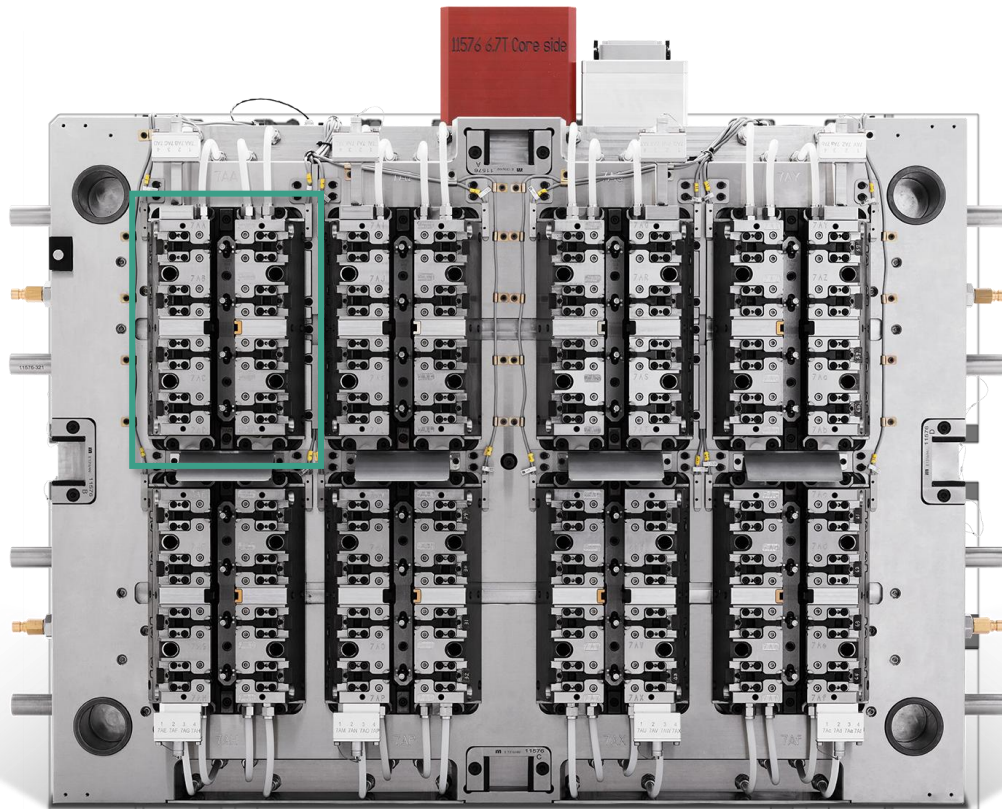


Individual **stack units** are identical in **4 / 8 / 16 / 32** cavity configurations.



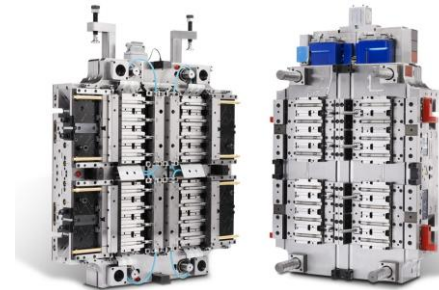


# High-precision, high cavity tools for autoinjector production



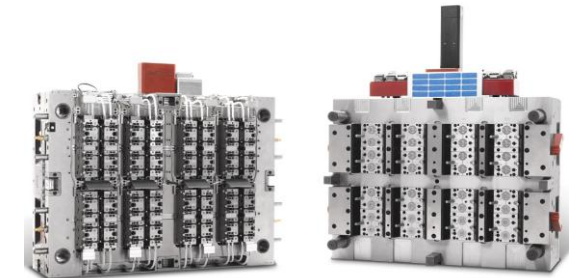
16 cavity

Autoinjector body



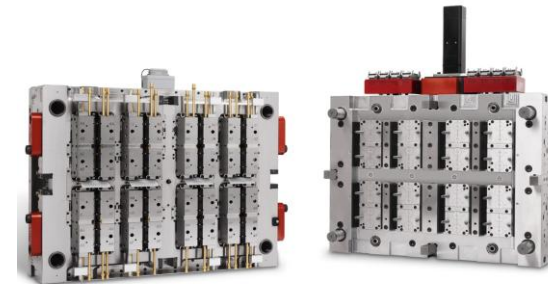
32 cavity

Autoinjector rear cap



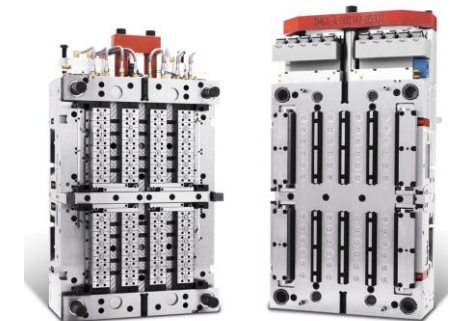
32 cavity

Autoinjector plunger



48 cavity

Autoinjector cap





# Ensuring repeatability

**Standardized tools and processes** enable us to ensure the **repeatability of our injection mold tools** and guarantee that the quality and performance are **always within specification** (dimension tolerances and surface).

