





family-run business since 1925, with a production area of 5000m<sup>2</sup>



8 CNC machining centers, with a working space up to 6000 x 3000 x1500mm and 5-axis



62 years of experience in manufacturing aluminium rotational moulding tools



plenty CAD-Workingstations and professionally trained CAD/CAM Employees



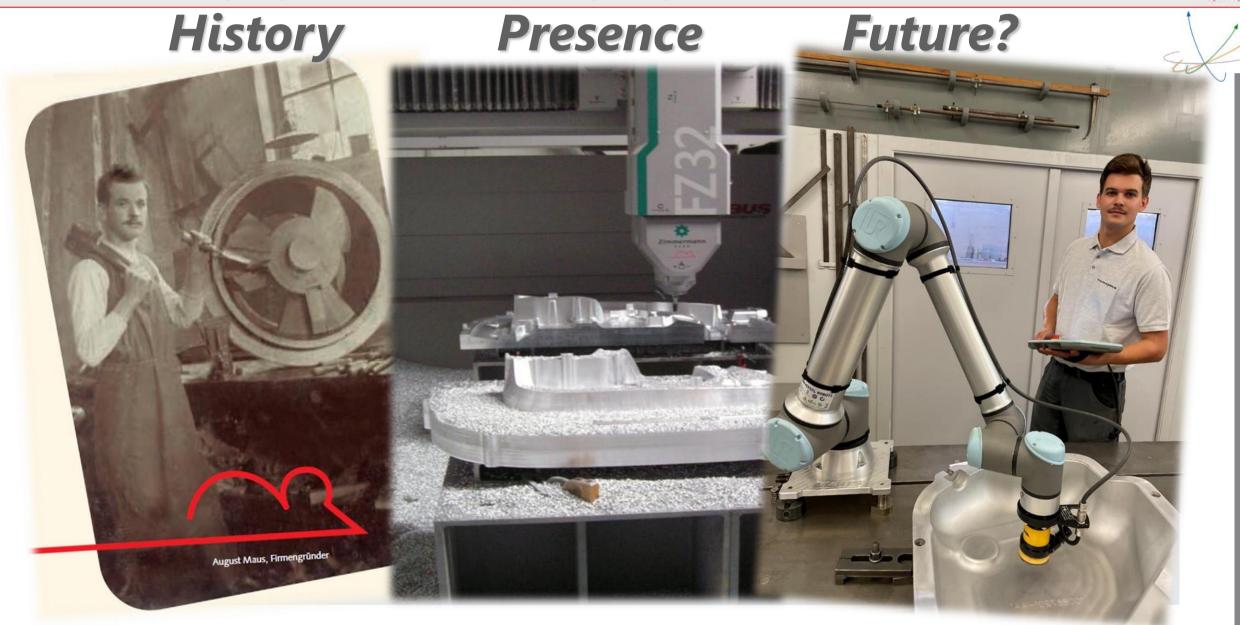
37 years of in-house aluminium foundry casting capacity of 1350kg



over 60 exporting countries









# Range of Services



Design \* Construction \* Patternmaking
Digitizing \* Re-engineering \* FEA \* Mock-ups
Prototype Moulds \* Prototype Parts

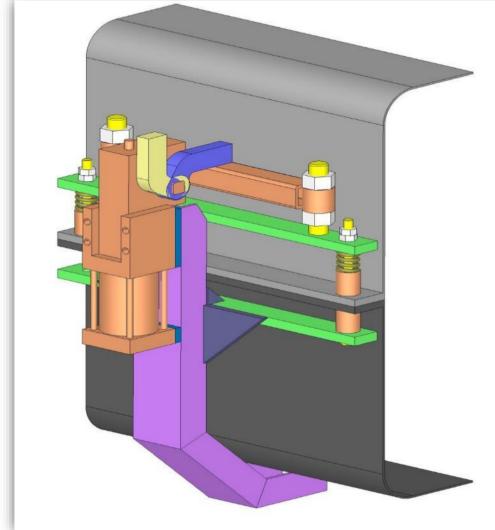
## CNC & Cast (*Kelch/Fast-Cast<sup>TM</sup>*) & Hybrid Aluminium Rotational Moulds conventional or electrical heated

Permanent Coatings \* Mould Accessories Automation \* Performance Solutions Modifications \* Repairs \* Refurbishments









- Designed for Rotomoulding
- ✓ Automatic opening/closing
- ✓ Heat resistant
- ✓ Easy visual controllability
- ✓ Pressure-less and safe system (external air to open/close)
- ✓ Powerful closure (>390KG)
- Easy maintenance



## **Aluminium Mould 6000L Tank**





Glas container, 3-piece mould, 4m<sup>3</sup>



Highest Quality





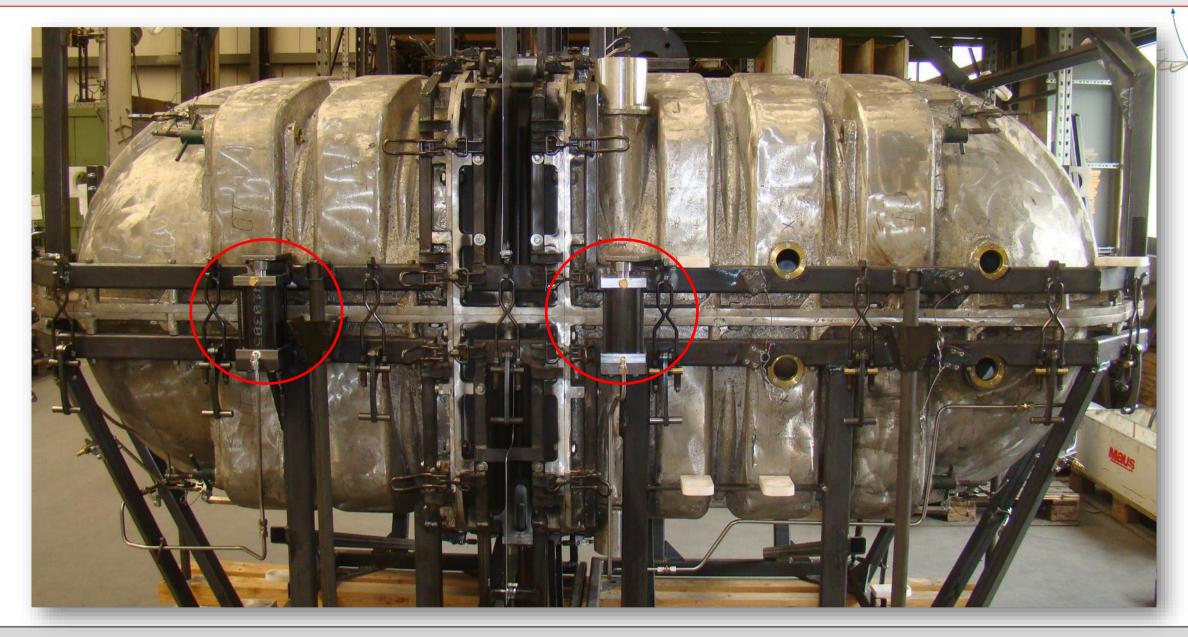
# Pneumatic prying cylinders





- Designed for rotomoulding
- Easy & simultaneously Prying
- Powerful but gentle stroke
- Preventing mould distortion
- Preventing flange damages
- Ease of operation
- Easy maintenance

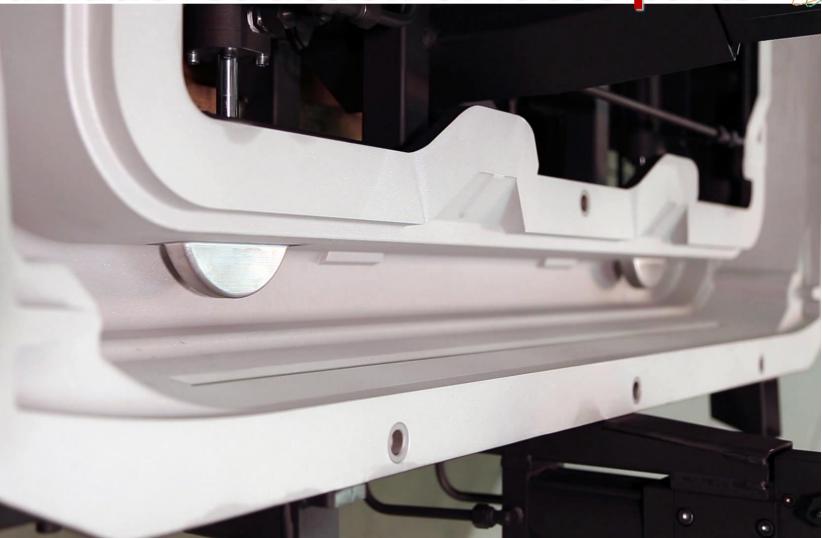






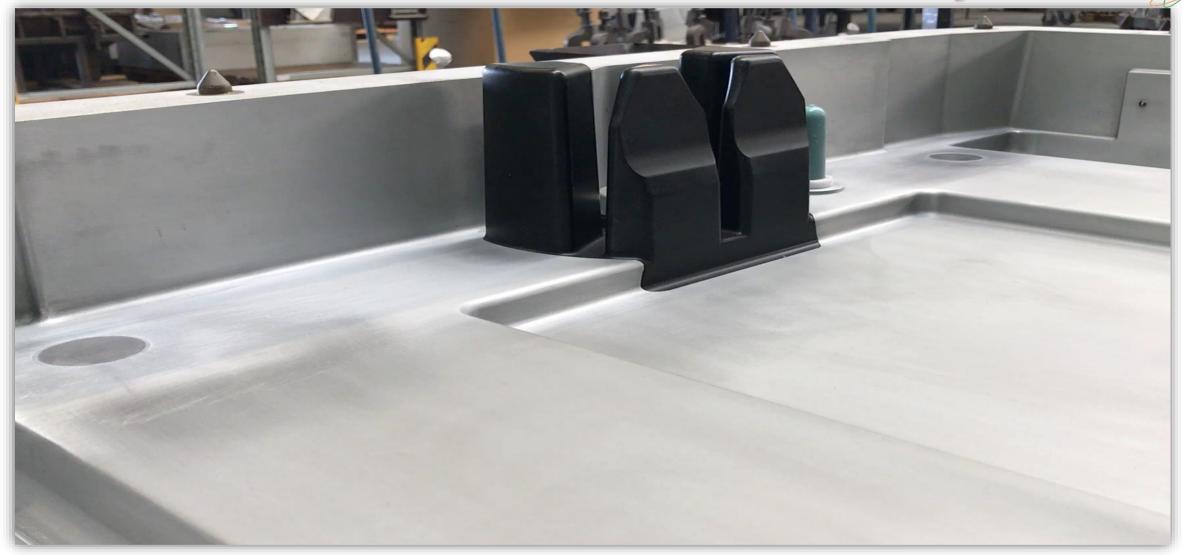
Pneumatic retraction of loose parts





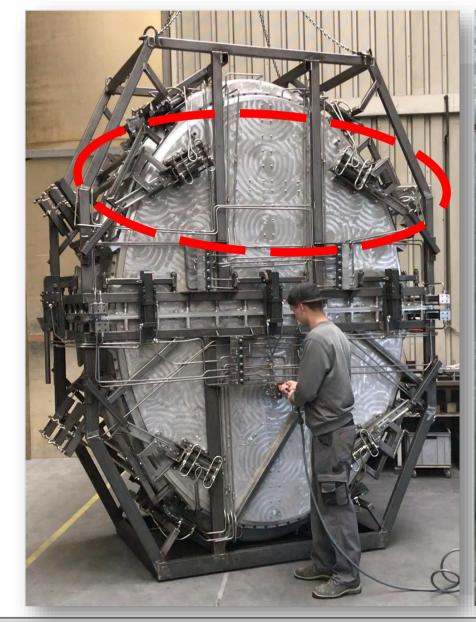


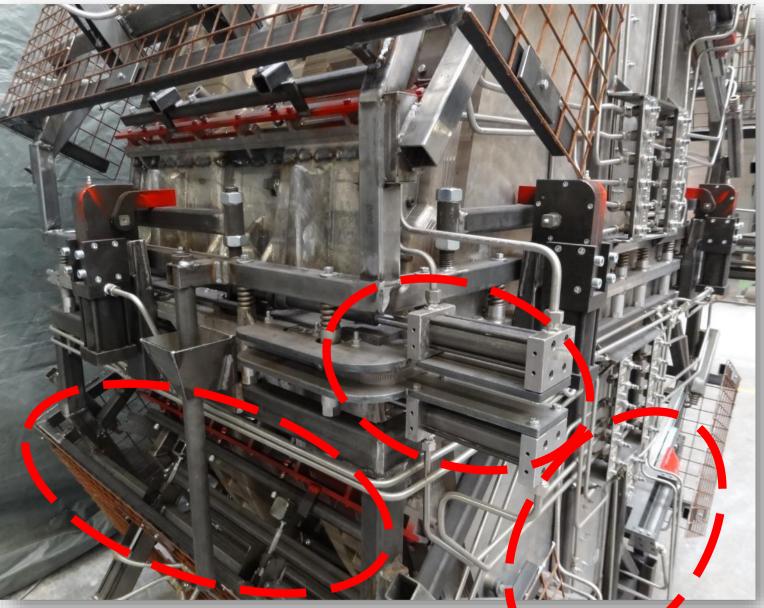
Pneumatic ejectors





Highest Quality







## MAUS Drop-Box



- ✓ Double-walled stainless steel housing, with high-performance insulation
- ✓ Interface to the mould made of PTFE
- ✓ Maus-Hole plunger opens/blocks the opening to the mould/moulding
- ✓ Pneumatic cylinder pulls plunger, when the air is separated, the plunger closes automatically



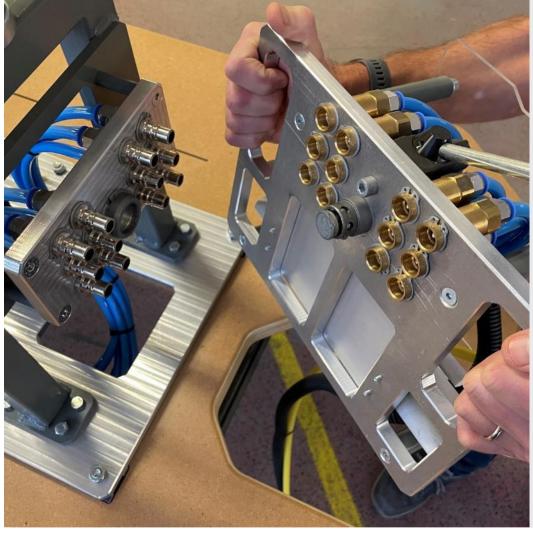




- ✓ Minimal temperature transfer to inside of Drop-Box
- ✓ Best flow of powder due to friction reduction & release properties of BMC-C40 coating
- ✓ Suiteable for 24/7 production
- ✓ Easy maintenace



**Multi-Coupling for Automation systems** 

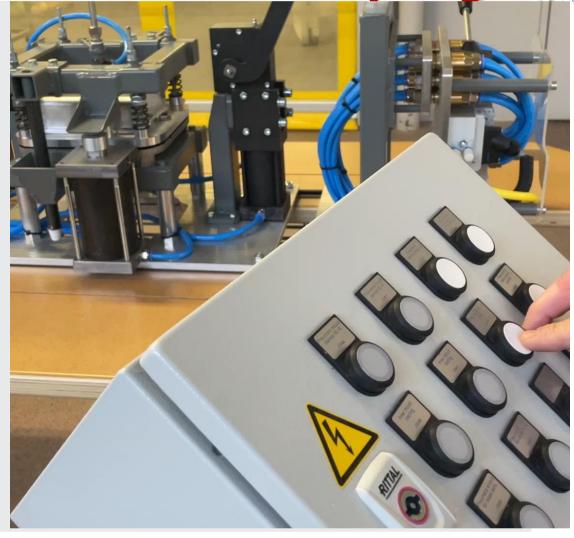


- Interface mould automation
- Easy & quick connection
- ✓ Secure operation (H&S)
- Repeatable, fool proof
- ✓ External control unit
- Easy operation
- Adoption to various moulds



**Connection of Multi-Coupling** 







Highest Quality

**Multi-Coupling for Automation systems** 



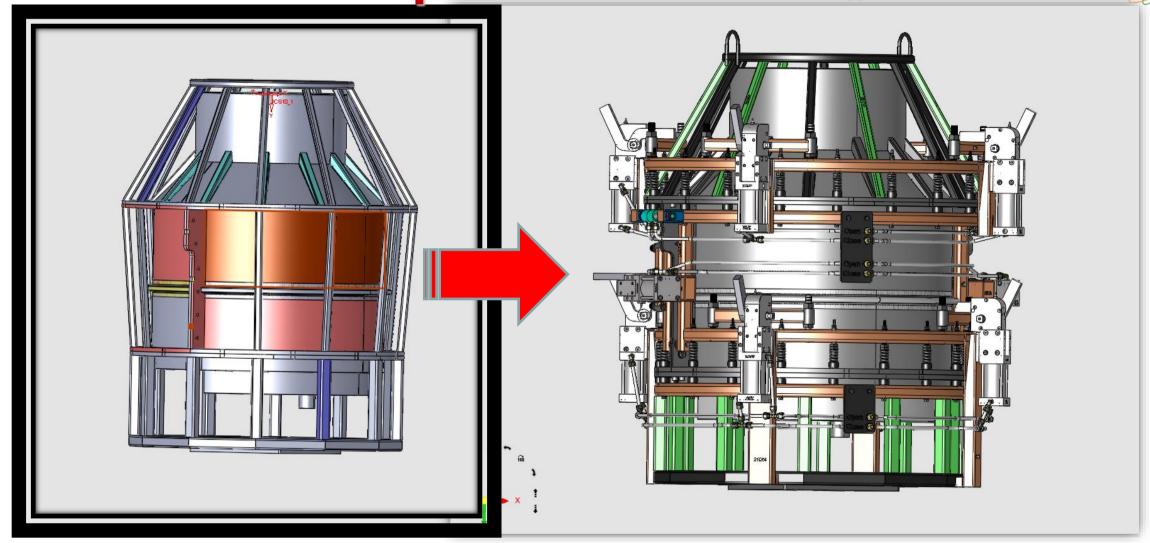


Automation of 4-piece steel mould "chamber"





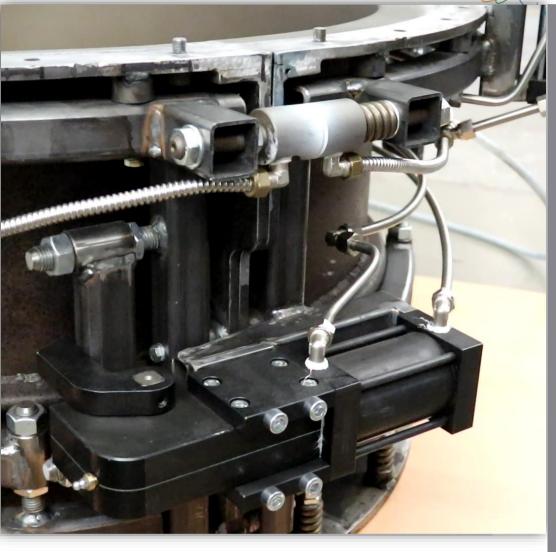
Automation of 4-piece steel mould "chamber"



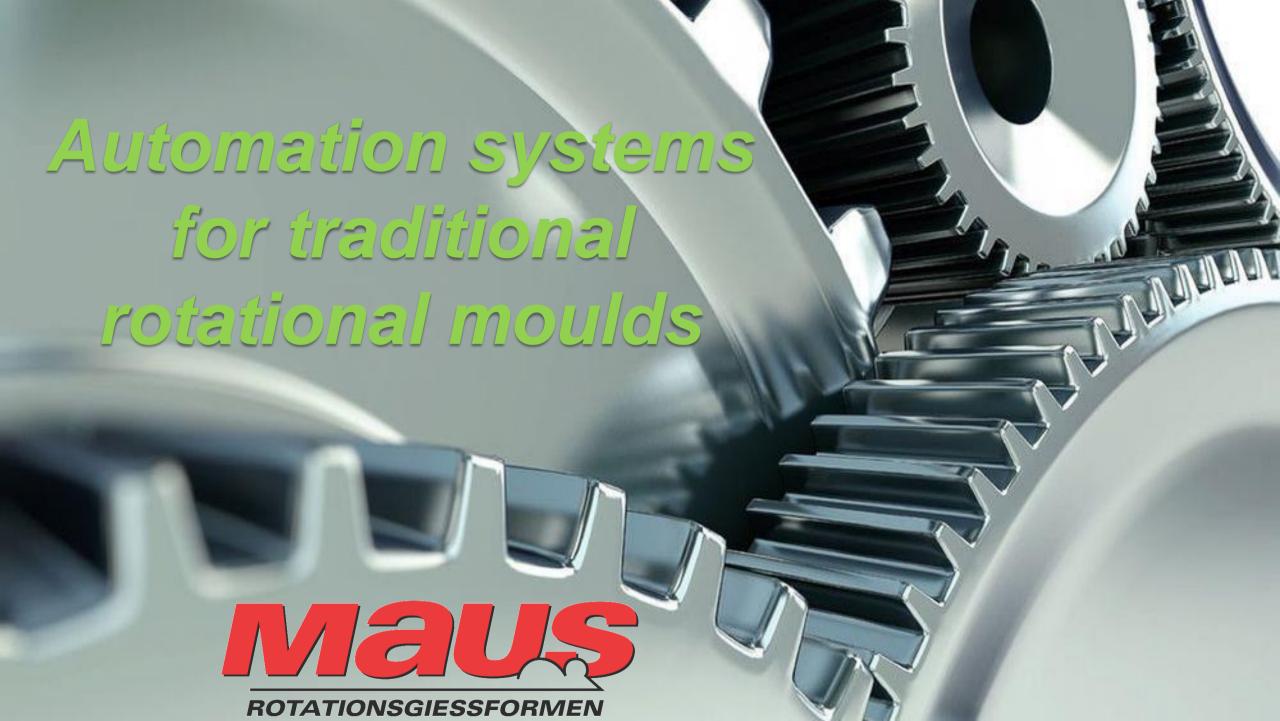


Automation of 4-piece steel mould "chamber"









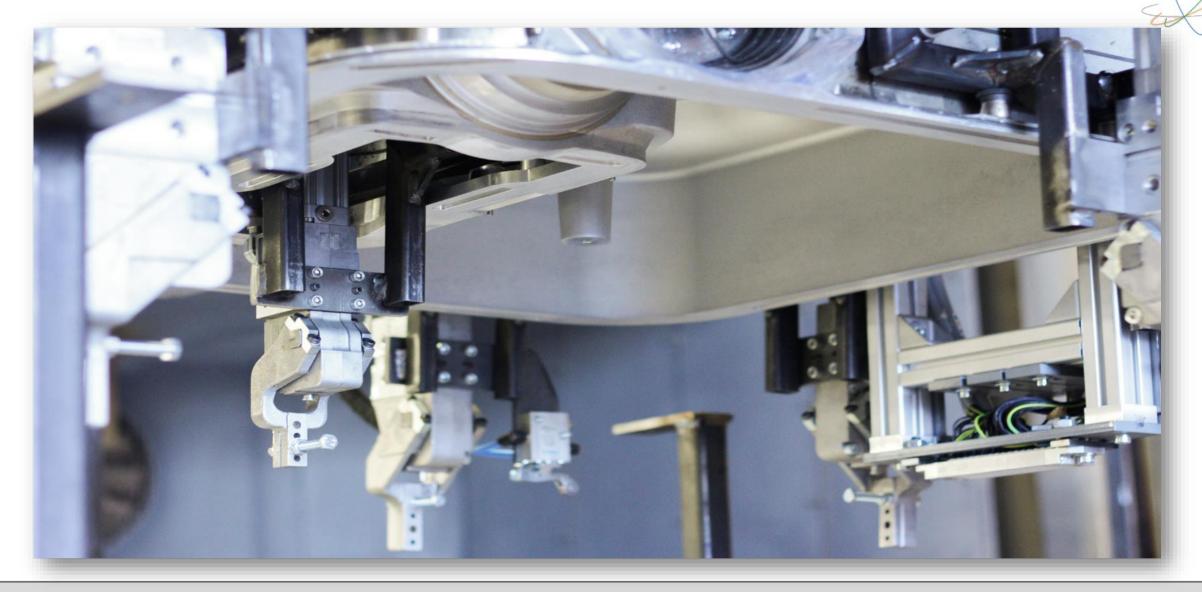
#### **Pneumatic clamps for Robomoulds**





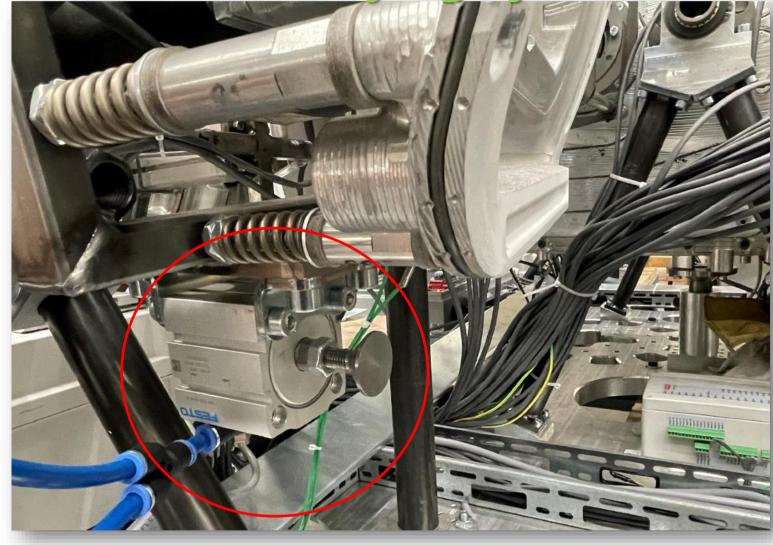
- \* "Off the shelf" clamps
- \* Different brands/models available
- \* Attractive prices
- \* Digital signals for controllability!
- \* Light weight
- \* Limited heat resistance
- \* Easy maintenance

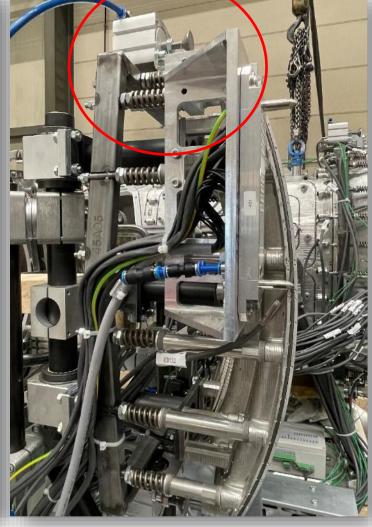






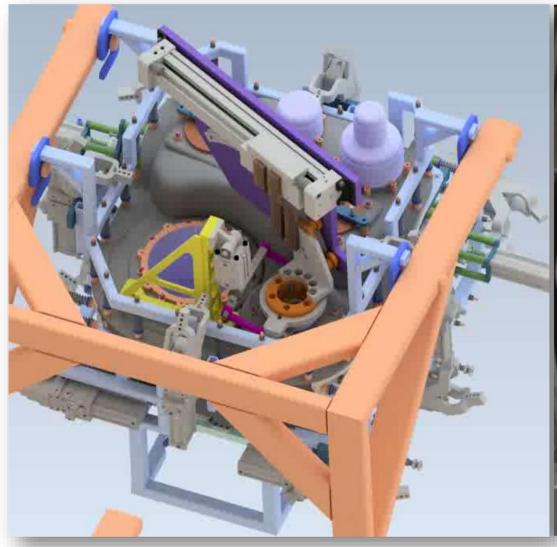
**Prying cylinders for Robomoulds** 







### **Automatic retraction for Robomould**

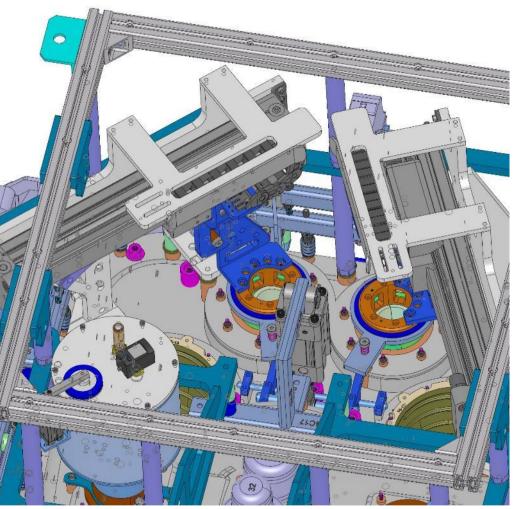






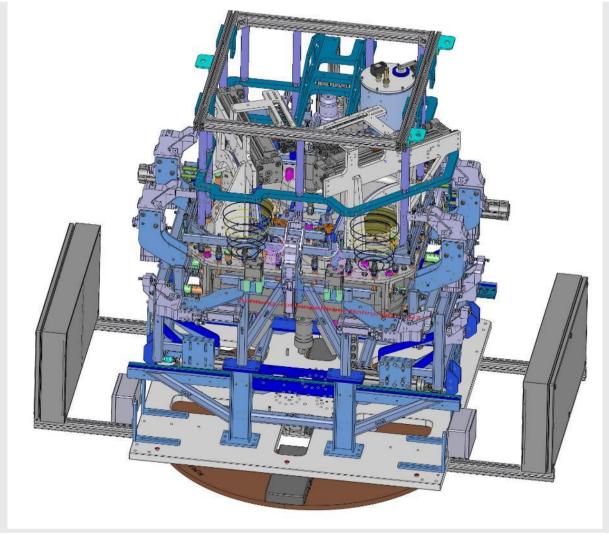
#### **Automatic retraction for Robomould**







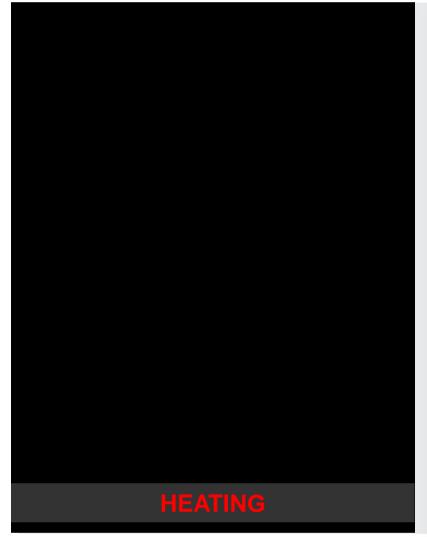
Automatic mould change







Autonomous Robomould Project 🛫

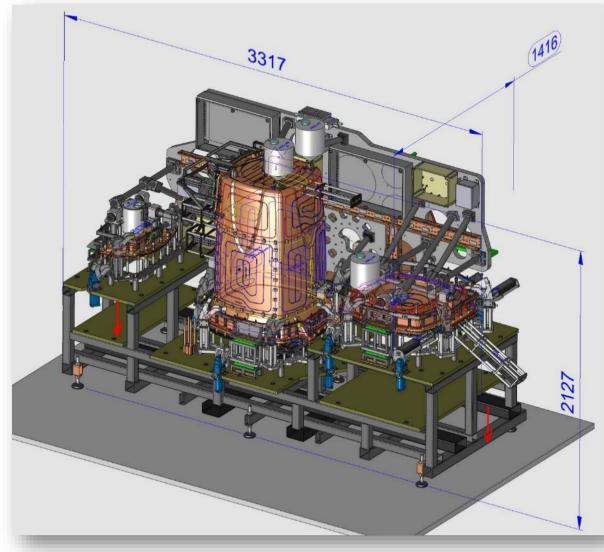








**Autonomous Robomould Project** 



Highest Quality









Intelligent Garderobe for opening/demoulding







OPENING / DEMOULDING







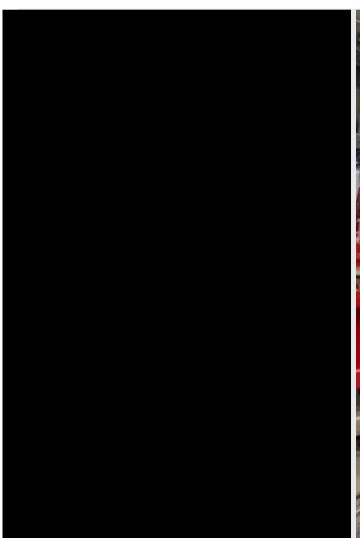
"Multibox" for Filling, Venting, Control ... >



- \* Non insulated hopper/reservoir
- \* Inside C40 coated
- \* Electrical pressure control
- \* Safety valve exits
- \* Active venting (pressurization)
- \* Built-in Thermocouple for PIAT
- Easy maintenance



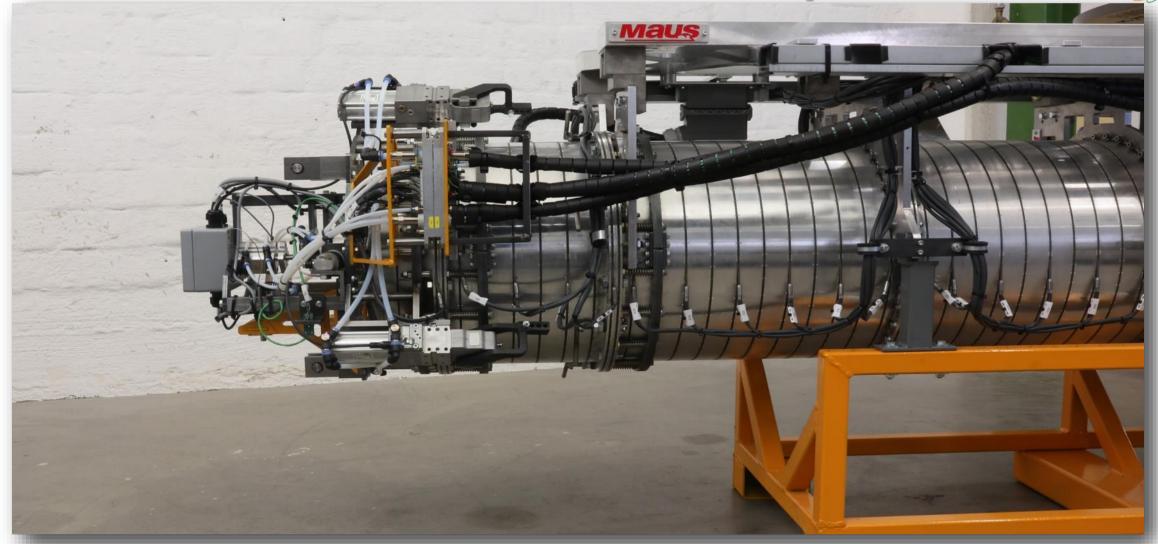
**CLOSING / FILLING** 







Combination-Mould with and w/o extension <





Fully automated production of Hydrogen Lines





