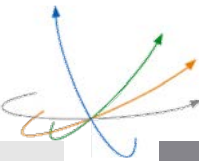


A close-up, high-contrast photograph of several interlocking metal gears. The gears are made of a polished, reflective material, likely steel, and their teeth are sharply defined. The lighting creates bright highlights on the edges of the teeth and deep shadows in the gaps between them, emphasizing the mechanical nature of the scene. The background is blurred, focusing attention on the intricate details of the gear assembly.

Automation concepts for Conventional and Robomolds

Maus
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History & Development



Founding in **1925** as pattern making business

Since **1962** making of rotational moulds

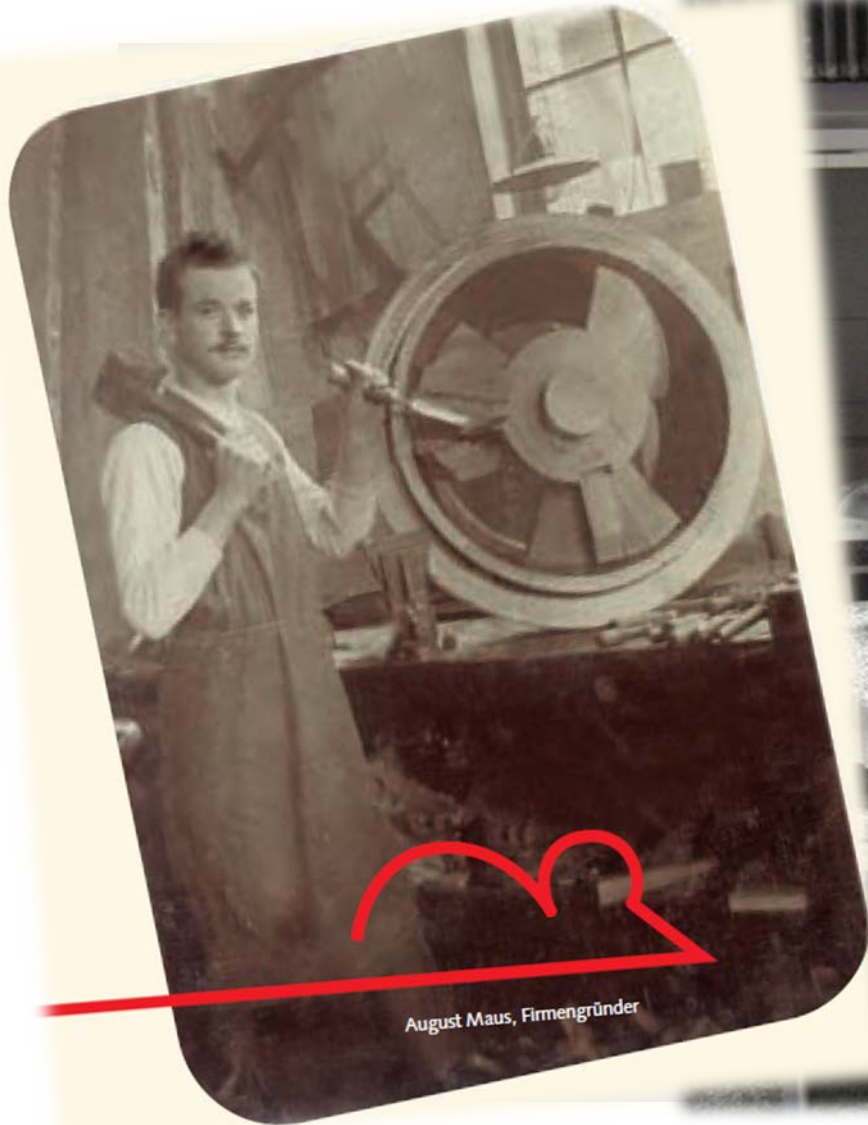
1987 instalment of in-house foundry for Kelch-Cast

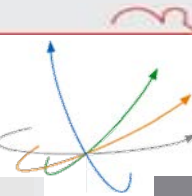
Starting in **1998** invest in CAD/CAM & CNC technology

2000 development and introduction of BMC - coatings

Since **2007** development of automation concepts

2017 introduction of electrical heated Robomoulds





Range of Services

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

**CNC- & Cast Aluminum (Kelch/Fast-Cast™)
& Fabricated Sheetmetal Rotational Molds
Conventional or Electrical Robomolds**

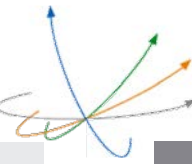
Permanent Coatings * Mold Accessories
Automation * Performance Solutions
Modifications * Repairs * Refurbishments



Material weighing & Material loading

Maus
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MAUS Material Dosing Towers

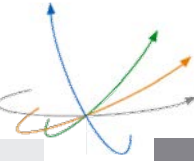


- ✓ For usage with Big Bags, with integrated hoist system
- ✓ High accuracy weighing unit with only +/- 5 Gram
- ✓ 16 programmable buttons + 1 button for continuous feed
- ✓ Coarse and fine dosing by auger
- ✓ Fast feeding rate

MAUS Material Dosing Towers

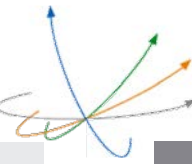


MAUS Drop-Boxes



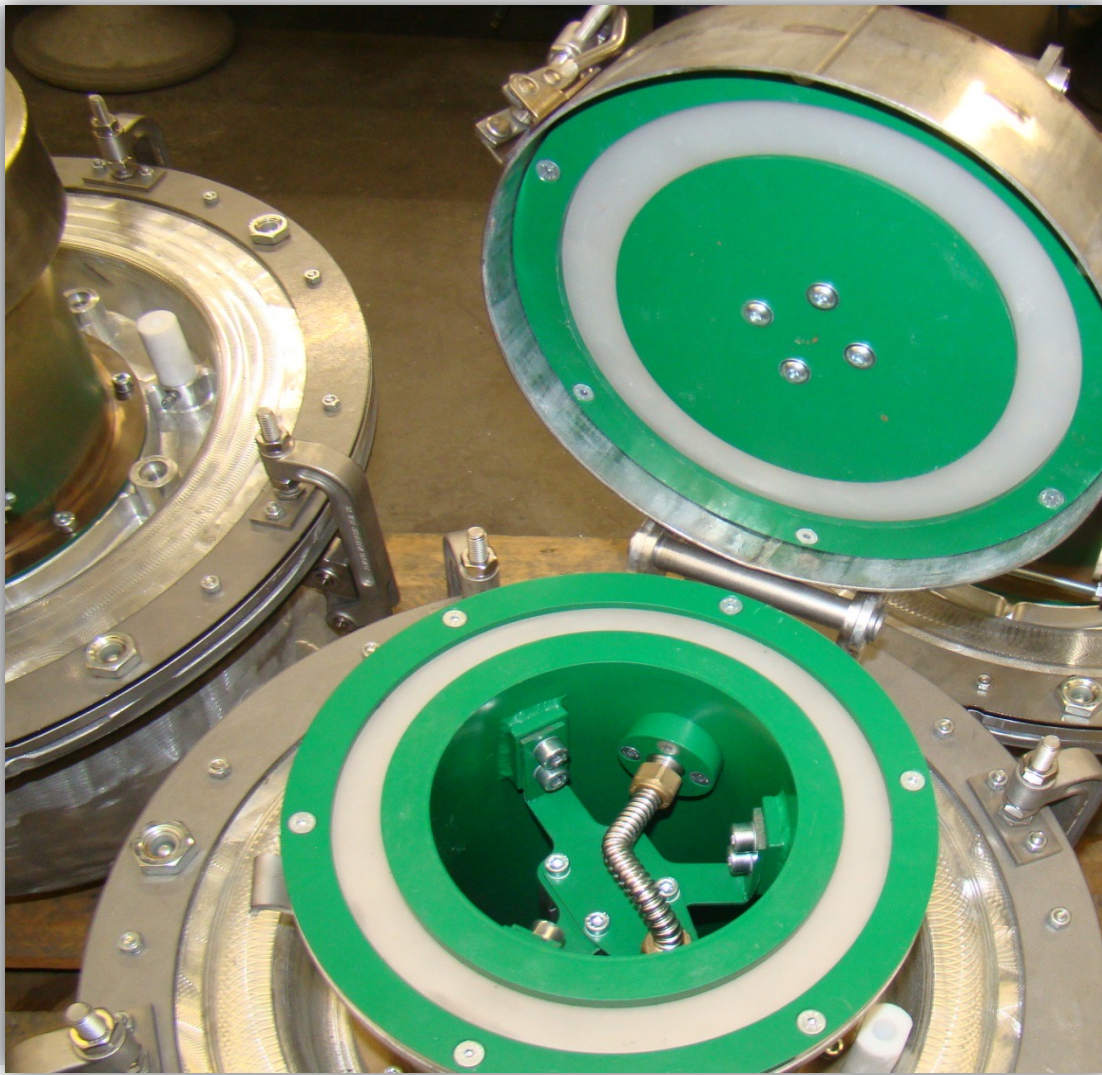
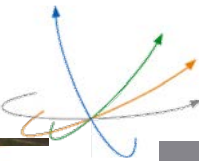
- ... specially insulated hollow stainless steel hopper and lid
- ... interface to mould with PTFE sleeve
- ... Maus-Hole plunger for opening passage in mold - for material drop
- ... Pneumatic cylinder retracts plunger, automatically retract in position

MAUS Drop-Boxes



- ... minimized thermal bridging to inside of drop box
- ... BMC-Green coated to enable easy and low friction material travel + release properties
- ... suitable for **24/7** production

„hidden“ or „sunk“ Drop-Boxes

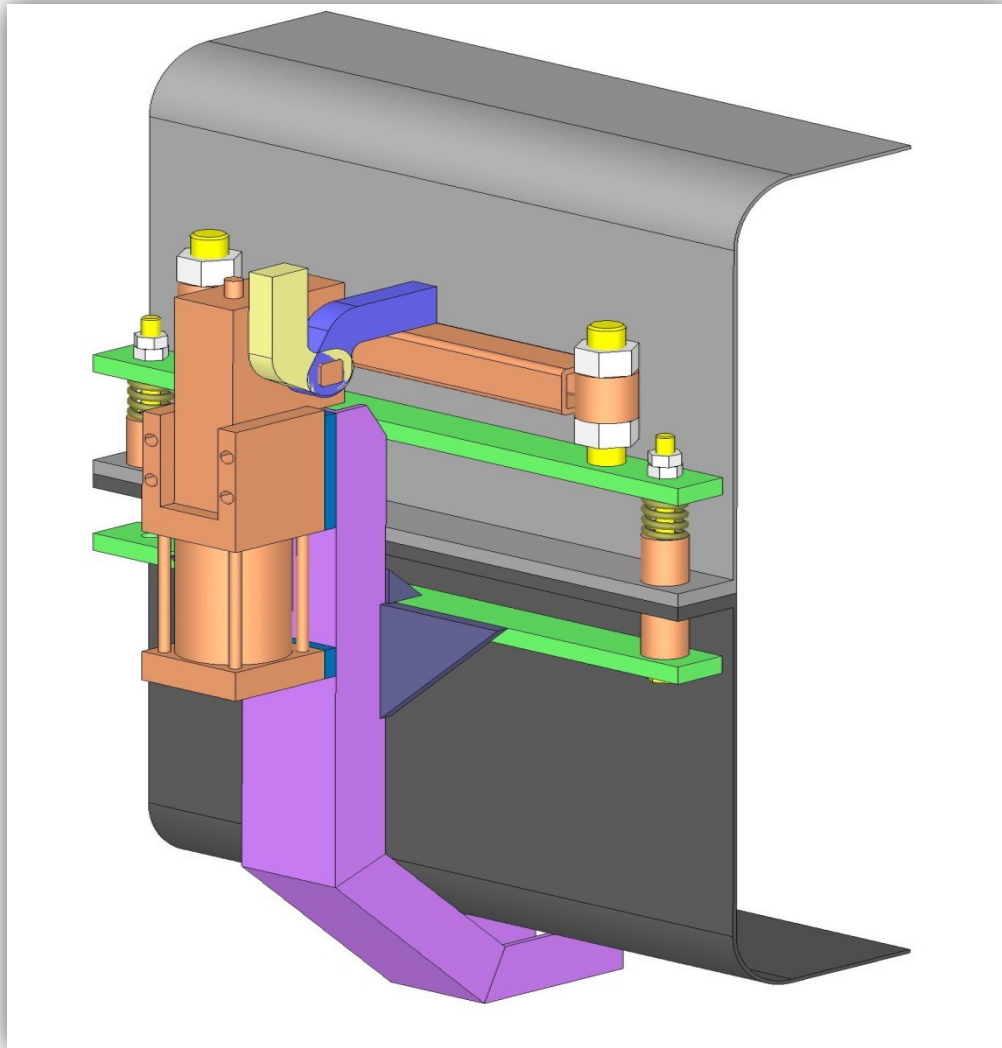
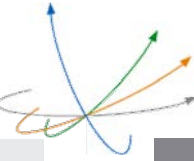


A close-up, high-contrast photograph of several interlocking metal gears. The gears are made of a polished, reflective material, likely steel, and their teeth are sharply defined. The lighting creates bright highlights on the edges of the teeth and deep shadows in the gaps between them, emphasizing the mechanical nature of the scene. The background is blurred, focusing attention on the intricate details of the gear assembly.

Mold Closing & Opening

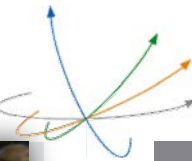
Maus
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MAUS XL pneumatic clamp

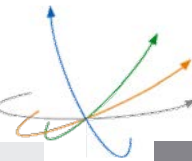


- ✓ Designed for Rotomolding
- ✓ Automatic opening/closing
- ✓ Heat resistant
- ✓ Easy visual controllability
- ✓ Pressure-less and safe clamp
(external air to open/close)
- ✓ Powerful closure (>390KG)
- ✓ Easy maintenance

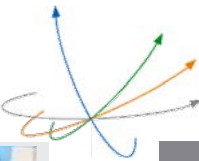
automated 1600Gal Tank



Steelmould for easy watertank

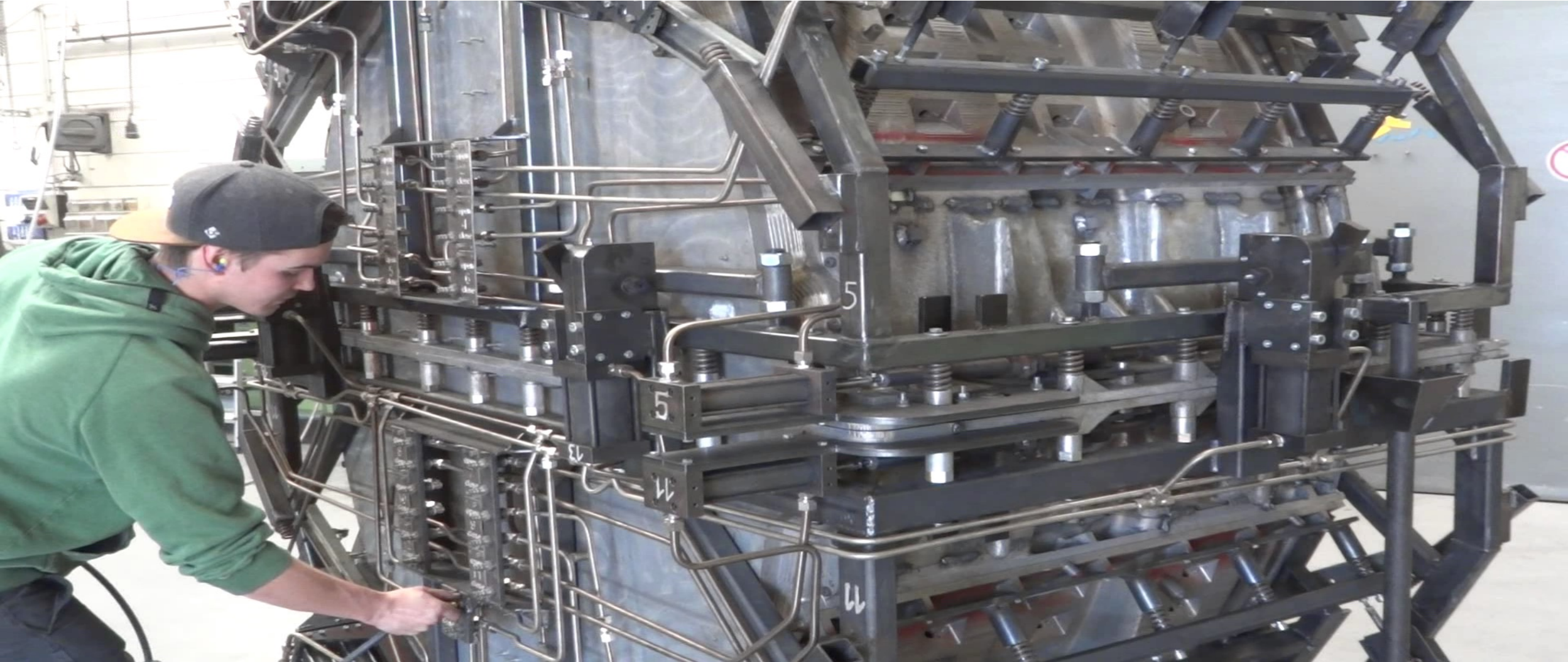


Aluminium „Excrement Tank“

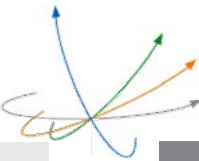




Automated Mold for Cover

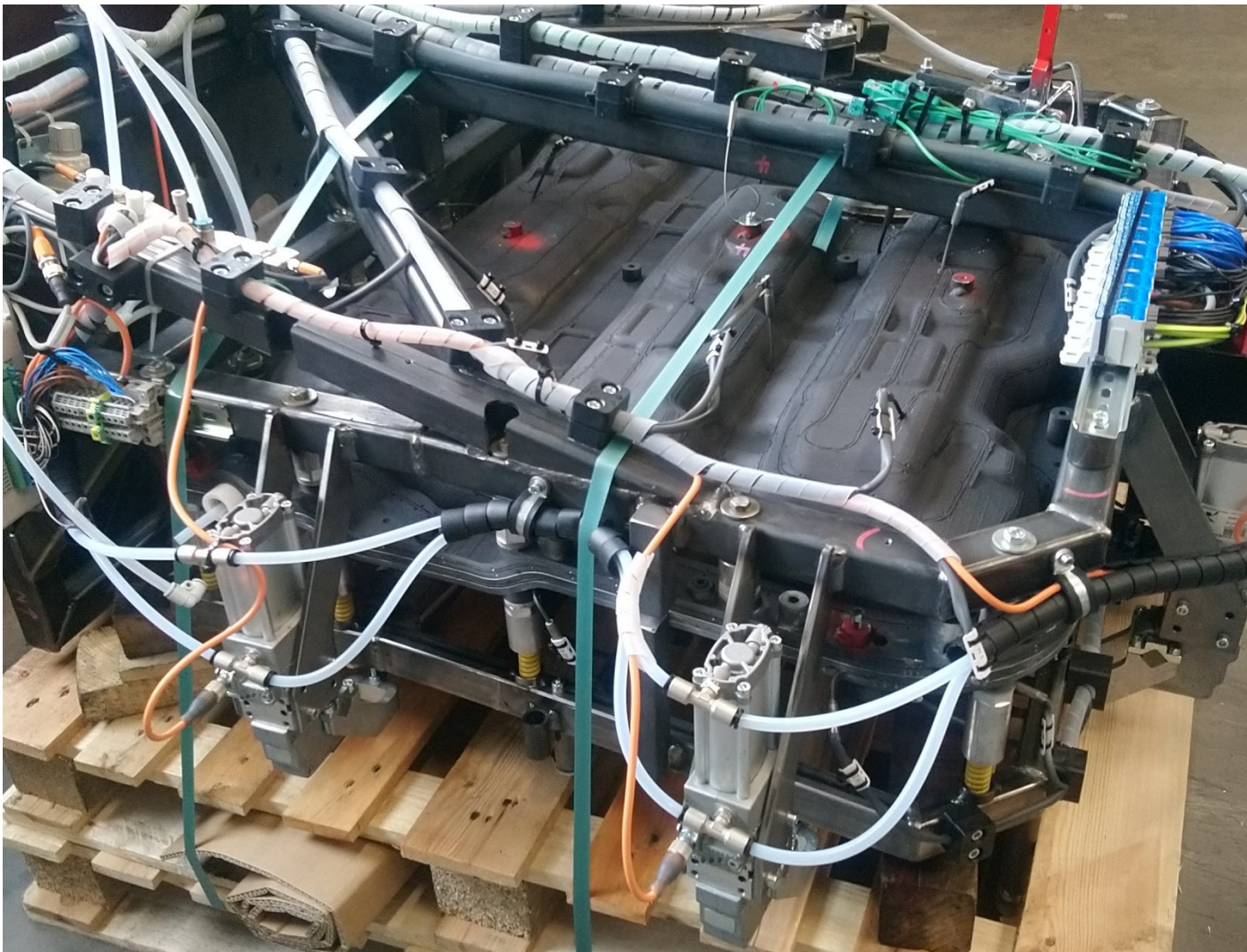
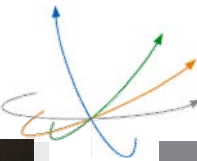


pneumatic clamps for robomolds

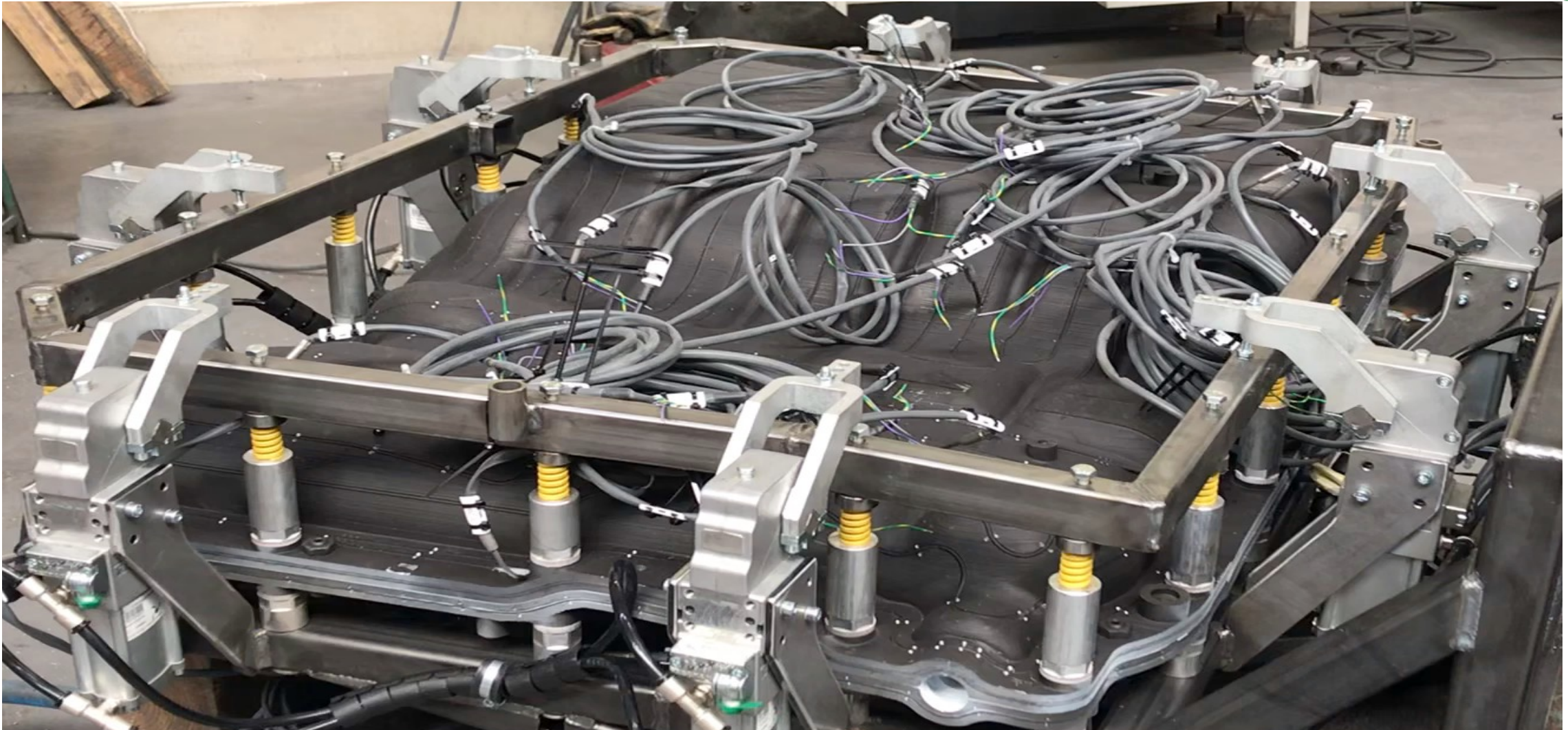
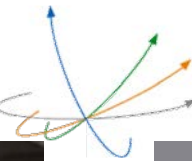


- ✓ "off the shelf" clamps
- ✓ Light weight
- ✓ Automatic opening/closing
- ✓ Limited heat resistance
- ✓ Digital controllability
- ✓ Powerful closure (>390KG)
- ✓ Easy maintenance

Pneumatic Clamps on Robomold Fuel tank



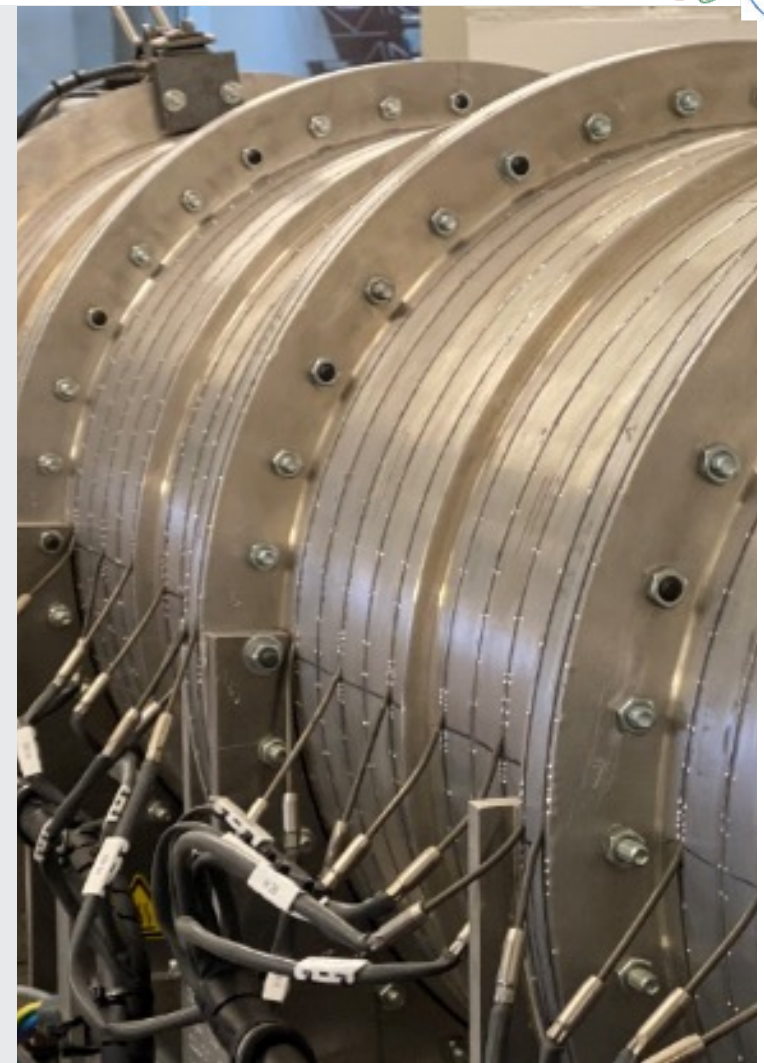
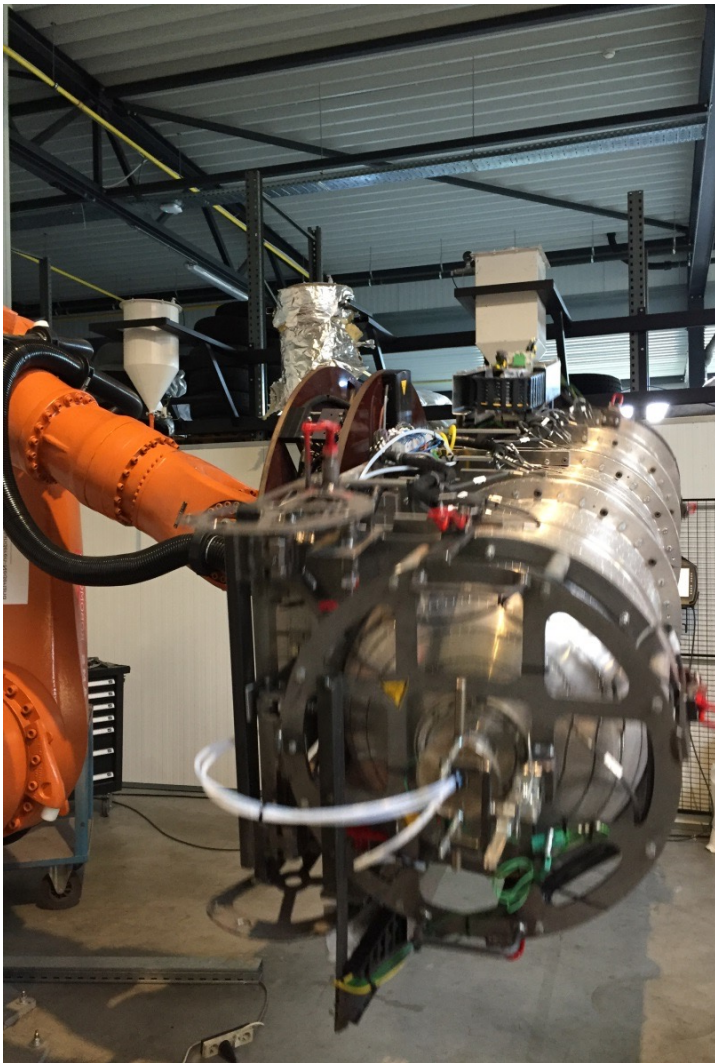
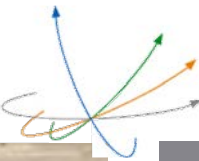
Pneumatic Clamps on Robomold Fuel tank



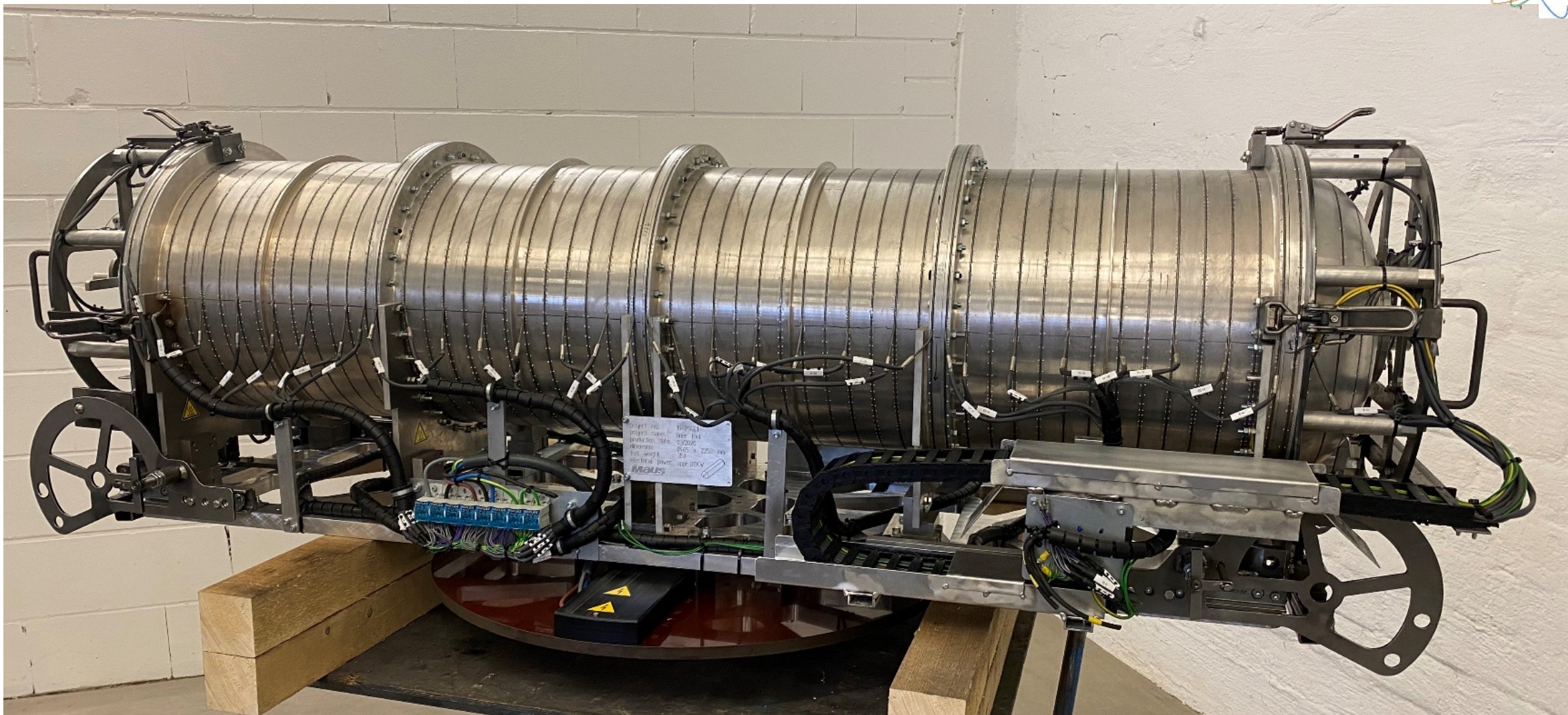
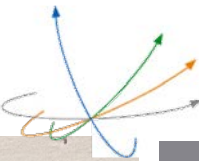
Molded Car Fuel tank



Robomoulds – semi automated liner



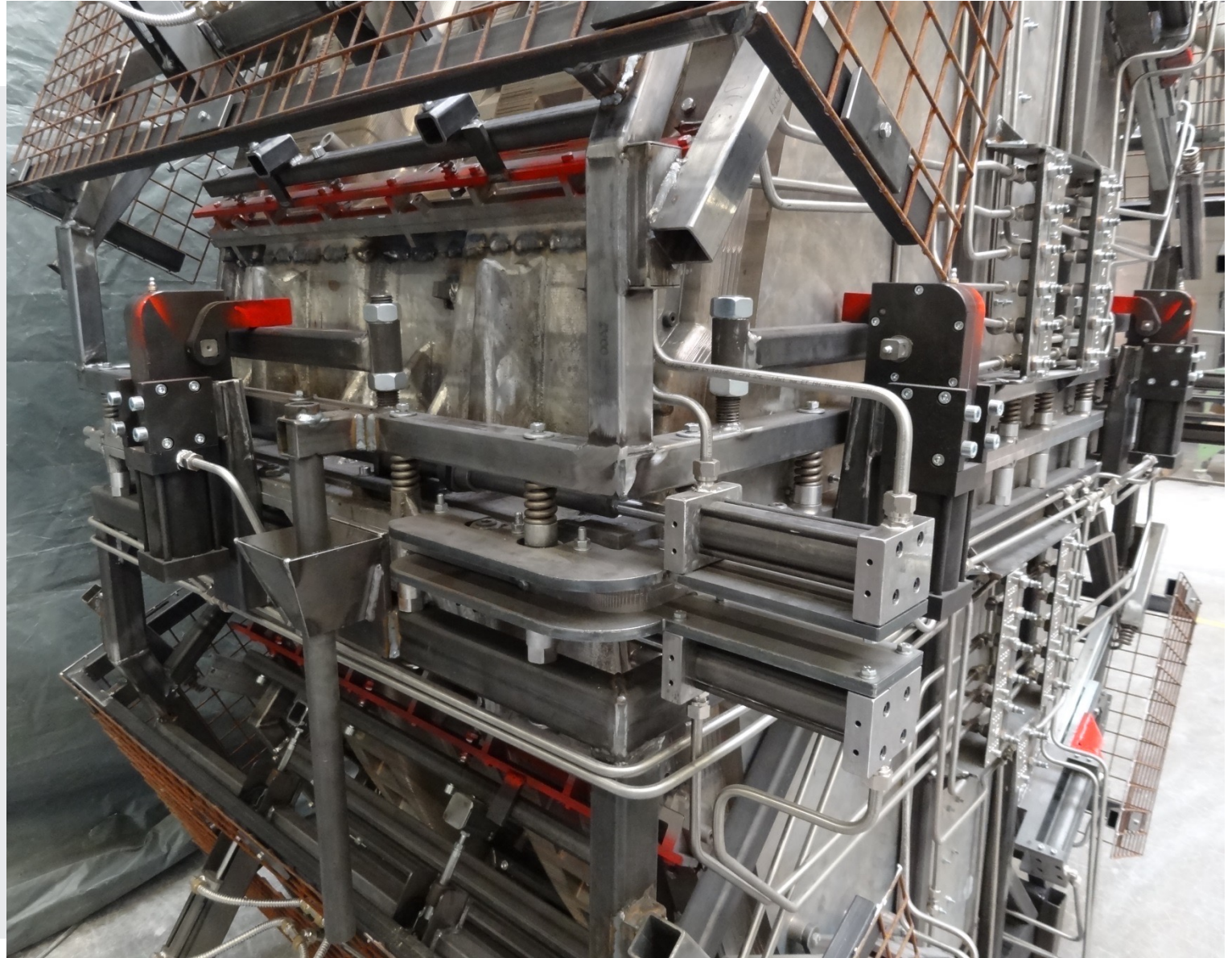
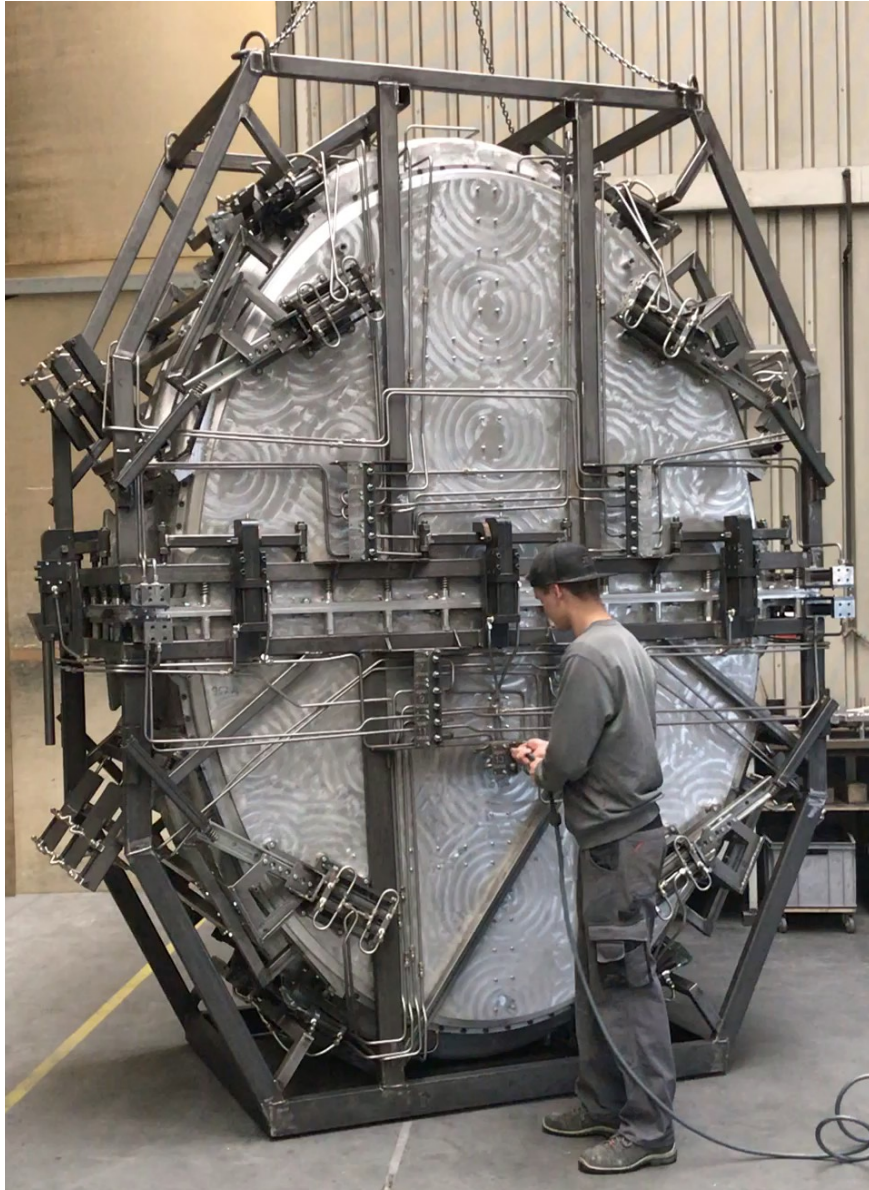
Robomoulds – semi automated liner



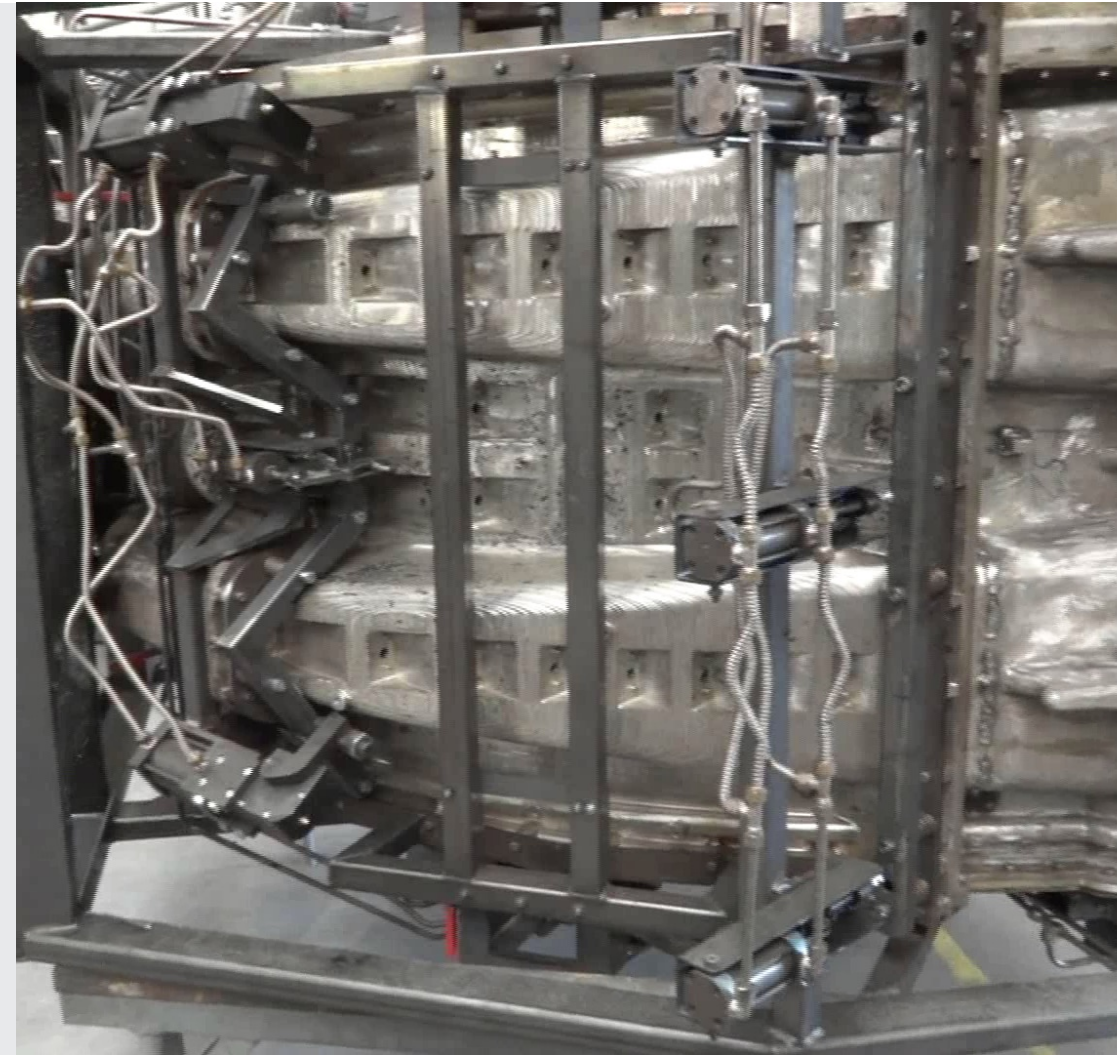
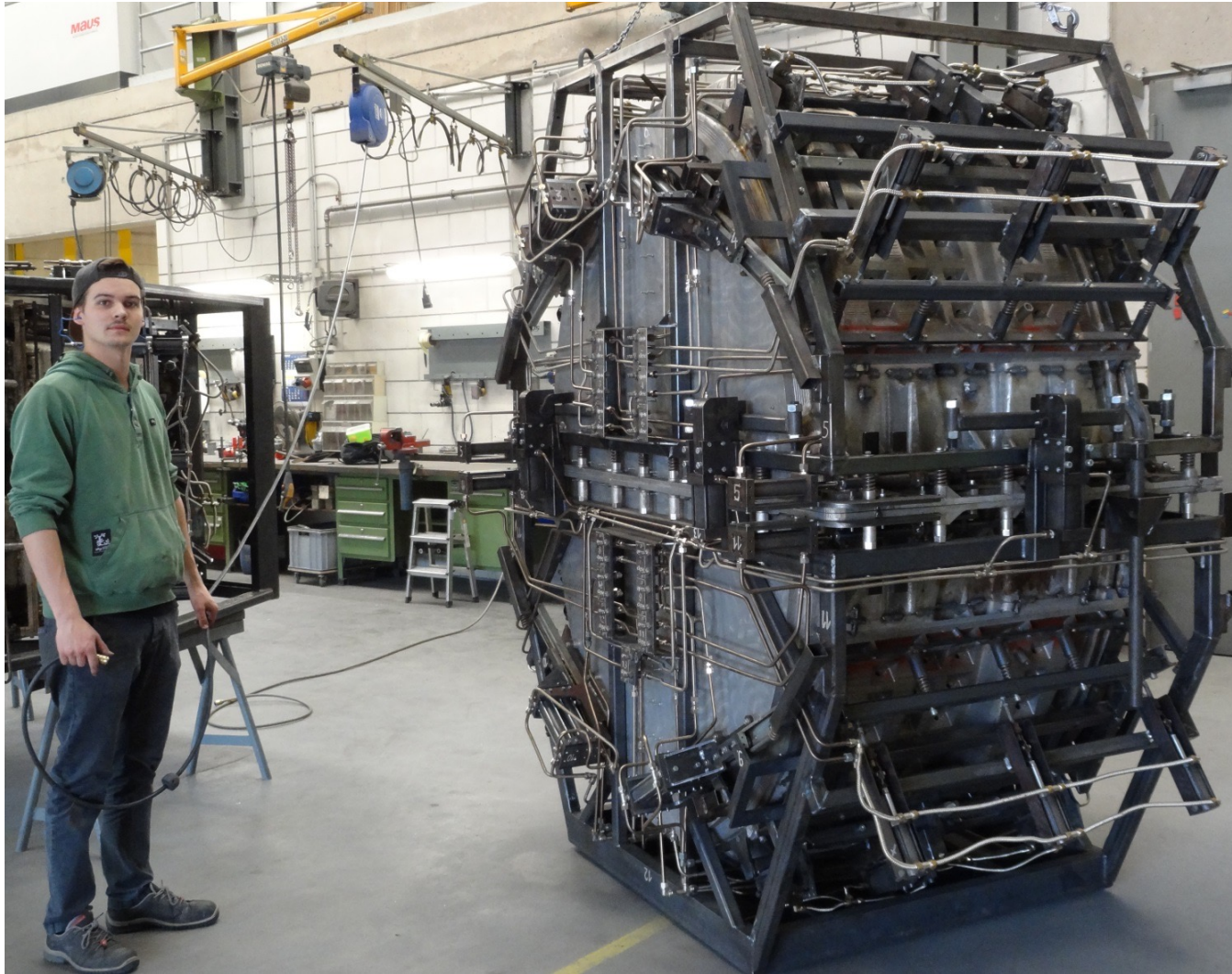
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Automatic Retraction Systems

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full automatic molds





Air - Ejectors

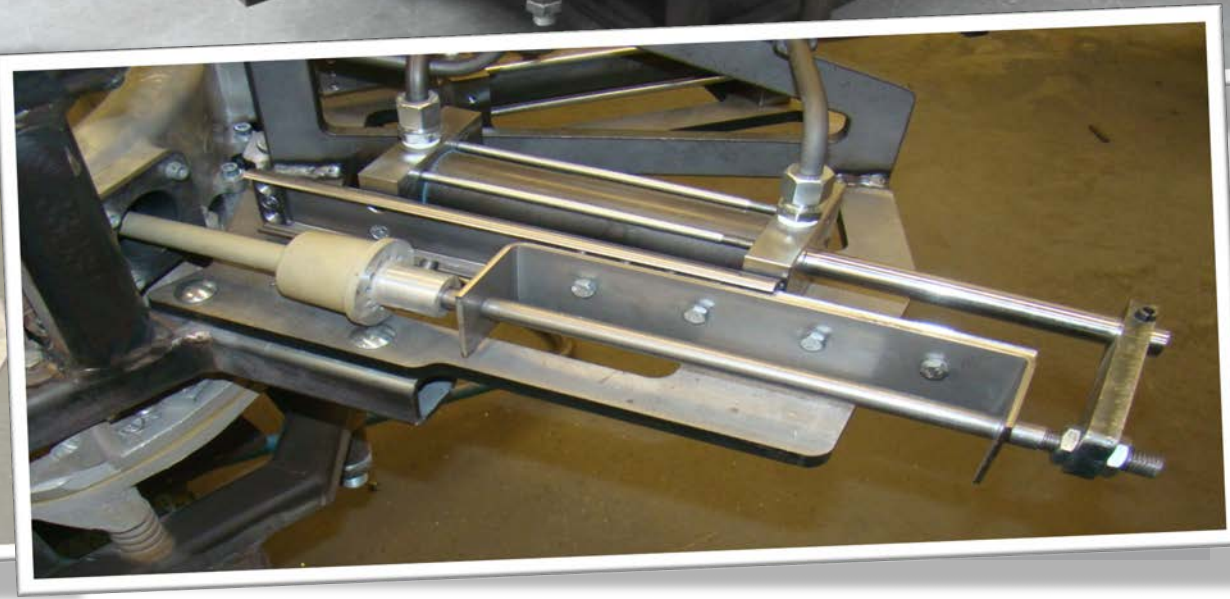
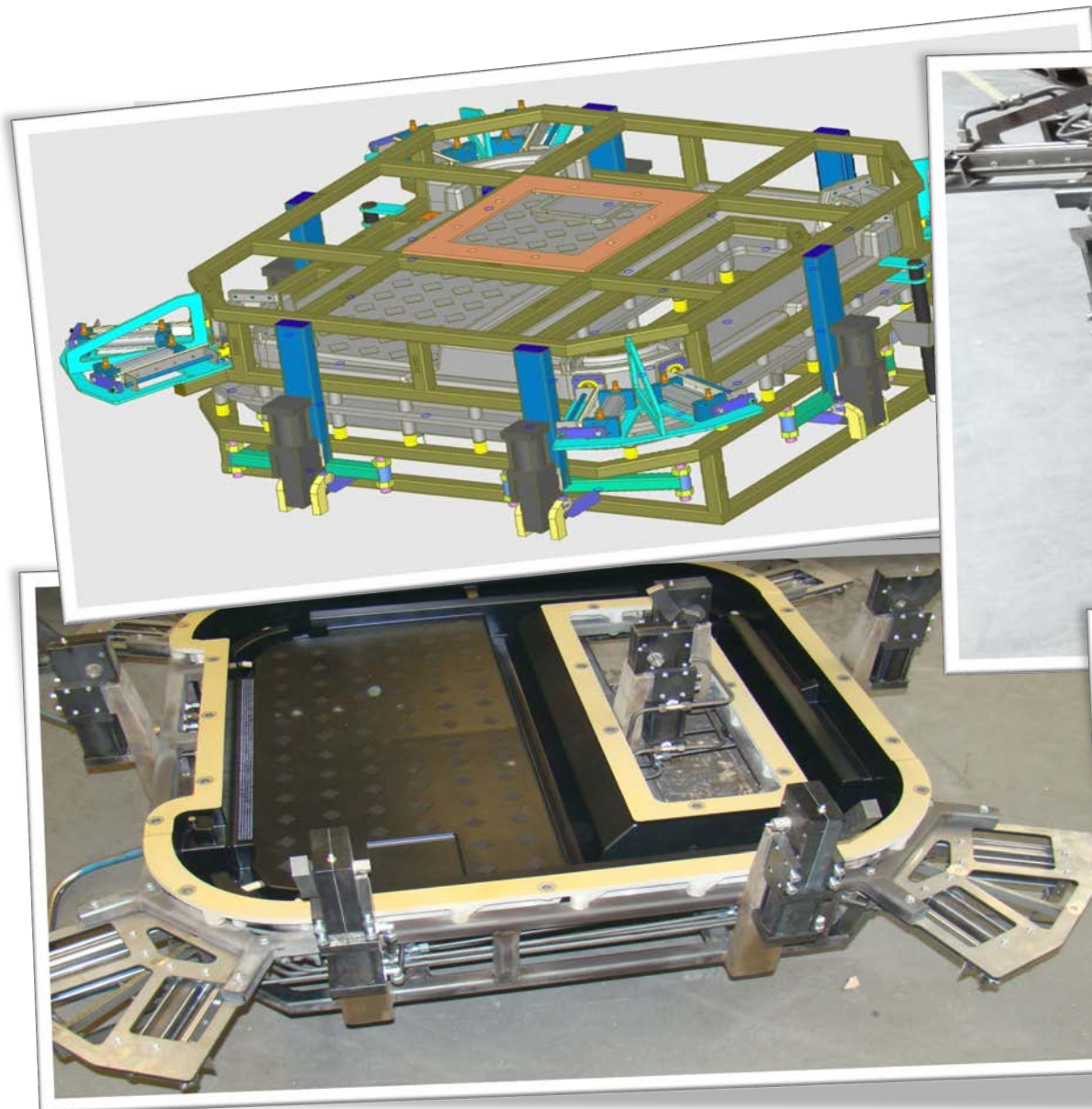




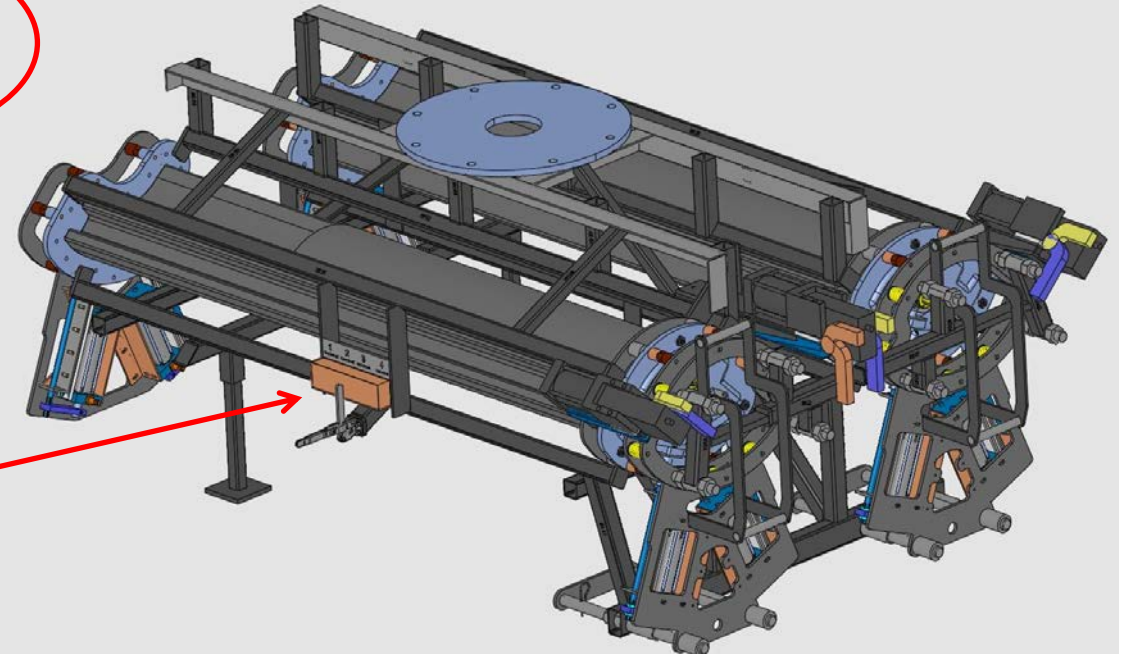
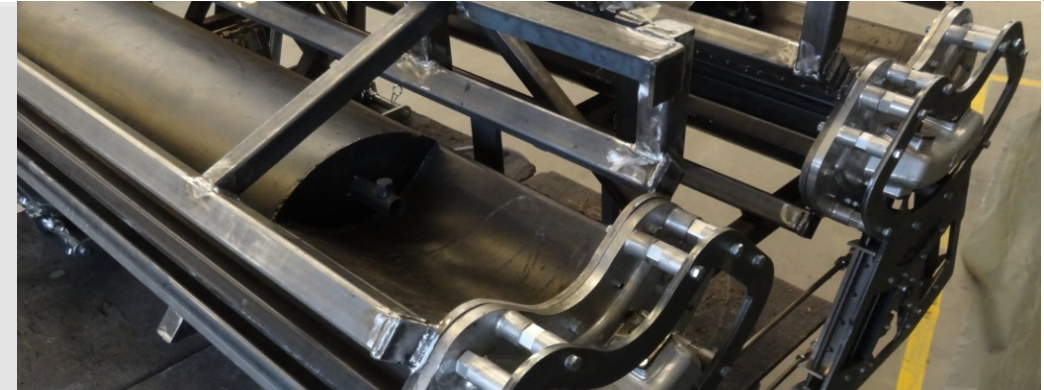
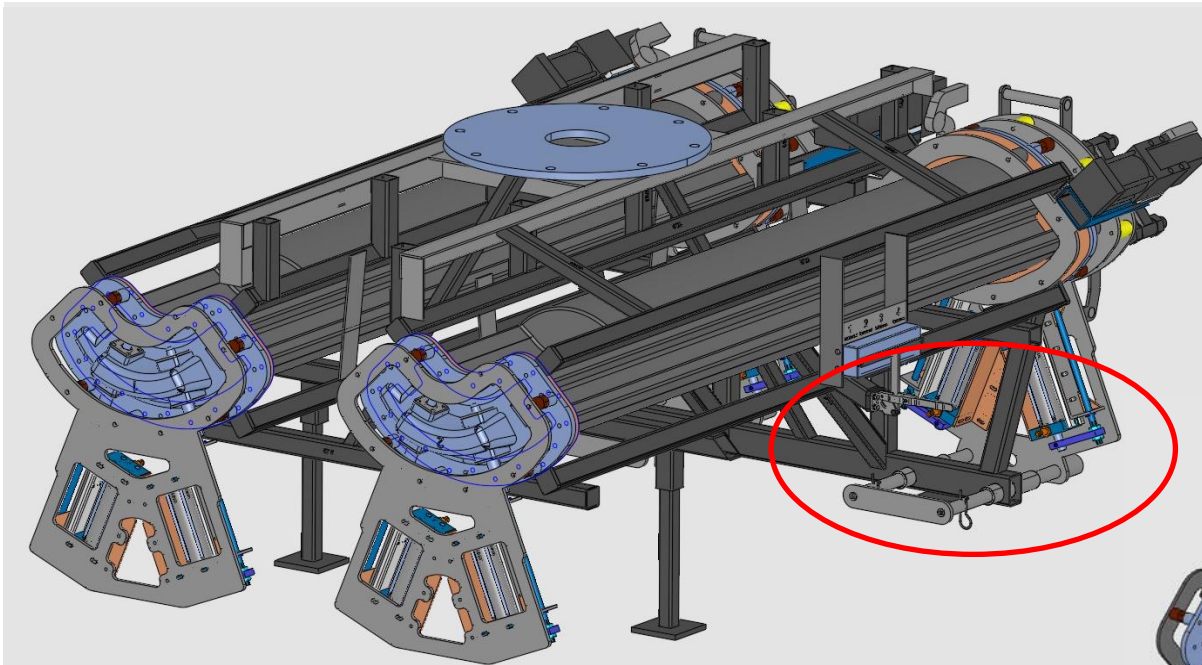
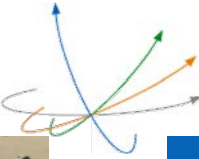
Ejectors



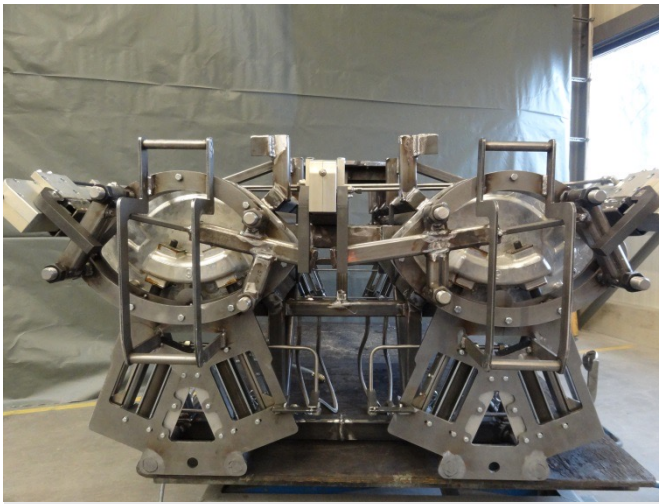
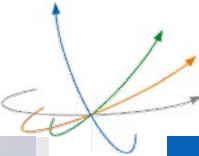




4 air couplings to operate the mould



opening side with rail + hidden hinge



THANK YOU FOR YOUR ATTENTION

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MAUS GmbH – Rotational Molds www.maus-gmbh.de

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