

ENGINEERING COMPETENCE FROM CONCEPT TO IMPLEMENTATION



INNOVATIVE COMPOSITE TOOLING & AUTOMATION FROM PROTOTYPE TO SERIES PRODUCTION



MOULDING TOOLS



JIGS & FIXTURES



AUTOMATED MANUFACTURING

YOUR CHALLENGE

In modern composite manufacturing, particularly in aerospace and automotive applications, complex fibre-reinforced components demand maximum precision, stable processes and efficient industrial scalability.

OUR SOLUTION

For over 25 years, MICADO has been developing innovative moulding tools, fixtures and automated manufacturing solutions that enable reliable forming, precise assembly, accurate inspection and flexible production of advanced composite structures.



ADVANCED MOULDING TOOLS

HIGH-PRECISION FOR ADVANCED COMPOSITE STRUCTURES

From prototype tools to series production, MICADO delivers robust, production-ready solutions that integrate seamlessly into existing manufacturing environments.

Key benefits:

- High-level engineering team
- Client-focused project management
- Reduced rework and scrap rates
- Just-in-time delivery performance
- Immediate after-sales service & maintenance

Portfolio:

- Autoclave tooling
- RTM and infusion tooling
- Press- and thermoforming tools
- Prototype and series tooling



JIGS & FIXTURES

CUSTOM TOOLS FOR REPEATABLE HOLDING, ASSEMBLY AND QUALITY CONTROL

We design precision holding, assembly and inspection fixtures that ensure accurate positioning, repeatable processes and reliable quality control, from prototype to series production.

Key benefits:

- Stable & repeatable manufacturing processes
- Fast setup
- Quality documentation to OEM standards
- Flexible adaptation to design changes

Portfolio:

- Hard tools
- Universal holding fixtures (UHF)
- Assembly and bonding fixtures
- Inspection jigs
- Welding fixtures
- Customised handling tools



AUTOMATED MANUFACTURING

SMART PROCESSES FOR EFFICIENT AND RELIABLE COMPOSITE PRODUCTION

Designed for industrial series production, our automated solutions combine process reliability with high flexibility and seamless integration into existing manufacturing environments.

Key benefits:

- Reduced cycle times & higher capacity (ROI)
- High repeatability and stable quality
- Scalable automation concepts
- Seamless line integration
- No handover losses between tooling and automation

Portfolio:

- Automated bonding cells
- Robotic handling and assembly systems
- Integrated inspection and process cells
- Automated sanding cells



REFERENCES

TRUSTED BY LEADING AEROSPACE, AUTOMOTIVE AND INDUSTRIAL OEMS

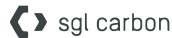
AIRBUS



BOMBARDIER



fibonic



YOUR CONTACT PERSONS

LET'S DISCUSS YOUR COMPOSITE PRODUCTION CHALLENGE



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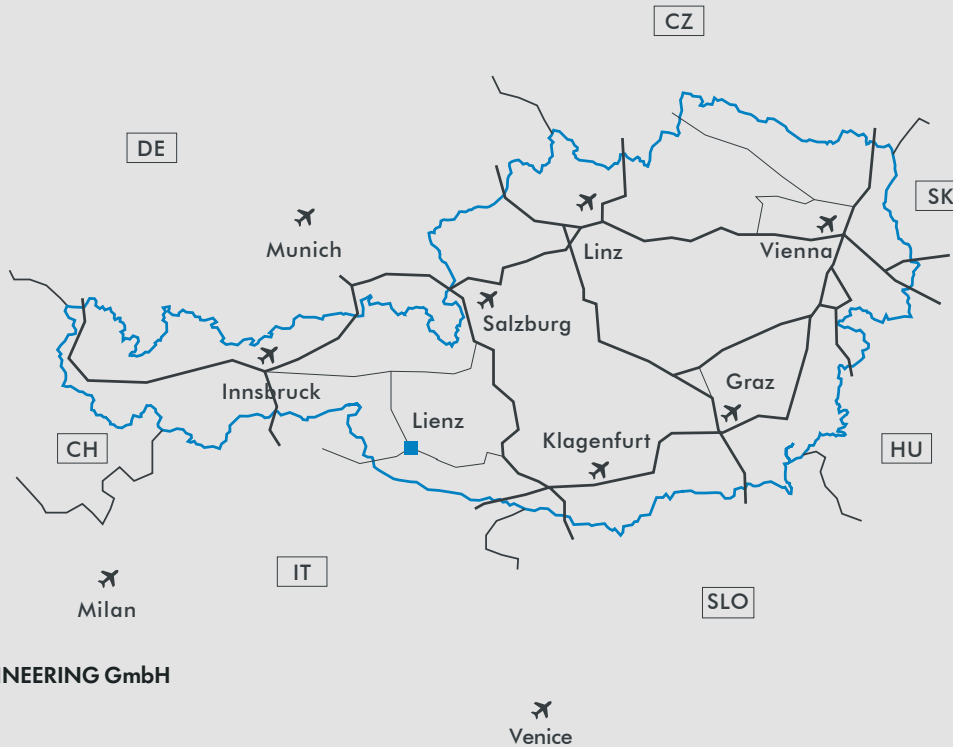
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