

MECHANICAL JOINING PLATFORM



High speed nailing



Flow drill screwing



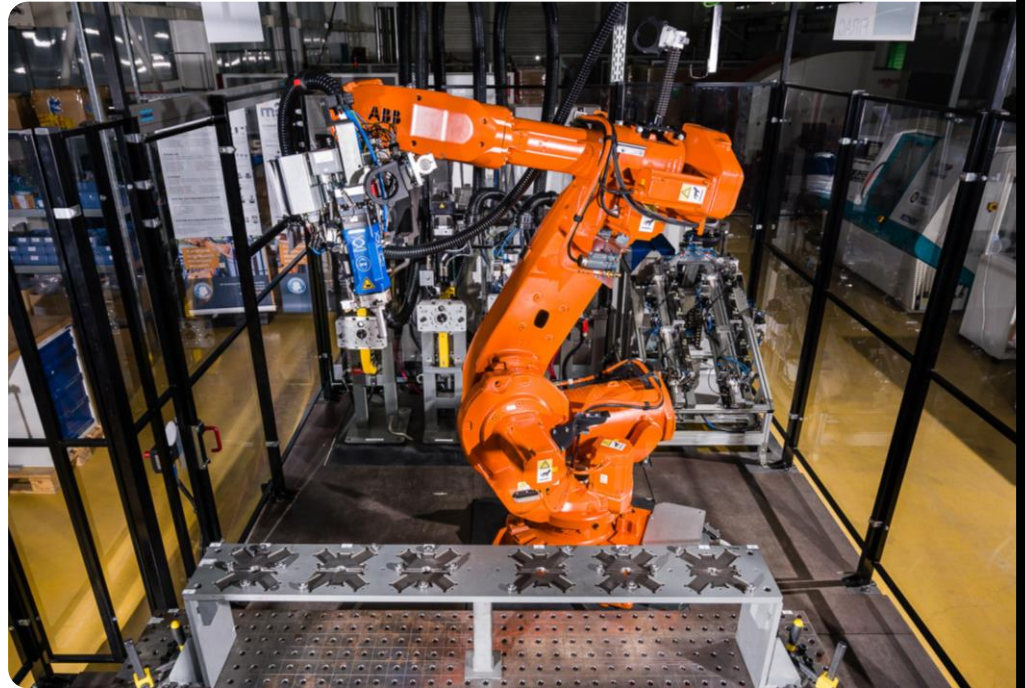
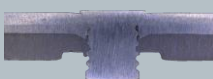
Clinching



Hollow self pierce riveting



Solid punch riveting



JOINING SYSTEMS

RIVTAC Nailing system [BÖLLHOFF]

- Automated pneumatic setting tool with feeding station and process monitoring
- Compatible with Böllhoff nail references

RSF Screwing system [WEBER]

- Max. spindle rate 5000 rpm at 15 Nm
- Max. vertical force of 1500 N

Clinching Tong [TOXI]

- Electrical cylinder 80 kN - EPMR 100
- C-frame size 200 mm

Riveting Tong [TOXI]

- Self piercing rivets
- Solid punch rivets
- Pneumohydraulic cylinder 80kN - RZKW 08
- C-frame size 250 mm

PLATFORM SUPPORT EQUIPMENTS

6 axis ABB Robot IRB 6640/235-2550

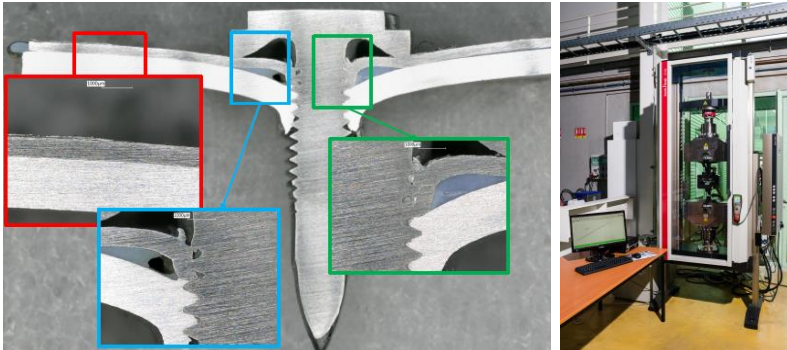
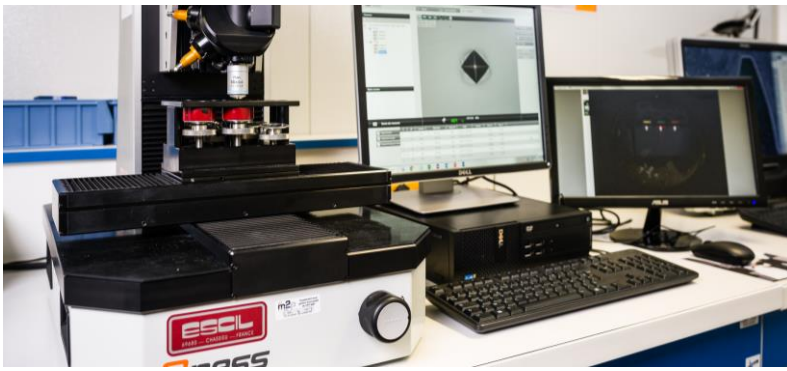
Bonding application

- Electropneumatic heating gun
- Degreasing, curing oven

Characterization - Analysis

- Universal tensile test machine Zwick Z100
- Numerical Microscope Keyence
- Hardness testing





TECHNICAL SERVICES

- Feasibility study of joining configurations
- Optimal process domain definition
- Dimensional characterization and hardness test
- Pure tensile and shear test
- Influence of additional bonding

PLATFORM AVAILABILITY

- Multi-partner research projects with public co-funding
- Research studies/services
- Training

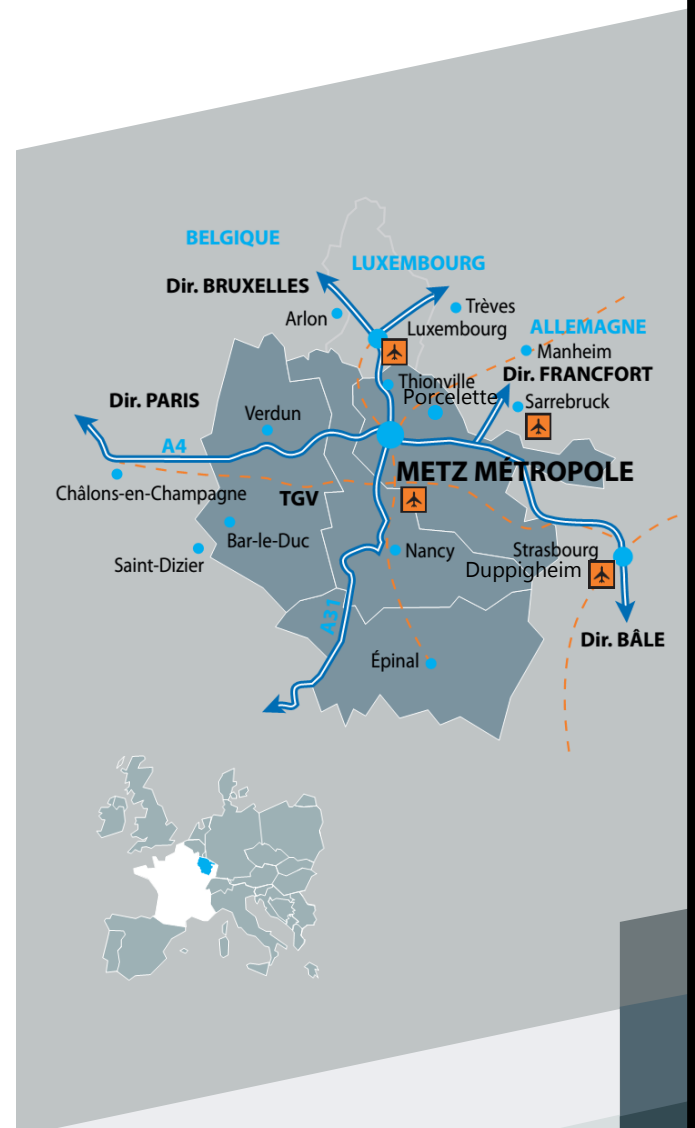
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