ActuaPlast GROUP

DESIGN AND IMPLEMENTATION
ETUDE ET INDUSTRIALISATION
OF PLASTIC PARTS
DE TOUTES PIECES PLASTIQUES
FROM PROTOTYPING TO FULL PRODUCTION
DU PROTOTYPE À LA SÉRIE

www.actuaplast.com

2D AND 3D BLOW MOULDING

2D and 3D blow moulding tools

> Co-development of your products

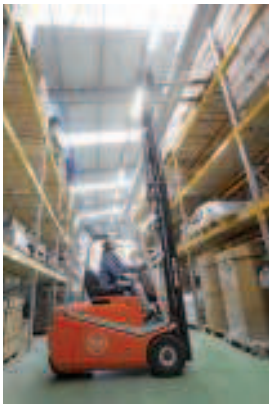
> Design and production of tools

> Extrusion blow moulding in different types of plastics.

>>> 2D and 3D extrusion blow moulding by suction

>>> Tooling workshop

>>> 3D blow moulding



>>> Large storage capacity

>>> High temperature head for technical material (glass fiber reinforced)

>>> 2D blow moulding

Crédit photos : Olivier Bihannic
www.gedezailes.com

CAD CAM DESIGN

>>> Design office

Design

> **Search for innovative solutions**

> **Simultaneous engineering**

Tool design

> CAD study

- Recovery of all CAD data
- Methodologies specific to mould trades
- Advanced mould design and manufacturing functions.

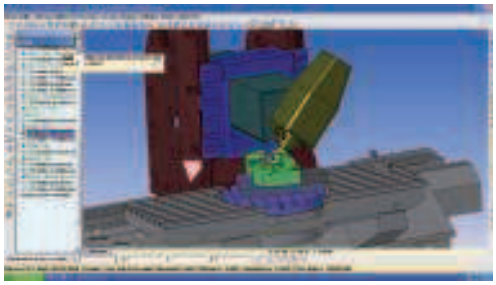
> Rheology

- Analysis and simulation of polymer flow inside the mould
- Optimization of cycle times and production waste.

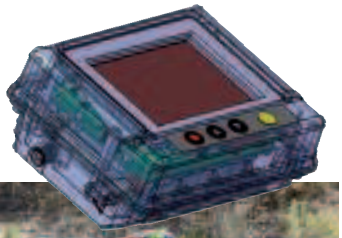
> CAM programming

- Programming of tool paths for the machining of EDM electrodes and dies.

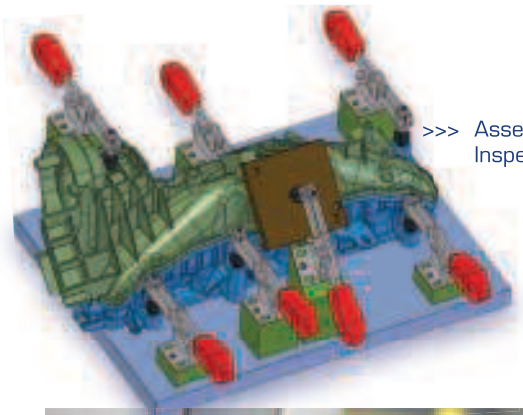
>>> 5 axis high speed machining center



>>> Programmation



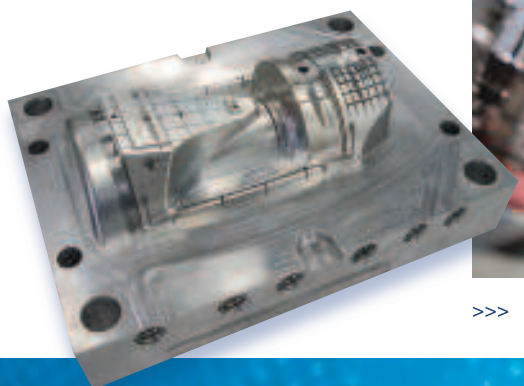
>>> Design and toolings manufacturing



>>> Assembly
Inspection and test systems

>>> Tooling workshop

>>> Metrology



Crédit photos : Olivier B
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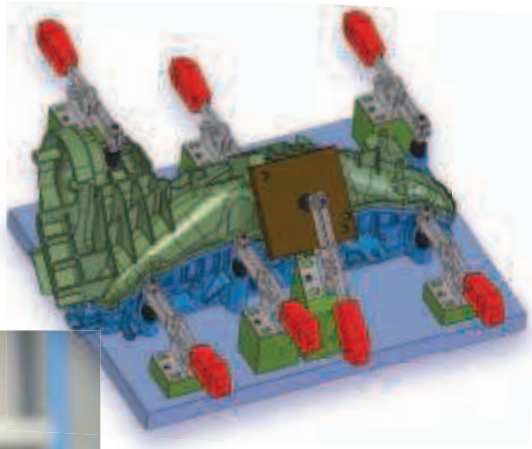
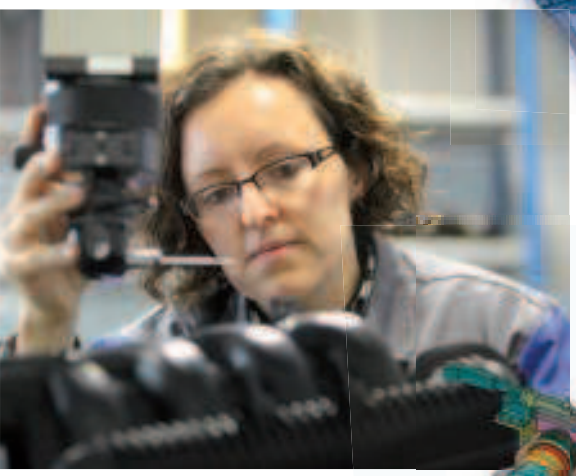
Complete solutions for plastic welding and assembly

> Welding of brackets, resonators, tubes, click connectors, sensor supports and assembly of metal inserts.

>>> Vibration welding

>>> Hot plate welding





>>> Metrology

>>> Assembly, inspection, and test systems

>>> Spin welding

>>> Rotation pipe cutting machine

>>> Hot air welding

INJECTION

Design and production of injection moulds

'The design and production of aluminium and steel moulds in order to obtain plastic parts. The capacity of these tools ranges from several thousand parts for aluminium tools to several hundreds of thousands for steel moulds.

Injection

> Transformation by injection of all thermoplastic materials

> Small and medium series

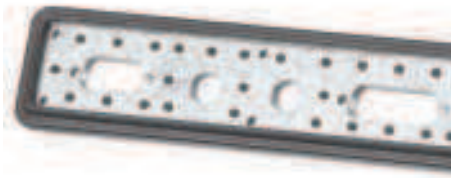
> Assembly of sub-assemblies or complete functions

> Design and production of assembly and control facilities.

>>> Quality control

>>> Injection presses from 40 to 610 tons

>>> Marking decorating



>>> Overmoulded steel insert

>>> Assembly of complete functions

>>> Wide range of materials and colors

>>> Painting Marking

>>> Large storage capacity

>>> Overmoulding

>>> Technical thermoplastic injected moulded parts

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RAPID PROTOTYPING - VACUUM MOULDING PU - PA

>>> High definition stereo

>>> Powder sintering

Rapid prototyping: Strategic technologies for designs validation

> Stereolithography High resolution 3D printer

Exceptionally fine details and smooth surfaces
High accuracy: 16µm layers
Multi-material technology : rigid, rubber-like, transparent, high temperature, biocompatible

Applications: functional prototypes with high thermal and mechanical resistance.

> Powder sintering

Sintered parts are manufactured by using successive layers of polyamide powder. It is a laser that scans and polymerizes the various sections of the part.

Applications: functional prototypes with high thermal and mechanical resistance.

>>> Silicone mould

Vacuum moulding · RIM

Vacuum moulding is a thermosetting resin pouring process that allows parts with mechanical characteristics approaching those of series materials to be obtained very rapidly.

- > Wide range of rigid and flexible polyurethanes
- > Duplication of parts in silicone moulds
- > Reaction injection moulding for small series
- > Paint finish and metallization.

>>> Potting - Encapsulation of electronic assembly

>>> Vacuum moulding in flexible polyurethane resin

>>> Vacuum moulding in PU resin

>>> Duplication in PA resin, glass fiber reinforced

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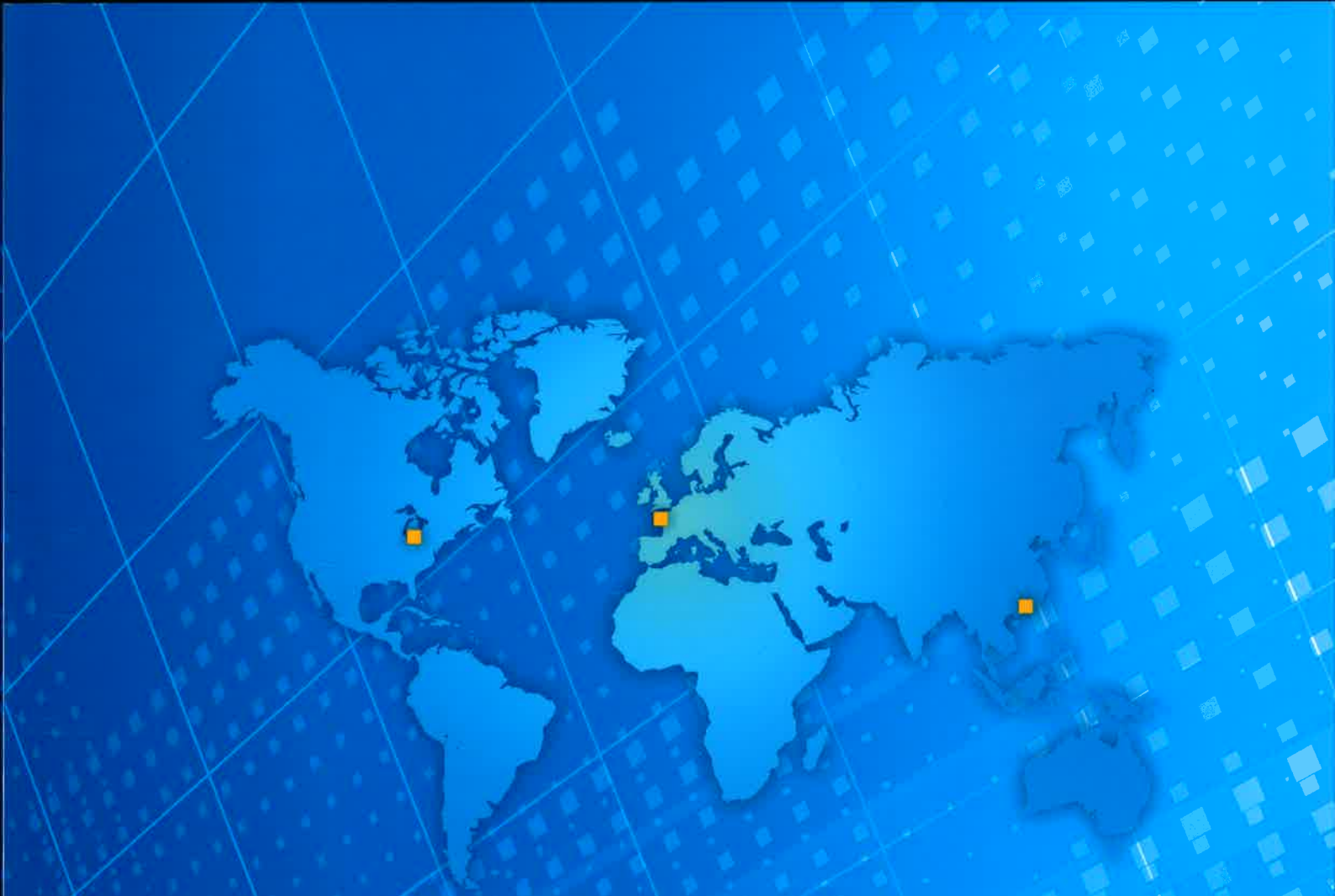

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