



GUÉRY

DESIGN, PROTOTYPING AND PRODUCTION OF INDUSTRIAL MOLDS
MANUFACTURING OF INDUSTRIAL TRAYS





OUR ACTIVITY

INDUSTRIAL MOLDS AND TRAYS

THE KEYS TO OUR SUCCESS

OUR EXPERIENCE

More than **250** prototypes created
More than **1,600** series launched
More than **500,000** plates and molds manufactured

THE DIVERSITY OF OUR MATERIALS

- R Résist +
- Aluminized sheet
- Blue sheet
- Tinplate
- Steel
- Stainless steel
- Aluminium

OUR WORKSHOP

10,000 square meters

More than 50 employees

Significant number of machines including a YASKAWA/ARO robotic welding cell

OUR PROXIMITY AND FLEXIBILITY





OUR ACTIVITY

INDUSTRIAL MOLDS AND TRAYS

OUR DETAILED EXPERIENCE

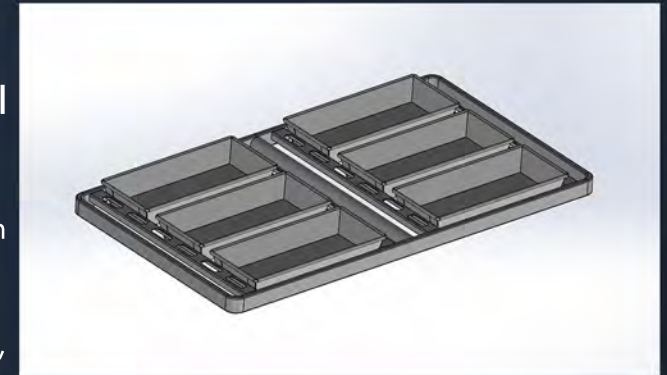
Specializing in the design and manufacture of molds, trays and plates for industrial baking.

Tailored solutions for your profession, your needs, your production constraints, and your products such as :

- Sliced bread, toast bread, whole grain bread, gluten-free bread, hamburger buns, hot dog buns, baguettes...
- Croissants, madeleines, brioche bread, and all types of pastries.

Folded or deep drawn molds, proven raw materials, mold protection belt, optimized ventilation, reduced weight: your partner Guery accompanies you!

With all projects studied, designed, and carried out, Guery takes into account all your parameters such as all elements that may be damaged due to the automation of the line.





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OUR DETAILED EXPERIENCE

We pay attention to the quality of the material (aluminized steel, sheet with applied coating, etc) as well as to the quality of the welding. We recommend to avoid to us sharp or metallic objects that could degrade the quality of the material or coating.

All the materials we use are recyclable.

We also work in collaboration with leading coating partners and can help you to define the best demolding solution.

Our goals :

A design and easy implementation that will extend the life of the molds or trays and thus ensure you a better return on investment.

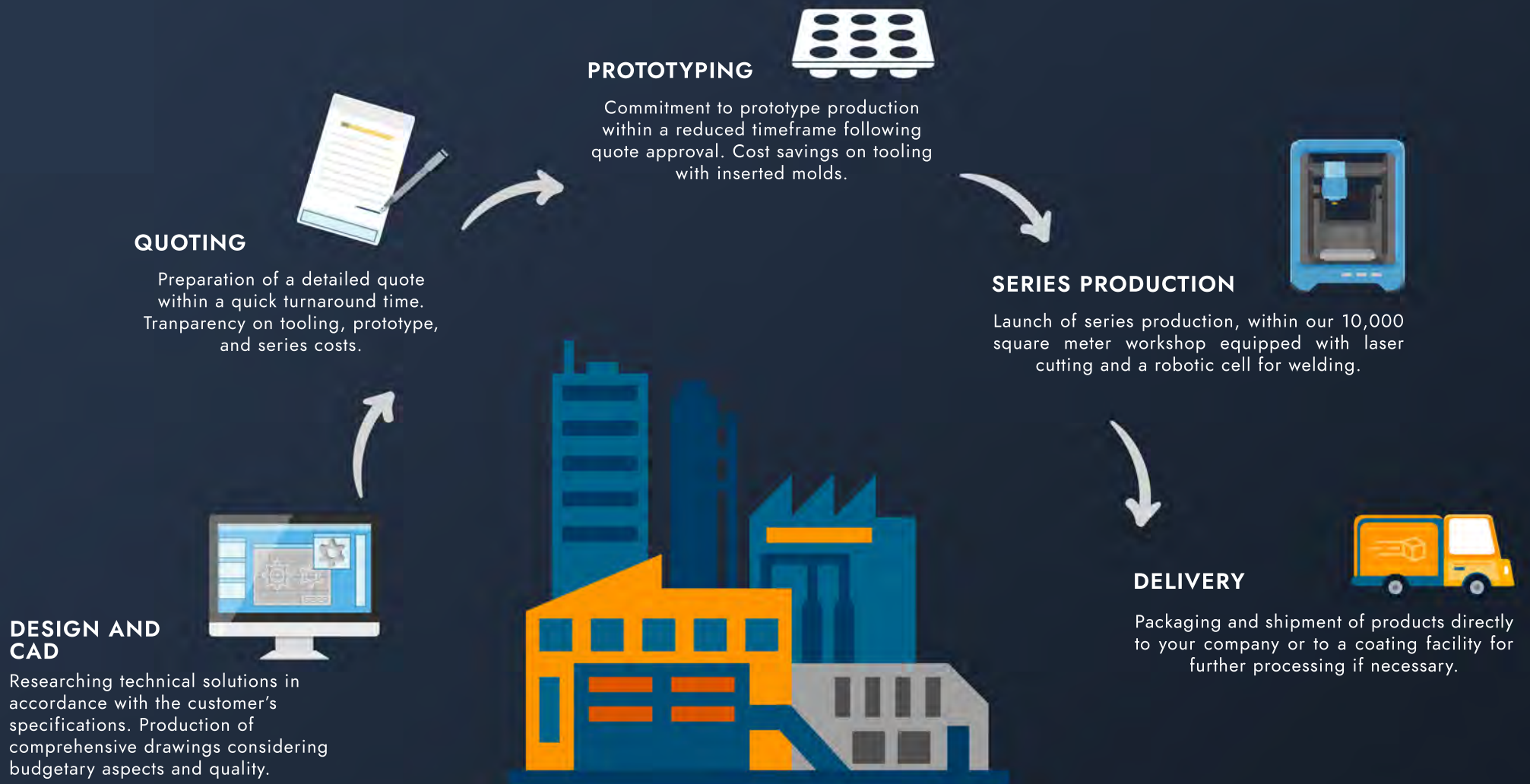




OUR ACTIVITY

INDUSTRIAL MOLDS AND TRAYS

OUR QUERY PROCESS : FROM DESIGN TO DELIVERY





OUR ACTIVITY

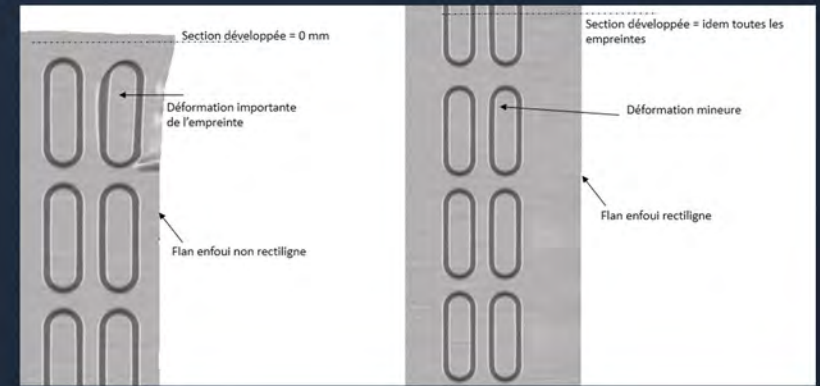
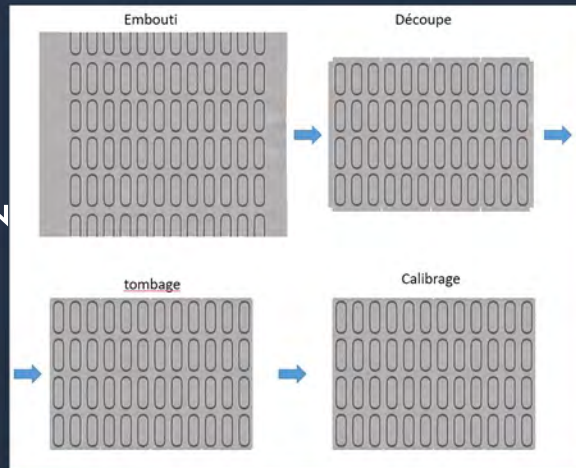
INDUSTRIAL MOLDS AND TRAYS

SIMULATION AND FEASIBILITY OF MANUFACTURING THE STAMPED PLATE (DEEP DRAWN)

MANUFACTURING SIMULATION

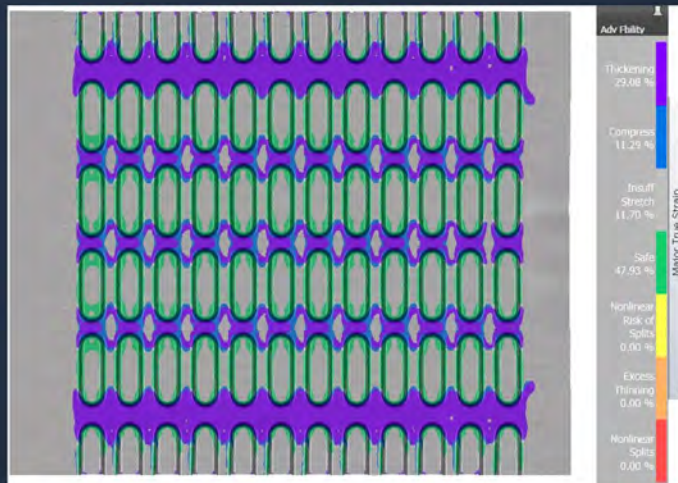
Detail of the different stages for the plate manufacturing:

- 1- Stamping,
- 2- Cutting,
- 3- Edge trimming,
- 4- Calibration



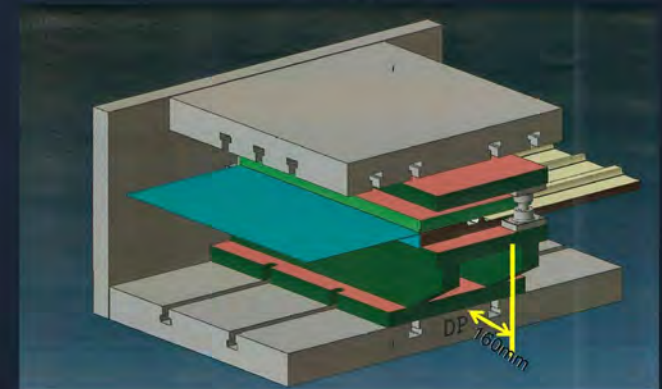
MOLD SIMULATION

Research to obtain the desired number of cavities



FORMING SIMULATION

Simulation and verification of the formability of the plate



THE MANUFACTURING TOOLS

Design of tools for the manufacturing of the stamped plate



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DESCRIPTION OF OUR DIFFERENT MATERIALS

RESIST+

Sheet Aluminized including an anti-adherent allowing for the saving of a coating - Good thermal conductivity (36 W/m.K) - High elongation rate (34%) - Friction resistance - Good corrosion resistance, easily cleanable - Product durability may decrease if used <250 °C and washed in a dishwasher

ALUMINIZED STEEL

Resistance to corrosion and ability to work in very thin thickness - Excellent conductor of heat and electricity (Thermal conductivity: 36 W/m.K) - Good formability - Low density - High elongation rate (up to 34%) - Excellent heat resistance - Anti-adherent coating required

BLEU STEEL

Special high-temperature cooking sheet - Thin thickness - Excellent hardness homogeneity - Without coating and polluting particles - Superior quality, virtually indestructible - Energy saving thanks to rapid heat absorption (thermal conductivity: 40 W/m.K) - Maintenance: seasoning of the mold necessary before first use, dishwasher not recommended, drying after washing recommended

TINPLATE

Good hardness - Guaranteed high corrosion resistance - Easy maintenance - Resistance to high temperatures High yield strength (up to 340 MPa) - Strong resistance to impacts and cutting utensils

STEEL

High formability and durability (Yield strength: 170-340 MPa) - Good thermal conductivity Easy to manufacture and use - Optional anti-adherent coating

STAINLESS STEEL

Optimal material for food standards - Easy maintenance - Unalterable - Good corrosion resistance (protective layer of chromium oxide) - High shock resistance - High heat resistance ($t < 600$ °C) - Magnetic or non-magnetic depending on the type of stainless steel chosen - Thermal conductivity 10 to 30 W/m.K

ALUMINIUM

Non-magnetic - High corrosion resistance - Good weldability - Excellent thermal conductivity (204 W/m.K) - Good cold forming ability



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COMPARISON OF MATERIALS USED

| | ANTI CORROSION | COOKING | AMAGNETISM | FORMING | THERMAL CONDUCTIVITY | COATING | PRICE |
|------------------|----------------|---------|------------|---------|----------------------|---------|-------|
| RESIST + | ● | ● | ● | ● | ● | ● | ● |
| ALUMINIZED STEEL | ● | ● | ● | ● | ● | ● | ● |
| BLUED SHEET | ● | ● | ● | ● | ● | ● | ● |
| TINPLATE | ● | ● | ● | ● | ● | ● | ● |
| STEEL | ● | ● | ● | ● | ● | ● | + |
| STAINLESS STEEL | + | ● | ● | ● | ● | ● | ● |
| ALUMINIUM | ● | ● | ● | ● | + | ● | ● |



OUR BEST-SELLER

ALUMINIZED SHEET "ALUSI"

«Alusi» is a steel coated on both sides with a protection composed of aluminum (90%) and silicon (10%)

It has high resistance to oxidation as well as to temperatures up to 450°C without major degradation.

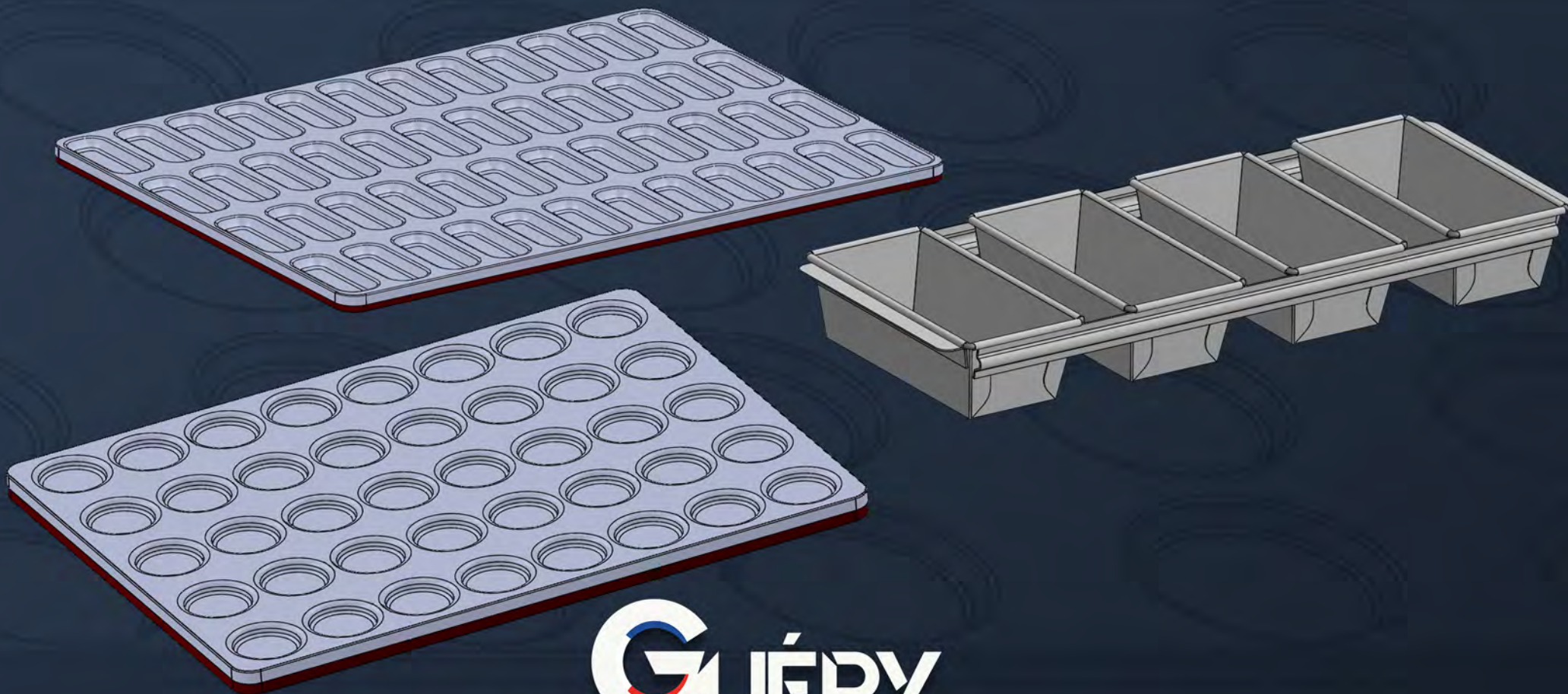
Its characteristics allow to combine it perfectly with an anti-adherent coating



Steel resistant to corrosion and chemical attacks



Anti-adherent application



GUÉRY

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