



A LARGE RANGE OF APPLICATIONS

EXCLUSIVE AND COST EFFECTIVE SOLUTIONS

Main applications for Aubert & Duval foundry:

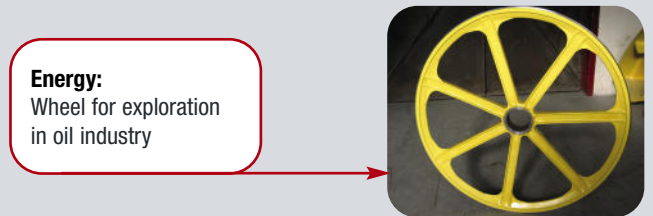
- **Aeronautics:**
Tools for SPF, SPF-DB* and Composites RTM* applications, prototypes for wind tunnel
- **Defense:**
Muzzle breaks, nuclear marine parts, hull parts, etc.
- **Medical:**
Alloys for cast prostheses, dental plots, parts for X-Ray machines
- **Energy:**
Wheels for Oil and Gas industry, etc.
- **Mineral processing:**
Parts submitted to wear
- **Chemical and Petrochemical:**
Tubes, fittings, valves for corrosive environment
- **Tooling:**
Goose-necks for die casting, moulds for glass industry, dies for isothermal work, furnace equipment
- **Special applications:**
Sailing boat keel, parts for ultrahigh vacuum, non-magnetic components
- **Semi-products*:**
For investment casting, special heats for R&D programs

* Ask for our dedicated brochures
(SPF = Super Plastic Forming – Diffusion Bonding)
(RTM = Resin Transfer Molding)

Examples of applications:



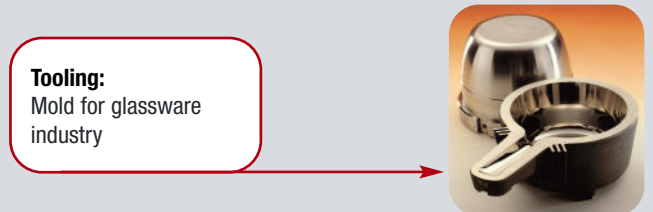
Special Applications:
Sailing boat keel



Energy:
Wheel for exploration in oil industry



Medical:
Arm for X-Ray table



Tooling:
Mold for glassware industry



Tooling:
Goose-neck for Magnesium die casting



The High-Tech Foundry

The Aubert & Duval foundry

The Aubert & Duval foundry is a dedicated workshop integrated in one of the most advanced Special Steel plants

- **Technically advanced equipment:** melting capacities of 100 kg to 40T with Electric Arc Furnace, Vacuum Induction Melting, centrifugal casting (up to 1.5T), heat treatment. Possibility of hipping.
- **Plant (R&D, Metallurgy Engineering, Quality Control)** dedicated to most demanding markets: aerospace, nuclear energy, etc.
- **Highly skilled workforce**



As a consequence:

- **more than 180 original grades:** special steels (heat resisting materials, low thermal expansion coefficient), nickel and cobalt base alloys, ...
- **large sizes :** up to 12m (e.g. helicopter blades) and parts from 5g to 20T
- **stringent quality and Q/C,** in line with aeronautical requirements
- **short lead-times:** in the range of 10 - 12 weeks

