

PRECIMETAL[®]

Lost Wax



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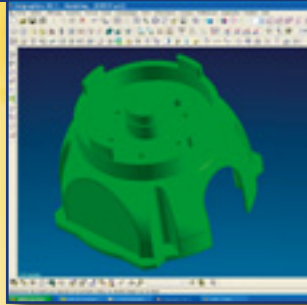
CIRE PERDUE-PRECSIEGIETWERK
INVESTMENT CASTING - FEINGUSS

Investment casting

The process knowledge

Technical department

- Experienced engineers
- Modern CAD equipment
- Casting and solidification simulations
- Design assistance

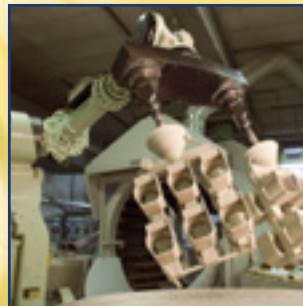


Die tools and pattern injections

- Aluminium and soft metal moulds...
- Rapid prototyping
- Automatic or manual injection
- All types of cores

Assembly of patterns on trees

- By welding or glueing
- From 1 to 1500 parts per assembly
- Online quality control

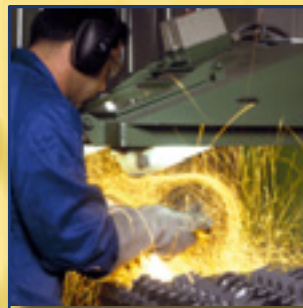
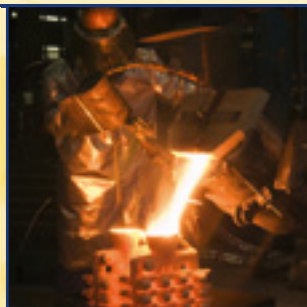


Ceramic shells

- Automatic lines for dipping/coating of heat resistant products
- Adaptative manufacturing
- Wax drain-off through autoclave

Moulds firing and metal pouring

- Fusion capacity : 8 tons/day
- Two production lines
- Alloys following customer requirements
- Spectrometric control

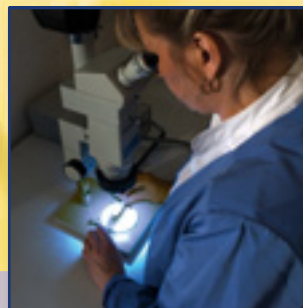


Finishing and heat treatment

- Shell removal
- Parts cut-off by sawing
- Finishing as per specifications
- All kind of heat treatments

Machining and surface treatments

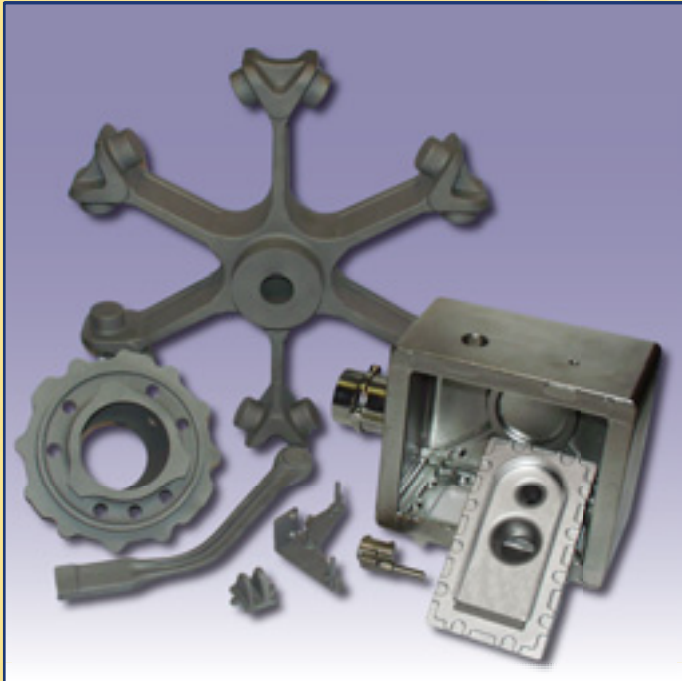
- Finished parts ready for assembly
- Qualified and certified partners
- Integrated Logistics



Certification and controls

- Dimensional
- Non destructive
- All technical resources in-house or by specialised laboratories

Advantages which make the difference



Unique Process allowing

- HIGH PRECISION
- COMPLEX METALLIC PARTS
- ALTERNATIVE TO MACHINING AND WELDING

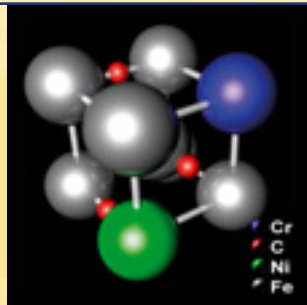


Broad design freedom

- Complex geometries
- Interior cavities
- Thin walls
- Marking, grooves and tothing

Multiple alloy choices

- Low and high alloyed carbon steels:
 - Structural steels
 - Case hardening steels
 - Nitriding steels
 - Tool steels
 - ...



- Stainless steels :
 - Martensitic
 - Austenitic
 - Duplex
 - Heat resisting
 - ...

- Nickel and Cobalt base alloys :
 - Hastelloy
 - Stellite
 - ...

- Copper alloys :
 - Copper- aluminium
 - Copper-beryllium
 - Brass
 - ...



Reduced machining, welding and assembling

- Subassemblies casted into one part
- Structure and material homogeneity
- Less fracture tendency



Dimensional accuracy and surface condition

- Very close to the machining tolerances
- Reduced polishing
- Easy fitting of surface coatings



Weight reduction

- Hollow-outs
- Thin walls
- Enforced rigidity by stiffeners

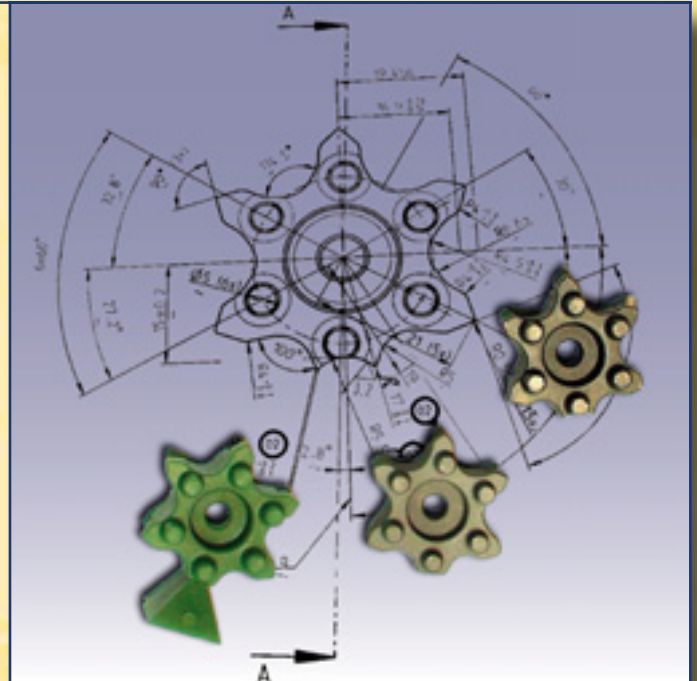


■ We focus on giving you the best quality

Excellence in customer's service

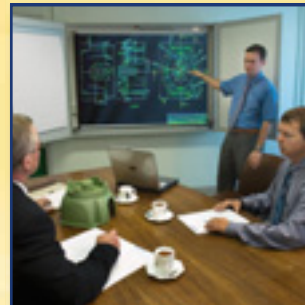
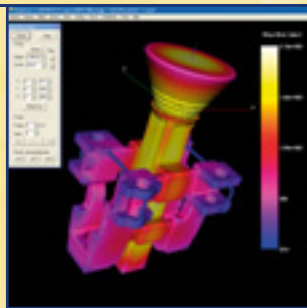
Reliability / flexibility

- Just in time and Kanban
- Simple and complex components adapted to your needs
- Small and large series
- International reputation
- Reference from important customers
- Solid finances



Research and Development

- Continous improvement policy
- Process knowledge
- Regular staff training
- Continous investment
- Integrated IT

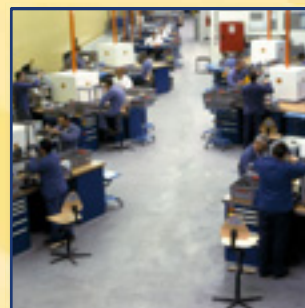
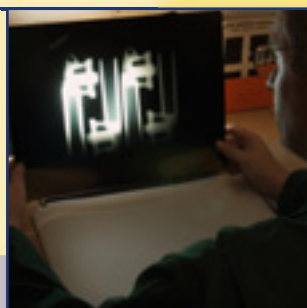


Long term partnership

- Technical assistance from day one
- Metallurgical advices
- Rapid Prototyping
- Machining and surface treatments
- Individual management of emergencies and helping out
- Local logistic facilities

Quality system

- Certification ISO9001 (2000) and EN 9100 (aeronautical)
- Modern control equipment and techniques



Professional ethics

- Respect of commitments
- Guarantee of patent rights
- Protection of social and ethical values
- Environment safeguarding

Lost wax : our speciality



For the Industry...

- 400 partner customers
- 150 experienced operators
- Modern factory
- In the heart of Europe
- Certified quality system
- Permanent progress
- International reputation
- 50 years of experience

- Parts from 1 g to 50 kg
- All ferrous alloys
- Nickel, cobalt and copper alloys
- 8000 different parts as reference

...for your industrial sector



CIVIL AND MILITARY AERONAUTICS

- Structural parts
- Parts for fluid transport



MECHANIC

- Textile, printing, packaging, agriculture machines, ...
- Security equipment
- Tooling



FOOD PROCESSING EQUIPMENT

- Pasty, solid or liquid food processors
- Cutting, crushing
- Packaging, storage



TRANSPORT

- Light or heavy road, railway or marine vehicles
- Civil Engineering or agricultural machinery



FLUIDS

- Fixed or mobile components for pumps, turbines, valves, flanges
- Pneumatic and hydraulic applications in corrosive environment or under high pressure



BUILDING

- Facade components
- Special or security hardware
- Lock components
- Creation and Design



MEDICAL

- Implants
- Instrumentation
- Equipment, furniture



DEFENCE

- From light to heavy weapons
- Armoured vehicles, heavy guns, missiles
- Embedded electronic and optics



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