

ASK FOR... WHO WE ARE

> WE CONSIDER **Strong Values** a key driver of **Performance**



GROWING TOGETHER OUR BUSINESS GOAL

We are a business on a human scale, whose history has been written by the men and women who have inspired us to continually strive towards excellence and progress. Thanks to their efforts, we have become a **key player** on all our markets.

We believe that PEM is destined to grow, and to help our customers and employees to grow, in an atmosphere of **listening**, **trust** and **goodwill**. Our core business area is plating, which we deliver with enthusiasm and **passion** in complete harmony with our environment.

We consider you not just as customers, but also as **colleagues** and **trusted partners** who share our taste for challenges. Count on us to call on the skills and know-how that will help us meet the challenges together! We will build projects

BY INVESTING IN BRAIN Power we save on raw Materials. "

together in order to ensure control over the overall production cost for your product. Our added value lies in our critical thinking skills and our processes.

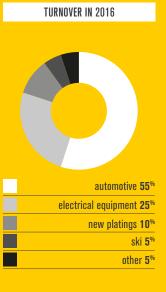
Our production standards are built on these key principles, while our cost savings approach, particularly in terms of raw materials, meets our commitment to **environmental protection**.

With enthusiastic input from our teams, and working alongside you each step of the way, we are ready to meet new challenges together, guided by the key values, goals and aspirations that characterise PEM.

> Patrice Thivat President

16 PLATING LINES 180 EMPLOYEES

PRODUCTION SITES





OUR **EXPERTISE** IS THE IDEAL **PARTNER** FOR YOUR **PROJECTS**

WORKING TOGETHER TO FIND THE **BEST SOLUTIONS**

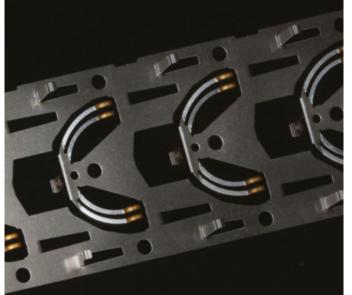
Our business approach never varies: we always consider you a vital associate with whom we will build the **solution best suited** to your needs.

We propose using the final part to reflect together on which process will provide the **best performance while also reducing and managing costs**.

While our **expertise is in plating**, we also provide recommendations concerning the whole business chain that your parts will go through. This is why we prefer to be part of the process from the very beginning. Our work philosophy is built around a cooperative approach, and we like to **accompany you throughout the entire process**. We consider that our strengths are mutually beneficial and are pleased to see our working partnerships flourish over the years.

THE BEST SOLUTION IS THE ONE THAT INCLUDES THE SPECIFIC FEATURES OF EACH STEP INVOLVED IN THE PRODUCTION OF YOUR PARTS. "





OUR SERVICES

PLATING OPTIONS

Anodizing
 Silver plating
 Copper plating
 Gold plating
 Tin plating
 Brass plating
 Nickel plating
 Coloured oxidation of titanium
 Palladium plating
 Black and coloured platings

PLATING TECHNOLOGIES

Total
Strip plating
Spot plating

SUBSTRATE OPTIONS

Copper and alloys
 Steel and alloys
 Aluminium
 Zinc
 And more...

ASK FOR... INNOVATION

YOUR PROJECTS: MENTAL STIMULATION AT ITS BEST

IMAGINATION & KNOW-HOW WORKING WITH YOU

Our Research & Development department uses **imagination to drive performance**, thus developing adapted processes.

Our laboratories are equipped to produce **proto-types** and to do **surface analysis**. Modelling software is used to simulate and check the plating options specific to each part and each process.

BUILDING ON KNOW-HOW

Each project is a challenge that we meet with enthusiasm.

Our service includes the designing of plating lines and **formulations**. We have all the necessary technologies in-house, which guarantee our endto-end self-sufficiency and control over costs and lead times.

Our expertise has broadened with each project entrusted to us, and now enables us to provide solutions to the most specific and demanding issues.

WE HAVE CONSCIOUSLY CHOSEN TO PRODUCE OUR OWN FORMULATIONS. "







15 Specialists In R&D, from doctorate to technician

5 mm > 40 mm BAR THICKNESSES THAT CAN BE PLATED



SUBSTRATE WIDTHS THAT CAN BE PLATED



SUBSTRATE THICKNESSES That can be plated



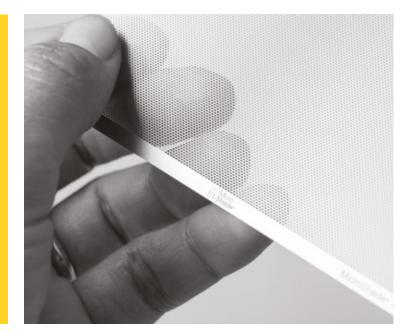
QUALITY RHYMES With competitiveness

STRIVING FOR **CONTINUOUS IMPROVEMENT**

Competitiveness and product quality are core features of our approach, and are the focus of constant research. They are vital elements of our determination to build durable partnerships.

We work to **continuously improve** our production standards. We focus all our intelligence and know-how on **optimising our use of resources**, in order to build sustainable supply chains while reducing costs.







A FEW EXAMPLES

THREE-FOLD REDUCTION IN ANNUAL COSTS

By working with one of our clients on our plating technologies, we have achieved a three-fold reduction in our annual part production costs for the same volume, from 300 000 € to 100 000 €.



Our selective plating technologies reduce the amount of precious metals used saving up to 40% on overall costs.



and nickel baths.



YOUR TRUST Must be **earned**

WE HAVE THE MEANS TO ACHIEVE **EXCELLENCE**

A large part of our annual turnover is dedicated to **investment**, as part of our **determination to constantly improve** our products and services.

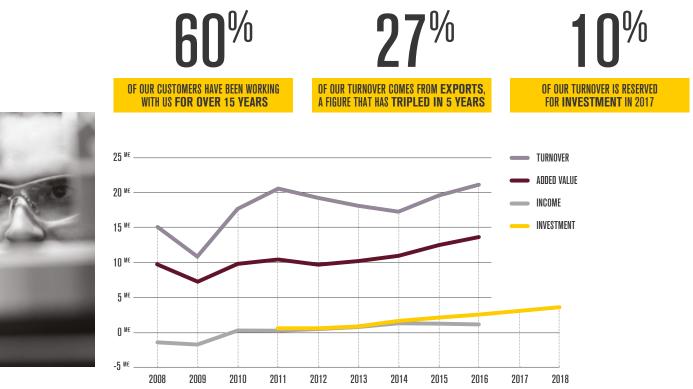
Our goal is to achieve **full process automation**. This is why we are investing in new plating lines and constantly upgrading existing lines. Our efforts focus on:

- automating and standardising production specifications,
- automatic process management based on continuous measurements,
- real-time logging and analysis of production data.

Safety is another top priority. **Our industrial sites are protected against risks of fire and intrusion**, the former being the subject of onboard technologies on machines and surveillance by a dedicated control centre.

We have a very strong health and safety policy that includes long-term medical checkups for our employees and the setting up of strict procedures designed to limit the risk of accidents.







ASK FOR... BUSINESS ETHICS

FUTURE STARTS **TODAY**



PROTECTING THE ENVIRONMENT AND WORKING TOWARDS CREATING A BETTER FUTURE

As a company located in the heart of Auvergne in unspoiled natural surroundings, we made environmental issues a key concern very early on.

At every step in our processes we strive to maintain the ecological balance and reduce our environmental footprint. To do this, we are continuously working to reduce and recycle our waste and have our own water treatment stations.

We were the first plating company in France to be approved to **self-check the quality of the treated water**. We are **10 times below the authorised nickel and copper content norms**, and have also set up a system for optimizing waste treatment, with the goal of achieving zero non recycled waste in the near future.

We also follow an ethical and responsible raw materials purchasing policy.





2 to 10 TIME LESS

Our chemical waste is **2 to 10 times below** Environmental requirements



By improving our processes, we have **significantly reduced tin losses**, from 15 tons in 2015 to 4 tons in 2017

ASK FOR... AN EXCEPTIONAL LOCATION

REACHING BEYOND MOUNTAINS IS IN OUR NATURE

OUR WORKING ENVIRONMENT : **AN OPPORTUNITY**

Our company is located within a **protected area**, where the topography and vegetation provide a wealth of different landscapes.

We enjoy space, excellent quality of water and energy. We also know we can count on strong support from our elected officials, local businesses with whom we work, and, more generally, from the people living in our beautiful area.

These exceptional conditions offer our teams an outstanding **comfort** and **quality of life** that plays a vital role in their **well-being**.

We have made our location, in the heart of France and Europe, a strategic advantage that contributes to our excellent response times and the creation of local relationships with our partners.

We have also set up a **shuttle** and offer to collect your orders, treat them and send them back to you thereby optimizing our logistic procedure.

WE HAVE MADE OUR LOCATION A STRATEGIC ADVANTAGE. "









• Vissac



TOGETHER, WE BELIEVE IN THE POTENTIAL OF EACH INDIVIDUAL

OUR WEALTH? OUR HUMAN RESOURCES

Our company has a team of **180 professionals** engaged in **over 40 business areas** (line drivers, chemists, electricians, metalworkers, mechanics, designers, computer technicians, administrative staff, etc...), all working in close synergy.

We are proud of our teams and optimize their know-how by offering them the opportunity to improve their skills at every qualification level.

Aware of their abilities, our team is **proud** to be involved in ensuring the **success** of our customers' projects, and of the role of their products in the world around us.

OUR GREATEST ADVANTAGE LIES IN THE MEN AND WOMEN WHO WORK AT PEM. "











MAJOR BRANDS USE OUR KNOW-HOW AND EXPERTISE:

AUTOMOTIVE AUDI BOSCH PORSCHE **GROUPE PSA** RENAULT MICHELIN CONTINENTAL VALEO MAGNETI MARELLI FORD FIAT **FERRARI** NISSAN, TOYOTA DACIA

SMART HOME Somfy Legrand Schneider Electric ... Ski

LACROIX ROSSIGNOL SALOMON FISHER EXTREM DYNASTAR

....



CONTACT

Tél. +33 (0)**4 71 74 21 09** Fax +33 (0)4 71 74 26 57 contact@pem.fr

Siaugues-St-Romain 43300 Siaugues-Ste-Marie France

pem.fr