



PRIREV

SURFACE TECHNOLOGY

2019



Strategic Group



Human Resources: 783



Turnover: 90.000.000€

J. PRIOR

Injection and extrusion of
plastics.

Prifer
Technical Molds, S.A.

Injection molding of plastics
and injection molding.

Prifer
Fundição, S.A.

Injection molded in aluminum
and zamac..

PRILUX[®]

Equipment, irrigation systems
and greenhouses.

PRIREV
SURFACE TECHNOLOGY

Technical coatings.

Prinemo[®]

Plastic components for the
automotive industry.

About us

Company



Company foundation - 2001



RH - 122



Turnover – 2.800.000€



Total area – 8000m2



About us

Company

Our mission is to make our partners more competitive in their markets, increasing added value in their products, greater diversity of finishes, higher quality and better resistance.

We are currently the only Portuguese company offering PVD solutions for various business areas.



Markets

Over the last years the company as been facing a **great growth**, in part, result of **internationalization**.



PVD

Physical Vapor Deposition

- Thin high-tech coating with outstanding adhesion, deposited by a plasma process in a high-vacuum chamber;
- Coatings with high purity, chemically inert and bio compatible;
- Controlled thickness between 0.8 – 1.5 μm (Decorative) and 2-6 μm (Functional).

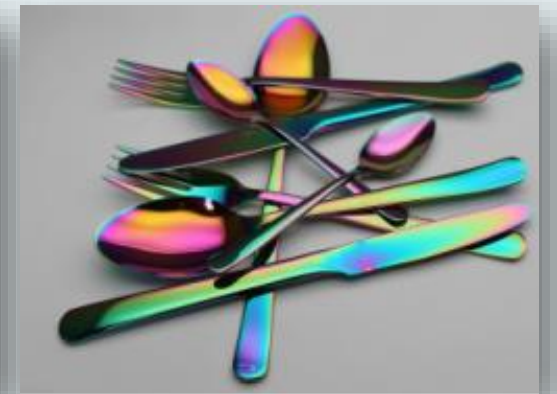


PVD

Decorative

Business areas:

- Table and Kitchen Cutlery;
- Pocket Knives;
- Watches and Jewellery;
- Bathroom Accessories;
- Hardware for Doors;
- Interior Design and Furniture;
- Sport Accessories.



PVD

Decorative

Deposition of Zirconium, Titanium, Chromium or other combinations of metal ions, with reactive gases in high vacuum chambers.

The applied coating maintains the original surface finish: polished, satin, velvet, mate, or brushed.

Standard Colours



PVD

Decorative

Benefits:

- Superior adhesion and wear resistance than chromium plated or other electroplated materials;
- Warranty of durability;
- High hardness (greater than 2000 HV);
- UV resistance;
- Eco-friendly Coating: non-polluting process/product;
- Anallergic;
- Compatibility with food industry and surgical industry;
- More resistant than any galvanic coatings.

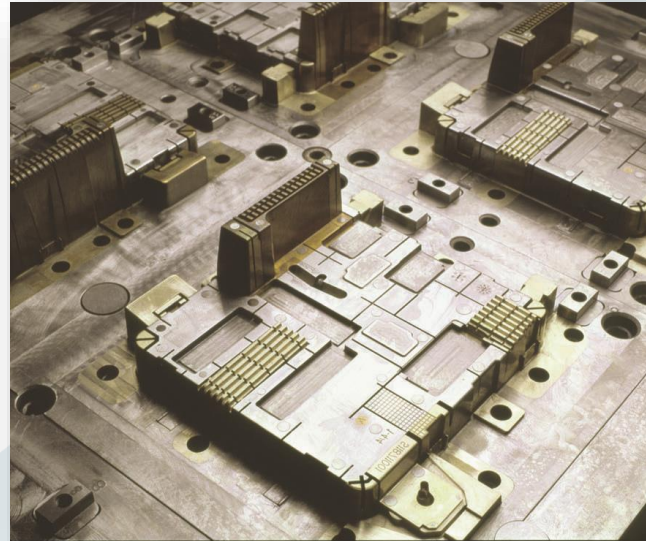
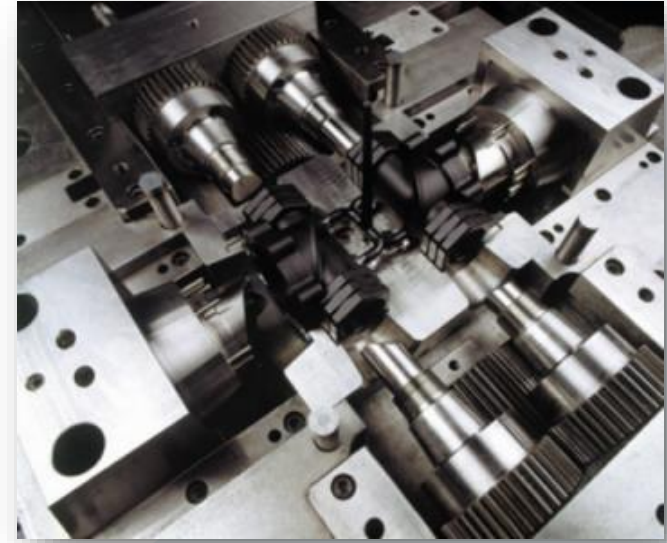
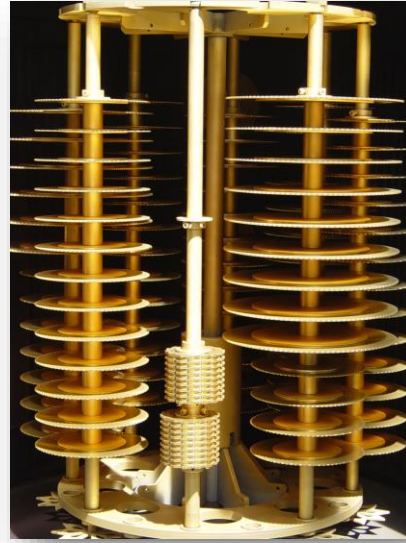


PVD

Functional

Business Areas:

- Molds for Plastic Injection;
- Molds for Zamac and Brass Injection;
- Cutting Tools;
- Stamping Tools;
- Standard Parts.

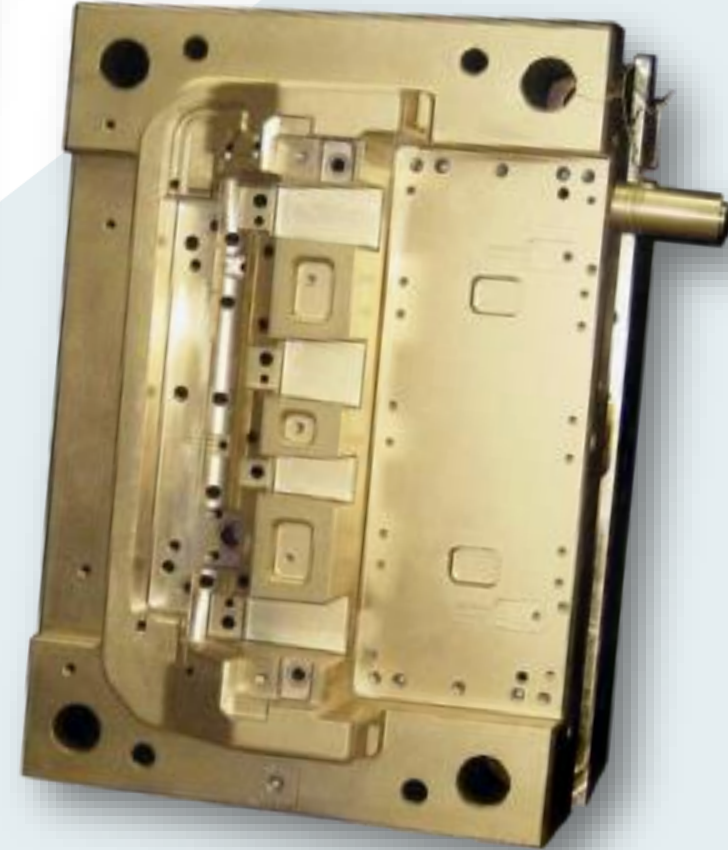


PVD

Functional

Benefits:

- More resistance to corrosion and oxidation;
- Hardness (2100 to 4000HV);
- Facilitates release;
- Improves surface finish;
- Doesn't affect neither the dimensions nor the finish of the parts (2-6 μ m);
- Reduces downtimes and maintenance periods;
- Increases equipment productivity;
- Lowers production costs;
- Improves products quality.



Productive Capacity



9 PVD Coating Machines

Productive Capacity:

- 148 500 earrings / day / machine
- 7800 cutlery / day / machine
- 900 bicycle chain /day /machine
- 72 sinks / day / machine



Equipments

Microcoat MA1000

- **Dimensions:**
Ø800 x h800mm
- **Temperatures:**
190° – 450°C
- **Decorative Production cycle:**
2h-3h
- **Functional Production cycle:**
6 – 12h
- **Quantity:**
2 Machines



Equipments

Protec Pro Power 1100 XL D5

- **Dimensions:**
Ø1100 x h1100mm
- **Temperatures:**
80° - 300°C
- **Production cycle:**
2h – 4h
- **Quantity:**
1 Machine



Equipments

Kenosistec KSA 1600V

- **Dimensions:**
Ø1100 x h1100mm
- **Temperatures:**
120° - 300°C
- **Production cycle:**
2h – 3h
- **Quantity:**
6 Machines



I&D

- New coating solutions;
- Improvements of PVD solutions, internally and in partnership with external entities;
- Coatings customization according to customer specifications;
- Coatings characterization;
- Quality and resistance tests.



New substrate Coating Materials

- Glass;
- Crystal;
- Ceramic (porcelain, stoneware and flooring);
- Polymers.



Development of new PVD thin films:

- Translucent Protective coatings;
- Ag Thin Film;
- High chemical resistant Films.
- White colour Thin Film;
- Anti-bacterial film;
- Low temperature films.



Quality Control

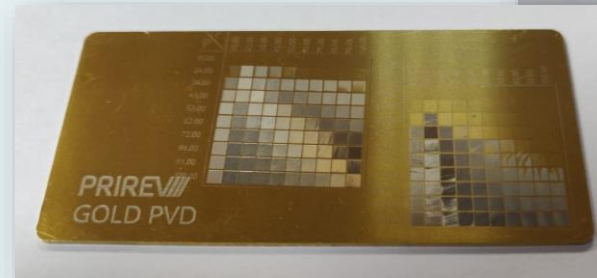
- 1- Spectrophotometer;
- 2- Resistance - Scratch test
- 3- Thickness - Kalotest
- 4- Washing resistance -
Dishwasher and US tests



Other Services

1. Laser engraving

Customizing the products through laser engraving, adding value to each piece.



Other Services

2. Velvet

The pieces are subjected to a **treatment of glass beads** that give it a **matt finish**.



Other Services

3. Final Packaging

The pieces are packed according to the specifications given by the customers.



Certifications

- ISO 9001:2015;
- Food compatibility certificate;
- High salt spray test resistance;
- Dishwasher safe – Food compatibility certificate;
- High resistance to all ph spectrum.



PRIREV

SURFACE ENGINEERING



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