

JEGAN
HIGH PRESSURE DIE CASTING

Jegan, established in 1972 (Basque Country), we specialise in the design, development, manufacture and finishing of **Zamak injected parts**, using advanced in-house production processes for both **technical and aesthetic finishing parts**, thanks to our **international** presence and specialisation.

We work closely with our customers from the initial project phase through to series production, highlighting our focus on **quality, continuous improvement and our expertise in advanced production technologies**.

We offer **Lean Production solutions in multiple sectors** to reduce costs and improve quality, maintaining our commitment to the **'ZERO DEFECTS'** standard.

We are committed to corporate social responsibility, implementing sustainable practices to **reduce our carbon footprint to achieve sustainable and profitable goals**.



Die casting facility



Coating facility

Zamak die casting



Types of parts

The advanced production processes allow us to process different types of zamak injection moulded parts such as:

- Parts with complex geometry
- Parts with different surface finishes
- Parts with additional operations

Production capacity

More than 50 years of experience in design, development, manufacture and finishing.

- Range of highly automated injection cells from 50 to 220Tn.
- Specialists in the production of medium and long series of zamak.



TECHNOLOGICAL PARTNER

Our extensive experience in Zamak injection moulding allows us to collaborate with the customer's R&D team in sectors with high technical requirements.



ENGINEERING DEVELOPMENT

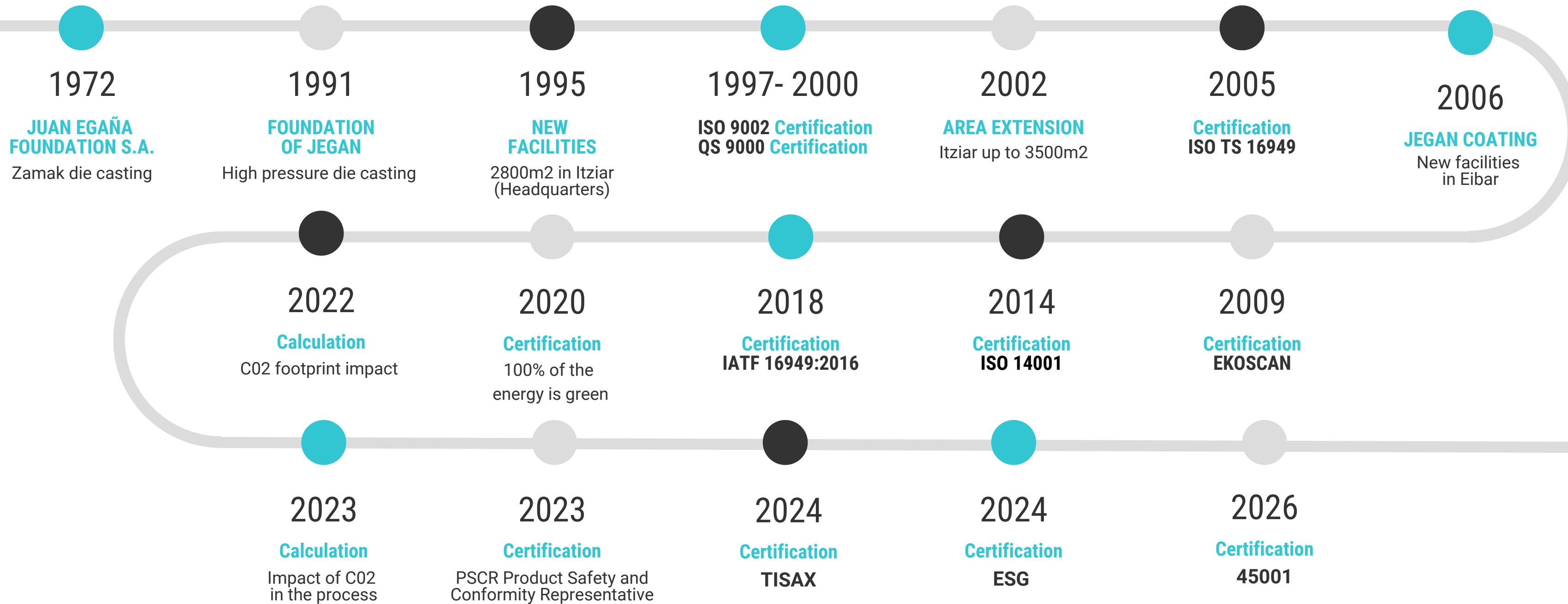
The first stage of the manufacturing process requires a feasibility study carried out in conjunction with our engineering team and the customer.



INNOVATION OF PROCESSES

The technical requirements of the project oblige us to investigate, control and keep each of the different phases of the process up to date.

JEGAN Milestones



Quality and environment

Our work philosophy clearly commits us to Excellence, Quality and respect for the Environment. We are oriented towards the principles of Total Quality, endorsed by the **IATF 16949, ISO 9001 and ISO 14001 certifications.**



Our clients



95% EXPORT RATE

25 Countries

- Europe
- USA
- Mexico
- Brazil
- South Korea
- China
- India
- Türkiye
- South Africa
- Thailand



Figures 2024



7000m²



70 EMPLOYEES



15 CELLS



40.000.000
OF PIECES



13.000.000 € OF
TURNOVER



WEIGHT RANGE PIECE
2,5 g - 1kg



MOBILITY
63%



HOME APPLIANCES
30%



OTHER SECTORS
7%



Why **JEGAN**

Most valued aspects by our customers



OWN COATING
FACILITY



SPECIALISTS
IN ZAMAK



OWNERSHIP
COOPERATIVE



100% SERVICE
ZERO DEFECTS

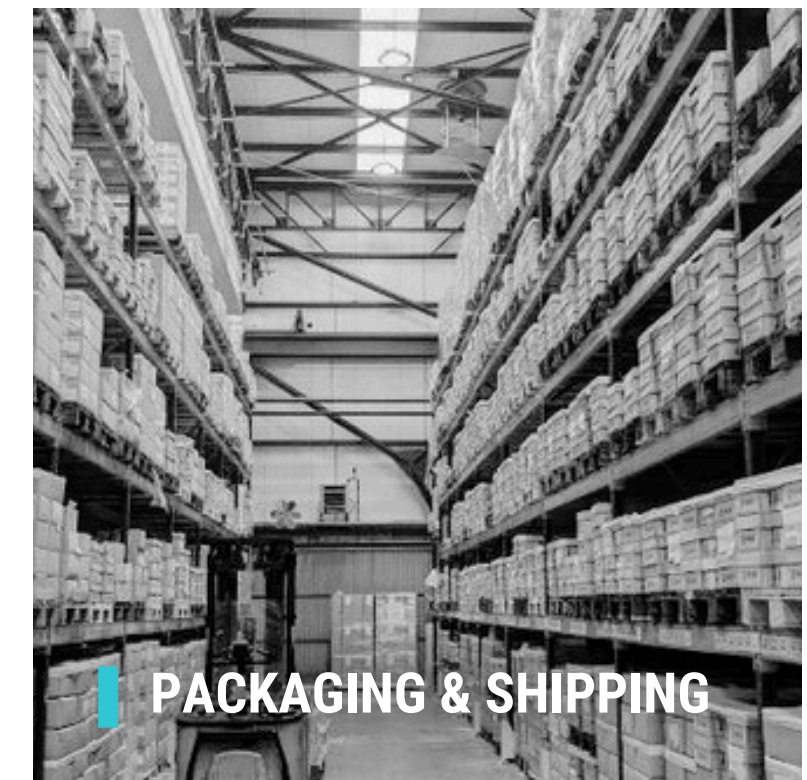
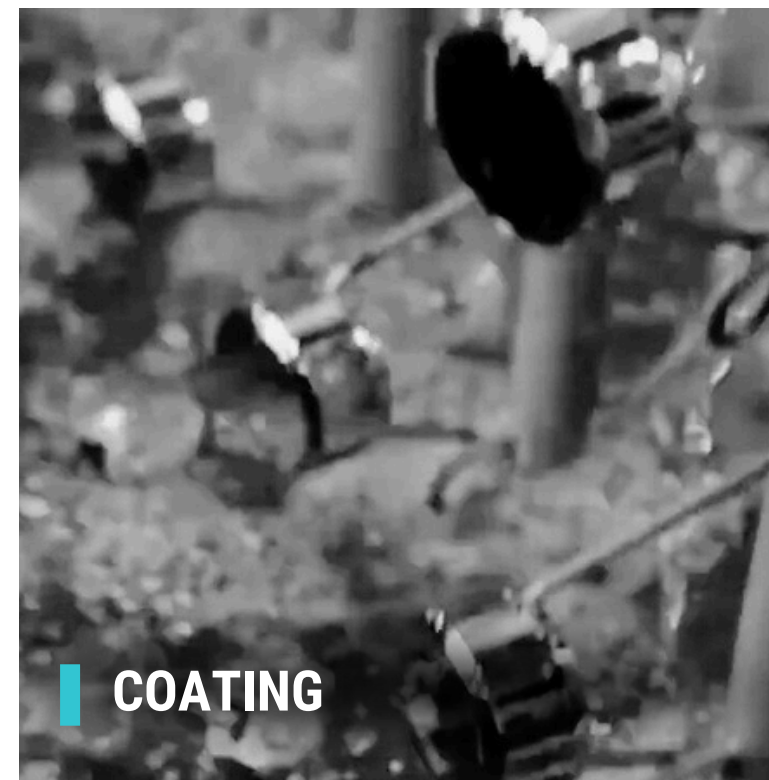
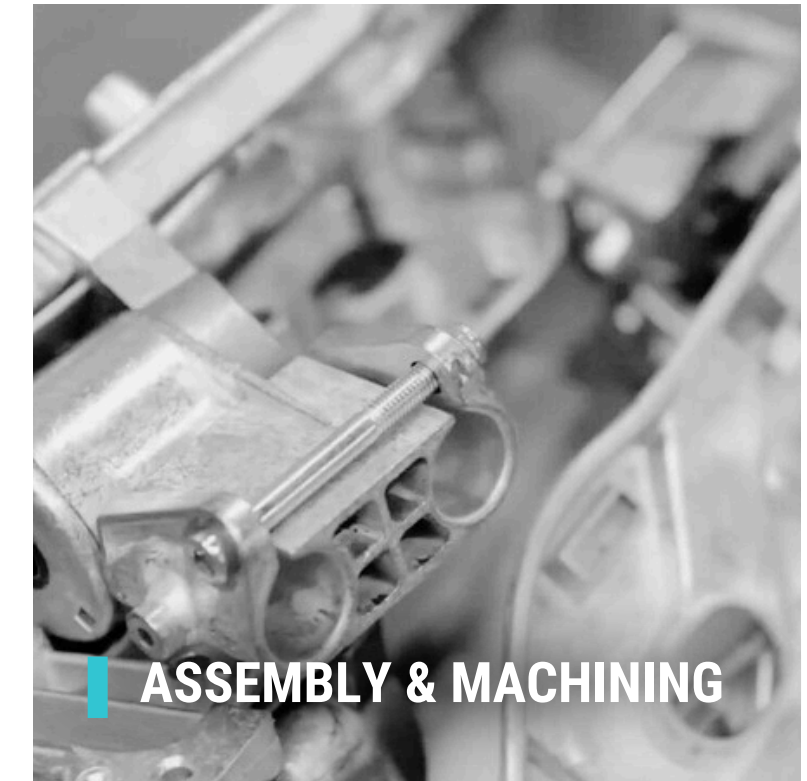
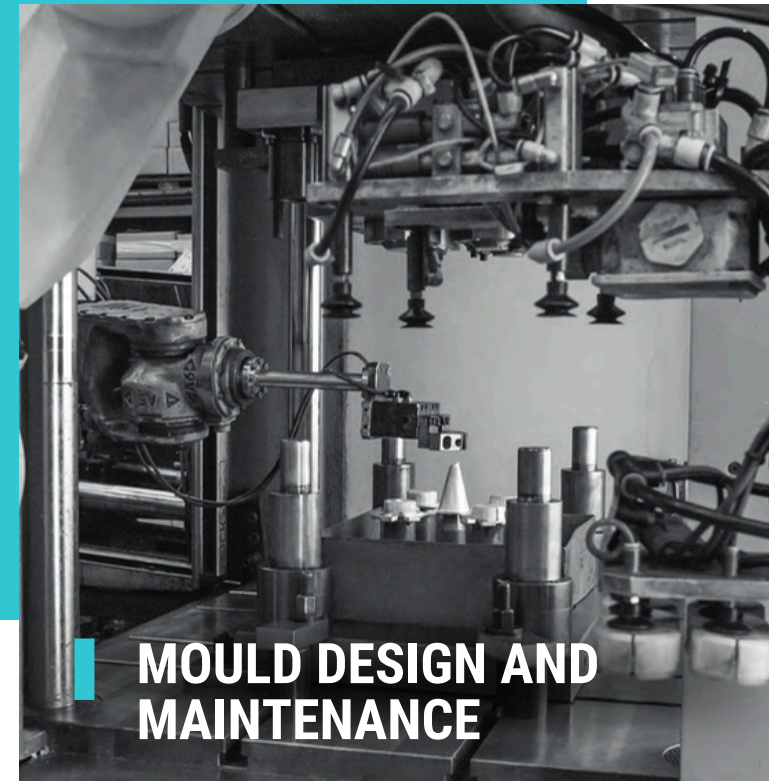


INVESTMENT &
INNOVATION



GREEN
COMPANY

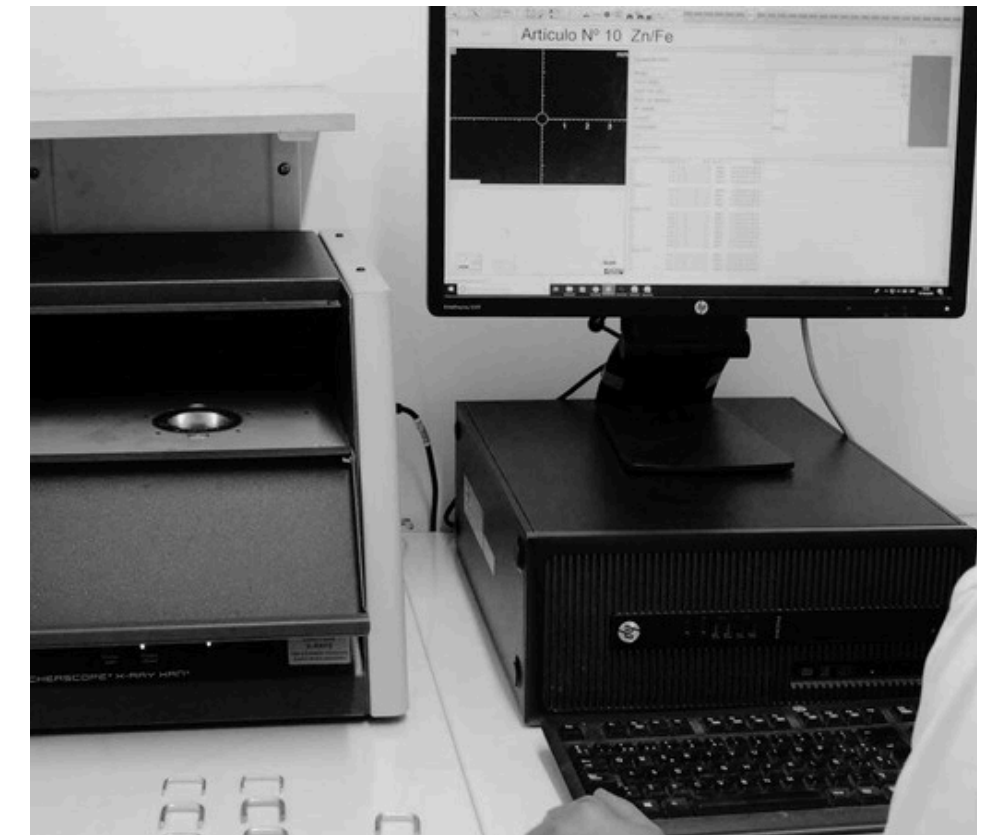
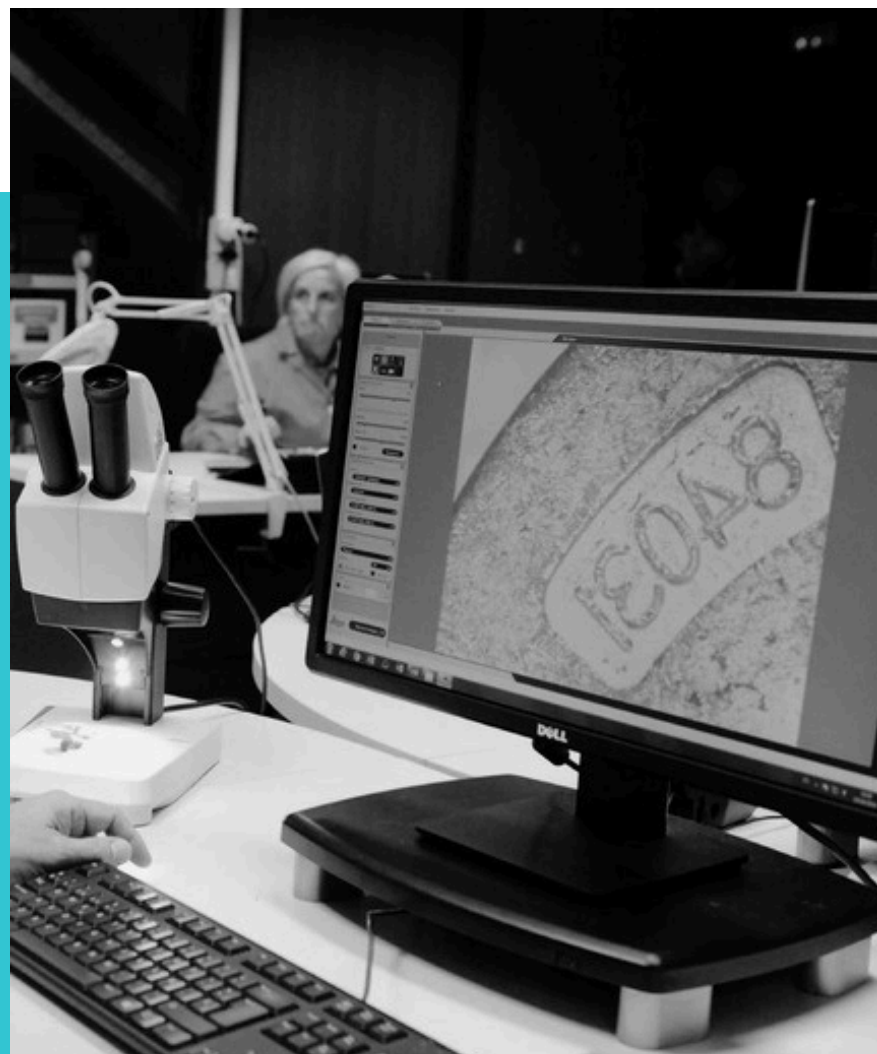
Process



Quality Control

We combine different types of final inspection and control systems:

- Manual inspection
- Automated machine vision systems to guarantee 0 PPM

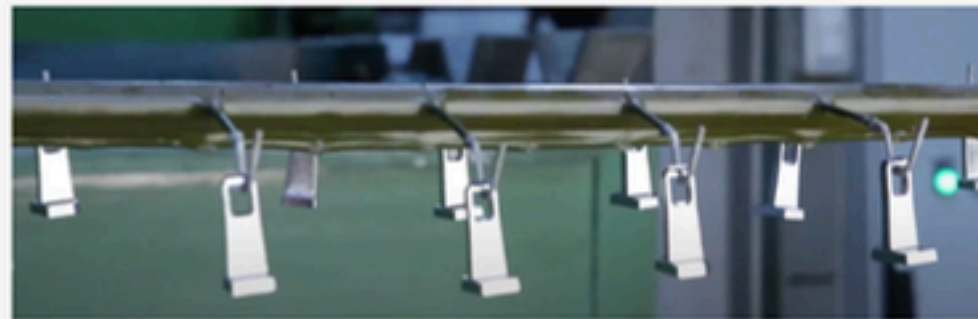


Coating

Our own electrolytic baths plant in the town of Eibar. We supply surface treatments against corrosion, such as different types of zinc plating. Treatments can be carried out both on drums and on racks.



Zinc plating on racks



Alkaline ZnNi. Matt Black.



Alkaline ZnNi. Matt Grey.

Zinc plated on drum

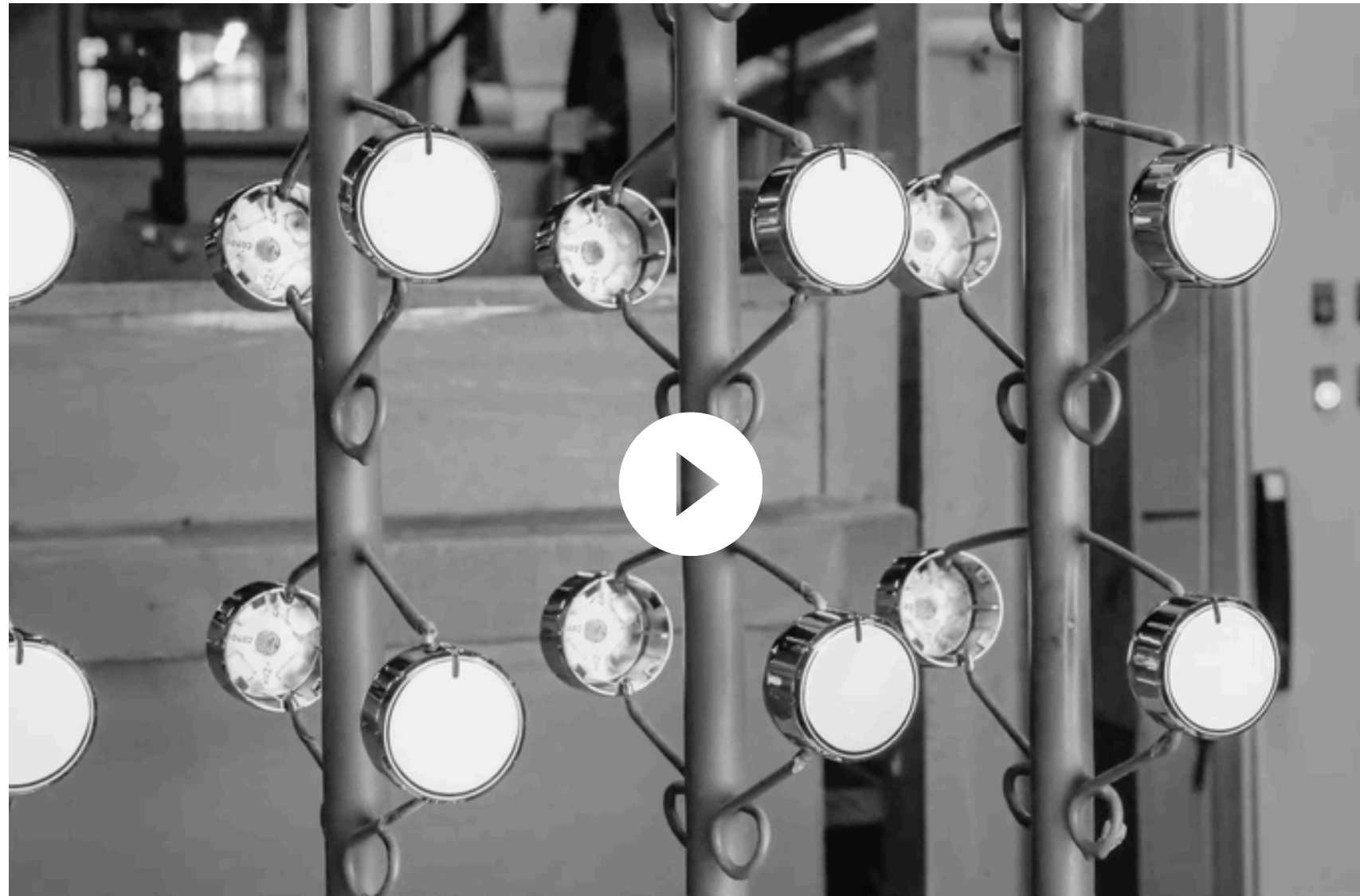


Acid Zn. Bright.



Alkaline Zn. Brightness.

Coating



CHROME PLATING



PAINTING

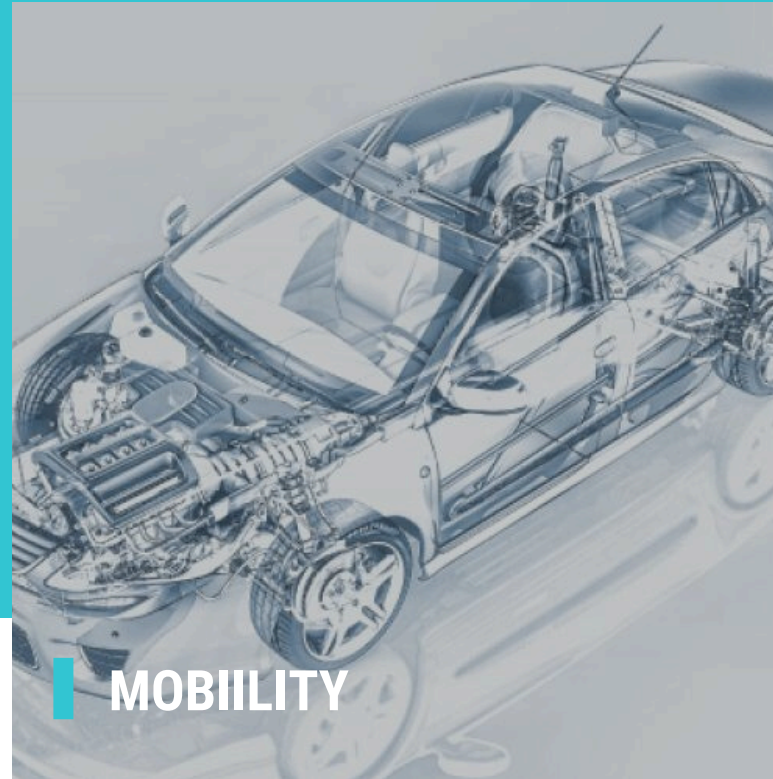


PHYSICAL VAPOR DEPOSITION (PVD)

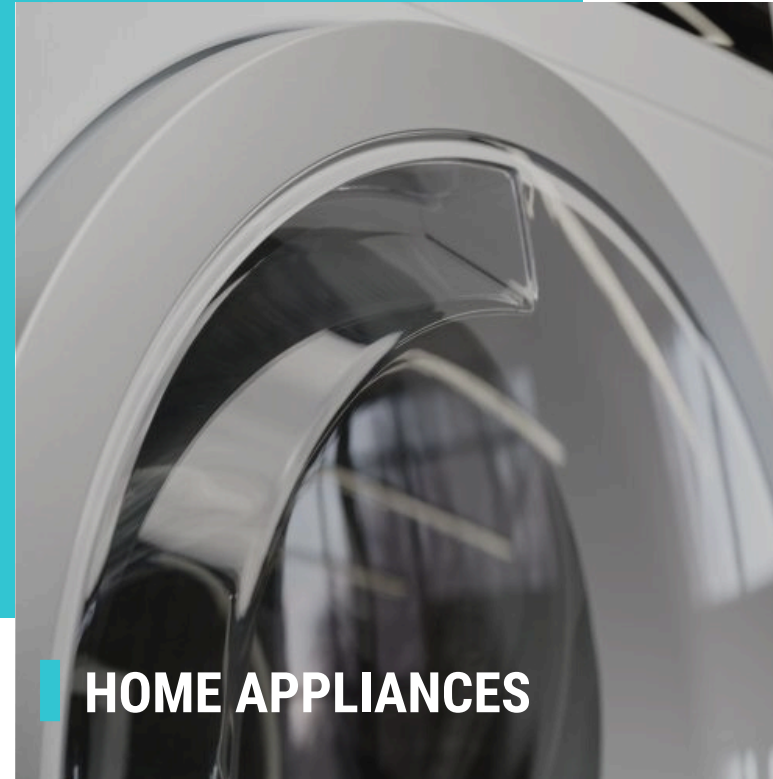


CATAPHORESIS (KTL)

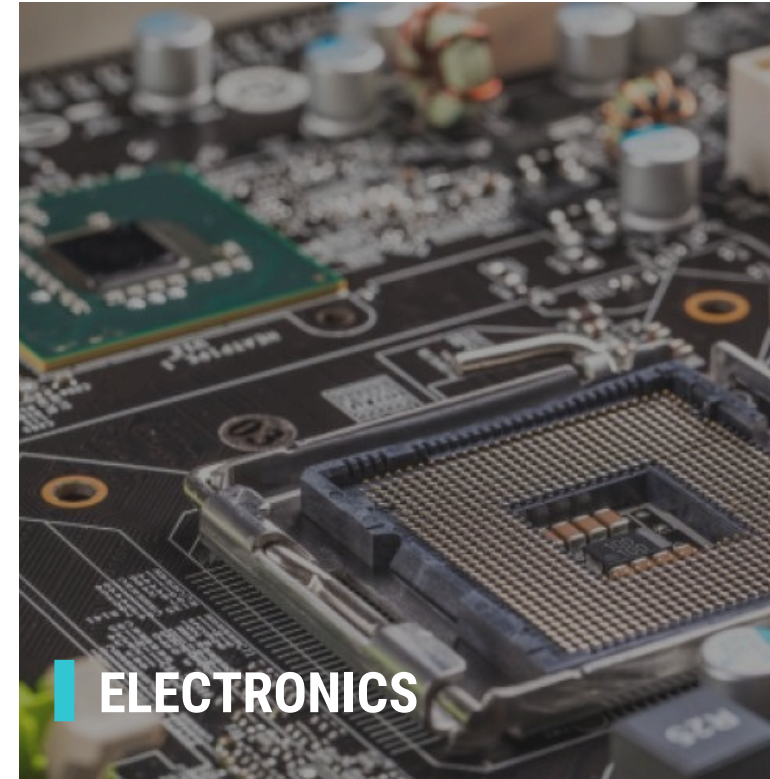
Sectors



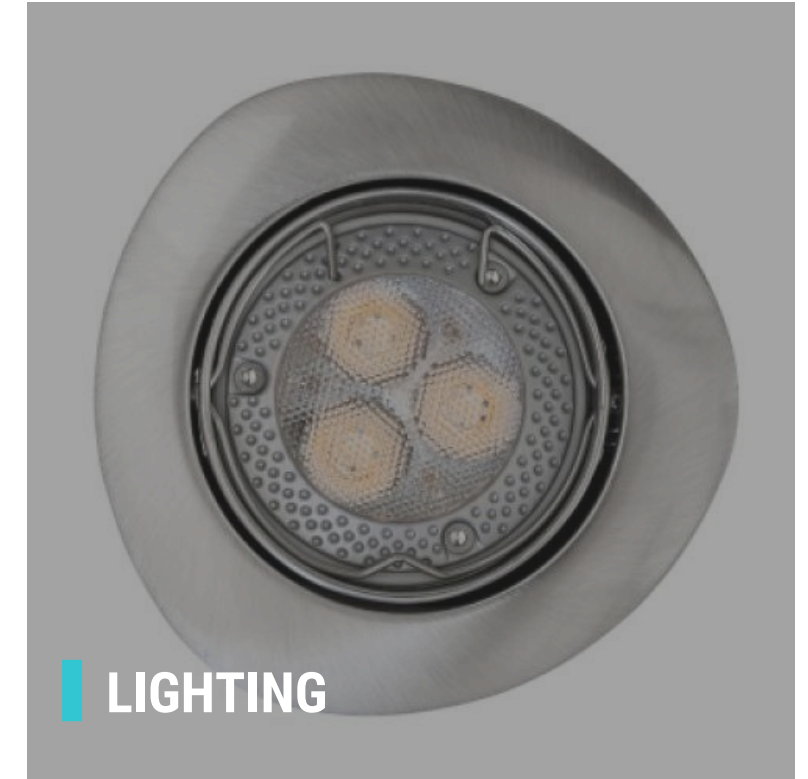
MOBILITY



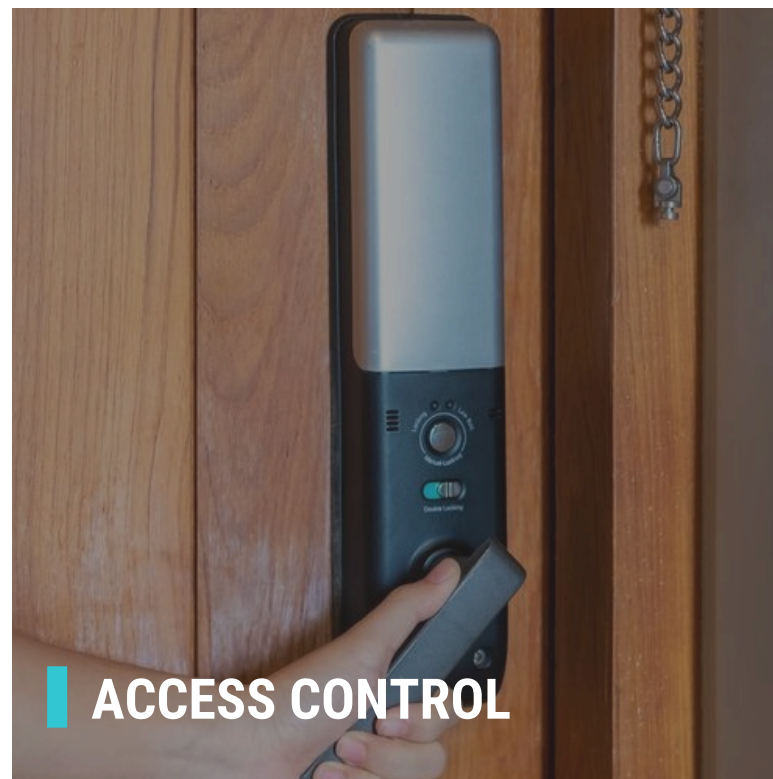
HOME APPLIANCES



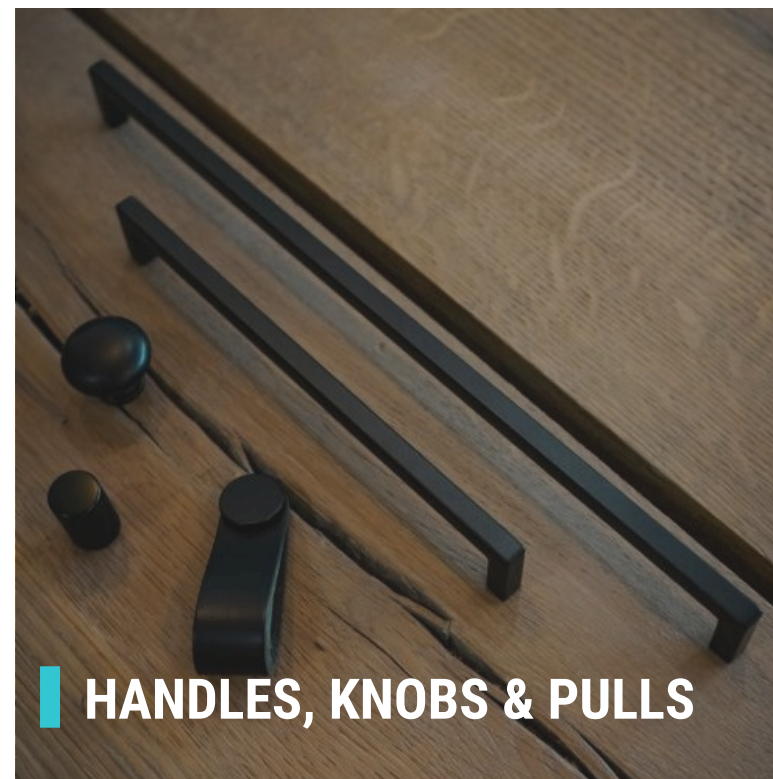
ELECTRONICS



LIGHTING



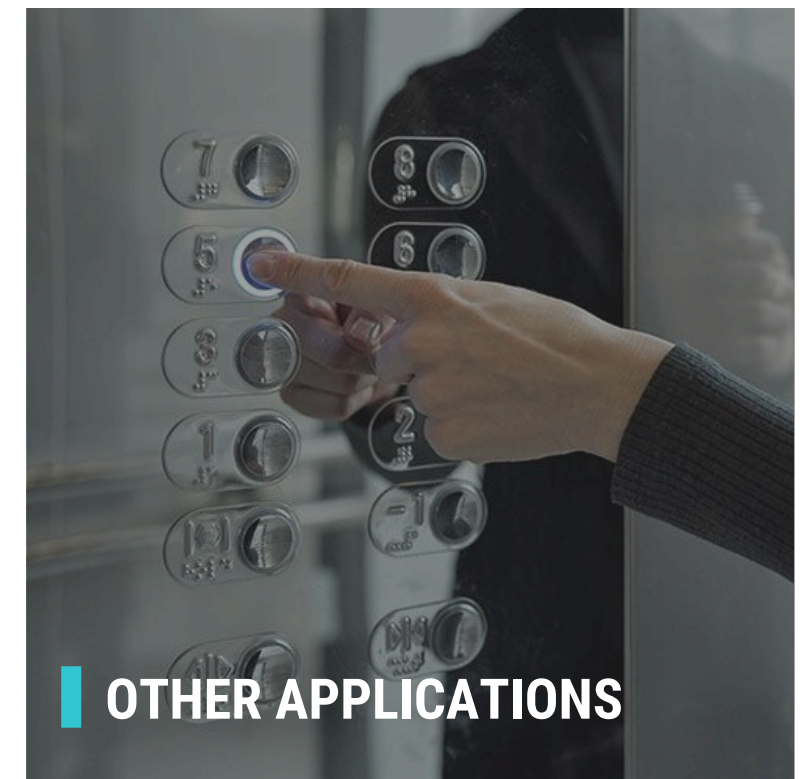
ACCESS CONTROL



HANDLES, KNOBS & PULLS



FITTINGS & HINGES



OTHER APPLICATIONS

ZAMAK PARTS FOR AUTOMOTIVE

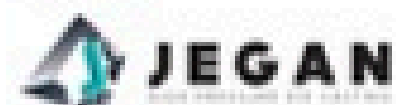
PIEZAS ZAMAK PARA AUTOMOCIÓN



Advantages of High-Pressure Die Casting in the automotive industry / Ventajas del zamak en el sector de la automoción

- **Precision and high degree of accuracy:** ensuring that each part meets quality, functionality and safety standards.
 - **High capacity for large batch production and flexibility in finishing:** ideal for large batch production and flexible finishing of automotive parts. It offers customizable products with aesthetic appeal that can adapt to market demands.
 - **Complex geometries and efficiency for small parts:** suitable for highly detailed components in the automotive sector.
 - **Durability and tensile strength:** able to operate efficiently under different conditions, such as fluctuations in temperature or humidity.
- **Precisión y alto grado de exactitud:** con lo cual, se garantiza que cada pieza cumpla con los estándares de calidad, funcionalidad y seguridad.
 - **Alta capacidad para producción de grandes lotes y flexibilidad en acabados:** perfecto para amplia gama de piezas en el sector automotriz; ofrece productos con un atractivo estético y personalización adaptable a las exigencias del mercado.
 - **Geometrías complejas y eficacia para piezas pequeñas:** se trata de un material adecuado para componentes con alto nivel de detalles en el sector automoción.
 - **Durabilidad y resistencia a la tracción:** capaz de operar de forma eficiente bajo diferentes condiciones, como fluctuaciones en la temperatura o la humedad.

Why Zamak? ¿Por qué Zamak?	Zinc Alloys Zamak y aleaciones de Zinc	Aluminium Aluminio	Magnesium Magnesio
Mould life (injection cycles) Vida útil del molde	1.000.000	200.000	300.000
Production (injections/hours) Producción (inyecciones/hora)	250	90	120
Tensile strength (N/mm ²) Resistencia a la tracción	330	200	300



MANUFACTURING AND FINISHING ON REFRIGERATOR PARTS



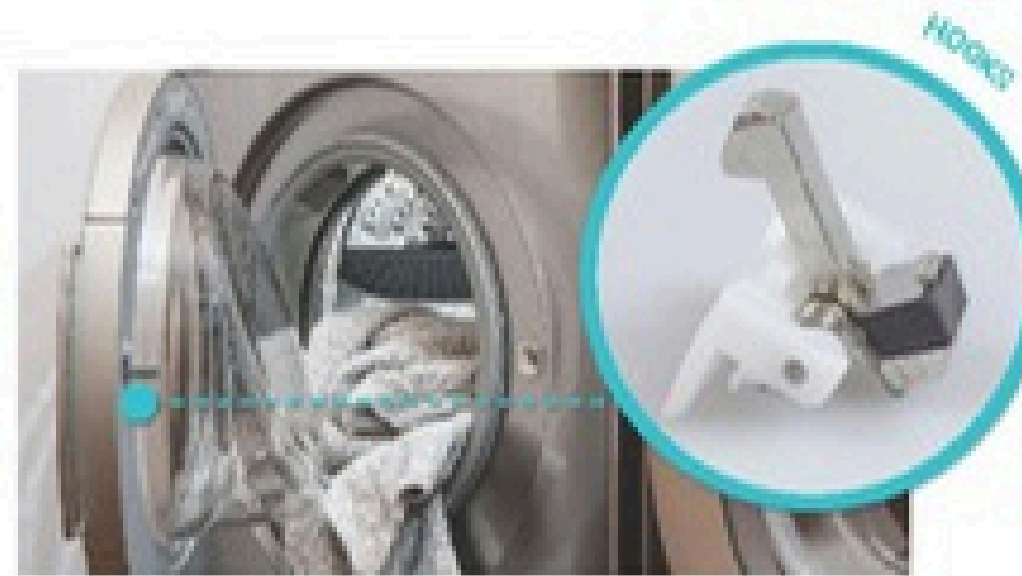
Why in zamak?

Zamak is a material that has excellent wear resistance, so it lasts longer and does not require frequent replacement, saving on disposal and processing.

A part made of zamak, which is coated or chrome-plated, stands out from the rest of the body of the appliance as a valuable highlight.

Also from a tactile point of view, a metal functional element conveys feelings of greater reliability and resistance compared to the same component made of plastic or other metal.

MANUFACTURING AND FINISHING OF WASHING MACHINE PARTS



Engineering

Mold

Zamak Die Casting

Second operations

Shot blasting - Sanding - Vibrating - Polishing

Treatment

Zinc finishing - Chrome plating - Painting - PVD

Quality Control

Why in zamak?

The high fluidity and low melting point of zamak allows the **manufacture of products with minimum tolerances and complex shapes** that are difficult or impossible to achieve with other alloys.

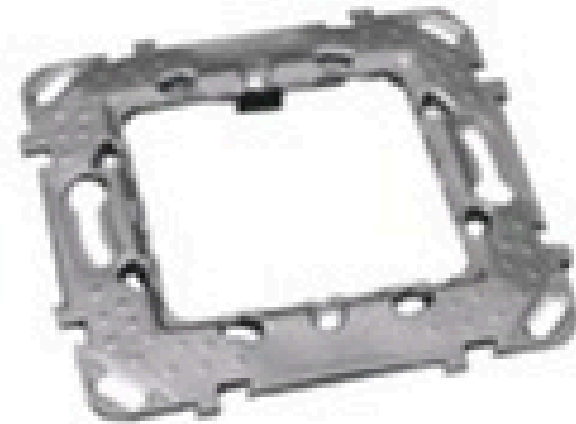
In addition, zamak's **high damping capacity and vibration attenuation** make it a particularly suitable alloy for use in washing machine controls, ring, hooks and hinges.



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ZAMAK PARTS FOR LIGHTING

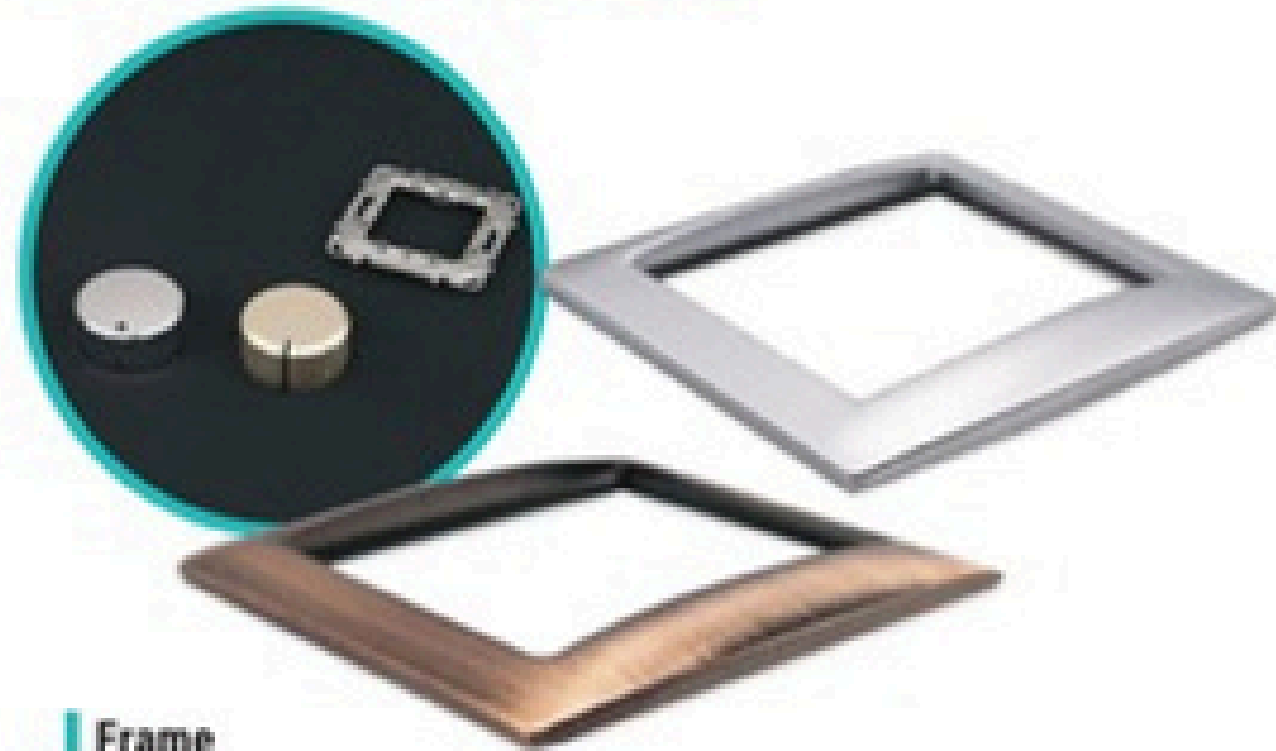
PIEZAS ZAMAK PARA ILUMINACIÓN



PRODUCTS / PRODUCTOS

- Supports and Bases
 - Embellishments
 - Spotlights
 - Ball Joints and Joints
 - Bulb Housings
 - Heat Sinks
 - Electrical Connectors and Terminals
 - Frames and Profiles
 - Internal Accessories
 - Mounting Parts
 - Tilting Recessed/ Ceiling Fixtures
- Soportes y Bases
 - Embellecedores
 - Focos
 - Rótulas y Articulaciones
 - Carcasas para Bombillas
 - Disipadores de Calor
 - Conectores y Terminales Eléctricos
 - Marcos y Perfiles
 - Accesorios Internos
 - Piezas de Montaje
 - Empotrables basculantes/ Plafón

SOLUTIONS FOR LIGHTING & ELECTRONIC



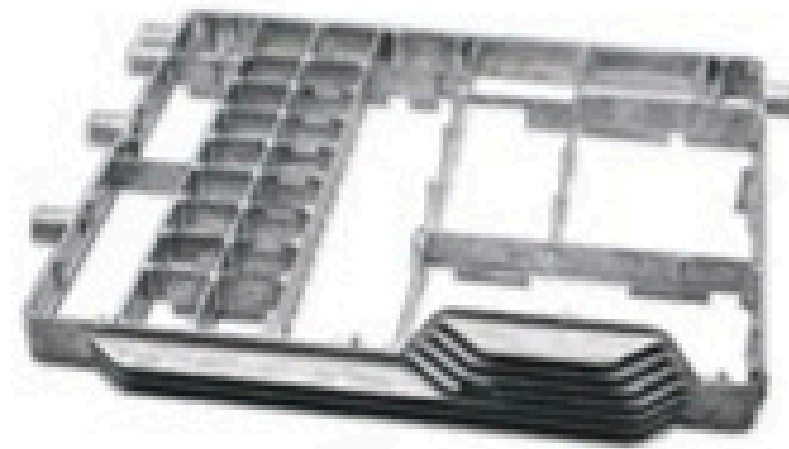
Frame

Different finishing: These injected parts for the electrical sector have 3 levels of finishing: raw, polished and coated.

All in our own facilities



Ceiling light



Electromagnetic compatibility

Thanks to its electromagnetic compatibility properties and the possibility of achieving very thin thicknesses, zamak is ideal for electronics.

The main application in this sector is in high frequency, where zamak is key compared to plastic.



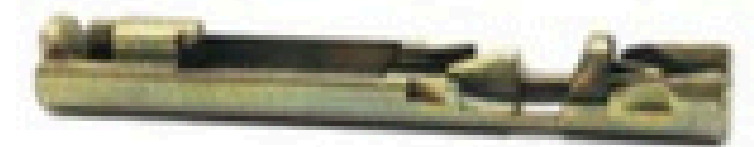
Zamak Chassis

Different chassis, with male threads obtained directly from die casting.



Applications

- Alarm
- Electrical cabinet
- Housing - Trigger connectors
- Electrical junction box housing
- Solenoid valve
- Heat sink for lead headlights
- Trims
- Spotlights



Cable Guide

Zinc plating

ZAMAK PARTS FOR FITTINGS & HINGES

PIEZAS ZAMAK PARA HERRAJES



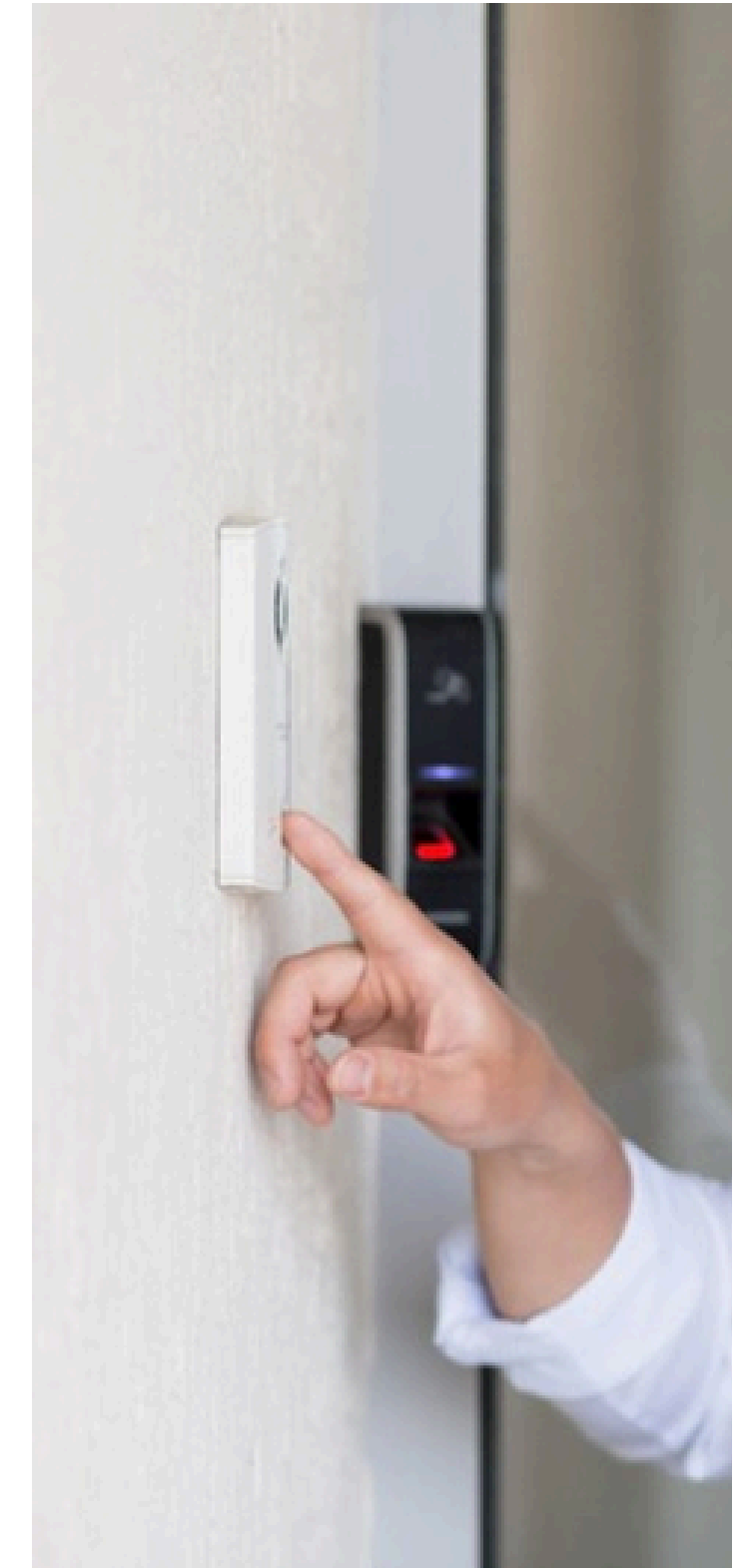
PRODUCTS / PRODUCTOS

- Hinges
- Latches
- Crutches
- Door lock
- Knobs and handles
- Fixing pins
- Brackets
- Reinforcing brackets
- Sliding guides
- Handles
- Hinge stops
- Edge fittings or corner fittings
- Bisagras y pernios
- Picaportes
- Muletillas
- Condena
- Manillas, pomos, manetas
- Pestillos
- Pasadores de fijación
- Bisagras
- Escuadras
- Ángulos de refuerzo
- Guías correderas
- Tiradores - Manillas
- Bisagras abatibles y fijas
- Manetas
- Topes bisagra
- Herrajes de canto o cantoneras

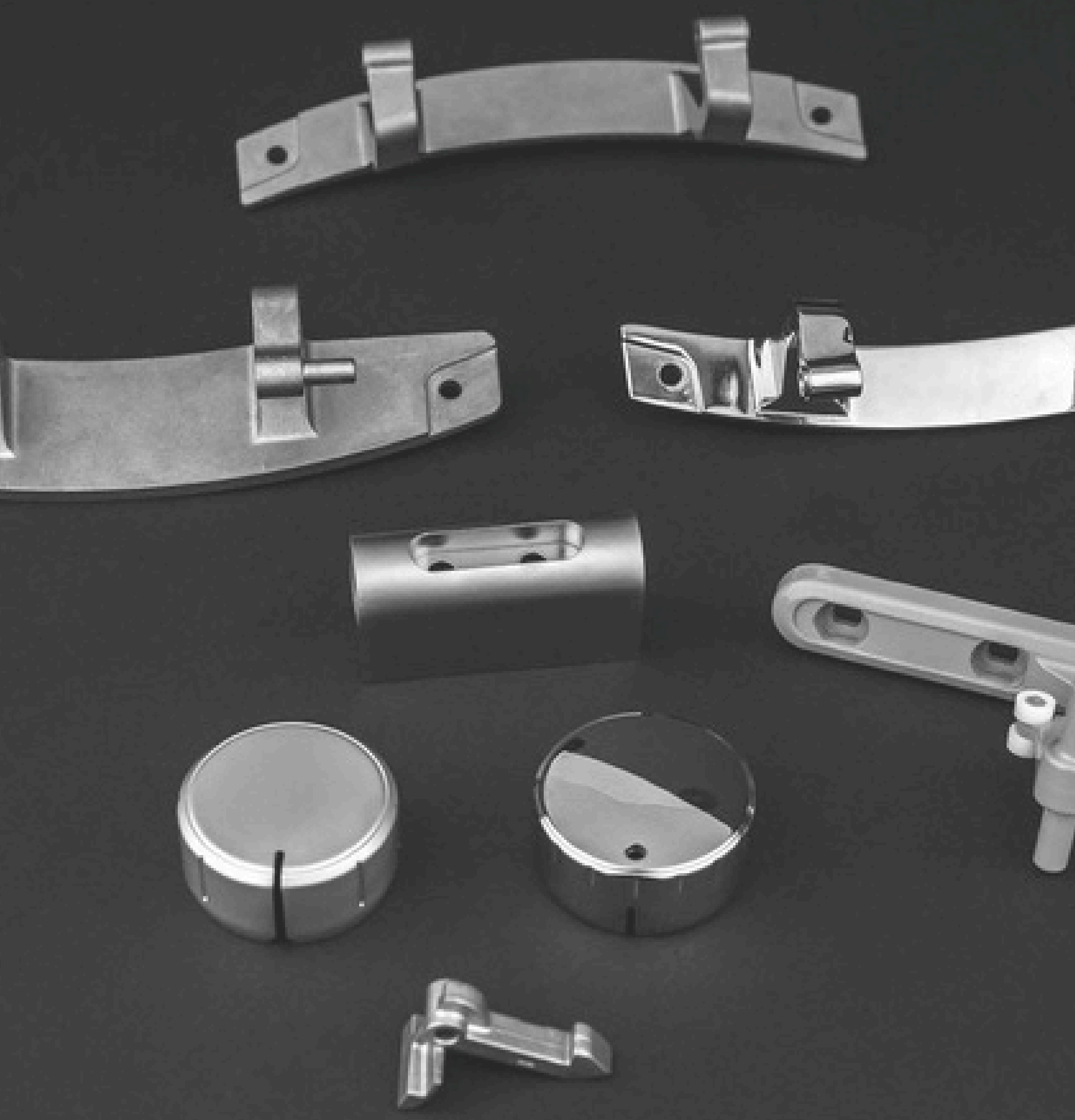
ZAMAK PARTS FOR ACCESS CONTROL

PIEZAS ZAMAK PARA CONTROL DE ACCESOS

ACCESS CONTROL




Vídeo 





Contact

Die casting facility

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Coating facility

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 JEGAN SAL

 [Jegan Zamak High Pressure Die Casting](#)