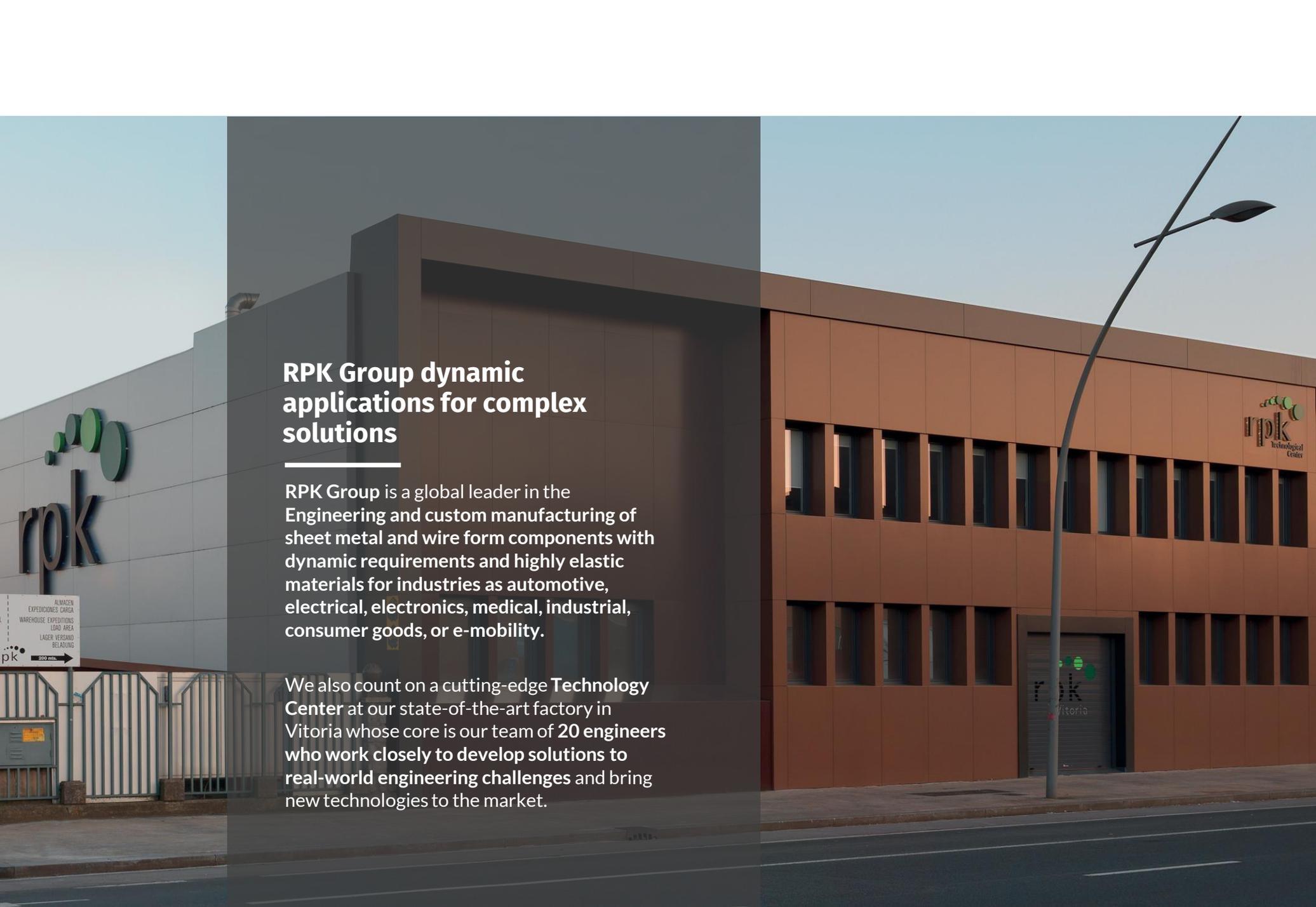




rpk

PRECISION
STAMPING &
BENDING

The image shows a modern industrial building with a grey and brown facade. The RPK logo is visible on the left side of the building. A dark grey semi-transparent box is overlaid on the left side of the image, containing text. A street lamp is visible on the right side of the building.

RPK Group dynamic applications for complex solutions

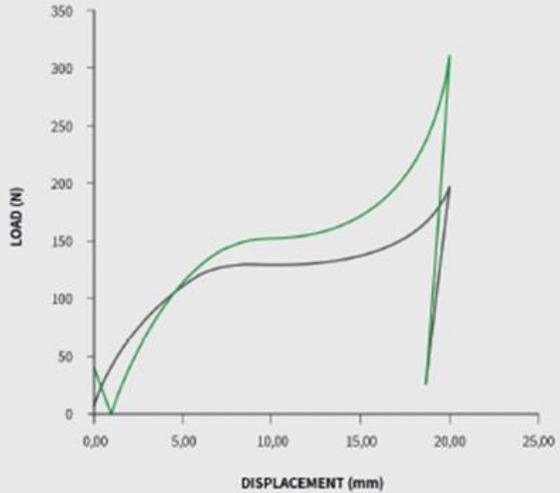
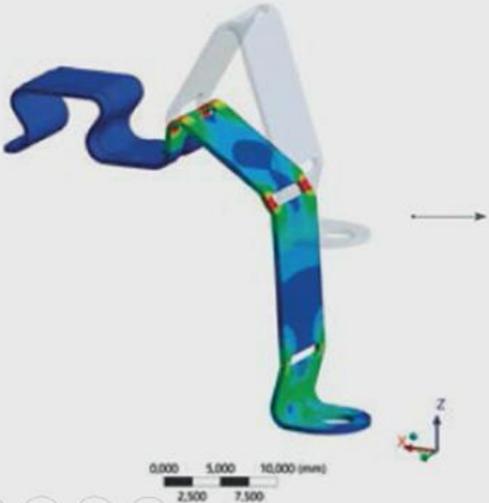
RPK Group is a global leader in the Engineering and custom manufacturing of sheet metal and wire form components with dynamic requirements and highly elastic materials for industries as automotive, electrical, electronics, medical, industrial, consumer goods, or e-mobility.

We also count on a cutting-edge **Technology Center** at our state-of-the-art factory in Vitoria whose core is our team of **20 engineers** who work closely to develop solutions to real-world engineering challenges and bring new technologies to the market.

WHAT DO WE DO?



Our expertise and know-how in spring manufacturing give us an advantage in providing **stamping and bending solutions that meet dynamic requirements**. We collaborate **with customer engineers to develop** new products that meet the most demanding industry requirements.



Hysteresis between the loading and unloading cycle in a flat spring



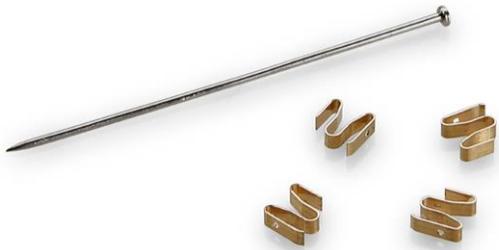
SHEET METAL

STAMPING AND BENDING



We are specialized in highly complex parts, with dynamic components, fully customized in both medium and long batches, using Multi-Slide machines and Bihler machines with tools designed and developed 100% by RPK engineers for each client and product.





PRECISION STAMPING

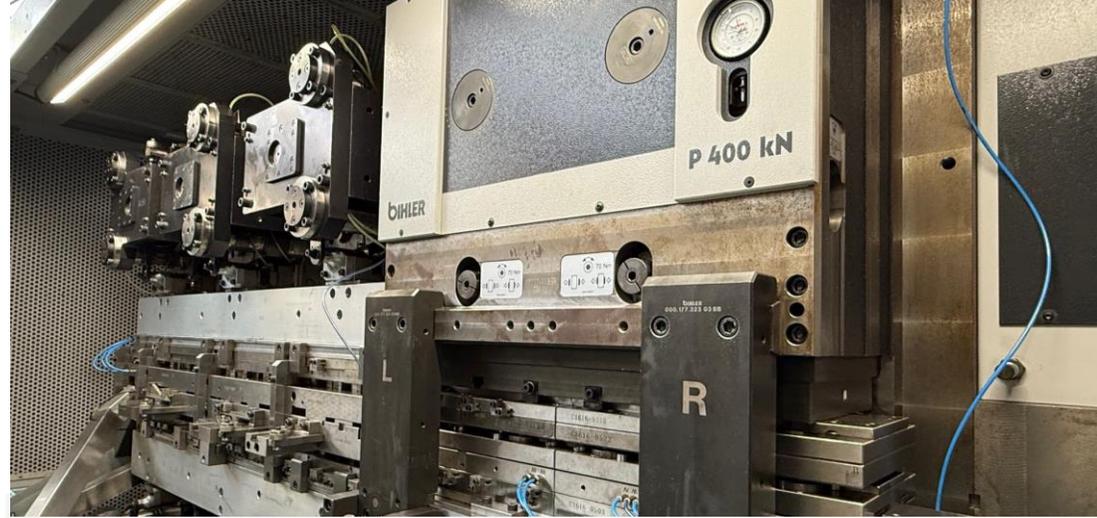


Stamping is another of our areas of expertise. We design and produce **unique, high-precision parts** using high-speed presses with unique tooling designed for each part number.





HOW DO WE DO?



Engineering, design, planning, and product development

Our engineers collaborate with our customers to provide the best solution for them, applying the scientific method and knowledge accumulated over more than 50 years.

- Engineering
- Product design
- Prototyping
- Tooling development
- Research of processes and materials
- Design and development of special machinery
- Cost optimization

We use Finite Element Method (FEM) calculation that improves the modeling process when we work with complex geometrical and irregular shapes and allows us to save time and money.

Materials

The choice of the right material, surface treatment, and coating is critical to the product's final quality. Standard materials like steel and copper can be used, as can high-hardness stainless steels and pre-tempered materials, which prevent secondary processes and provide greater control of the production process and security.

Machine development

In RPK Group, we use state-of-the-art technologies for all our manufacturing processes, from multi-slide Bihler machines to high-speed presses, as well as for our R&D projects, testing, control, and quality inspection (with machine-integrated vision control technology for quality control), deburring, cleaning, oiling, or packaging solutions. We also have an in-house machine and tooling workshop providing flexible solutions for our customers' needs.

- Strip thickness: 0.10 - 2.50 mm.
- Strip width: 1 - 140 mm.
- Stamping presswork: 100 tonne max.
- Multislide presswork: 80 tonne max. .



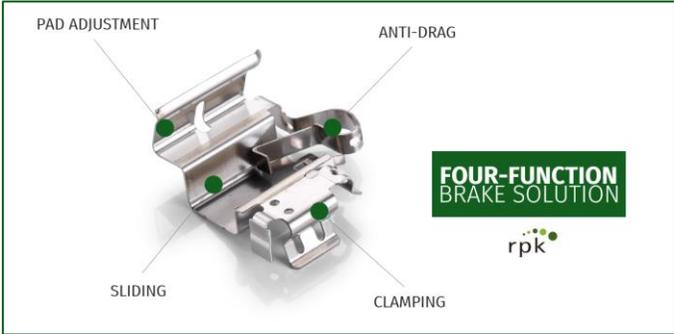
Key processes.

- Deburring
- Ultrasonic cleaning
- Cooling & Oiling
- Heat treatments
- Special coatings
- Overmolding & Assembling
- Custom packaging solutions, clean rooms included
- Surface and in-depth residual stress profile by x-ray diffraction
- Microhardness test
- Resistance to humidity by climatic chamber
- Microstructural characterization
- Machine-integrated vision control technology (100% unitary control)
- Product testing control: environment test (from -40°C to 180°C), fatigue test, relaxation test, cleanliness test and dynamic test
- Laser welding



CASE STUDIES

Quad Clip Challenge, a reverse engineering success in brake system innovation



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Engineering and Industrialization of Optimized Contact Spring Design for Automotive Lighting



[CLICK HERE TO READ MORE](#)

Enhancing the Welding of Flexible Copper Busbars with BrightLine Laser Technology



[CLICK HERE TO READ MORE](#)

INDUSTRIES



AUTOMOTIVE



MEDICAL



INDUSTRIAL



ELECTRICAL



E-MOBILITY



ELECTRONICS

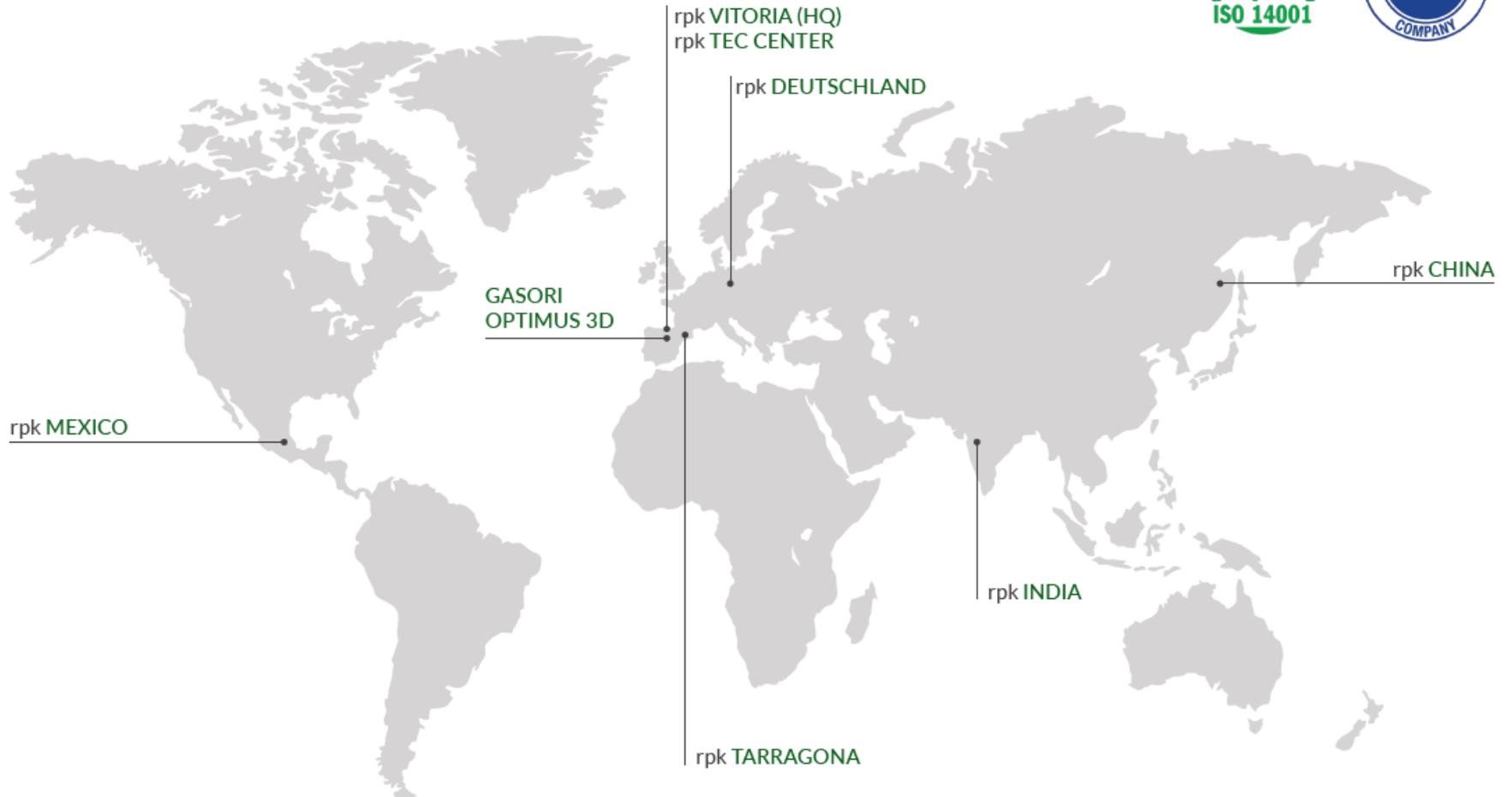


CONSUMER
GOODS



WORLDWIDE OPERATIONS

RPK Group is certified according to the following standards of quality:





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