

rpk  
POWERTRAIN  
SOLUTIONS



## Forefront solutions for innovative applications

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RPK Group is a global leader in the engineering and custom manufacture of highly complex components, springs and stamping with a local presence in the main automotive, e-mobility, electric, industrial and medical markets.

ALMACEN  
EXPEDICIONES CARGA  
WAREHOUSE EXPEDITIONS  
LOAD AREA  
LAGER VERSAND  
BELADUNG  
200 mts. →

rpk  
Technological  
Center

rpk  
Victoria



# WORLDWIDE OPERATIONS





ORIGINAL POWERTRAIN  
APPLICATIONS

# ORIGINAL POWERTRAIN APPLICATIONS

EGR, TURBO, GASOLINE INJECTORS, ROLLER FOLLOWER FINGER (RFF), DIESEL & GASOLINE PUMPS, TWO STEP VALVE (TSV), VARIABLE CAM TIMING (VCT)(VCP), ELECTRONIC THROTTLE CONTROL (ETC, ETB) MODULAR FUEL UNIT



# FUEL DELIVERY

## DIESEL PUMP



- Plunger Spring
- Tappet Spring
- Inlet Valve Spring
- Outlet Valve Spring
- Press Relieve Valve Spring



## GDI GASOLINE PUMP



- Plunger Spring
- Inlet Valve Spring
- Outlet Valve Spring
- Press Relieve Valve Spring
- Spacers



## GDI GASOLINE INJECTOR



- Armature Spring
- Core Spring

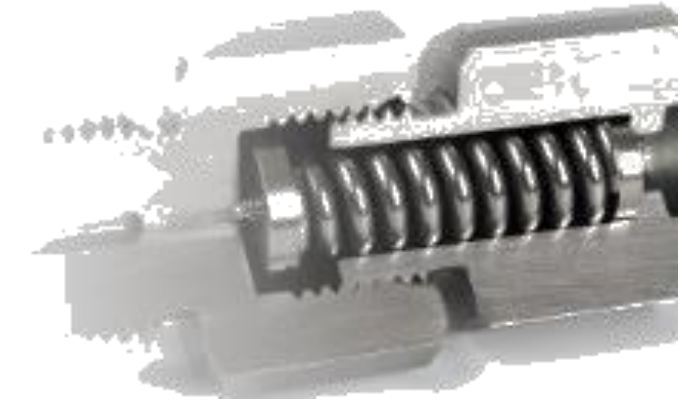


# FUEL DELIVERY

## COMMON RAIL



- Press Relieve Valve Spring



## FUEL MODULE



- Fuel Sender Arm
- Clip
- Spring

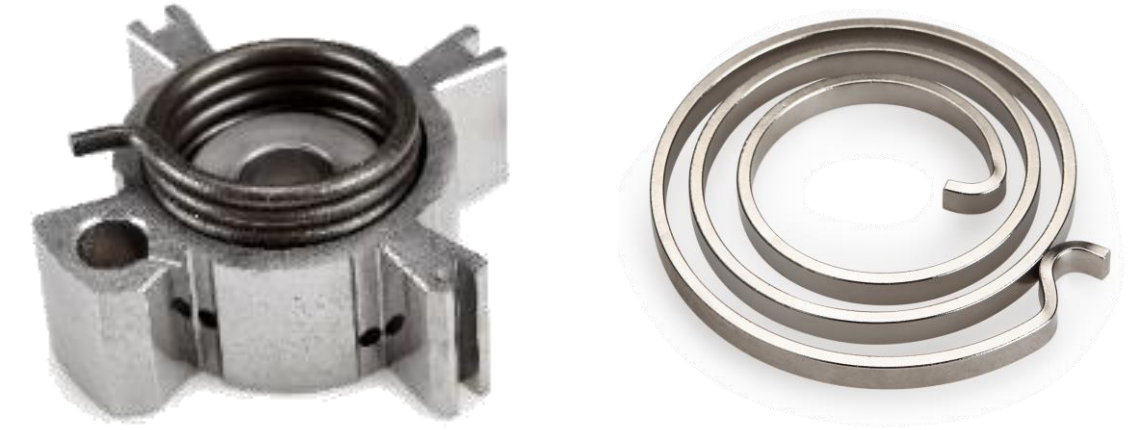


# VARIABLE VALVE & CAM TIMING

## CAM PHASER



- Spiral Spring
- Torsion Spring
- Spring Lock Pin
- Spring Check Valve
- Spring Bypass
- Spring Diverter



## OCV VALVE



- OCV Spring



## CYLINDER DISCONNECTION



- Torsion Spring
- Pin Spring





# VARIABLE VALVE & CAM TIMING

VARIABLE VALVE  
OPENING



- Press Relieve Valve Spring



ROLLER FINGER



- Fuel Sender Arm
- Clip
- Spring



# THERMAL

## EGR VALVE



- Torsion Spring
- Compression Spring
- Spiral Spring



## TURBO ACTUATOR

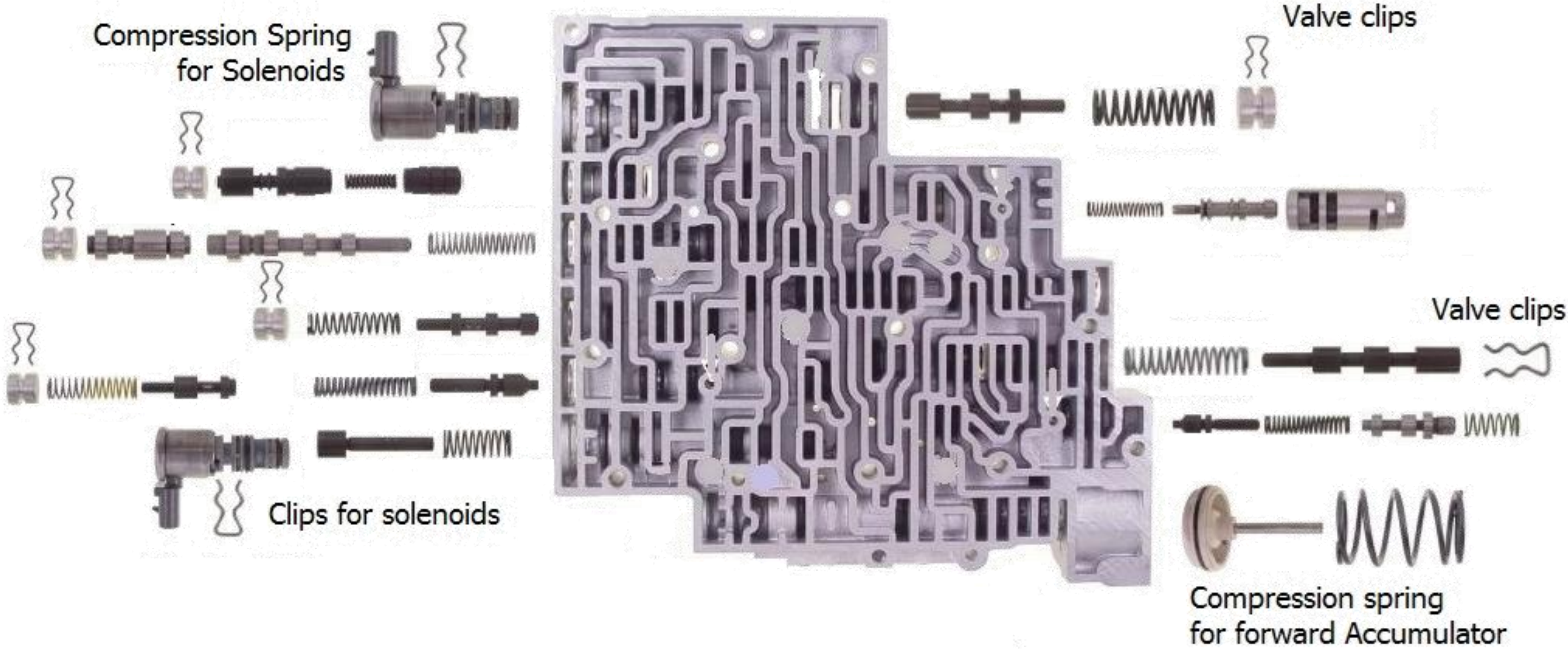


- Compression Spring
- Wave Spring



# TRANSMISSION

## AUTOMATIC GEARBOX VALVE BOX



# IGNITION

## IGNITION COIL



- Compression Spring





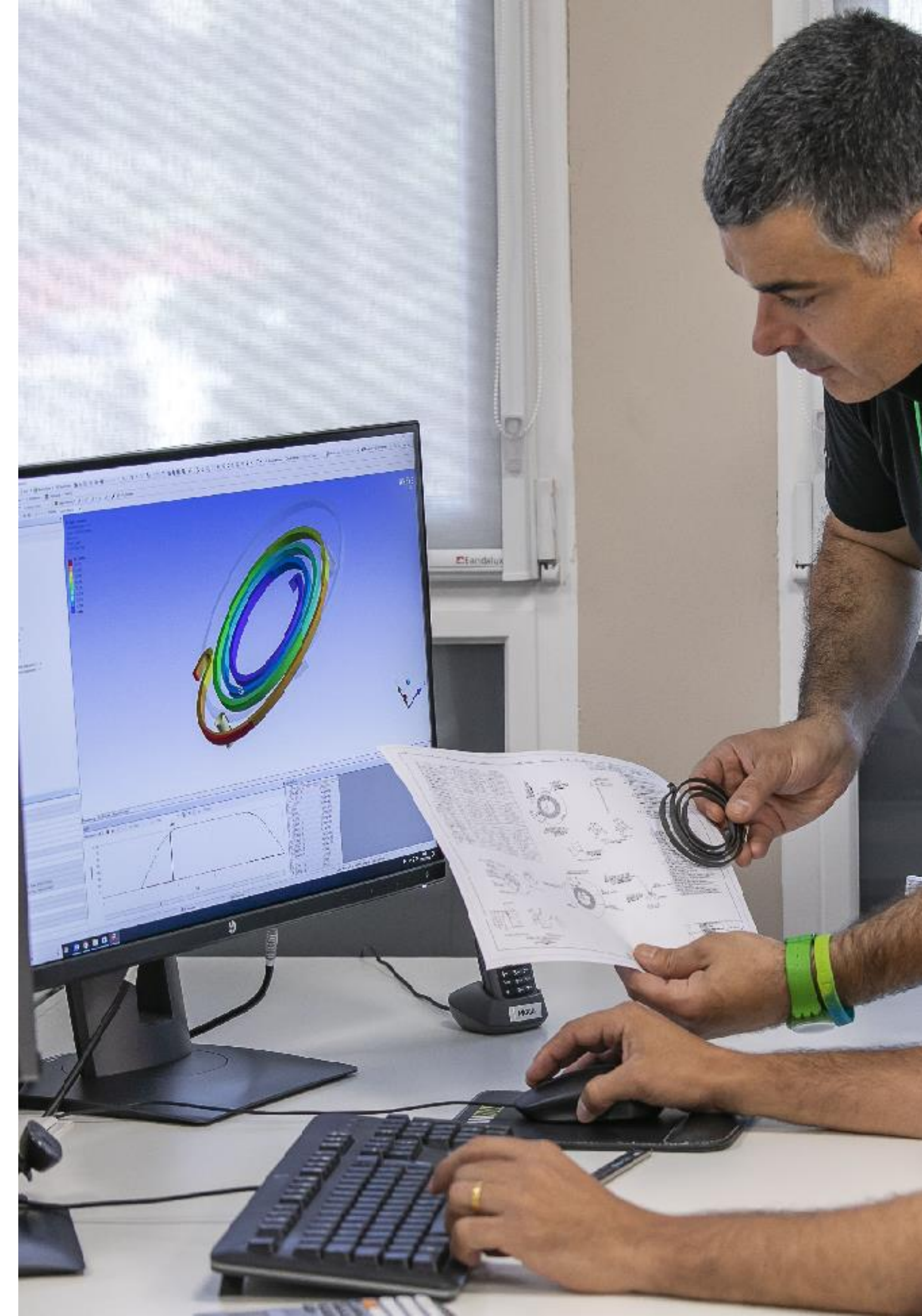
HOW DO WE DO IT?

# HOW DO WE DO IT?

## ENGINEERING, DESIGN, PLANNING AND PRODUCT DEVELOPMENT

Our engineers work alongside our customers to provide the best solution for them, applying scientific methods and knowledge accumulated over almost 50 years.

- Engineering
- Product design
- FEM/FEA Analysis with ANSYS
- Prototyping
- Tooling development
- Research of processes and materials
- Design and development of special machinery
- Cost optimization



# HOW DO WE DO IT?

## KEY PROCESSES

- FEM/FEA Analysis
- Clean rooms in Europe, North America and China
- Ultrasonic cleaning
- Environment cleaning
- Custom packaging solutions in clean room such as Tape and Reel Packing
- Machine-integrated vision control technology (100% unitary control) and electric resistance
- Plastic assemblies
- Overmolding, Epoxy and Polyamid solutions
- Laser Welding
- Plating, special coatings & surface treatments
- Hardware insertions
- Deburring
- Grinding
- Cold & hot presetting
- Shoot peening & vibrating



# RPK TECHNOLOGICAL CENTER

PASSION FOR ENGINEERING

Our cutting-edge **Technology Center** at our state-of-the-art factory in Vitoria-Gasteiz is home to our team of **20 engineers**, who work closely to develop solutions to real-world engineering challenges and bring new technologies to the market.

All the **knowledge** generated at the RPK Technological Center is shared in **real-time** with our engineering teams around the world, and vice versa.

**WE'RE CLOSE TO YOU BUT HAVE THE REACH AND CAPABILITIES OF A GLOBAL LEADER**

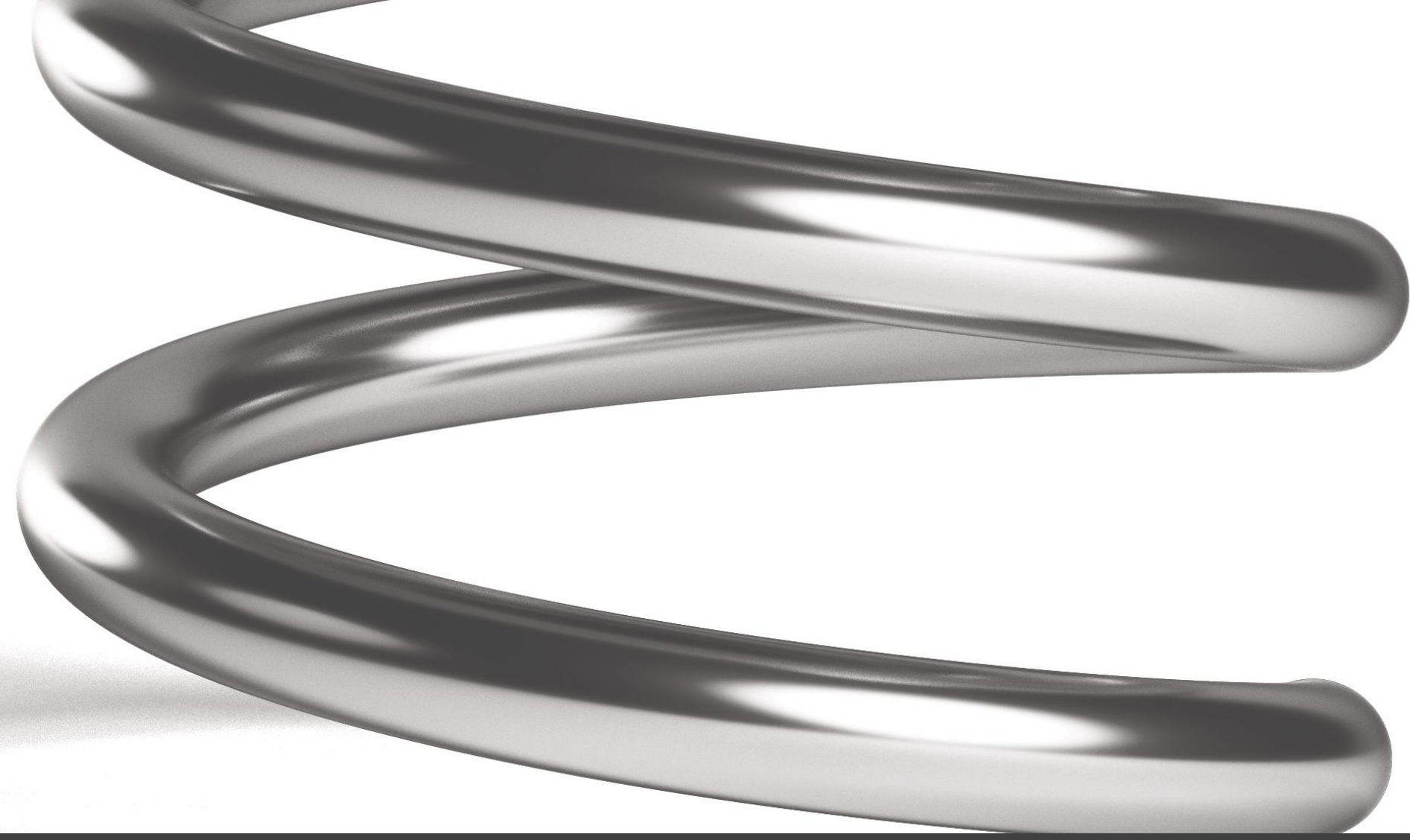






# OUR ENGINEERS WILL SUPPORT YOU IN PASSION FOR ENGINEERING

- **Creating, designing, and developing unique components** from scratch or **improving the performance** or characteristics of an existing part
- **Guiding you through the design and manufacture stages**, providing advice on processes and materials, to achieve an optimal, custom solution
- **Developing in-house machines and tooling, packing, and vision control specifically for your components**



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