

WE ARE

 **SCHERDEL**

# THE COMPANY FACTS & FIGURES



**Headquarters** Marktredwitz

## PRODUCTION SITES

22x GERMANY

### EUROPE:

Czech Republic Bor  
France L'Arbresle, Beauvais  
Portugal S.J. da Madeira  
Slovakia Myjava

### AMERICAS:

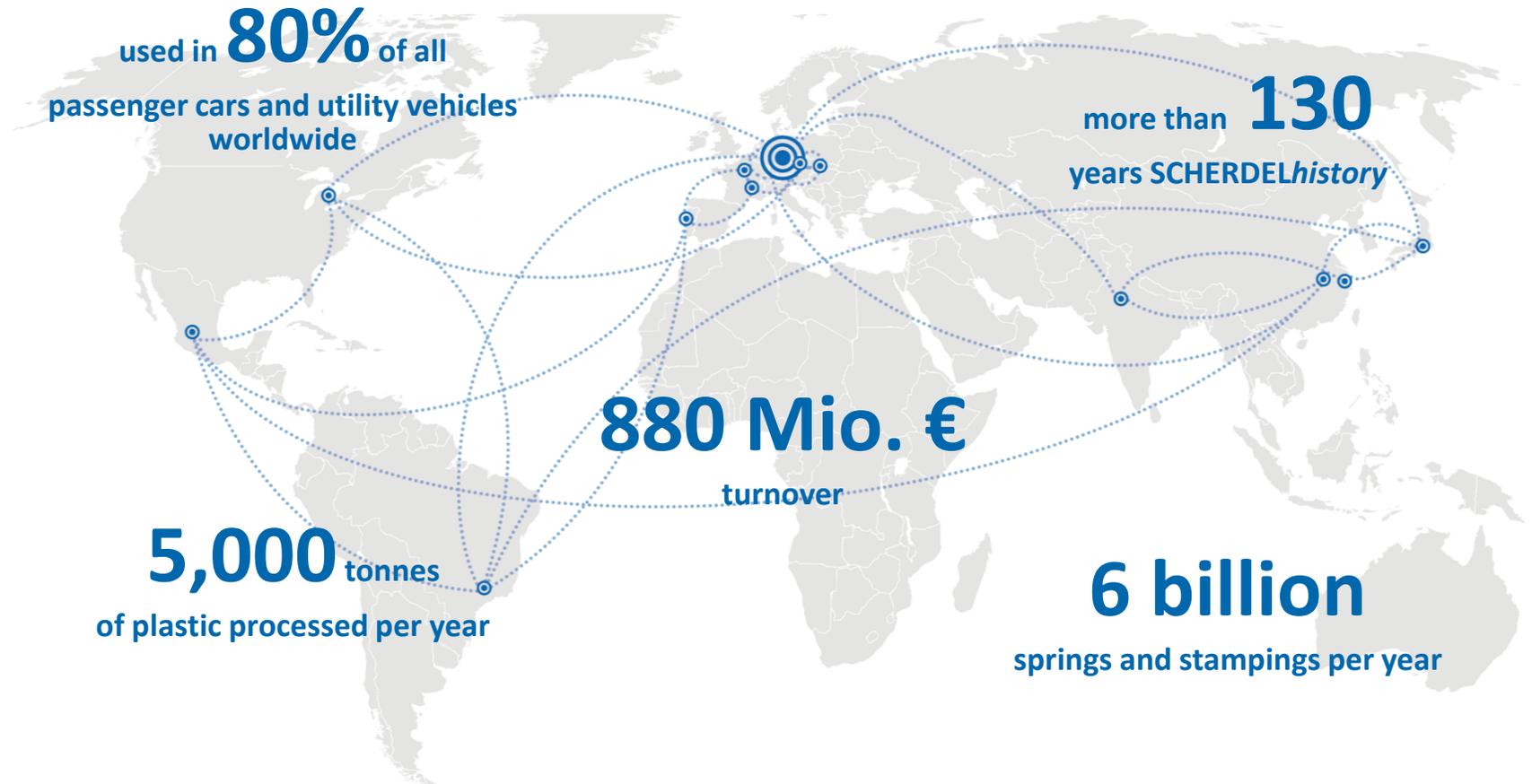
Brazil Sorocaba  
Mexico San José Iturbide, Silao  
USA Muskegon

### ASIA:

China Huzhou, Anqing  
India Jaipur  
Japan Nagoya

### SALES OFFICES:

Germany, UK, Poland, Türkiye, Hungary/Romania,  
Spain, Sweden, Korea



**11** 

countries

**35** 

locations

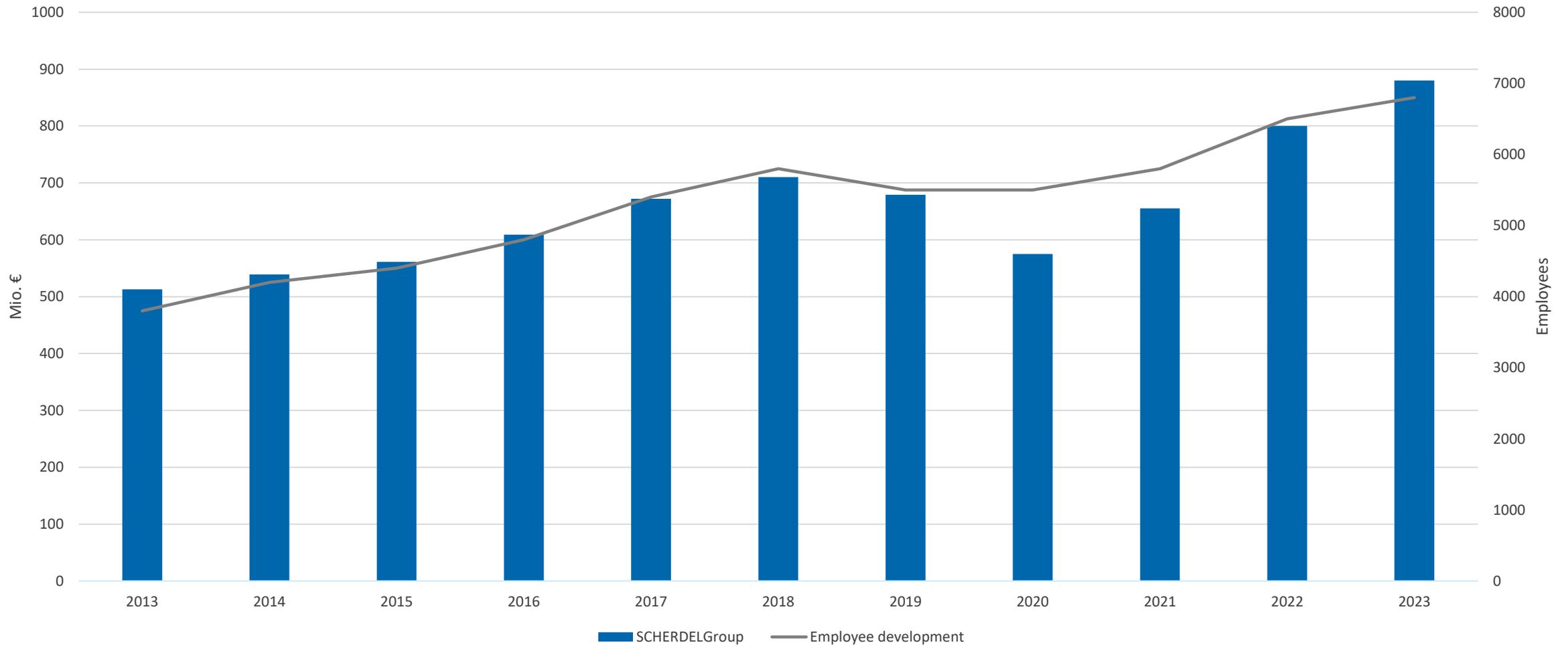
**45** 

production plants

**6,800** 

employees

# THE COMPANY FACTS & FIGURES



# THE COMPANY HISTORY

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## **1890 - FOUNDING OF THE SCHERDEL & WEISS WIRE DRAWING MILL:**

In Marktredwitz with piano strings as the first product. Until today SCHERDEL is family-owned.

## **1936 – INTRODUCTION OF SHOT PEENING:**

SCHERDEL introduces a process for the surface compaction of spring parts, shot peening, which had not previously been used in Europe.

## **1986 - EXPANSION INTO NEW MARKETS:**

From 1986 to 1999 SCHERDEL expanded its global footprint into various markets. (Spain, France, Portugal, USA, Brazil, Mexico)

## **2005 – VENTURE INTO OTHER MARKETS:**

Markets like medical technology and e-Mobility are successfully developed.

**WE PRODUCED OUR FIRST SPRINGS WHEN THE EIFFEL TOWER WAS  
CONSTRUCTED.**



# THE COMPANY HISTORY

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## **2007 - INAUGURATION OF RESEARCH AND DEVELOPMENT CENTER:**

More than 100 specialists are working at the Walter Bach Research and Development Center contributing in the fields of:  
numerical simulation, product and process development, application specialists

## **2016 - FURTHER PLANT IN ASIA:**

A further location in China (Huzhou) starts production.

## **2019 - ENSURING THE FUTURE OF SKILLED EMPLOYEES:**

Groundbreaking for the central company-based training centre at the Marktredwitz location to ensure highly qualified employees

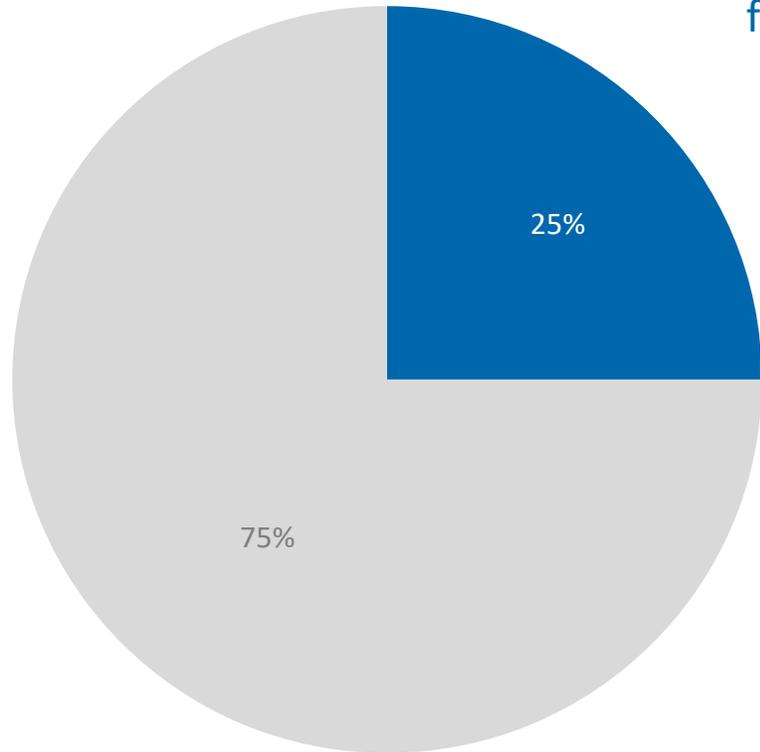
## **2022 - EXPANSION OF PLASTICS COMPETENCE :**

Wiesauplast becomes part of the SCHERDELGroup, and enhances the competence portfolio with high-tech plastic systems.

**PEOPLE ARE IN THE CENTER OF EVERYTHING WE DO**



## THE COMPANY GREEN FOOTPRINT



Material is responsible for approx. 75% of the SCHERDEL product carbon footprint

■ Emissions produced by SCHERDEL ■ Emissions produced by Suppliers



# THE COMPANY

## GREEN FOOTPRINT – 40% BY 2030

### RESOURCES

Careful use of resources, because avoiding emissions is the best way. This includes optimizations in our production processes, use of waste heat and much more.

### IN-HOUSE PRODUCTION

In-house green power generation is massively expanded. You can already observe this at some locations where photovoltaic systems are being built.

### GREEN ENERGY

Purchase of green electricity. The SCHERDELGroup also wants to contribute to the expansion of regenerative energy production on the market.

**THE SCHERDEL GROUP IS GOING  
TO REDUCE ITS EMISSIONS BY 40% BY 2030**



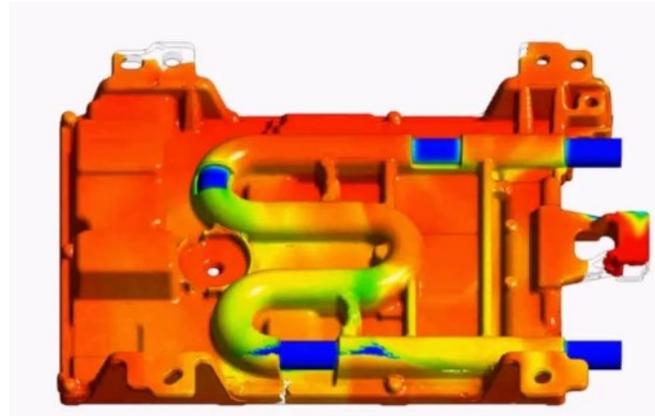
# A ONE-STOP SERVICE FROM DRAFT TO SERIES PRODUCTION



## MATERIAL AND SUPPLIER

### MANAGEMENT

- ✓ Sustainable and technologically advanced supplier network (over 700 suppliers)
- ✓ Best of global and local sourcing
- ✓ “From melt to spring” approach



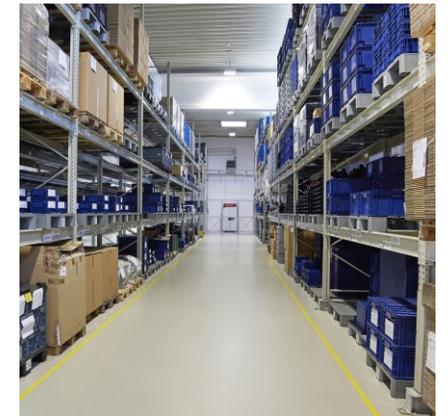
## RESEARCH AND DEVELOPMENT

- ✓ Material development
- ✓ Process development
- ✓ Product development
- ✓ Numerical simulation
- ✓ Measuring and testing
- ✓ Virtual and real prototyping



## PRODUCTION

- ✓ Full range of technical springs
- ✓ Metal forming
- ✓ Tool making, own machine and system construction
- ✓ High-Tech Plastic Systems



## LOGISTICS

- ✓ Tape and reel
- ✓ Solutions for cleanliness requirements
- ✓ Integral part of our quality assurance
- ✓ Global presence and supply chain transparency

# PORTFOLIO

HIGHLY SPECIALIZED IN EACH FIELD OF ACTIVITY

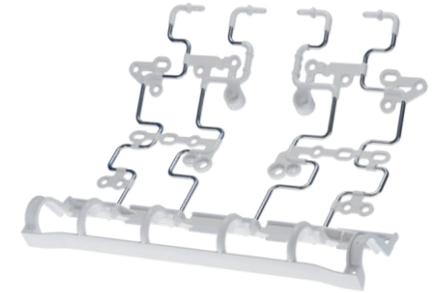
# PORTFOLIO

## ASSEMBLY AND JOINING TECHNOLOGIES



### ASSEMBLY TECHNOLOGY

- Spring assemblies
- Mechanisms
- Other assemblies



### WELDING COMPONENTS

- Seat frames
- Backrest frames
- Wire components
- Tubing components
- Single parts
- Other assemblies



### PLASTIC AND METAL COMBINATIONS

- Spring pads
- Other plastic and metal combinations

**12 PRODUCTION SITES WITH 110 MIO. PARTS PER YEAR**

# PORTFOLIO METAL FORMING



## PRODUCTS

- Spiral springs
- Wave springs
- Pipes
- Compression, Tension and Torsion Springs
- Seal ring springs
- Stamping and Bending Parts
- Fine blanking parts
- Wire bending parts
- Torsion springs
- Valve Springs
- Constant force springs
- Disc springs
- ...



**4.3 BILLION PARTS PRODUCED PER YEAR**

# PORTFOLIO

## HIGH-TECH PLASTIC SYSTEMS



### TECHNOLOGY:

- plastic injection molding
- various welding processes
- with / without membrane for venting
- 100% testing
- air-flow test
- overmolding / assembly of sleeves, etc.

### MATERIAL:

- pps / pa / pbt / pp
- glass fiber content up to 50%

### ADVANTAGES:

- cost reduction
- material saving
- reduction of co2 footprint
- process development incl. simulation and calculation

**5.000 TONS OF PLASTICS PROCESSED PER YEAR**



## PRETREATMENT

- Degreasing
- Blasting
- Zinc phosphating

## APPLICATION PROCESSES

- Immersion spinning in bulk and on racks
- Spray application automated & semi-automated

## COATINGS

- BaseCoat (e.g. Delta-Protekt KL 100, Delta-Protekt KL 120, Delta-Tone 9000)
- TopCoat (e.g. DELTA-SEAL, DELTA-SEAL GZ, DELTA-PROTEKT VH 301 GZ, DELTA-PROTEKT VT 600, Delta-Protekt VL 450)
- KTL coating (e.g. KTL Cathoguard 570)
- Flocking

**PLANTS WITH COATING CAPABILITIES IN GERMANY, MEXICO, CHINA AND  
CZECH REPUBLIC**



# PORTFOLIO MECHANICAL ENGINEERING

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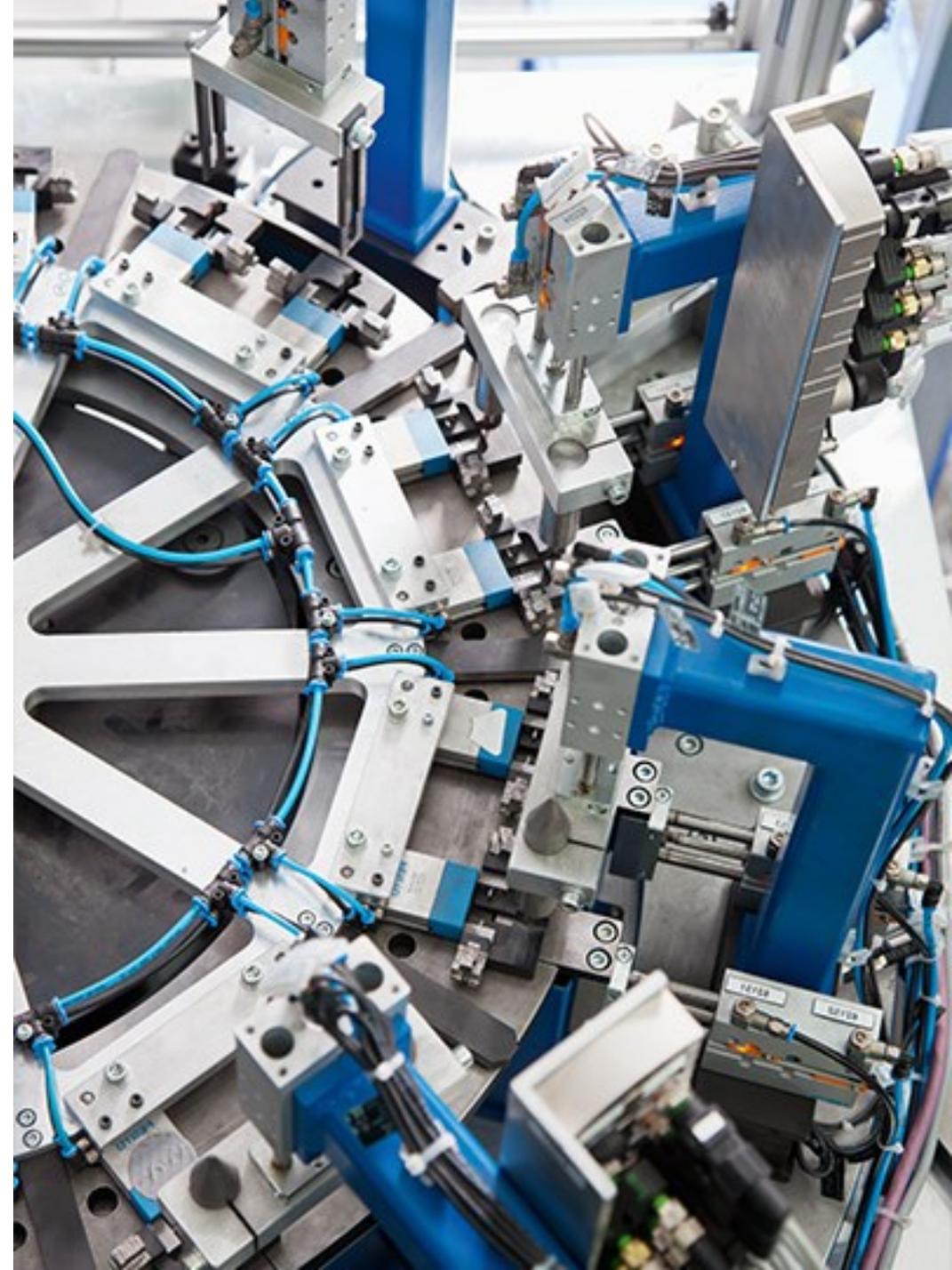
## GENERAL

- 50 years of experience
- Development, design, construction, process optimization and service
- Worldwide installations

## EXAMPLES OF OUR EXPERTISE

- Additive manufacturing systems
- Machining centers for high-precision workpiece production
- Automation and robotics
  - Profile joining technology
  - Assembly and finishing technologies
  - Special machines and assembly lines
  - Welding and assembly systems
  - Handling and testing technologies
  - Devices and gauges

**50 YEARS OF EXPERIENCE IN MECHANICAL ENGINEERING**



# PORTFOLIO SIMULATION

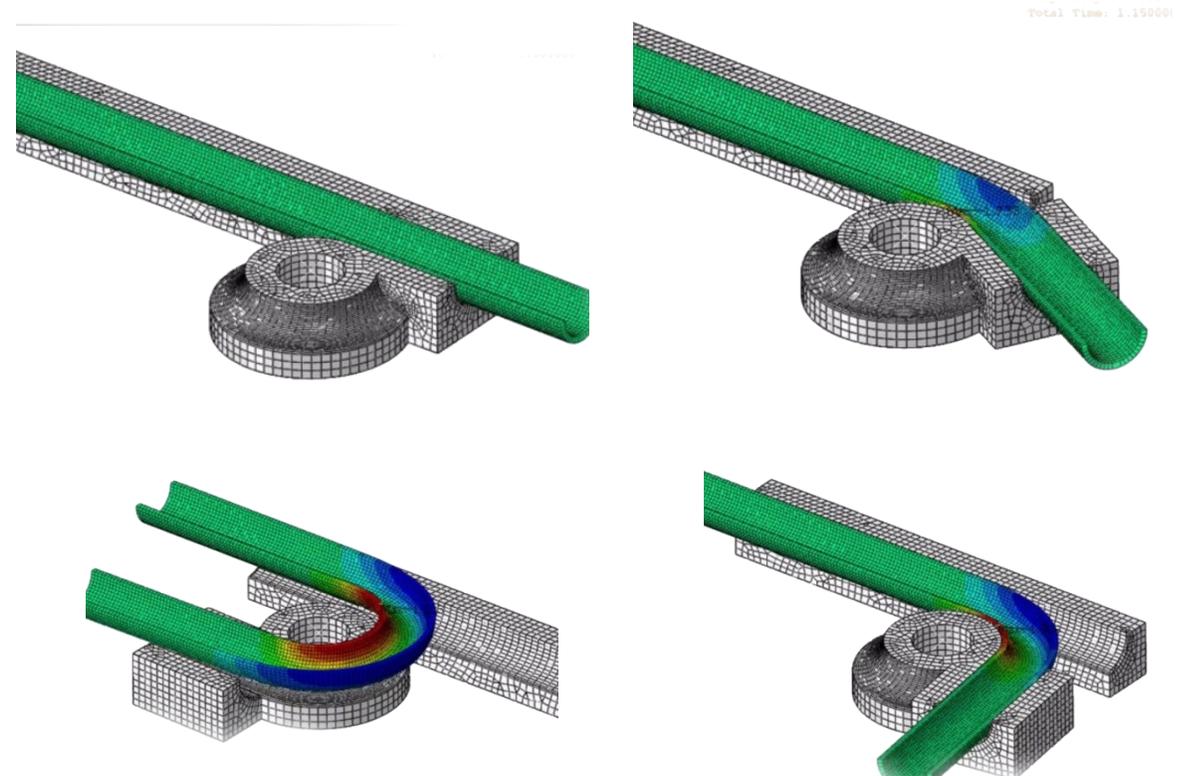
## RANGE OF SERVICES

- Thermal simulation
- Electrical simulation
- Mechanical simulation
- Welding simulation
- Forming simulation
- Fluid simulation
- Injection molding simulation
- Multiphysics

## FACTS

- First time right prototypes are reality
- Simulation speeds up development times
- Simulation is always faster than try and error with prototypes
- Simulation costs is an investment in fault prevention
- Coordinated use of simulation and testing is the fastest way to new products

## SIMULATION – AN INVESTMENT IN FAULT PREVENTION



# BUSINESS AREAS

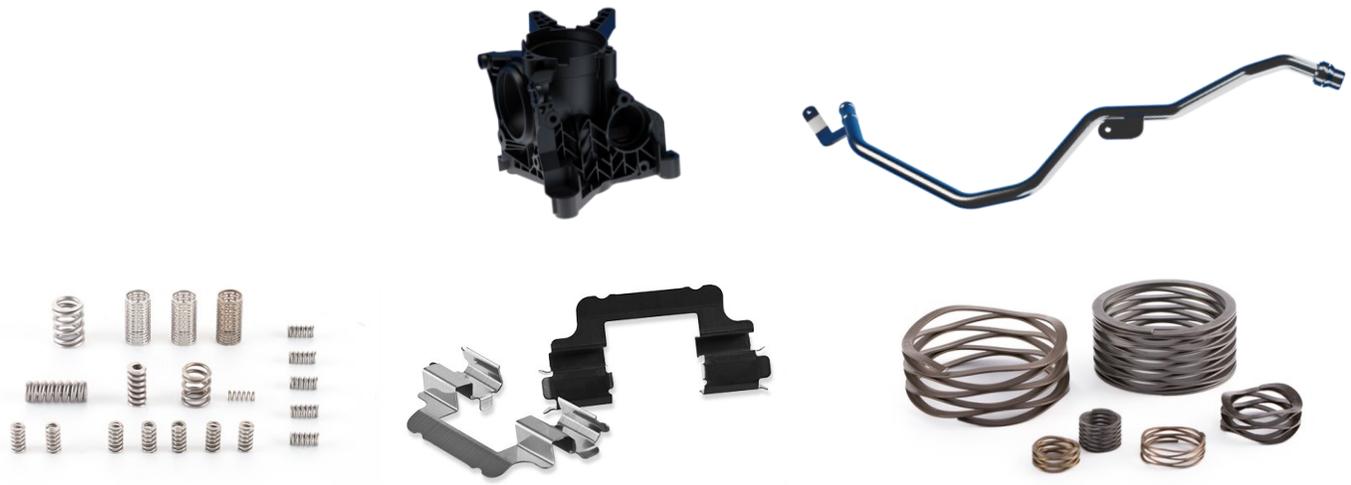
AUTOMOTIVE | MEDTEC | INDUSTRY

# THE BUSINESS AREAS

## AUTOMOTIVE

### APPLICATIONS

- Powertrain
  - Combustion Engine
  - E-Drive
  - Hydrogen Combustion Engine
- Chassis
- Body
- Interior



OVER 130 YEARS EXPERIENCE



# THE BUSINESS AREAS

## MEDTEC

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### APPLICATION

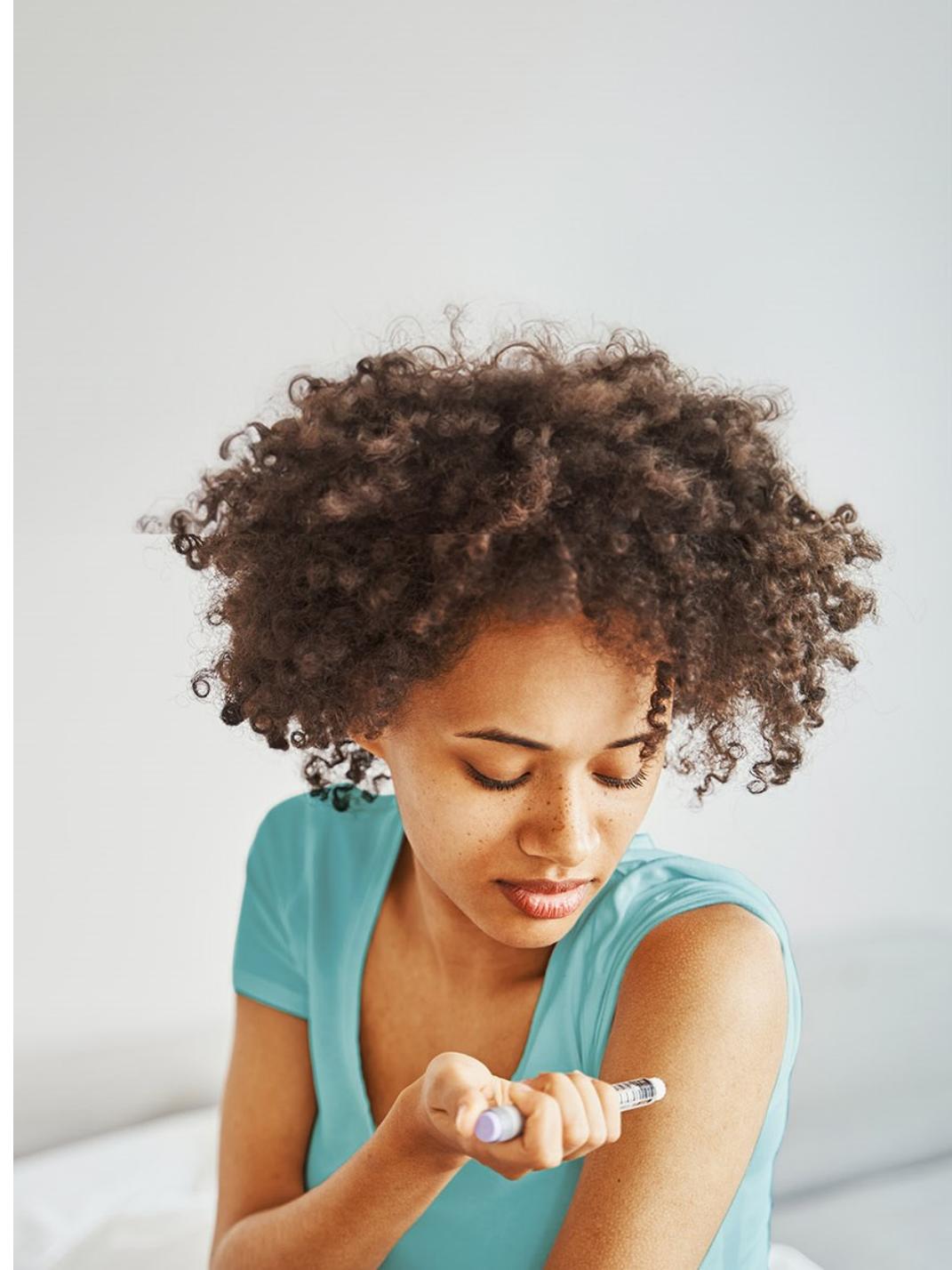
- Insulin pens
- Auto injectors
- Inhalators
- Safety syringes

### PRODUCTS

- Compression springs
- Spiral springs
- Stamping and bending parts
- Wave springs
- Torsion springs
- Wire bending parts



**1.1 BILLION PARTS PRODUCED PER YEAR**



# THE BUSINESS AREAS INDUSTRY

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## APPLICATION

- Furniture manufacturing (hinge systems, lift-up systems)
- White goods (dish washers, dryers)
- Sports and leisure industry
- Solar industry
- etc.

## PRODUCTS

- Torsion springs
- Compression springs
- Stamping and bending parts
- Hose clamps
- Tension springs
- Plastic Metal Combinations



**FIRST EXPERIENCE IN SPORTS AND LEISURE INDUSTRY IN 1977**



# OUR CUSTOMERS

# OUR CUSTOMERS

## OEM



# OUR CUSTOMERS

## TIER 1



THANK YOU VERY MUCH  
FOR YOUR ATTENTION