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## **Teknia Group Business Units**



## **AUTOMOTIVE**

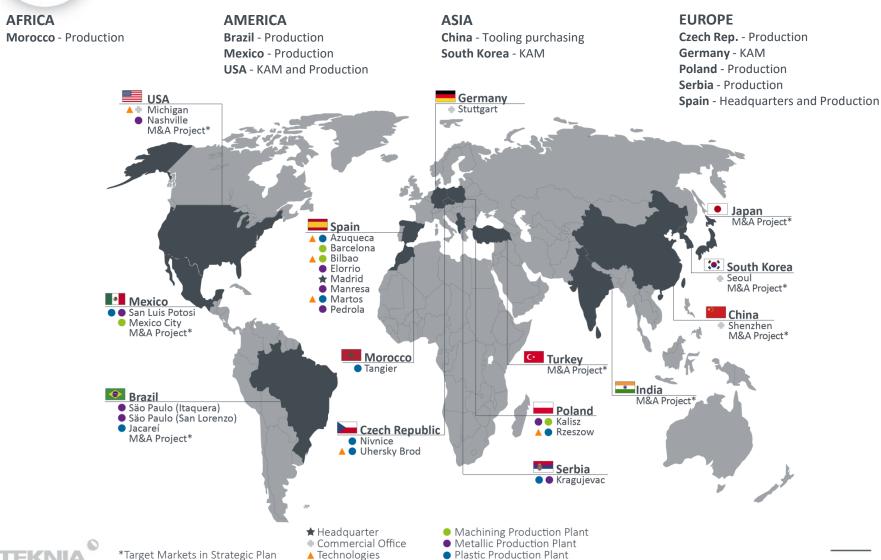
- Quality Commitment
- Cover our customers needs
- Applied technologies thinking in our customers



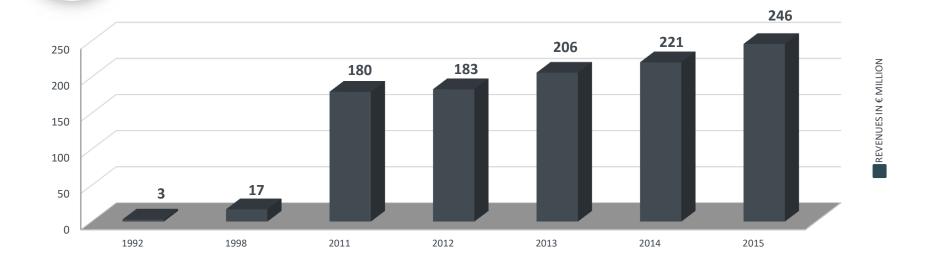
- Our know-how closer to you
- Innovating to lead
- Making the world a better place

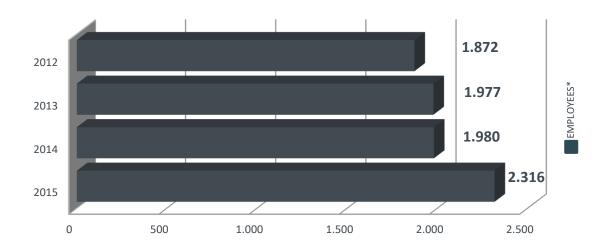
**Corporate Video** 

## **Teknia Group Locations**



## Facts & Figures









## **Main Customers**

#### Main OEM customer:

















#### Main Tier1 customer:





















## AUTOMOTIVE AUTOMOTIVE

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## Advantages

#### **Footprint:**

Teknia Automotive, a multinational group, has more and more of a global footprint, being present in the most important automotive markets. In many cases you may have the same contacts for equal projects worldwide which saves wasted time and cost.



#### **Technologically:**

Machining, Plastics and Metallic technologies worldwide. Managing your projects all the way from the concept phase until SOP. Definition and design of the best productive manufacturing processes for your products. Know how shared across all plants worldwide. R&D activities also available in these geographical locations.

#### **Pricing and Quality:**

Through the technological sharing the best manufacturing processes are designed to obtain the most optimum quality level with the lowest possible manufacturing costs.

#### Solvency:

 Our customers will benefit from having a supplier which is backed by a solid and stable financial group.





## **Teknia Automotive Divisions**

Machining Division Metallic Division





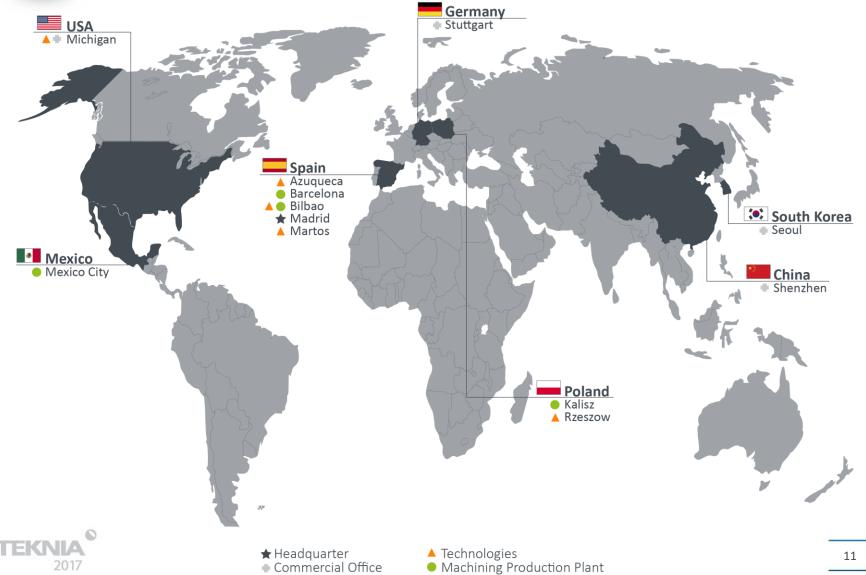
**Plastic Division** 





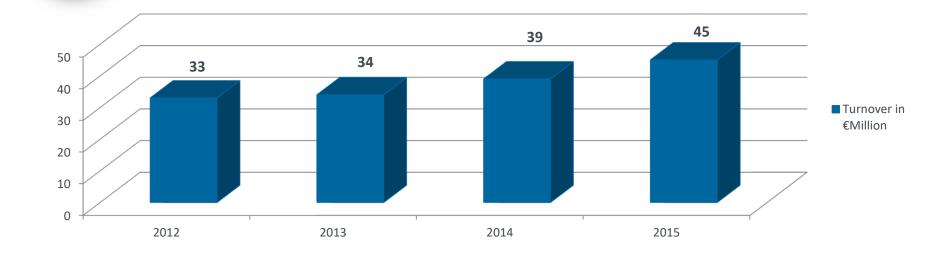
#### MACHINING DIVISION

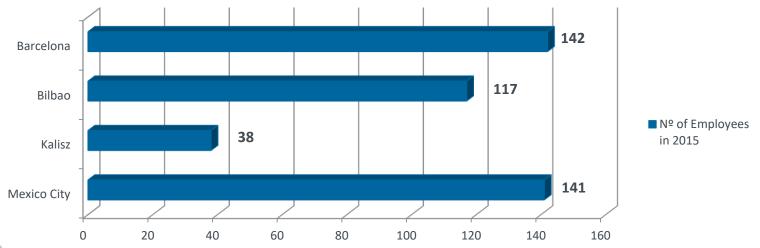
## **Machining Division Locations**





## Facts & Figures









## **Main Customers**

Main OEM customer:



DAIMLER









Main Tier1 customers:













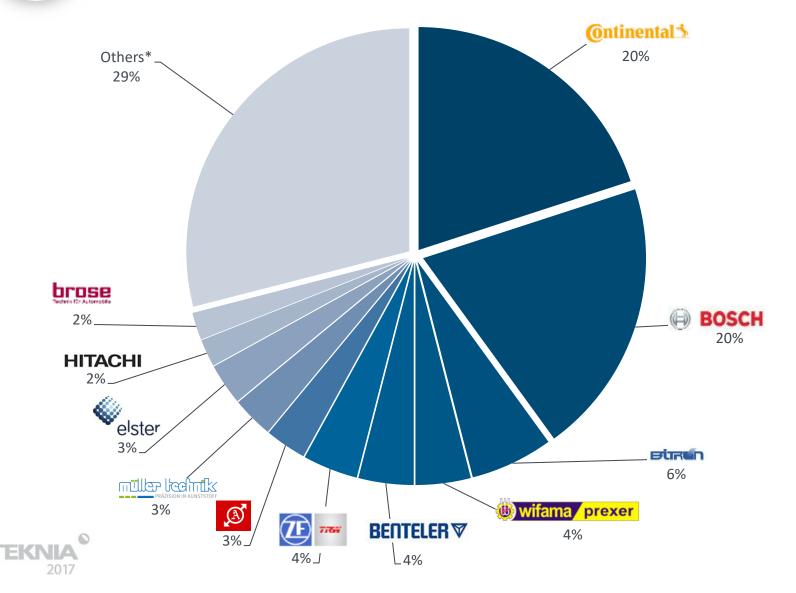






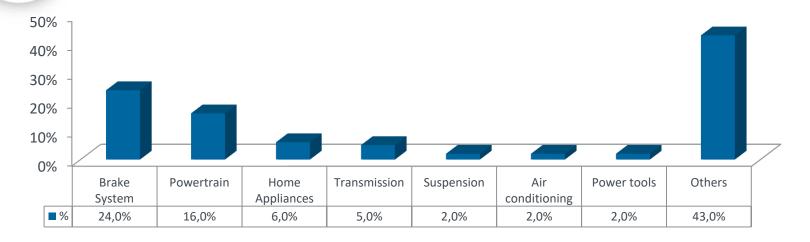


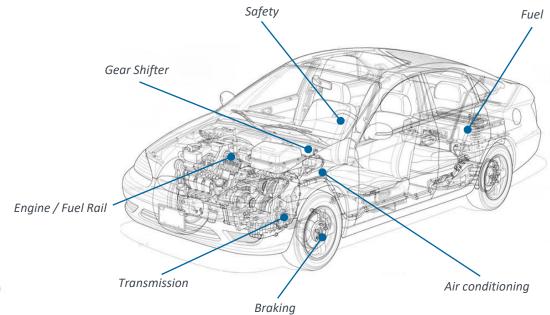




MACHINING DIVISION

## **Core Competences**







## **Technologies**











### Type of Machines in the Machining Division

## CNC Multi-spindle

6 & 8 Spindles

INDEX, SCHÜTTE

18 Machines

# **CNC**Single-spindle

1 Spindle

TORNOS, INDEX, TRAUB

24 Machines

# Mechanical Multispindle

6 & 8 Spindles

SCHÜTTE,TORNOS,WICK MANN

80 Machines

## Transfer Machines

6 & 12 Stations

W&G,MAUTO,

2 Machines

### **Second Operations**

- Stamping&folding
- Grinding
- Deburring
- Final inspection 100% (automatically, manually)

- Threading
- Cleaning
- Super finishing





## **Technologies**

## **Activity** Precision metallic components primarily for automotive industry Bar - turning **Processes** Second operations in transfer machines Grinding and deburring Small - scale sub-assemblies Stamping and folding High precision and safety parts **Specialization** High standard surface finishing and cleanliness Brake systems (actuation, foundation) **Product areas** Air conditioning (nippels, connectors) High pressure fuel systems (valves, plungers) Gear boxes, steering systems, clutches, inserts, shifters, pins Electrical and household appliances Bar diameters: from 4 to 58 mm **Production specifications** Length: max. 440mm (Monospindle), 160mm (Multispindle)

Material: aluminium, carbon, stainless steel, brass





## **Product Families**



Sensors & Actuators



Bleedscrews



Gear Shifters



Fuel Systems



Brake Systems



Brake Systems





## Quality

- The Group's commitment is to quality and the environment, in accordance with the international standards ISO 14001 and ISO TS16949. The quality policy is designed to meet the requirements of the major OEMs and Tier1 customers. All our plants are certified with ISO/TS 16949 and some of them with ISO 14001.
- Our demand for excellence has lead us to commit to a "zero defects" policy, supported by several key systems:
  - Quality tools
  - PDCA
  - Lessons learned
  - Continuous improvement
- The zero defects systems are implemented and applied across the organization.







## TEKNIA TECHNOLOGIES

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## **Engineering Strategy and Vision**

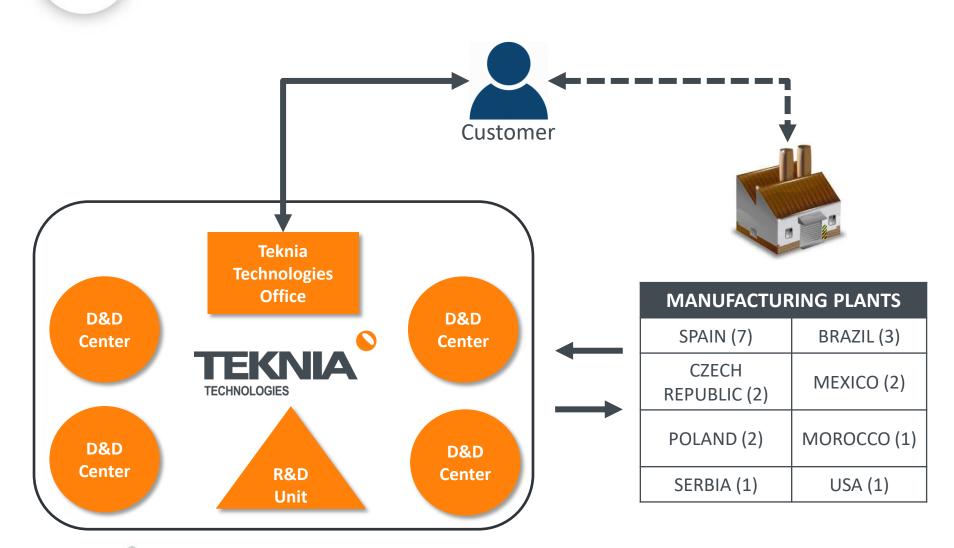
# Teknia Technologies is the result of a new Teknia global engineering strategy and vision

VISION MISSION	Lead Teknia Group towards its technological excellence. Collect, develop and share Teknia know-how and expertise within the Group.				
WHAT	Business Unit concentrating Teknia Group know-how to lead, organize and execute internal and external projects.  R&D and Engineering together for a better service.				
HOW	Main local point of contact (Offices) managing access to specific Design & Development Centers for Strategic Products (Reservoirs, Airbag Covers, Wipers,) and R&D Units.				
WHERE	Worldwide, next to our customers and our plants.				





## **Teknia Group's Organization focused on our Customers**







## **Structure Description**

Teknia
Technologies
Office

Your main point of contact for Teknia Technologies. Built to support and care for your success.

**Commitment and Reactivity.** 

D&D Centers

Teknia expertise and know-how hub.
Built to deliver technological excellence. **Effectivity and Reliability.** 

## **Strategic Products**

Reservoirs & Tanks
Airbag Covers
Metallic Tubes
Transfer Technology
Wipers
Brake Pistons
W. Shafts



Teknia pool of innovation.
Built to imagine and create future.
Creativity and Proactivity.





## **Product & Process Development Capabilities**

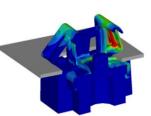
#### DESIGN AND DEVELOPMENT OF NEW PRODUCTS

- The definition of technical specifications for new products.
- Conceptual and detailed design.
- Estimation of production, product and tooling costs

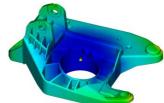
#### PRODUCTS SIMULATIONS

Thermal: Analysis of systems under defined thermal conditions, temperature ranges and thermal resistance of system components. (FLUENT).

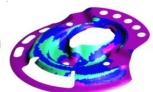
**Impact** analysis



Non linear analysis

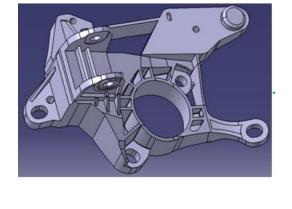


**Plastic** injection analysis



Feasibility stamping analysis

- Failure Modes and Effects Analysis (FMEA)
- CAD design of plastic and metal parts (CATIA V5)
- Material selection and manufacturing technology.



- Mechanical: Static, dynamic and impact analysis of the part versus actual requests to check product specifications (ABAQUS).

#### PROCESS SIMULATIONS

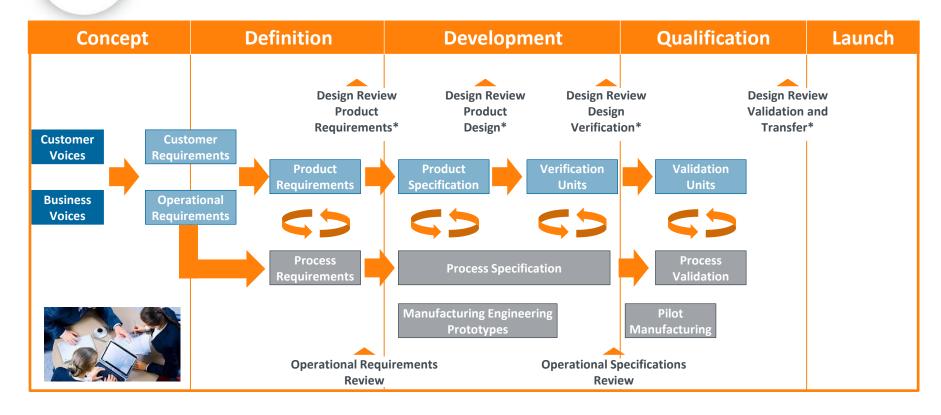
- Injection: MOLDFLOW, MOLDEX 3D
- Production optimizer: QUEST (Delmia)

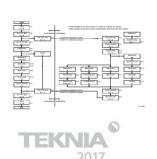






## **R&D Structured Development Process**









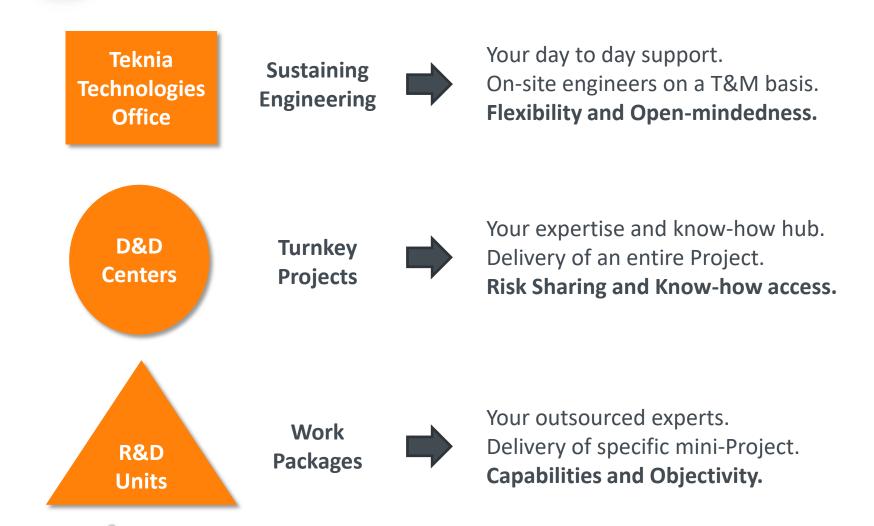








## **Engineering Services Offers Details**





## **Benefits for our Customers**

**Access to a robust source of Engineering Services** 

Established foundations for a higher level partnership

Reliability on Teknia Group as a supplier of reference





## **Management Contact Details**

Division Manager		Michel Peña	michel.pena@tekniagroup.com
Division Commercial Director		Martín Errasti	martin.errasti@tekniagroup.com
Division Technical Director		Javier Bañobre	javier.banobre@tekniagroup.com
Division Quality Director		Sergio Fernandez	sergio.fernandez@tekniagroup.com
Global Purchasing Director		Rafael Morales	rafael.morales@tekniagroup.com
Chief Technology Officer	9	David Martínez	david.martinez@tekniagroup.com



## **Worldwide Contacts**



Commercial
<a href="mailto:europe@tekniagroup.com">europe@tekniagroup.com</a>
<a href="mailto:worldwide@tekniagroup.com">worldwide@tekniagroup.com</a>
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PR and Media <a href="marketing@tekniagroup.com">marketing@tekniagroup.com</a>

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Thanks for your attention!