



DIVERSIFIED GROUP



4 BUSINESS AREAS



INDUSTRY



RETAIL



FINANCE



KNOWLEDGE

266 COMPANIES



WORKFORCE
80,818

7 STRATEGIC AREAS





**MONDRAGON
AUTOMOCION**

MASS PRODUCTION

- **Automotive Systems**
- Chassis & Powertrain
- Exterior & interior Colour & trim
- Fluid conduction & Antivibration
- Electronics

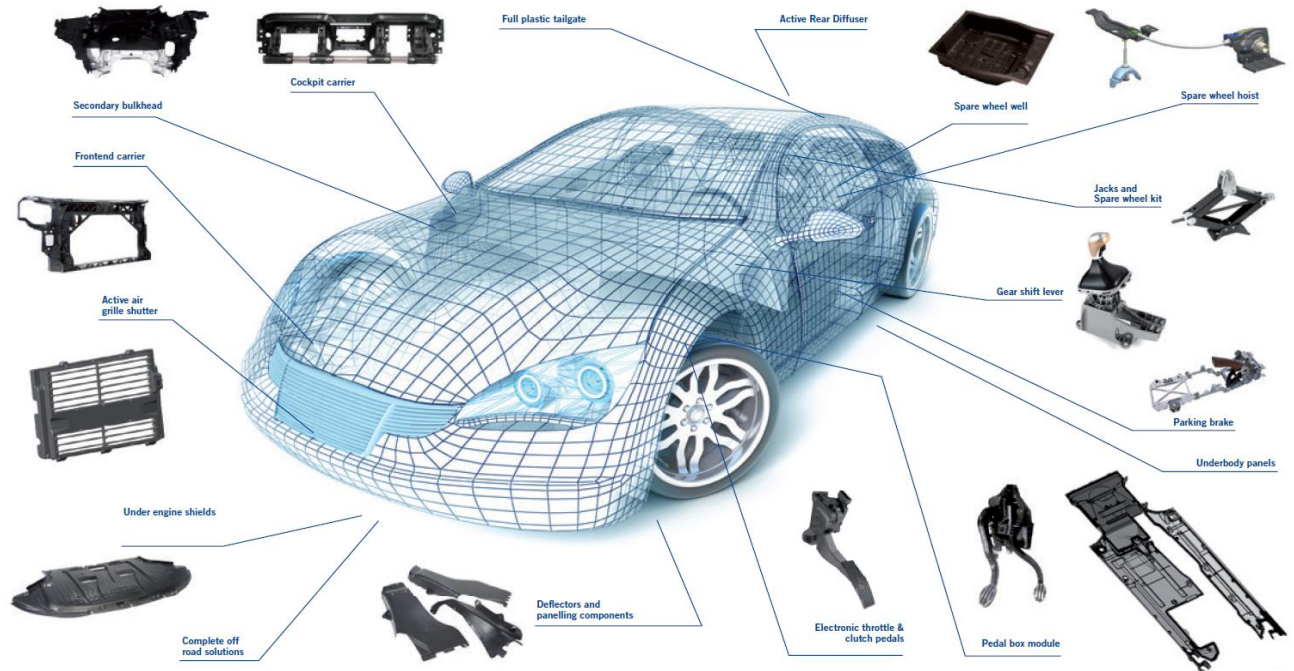
TOOLING AND EQUIPMENT

- **Stamping Dies**
- Stamping Machinery
- Foundry machinery and Tooling



AUTOMOTIVE SYSTEMS

Automotive

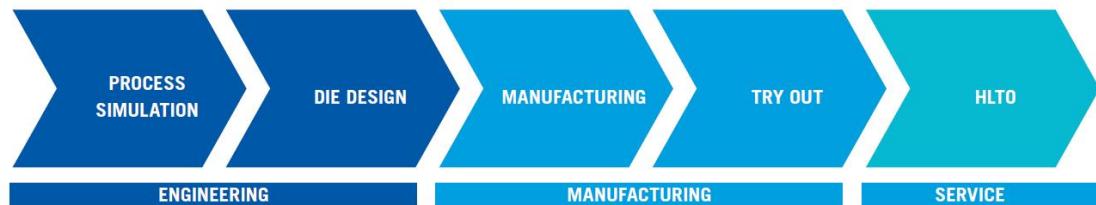




Automotive

TOOLING

GLOBAL PROJECT MANAGEMENT



Advanced manufacturing technologies for integral solution.

More than 30 own try out presses, up to 2500 Tns and 5000 x 2500 mm press table, amongst others.

Up to 1.000.000 hours capability.

PRODUCT RANGE

- 40% • Skin parts tooling:
Aspect requirements fulfillment based on our commitment and expertise. Skin aluminium and steel parts.
- 40% • Structural parts tooling:
Full material range, UHSS/AHSS and structural aluminium alloys.
- 20% • Press hardening:
Cooling dies, two try out lines in-house. Advanced alloys for aerospace industry.



Complex project management.

CUSTOMER REFERENCES

We work in close collaboration with important brands in the automotive, energy and aerospace industries.

AUTOMOTIVE



NATURALLY GLOBAL

ANYTIME ANYWHERE

Our service vocation means we can position ourselves wherever our clients need us: close to the project, inputting all our experience and expertise in combination with our client's capabilities to guarantee the success of every project.



BATZAutomotive



Agreements

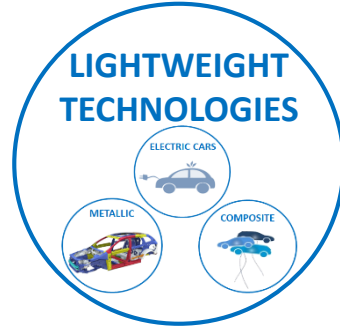
A U T O M O T I V E



INNOVATION AS A TEAMWORK

We take the innovation challenge as a learning process. Learning by doing and Learning from each other. Based on well-trained and committed people.

INNOVATION DRIVERS



Focused on electric mobility, lightweight materials & technologies to achieve a mass reduction and increase the range and NVH final user perception

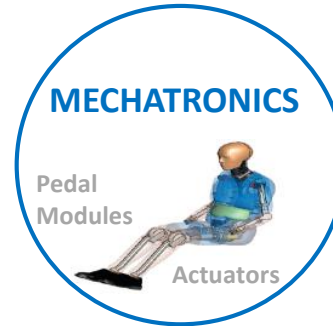
Introduction of new lightweight materials & technologies to achieve a mass reduction with the final aim of reducing energy consumption and CO₂ emissions

Introduction of lightweight materials & forming process (hot stamping aluminum, multi-property body parts...) increasing safety



INNOVATION AS A TEAMWORK
Talented workforce skilled for the Automotive challenges focusing the future based on the ecosystem formed by several agreements with Universities and R&D centers

Digital brain



Mechatronic systems to provide several functionalities required by users' demands, such as safety or ergonomics



Innovative active aerodynamic solutions for minimizing energy consumption by optimizing the management of air flows and increase performance efficiency

Implementation of smart factory concepts along the complete manufacturing process, increasing product and service quality

20 YEARS OF ECODESIGN MADE IN EUSKADI



1998



Steel



Aluminium

2006



Steel



Plastic



Reduction of car's environmental impact. Making progress since 1998

OUR EXPERIENCE

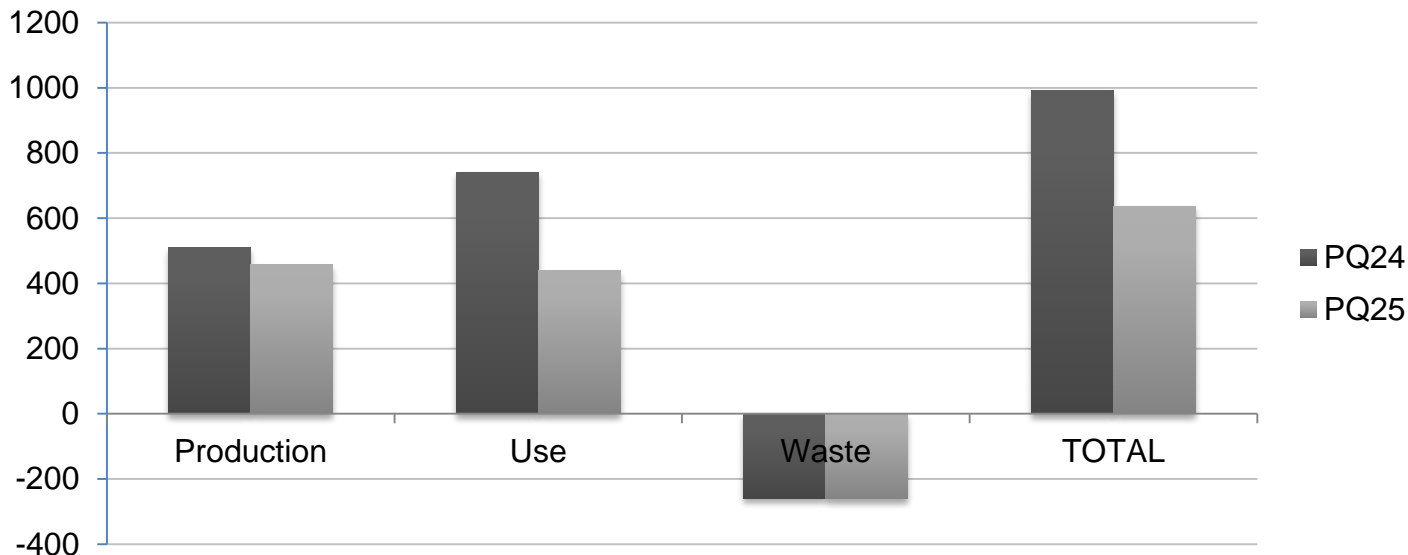
In 2006 we applied the ecodesign methodology to a pedal box module known as PQ24, the result was the new PQ25 for Volkswagen. This experience was shown on the client factory in Landaben as a good practise.

Giving some facts:

PQ 24	PQ25	IMPROVEMENTS
Steel	PP+GV	
22 parts	16 parts	-27% numbers of parts
2,933Kg	1,680Kg	- 43 % lightweighting
Using nut/bolt	clipping	easier dismantling (ELV)
Using weld and painted	Weld/ paint not needed	less production processes

LIFE CYCLE ASSESSMENT

We analysed the environmental impact of both pedal boxes through the entire life cycle as a product, which includes production, use and disposal phases. We reached 637mPts, 36% less than the PQ24.



Calculated in millipoints using Ecoindicators 99 and SimaPro Software

WHAT WE HAVE LEARNED?

Our serial products will have the highest environmental impact during USE phase, basically referred to their weight, so that the strategy must be **LIGHTWEIGHTING**.



PQ25 was the cheaper alternative (-29%). Ecodesign doesn't increase the cost of the article. The implementation of **PLASTIC INJECTION** in BATZ can be seen as a success. Since then, we have new machines, equipment, products and technologies available.

Water Injection Technology (WIT)

In-Mold Coating (IMC)

MuCell® Technology

2K Injection Moulding

Sheet Moulding Compound (SMC)

LOGISTICAL SUPPORT

We improved not only during use phase. PQ25 packaging was redesigned, optimizing each shipment, using returnable steel containers with carton instead thermoformed polythene sheets.



PQ 24

1,015Kg PE

PQ 25

0,021g carton

97% reduction

20 YEARS OF **ECODESIGN** MADE IN EUSKADI



WE MADE, WE MAKE

The Logistics department has been working hard to have:

- Milk runs, handling with maximum capacity utilization and minimal costs.
- Standardized returnable KLT boxes. Some of them made with our plastic waste, or second-hand bought

Our Engineering it is searching structural lightening based on the use of new materials



20 YEARS OF **ECODESIGN** MADE IN EUSKADI



«Foster the spirit of respect for the environment and a commitment to participating and collaborating in the actions taken on environmental issues»

Ana Camacho
CEO BATZ Group

