

TECHNOLOGY & INNOVATION

AT GESTAMP



CORPORATE
MESSAGES

Gestamp 

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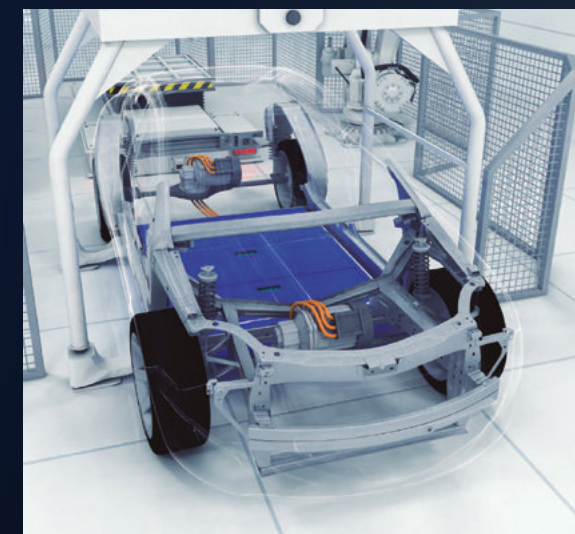
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01

USE OF THIS FLIPBOOK AND MESSAGES

This document is an **internal guide to the main messages, content, and statements on technology and innovation at Gestamp.**

Its objective is to **unify under the same identity, concepts, and keywords the value proposition of this strategic area of the company**, in addition to offering consolidated resources and data on our progress in its different aspects.



This flipbook is structured in different sections according to the **defined strategic drivers**. These topics, due to their high relevance and potential for our team and company, have success stories or milestones that demonstrate with real examples our progress and commitment to technology and innovation.



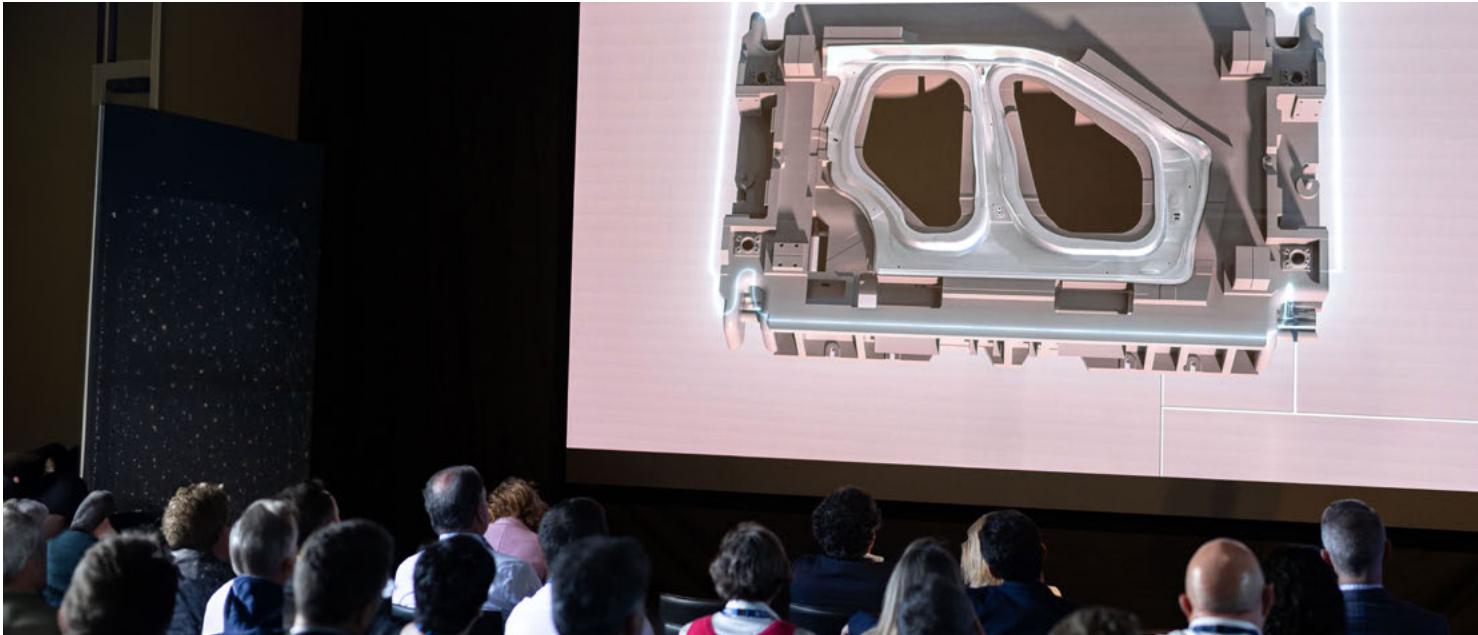
Although all of our drivers have specific particularities to highlight, **they all form a framework with cross-cutting aspects and a narrative concept** representing our creator spirit that leads us to push the limits and challenge the future.



The messages and ideas presented in this document are official company messages and should be used as **communication support in case of speech on internal or external speaking opportunities**. However, **the dissemination and submission of this document must be strictly internal**, as it is not a public brochure of the Technology and Innovation Office.



Thanks to the consolidation of the messages in this brochure, **we will be able to transmit in a unified way and with the same voice everything that makes us pioneers and unique**, which positions us as leaders and at the forefront of innovation and technology in our sector.



02

STORYTELLING

In a world that is advancing by leaps and bounds and where progress is the only option, at **Gestamp's Technology and Innovation Office** we accept the challenge of constant change and we face it by always staying one step ahead, anticipating and surpassing ourselves every day.

Since the beginning of our history, we have operated in the world of great ideas, fostering a culture and environment that are totally transformative, creating new concepts and driving and guiding Gestamp's most groundbreaking projects. Because **challenges motivate us**, they offer the opportunity to demonstrate our value, adaptability and **long track record of leadership** after so many years of research. **We are pioneers with expertise, architects of the future:** we devise like creators, we invent like scientists, and we help make the mobility of the next generations a reality.

Our technology is unique and makes it possible for us at Gestamp to work with the materials of tomorrow, creating high-performance engineered technological solutions and totally unprecedented automotive components product families. Our global team, as unified as it is, is prepared for what is to come, and is already working on what is not yet known.

Co-creating the technology and solutions that will enable the mobility of the future: traveling companions that ensure the safety of their occupants every kilometer, every mile. We're behind every curve you take, accommodating every bump, always driving alongside you. It is our ideas that make the movement, same technological solutions that take care of the passengers, unnoticed, but always attentive, shaping the way mobility goes forward, always driving forward.

Because we think beyond today and challenge our tomorrow. The future is close, and we know the path.

Trust us: we have come a long way, we innovate, we work beyond the horizon. We are creating our future.

 English video

 Spanish video

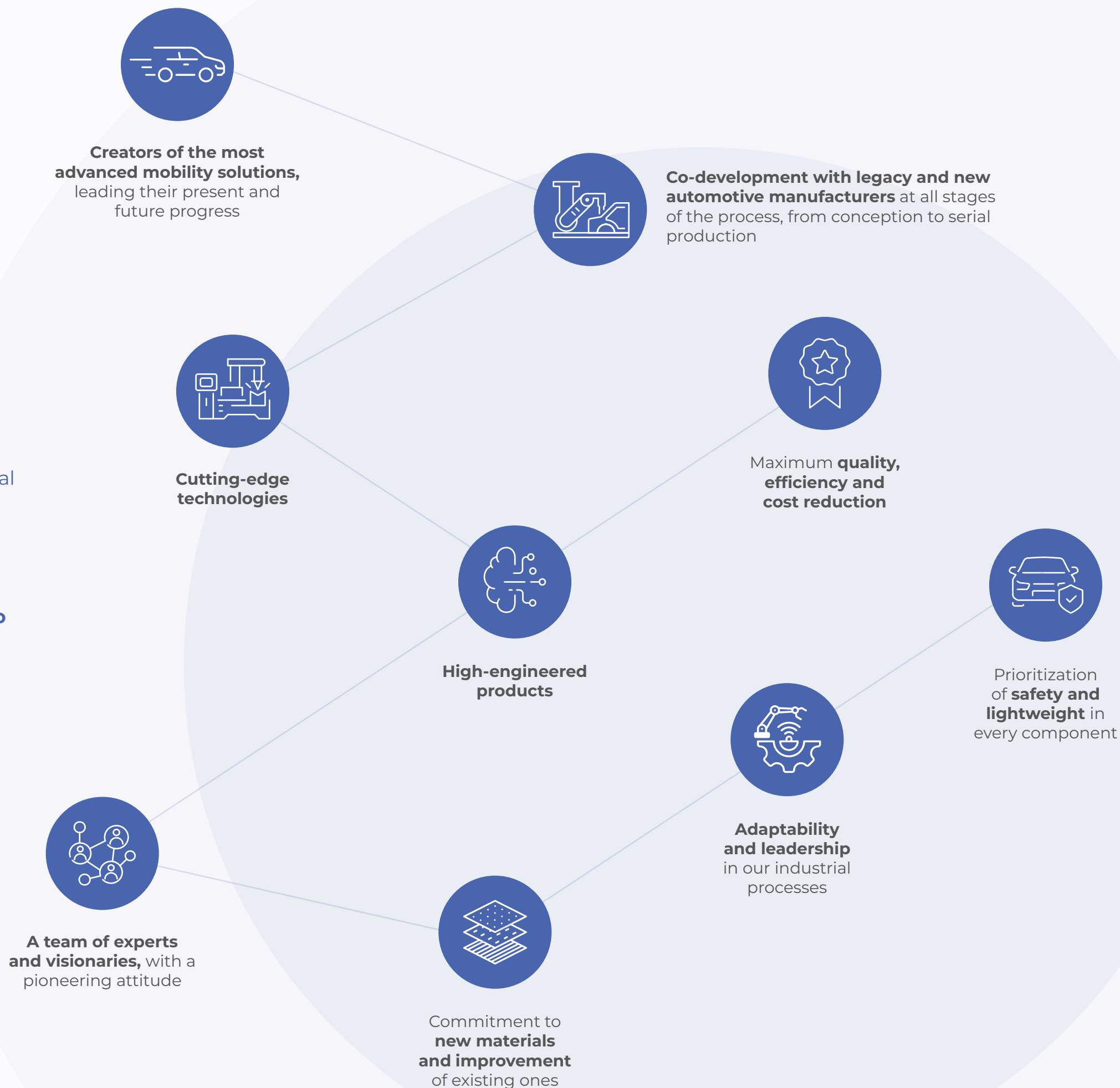
BEYOND THE HORIZON
CREATING OUR FUTURE

03

TECHNOLOGY AND INNOVATION OFFICE

VALUE PROPOSAL

Innovation is our driving force and one of the key pillars of Gestamp's success. It is transversal to everything we do, to our way of thinking, of working and of moving towards the future by overcoming the challenges that make safer and more sustainable mobility come true. With our commitment to research & development, **we leverage science and engineering expertise to create solutions that make us leaders in the sector and a true benchmark.**



SUCCESS CASE

CO-DEVELOPMENT PROCESS:
COLLABORATING CLOSELY WITH OUR CLIENTS

At Gestamp, we believe in working together with our clients, developing an **innovation network that allows us to co-create and co-develop with them the solutions that best suit their requirements.** In this process of continuous improvement, our visionary attitude and our extensive expertise in technology allow us to anticipate their needs proposing alternative solutions that they incorporate into their final products. This is how the **concept and the creative idea that emerge from the minds of our experts are transformed into final components produced in series.**

FROM GESTAMP'S IDEA TO PRODUCTION:
TRANSFERING OUR VALUE PROPOSITION AND
INNOVATIONS INSIDE OUR CLIENTS

CO-DEVELOPMENT CONCEPT AT GESTAMP

- Enhanced lightweight and safety
- Improved performances
- Controlled cost
- Development objectives
- Transversal to technologies, materials, and products



THE TEAM WORLDWIDE

Gestamp’s Technology and Innovation team is made up of great professionals with **expertise in research, innovation management, technology, development and product design**. Distributed in 13 centers in 9 countries around the world, they put their **expertise and knowledge at the service of innovation to develop the most advanced integrated solutions**, always working with a **pioneering attitude** and as a **network**.

13
R&D centers

1,700
Gestamp employees
dedicated to R&D

EXPLORING INNOVATION IN A
GLOBAL AND CROSS-CUTTING
WAY IN OUR 13 R&D CENTERS



04

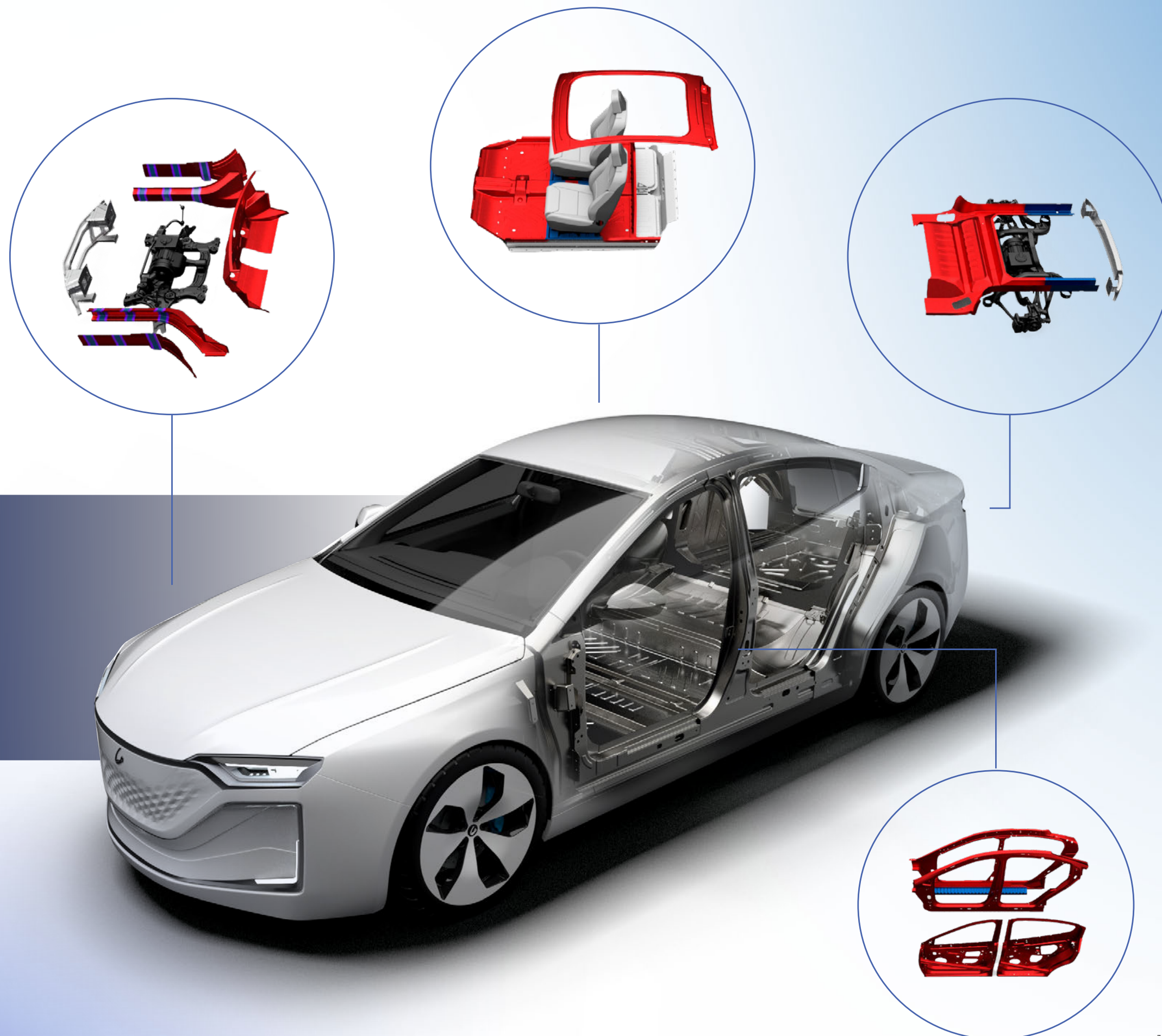
PRODUCTS & PROPRIETARY TECHNOLOGIES

At Gestamp, we are creators, we are leaders, we are experts. With our unique highly engineered technological solutions, translated into our portfolio of products and technologies, we **lead the automotive components sector creating the mobility of the present and the future.**



Our capacity for innovation defines us, always taking us one step ahead of what is expected, seeking continuous improvement, and determining the path that leads us to excellence by **co-creating and co-designing the best solutions with our clients.**

An innovation based on a defined value proposition, composed of increasingly **safer solutions, cost competitive, and lightweight to be more sustainable every day.**



TECHNOLOGIES

This expertise is present in all phases of our products, from conception, design, development, production, to distribution. With cutting-edge technologies, we have the necessary alternatives for each production process, leading the application and development of a wide range of them.



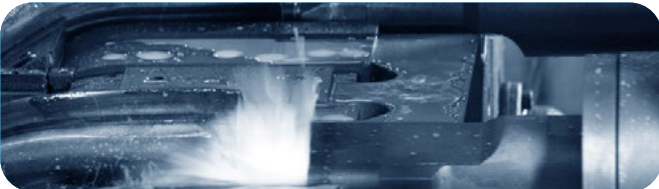
HOT STAMPING*

Manufacturing by deformation and hot pressing at about 950°C with controlled in-mold cooling, with a press-hardening production model that covers the entire value chain.



COLD STAMPING

Stamping of high strength materials with presses in the upper range of forces of greater than 1,000 tons.



HYDROFORMING

Specialized type of cold forming that uses a high-pressure hydraulic fluid to press room temperature tubes into a die.



ROLL FORMING

Automatic cutting, piercing, separating and laser welding to manufacture parts with minimum material usage.



WELDING & ASSEMBLY

The most advanced technologies for assembling complex in highly automated welding cells.



COMPOSITES FORMING

Creation of components mixing a resin with a reinforcement to produce the desired shape.



ALUMINUM EXTRUSION

The aluminum alloy material is pressed through a die with a specific cross-sectional profile.



TOOLING

Design and manufacture of the necessary molds and dies that will shape the stamping parts.



SURFACE TREATMENTS

Final treatment of the parts to give them the necessary finish according to their purpose and needs.



MACHINING

Post-forming process that allows to finish adapting the machined parts and aluminum profiles.

...AND NEW CUTTING-EDGE ONES TO COME.





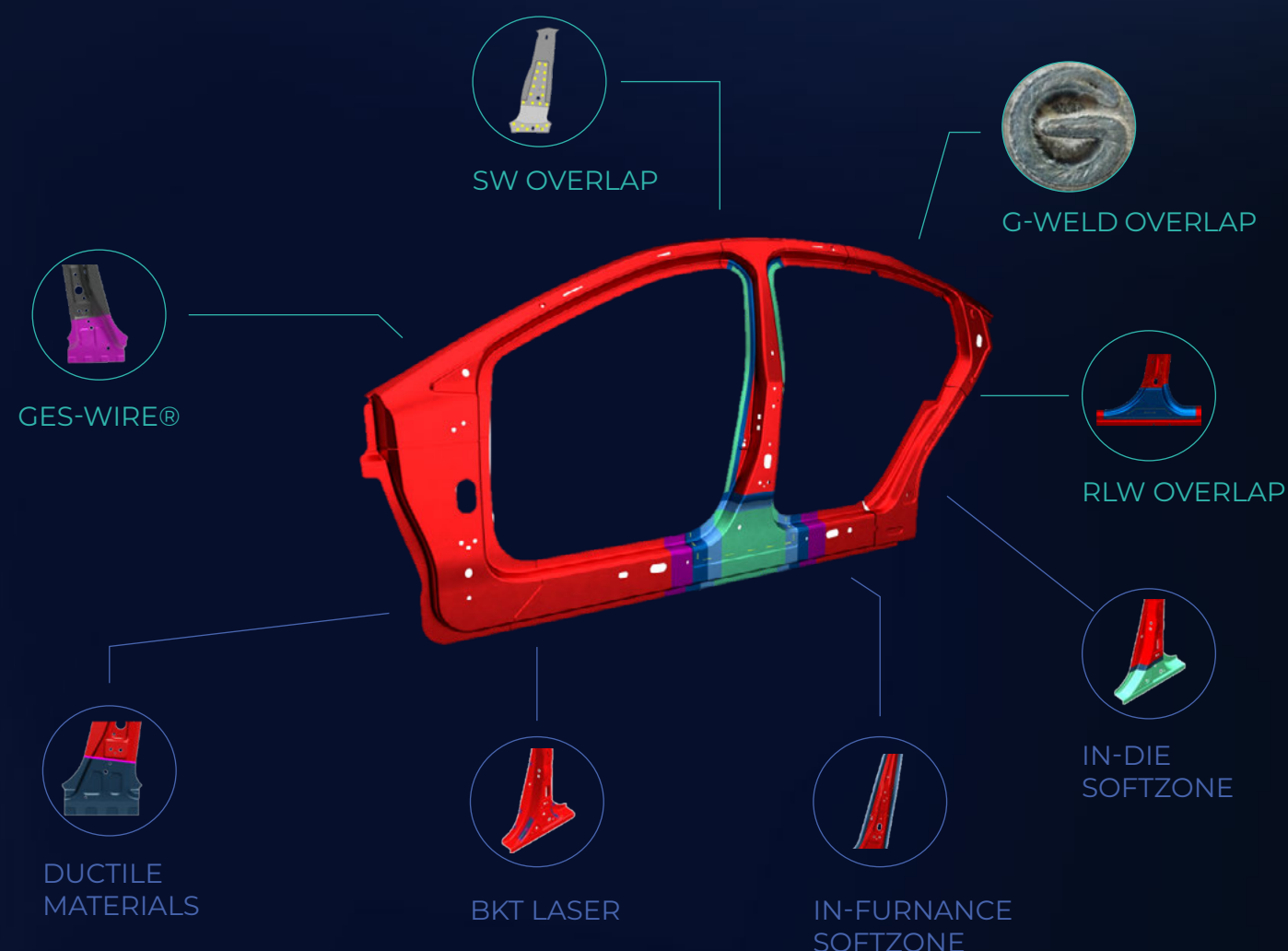
*We are the company with the **largest number of hot stamping lines** in the world.



SUCCESS CASE

TAILORED TECHNOLOGIES

Our tailored technologies make up a toolbox of cutting-edge solutions that boost performance and reduce production costs. Both are used in combination to meet our clients' needs, and provide them with the best development lead time, part count reduction and assembly time.



Each technology adds different properties to the product, but some of them have in common:

Thickness: Tailoring blank welding to optimize thickness distribution, gaining in lightweight and performance.

Material properties: Strength adjustment in the required zones via in-line tuning or material property post-processing.

GES-WIRE®

Our proprietary technology for tailor welded blanks that **uses a specific filler wire and laser welding process**. In this case, high quality welds can be obtained without removing the material coating, saving costs and time.

SW OVERLAP

Our spotweld overlap is a **cost competitive alternative to tailored welded blanks, by not only replacing laser welding, but also integrating parts and functionalities**. By executing a smart overlapping of the blanks, and with a simple 2D spotwelding before the stamping process, we can reduce part number, integrate several parts into one, and increase stiffness and crash performance were needed. Besides, heat affected zone is removed in the furnace heating process, giving a better integrity of spotwelds in high impact events.

G-WELD OVERLAP

Our blank laser welding technology developed to **replace the current spotwelding solution for patch and overlap patch blanks**, can be up to five times faster. It simplifies the assembly process due to its high welding speed while maintaining high quality control.

RLW OVERLAP

Our **blank laser welding technology in overlap configurations**. The high flexibility of laser welding allows us to produce customized geometries that improve the crash performance while optimizing the welding time, and can provide watertightness on overlap areas that was not possible with spotwelding.

IN-FURNANCE SOFTZONE

Our in-furnace soft zone technology uses **precise heating and cooling adjustments on steel blanks before hot stamping, creating defined soft zones** while preserving other areas' properties. This enhance crash performance and reduce post-processing steps.

BKT LASER

Our laser softening technology that **creates local tailored properties after hot stamping, normally used to produce soft triggers** that improve crash performance and avoid spotweld failure.

DUCTILE MATERIALS

Using ductile materials in hot-stamped parts **enhances performance by improving energy absorption and flexibility in targeted areas**. In automotive applications, ductile zones in high-strength parts allow controlled deformation during impacts, improving crashworthiness and passenger safety.

IN-DIE SOFTZONE

Our **creation of parts with varied hardness by selectively cooling and heating areas** within the die, producing stronger and softer zones.



SUCCESS CASE

GES-MULTISTEP®

One example of our revolutionary technologies is **Ges-Multistep®**. This represents **an evolution of hot stamping**, a technology for manufacturing structural body components in which **Gestamp is one of the world leaders with around 100 hot stamping lines worldwide** in 2024. The hot stamping process allows a lightweight design with Ultra-High-Strength-Steel (UHSS). It's a key technology to achieve lighter vehicle components, better in terms of energy efficiency, and the best behavior in case of an accident.



One of the main advantages of Ges-Multistep® is that, with this revolutionary technology, **the Ultra-High-Strength hot-stamped Steels take advantage of rapid and controlled cooling after their forming process to provide high rigidity**. During the process, parts stamped with Ges-Multistep® pass through several pressing stations in quick succession and undergo a rapid but gradual cooling. This way, Gestamp manages to **obtain a sophisticated geometry** for its parts, along with **mechanical properties** similar to those of conventional hot stamping, at a **more competitive cost**.

Nowadays, **Gestamp is already working on its Ges-Multistep® 2.0 technology** with the objective of improving even more the strength and hardness in new products, such as Door Rings (a GES-GICASTAMPING® part). This technological evolution allows homogeneous hardness level across the component, the usage of a new 1700Mpa steel grade which increases the lightweight potential in comparison with the conventional 1500MPa one.



PRODUCTS

The use of our technologies, combined with the conceptualization and selection of optimal materials, gives rise to an **extensive range of products of Body in White and Chassis.**



BIW

STRUCTURAL ASSEMBLIES

CLOSURES

GIGASTAMPINGS

BUMPER SYSTEMS

CROSS CAR BEAMS

BATTERY BOXES

UNDERBODY

UPPERBODY

CLASS A

CHASSIS

SUBFRAMES

LINKS

CONTROL ARMS

REAR TWIST SYSTEMS

[More info](#)



SUCCESS CASES

GES-GIGASTAMPING®

A constant effort in creativity, innovation, and development is reflected in our results, creating new product families. **The GES-GIGASTAMPING® product family** is an example of it — **a competitive solution in weight, sustainability, cost and reduction assembly time at client's facilities.**

Thanks to GES-GIGASTAMPING®, we create large components in a single piece through hot stamping. This great evolution allows us **to apply other cutting-edge technologies and techniques, giving rise to Body in White Extreme Size parts.**

Door Ring, a milestone in GES-GIGASTAMPING®

The Door Ring is our one-piece that allows to go from several cold and hot stamping assembled parts to one single hot stamping part, and involves benefits such as **assembly simplification** for clients, as well as **cutting costs**, improving our internal added value.

This new product not only means **excellent integrity of the safety cell** in any crash event, but also lighter parts that are easier to integrate and **more environmentally friendly.**



2,918,992

Door Rings per year produced worldwide in 2024*

1,188,048

in the **USA**

708,000

in **Europe**

1,022,844

in **Asia**

*It includes right, left, inner and outer parts

Our solution has become a **leading innovation in the market**, evolving from the creation of market solutions for series models to unique Gestamp technology for next-generation models.



Video One Piece Door Ring with Martí Meca, BIW Structure Product Leader

GES-ENUBOX®

Our **family of battery box solutions** meets any type of mobility, considering all its needs and particularities. In all of them, we use cutting-edge technologies in a co-development process with our clients, **especially in the case of the high-performance requirements of electric vehicles.**



SUCCESS CASE

HIGHPERTUBE: OUR INNOVATION IN HIGH-STRENGTH TUBE MATERIAL

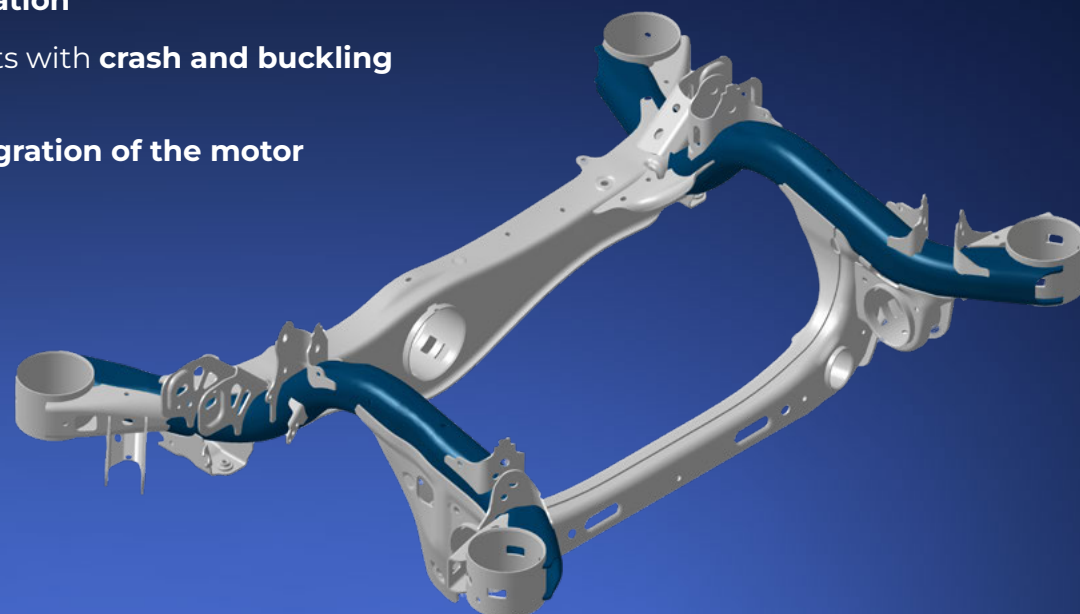
Longitudinals, as essential components of chassis subframe assemblies, play a pivotal role in crash behavior thanks to their contribution to safety and protection of all occupants.

With our toolmaking capabilities, we create these high-engineered products through a combination of **hydroforming technologies**, resulting in the best product in CO₂, efficiency and cost.

Using high-strength materials, our highpertubes **enhance their stress response, improving overall crash performance**, while achieving **significant weight reduction** due to the lower tube thickness.

Strengths of Highpertubes

- **Lower wall thicknesses** lead to weight reduction while same or better level of performance
- Better **fatigue performance**
- Greater **elongation**
- All chassis parts with **crash and buckling requirements**
- Allow the **integration of the motor**



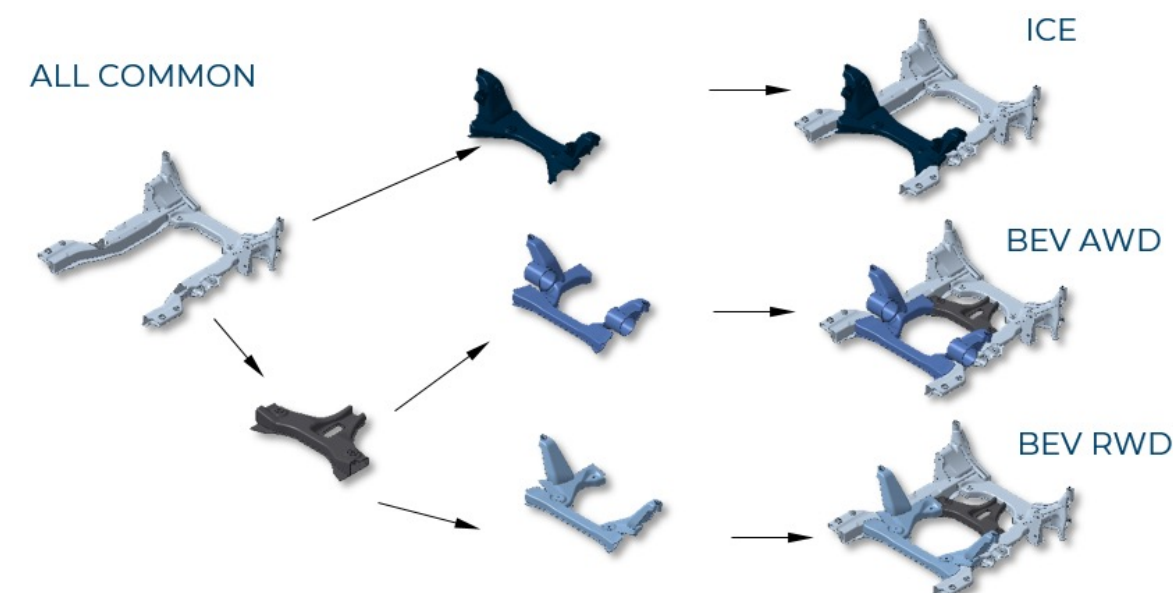
THE GREAT PERFORMANCE OF OUR MULTIPATH PLATFORM CONCEPT

Gestamp's latest chassis design focuses on creating **components for multi-drive platforms that can accommodate all common drive types**, including ICE, PHEV, and BEV, using a single base frame.

With our **innovative modular platform approach**, we achieve great results in performance, efficiency, and safety, always going one step further and offering the best solutions to our clients.

Benefits of Gestamp's Multipath Platform concept

- **Innovative design concept** for multi drive platforms
- **One base frame** for ICE/PHEV and BEV
- **50% less tooling invest** due to common parts for all variants
- **Reduced number of single parts**
- **Combined welding line** for common assembly
- **Flexible volume distribution** between ICE and BEV
- **Reduced assembly invest**



SOFT ZONE SOLUTIONS

Analyzing its structure down to the last detail, we create the best solutions for each challenge we face, developing unique alternatives that offer the best results, as in the case of **soft zones solutions**. This solution creates different hardness grades in the part and allows its proper deformation and energy absorption in case of a crash. Such hardness can be obtained with different processes in or offline.

Our solutions are:

 **Unique**

 **Creative**

 **Proprietary**

We face the future with ambition and responsibility. **Our commitment to progress and innovation transcends words. It is demonstrated by real solutions that make a difference for our customers and the society.**

At Gestamp's Technology and Innovation Office we do not limit ourselves to developing products and technologies for the times, we push boundaries to go beyond.



05

SOLUTIONS FOR SAFETY & LIGHTWEIGHT

At Gestamp, **all our products have one maxim: safety above all else.** From their conception to the materials selected, all of them are designed for the protection and comfort of drivers and passengers.

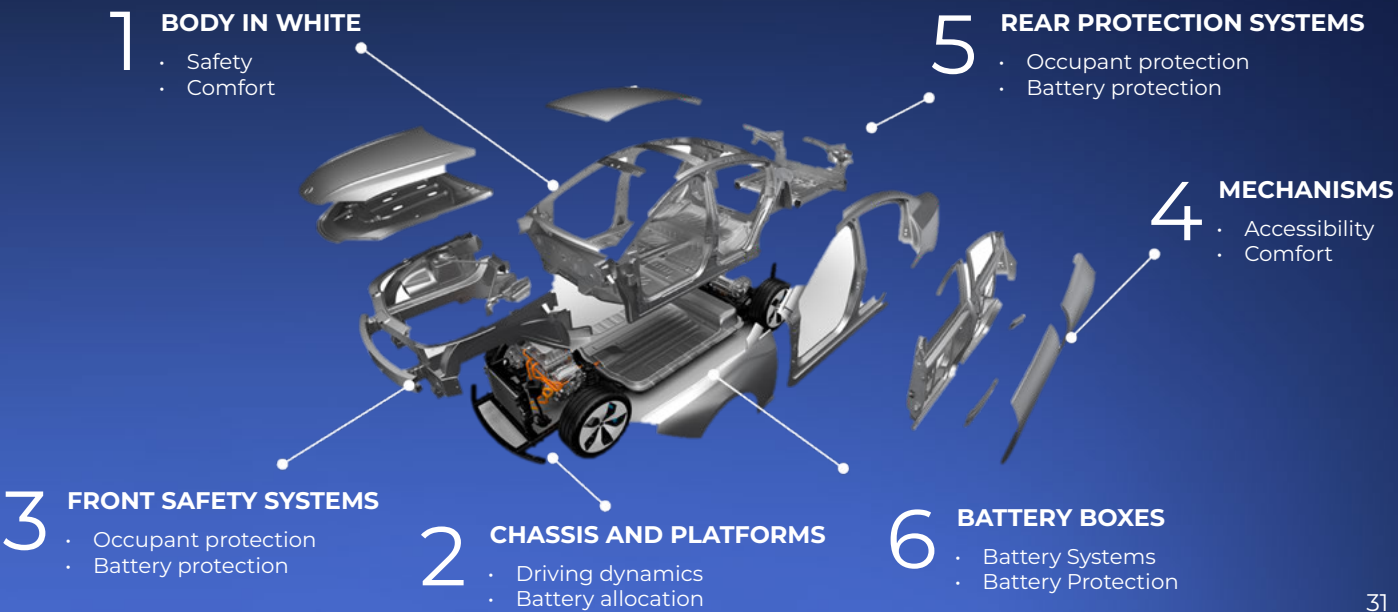
From front to rear crash systems, GES-GIGASTAMPING®, battery boxes, front and rear suspension frames... A complete family of products comprise the safety cell and serve the same purposes: **to prevent accidents and to be an active part in the event of a crash to protect passengers.**

Our parts are key to the safety of vehicles. Gestamp contributes to it through the creation of structural components designed with the most suitable materials and technologies. Leveraging our world-leading hot stamping technology, we use ultra-high strength steel for occupant protection and for guaranteeing the best crash performance.

HOW DO WE CONTRIBUTE TO SAFETY WITH OUR COMPONENTS?

	Components designed to prevent accidents	Elements that prevent or reduce damage to passengers in the event of an accident
Vehicle structure	• Contributes to the rigidity of the vehicle and makes it easier to drive in all circumstances. • The weight has a direct influence on braking distance • The correct location of the center of gravity avoids rollovers in road exits • Motor integration into the EV thanks to chassis	• Keeps passengers safe in any impact • Protects occupants of other vehicles in the event of a collision • Facilitates extrication of injured passengers in the event of a collision • Reduces damage to pedestrians in the event of a pedestrian collision • Protects EV batteries • The chassis acts as third load path in the event of a crash

SAFETY & LIGHTWEIGHT SOLUTIONS





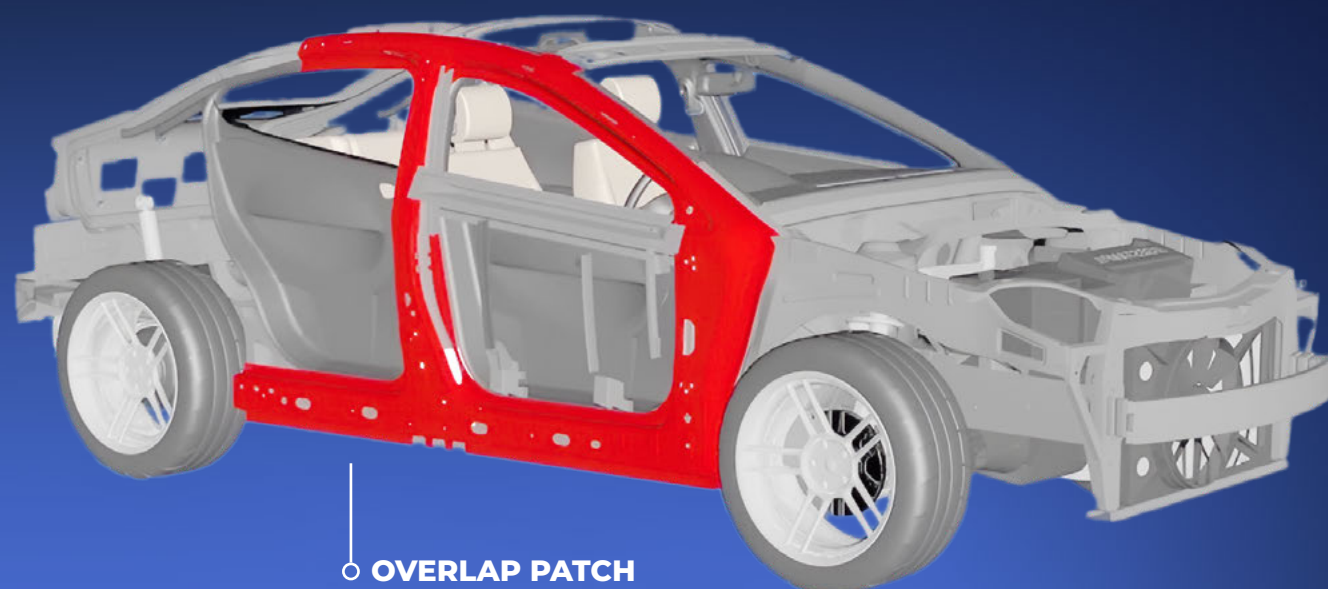
SUCCESS CASE

OVERLAP PATCH DOOR RING, A DEMONSTRATION OF SAFETY & LIGHTWEIGHT

Gestamp's Door Ring, a **product of the BIW Extreme Size Parts family to which the Overlap Patch technique has been applied**, is designed to respond to the **increasing safety and environmental requirements**.

Our proprietary solution has allowed us to take this technology to other plants across the Group, favoring the **growth of our business internally and externally**.

In addition, Overlap Patch Door Ring means excellence in safety cell integration in any crash event with the **best weight-crash ratio**.



○ OVERLAP PATCH DOOR RING

 More info in page 24

We make it possible with an **optimal combination of products and technologies to deliver the best solutions** while ensuring the best cost. Because our solutions are not limited to safety, we guarantee it every day while promoting lightweight.

This is evidenced by the soft zones of our Overlap Patch Door Ring, or the behavior of steel and aluminum.

TECHNOLOGIES

HOT STAMPING

We are leaders in hot stamping technology, key to the **creation of the structural body components that are so important for safety**. Moreover, we continue to improve this technology, which represents a **step forward in efficiency and lightweighting**, while maintaining the properties and quality of traditional hot stamping.



 More info in page 20

MATERIALS

New materials such as **aluminum, fibers (composites) and high strength steel** are used to create high-engineering performance solutions at all levels. They increase service life by design and minimize their weight through in-house optimization tools coupled with manufacturing expertise to achieve a reduction of up to 15% of steel mass, which means a decrease of up to 15% of CO₂.

 Up to **15%**
mass reduction in steel

→  Up to **-15% CO₂**

This concept is **transversal to our products** at all stages and makes us experts and pioneers in **safety, lightweight and sustainable solutions** that guarantee the best for our clients.



06

RESEARCH AND DEVELOPMENT

915

active patents
worldwide in 2024

At Gestamp, we stand out for our cutting-edge technologies, for products that lead the market, for offering the best solutions to our clients; and for shaping the future by leaving a **global footprint of technology and innovation through our global team.**

But above all, there is one reason that makes it all possible: **the team behind our Technology and Innovation Office.** Their talent, expertise, and knowledge drive us to excellence, always with a proactive and visionary attitude.



CO-DEVELOPMENT

We have built a **network of trust with our clients thanks to the advanced co-development of integral solutions**, a methodology that allows us to go from concept to serial production.



SUSTAINABILITY

Responsibility and sustainability are essential in all parts of the process, implementing new materials such as **Green Steel or the use of composites in some products such as Body in White or chassis parts.**



G-LAB

Above all, **we set technology at the service of safety with a pioneering simulation tool in the world: the G-Lab.** With this family of virtual cars, we analyze the behavior of the vehicle's components and technologies in the event of a crash, study its stiffness and other key indicators to ensure the best results. In this way, we go one step further in **the validation of our new Gestamp automotive products and solutions.**



The result of this commitment to progress

A globally **unique innovation environment** where we lead the research and development of new materials, concepts, products, industrial processes, and production-ready technologies in the automotive sector, built through science and engineering.



SUCCESS CASE

G-LAB: SIMULATION IN THE PURSUIT OF ULTIMATE SAFETY

G-Lab, **Gestamp’s Virtual Laboratory for Automotive Product Validation**, is one of our leading R&D projects. A unique tool that allows us to create and validate the safest structural components, analyzing parameters such as:

Stiffness — Strength — Durability — Crash

Through our **family of virtual cars**, we **co-develop solutions with our clients** so that they can select and implement the best product or technology in the right place at the best time.

G-Lab was born in 2008 with the aim of obtaining the best result in **virtual validation of all types of crashes and impact scenarios** for the different vehicle segments. Thanks to 3D design and simulation, the program allows full-vehicle crash simulations to be performed in three types of virtual tests:



Full vehicle crash validation



Stiffness analysis



Vibration analysis



Our family of virtual cars encompasses several vehicle models representing different segments, and fully validated always considering the regulations of each region.

Safety is the main pillar in the creation of components, and thanks to G-Lab and our extensive process knowledge, we create the **safest solutions while optimized in lightweight and sustainability**.



07 FLEX MANUFACTURING

At Gestamp, we believe in innovation in every step we take, in every decision, in every milestone. That is why, from the Technology and Innovation Office, we are committed to it not only in our solutions, materials and products, but also **in the way in which they become a reality.**

With our **Flex Manufacturing** concept, we take **digitalization in manufacturing to another level by working on the path towards turning our plants into real smart factories.** It is the link between the virtual and physical worlds, leading to:

Operational Excellence to be competitive in the market

Its principles govern the organization of our plants, creating a **cutting-edge and flexible industrial space that obtains the maximum potential from our facilities and equipment**, without overlooking quality and safety.

The advantage of this model is the ability to manufacture different products using the same production resources. It means **being able to better adapt to volumes and technological advancements**, which is very important given the market demand context, optimizing capabilities, and providing a more agile response to our clients.

Thanks to this conception, we have not only positioned ourselves as leaders in our products and final solutions, but also for our **capacity and excellence as an industry.**



Maximum efficiency



Sustainability



Adaptability in all our industrial processes



SUCCESS CASE

OUR PILOT PLANT, A REALITY OF FLEX MANUFACTURING

Among our industrial innovation ecosystem, we have a **real pilot plant, a pioneer in the application of Flex Manufacturing**. A production plant at the forefront of the industry that stands out for its ability to adapt to market demand with the greatest efficiency.

The principles of Flex Manufacturing become reality in this visionary space. Based on modular and generic installations, which are connected through autonomous mobile robots (AMRs), the **entire production flow is managed in real-time and coordinated by a software** that connects products, processes, and people.

A milestone that is possible through the application of massive IoT, which allows to switch with minimal downtime and reconfiguration, greatly **enhancing production agility as well as traceability of the entire process**.

Our pilot plant is the real step in Flex Manufacturing, a turning point that marks the path to follow to **continue shaping the technologies and products that make us unique in our sector**.



Playlist: Flex Manufacturing at Gestamp - principles and process

08

NEW ENERGY VEHICLES INNOVATION

We are witnessing one of the **greatest transformations in the history of mobility**. A new era of evolution marked by the **transition to electric vehicles, where multiple powertrains coexist**, from combustion engines to hybrid and plug-in hybrid cars.

At Gestamp's Technology and Innovation Office, we are leaders in all automotive new trends and we head up their development by **creating solutions that define their new rules and adapt to all their needs**.

Leveraging science, engineering and our technological expertise, we are one step ahead by **creating the key pieces for the new electric architectures** through:



Lightweight for vehicle range



Adaptation to new safety requirements

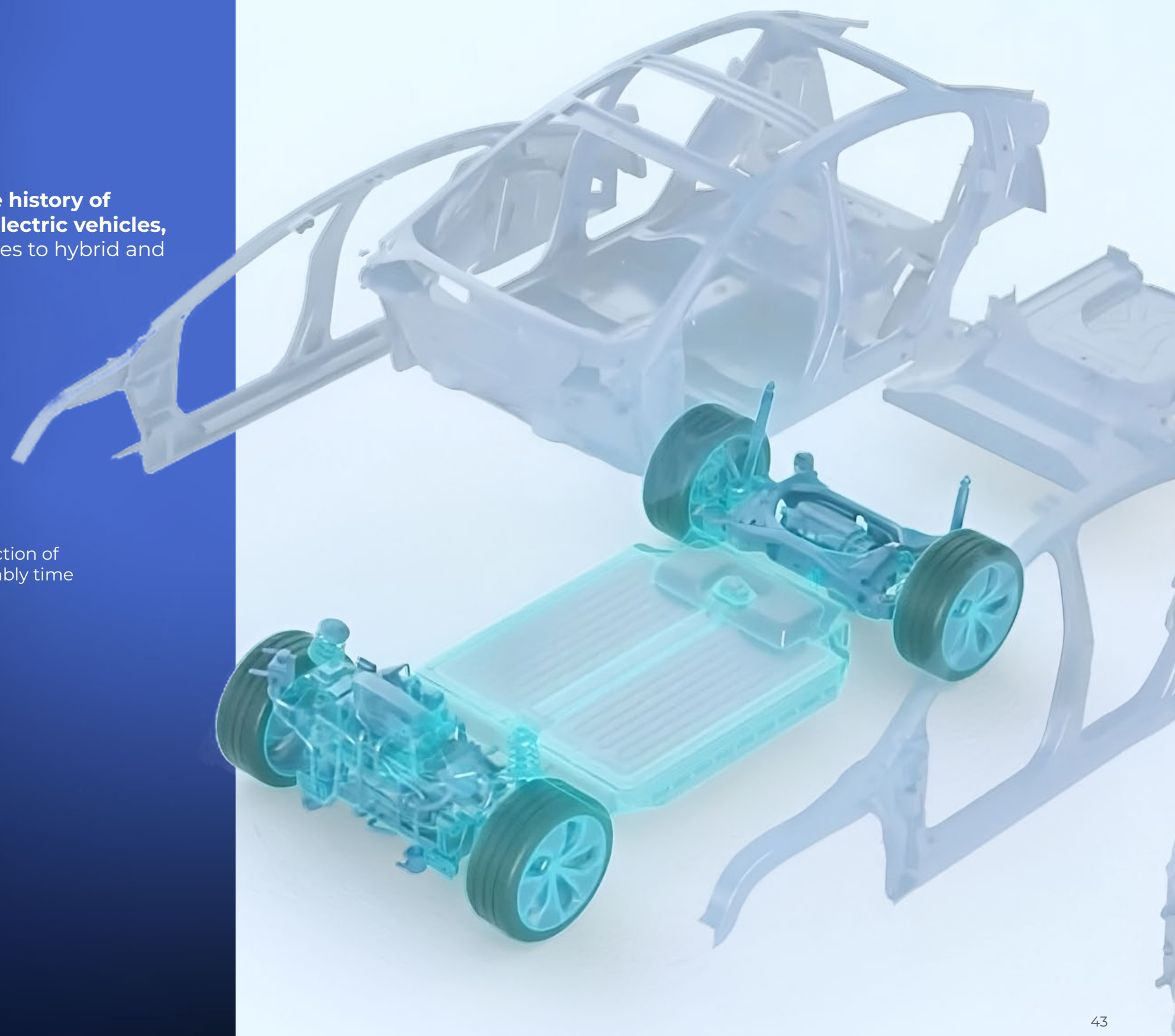


Reduction of assembly time

Our products, created with the most advanced technologies and processes, integrate **sustainability, safety, and innovation**. Always adapted to what clients need even before they have imagined it, tailored to their requirements, and integrating different functions to reduce cost and production time.

We are **making mobility progress a reality with our family of electric vehicle products**, working hand in hand with legacy and new automotive manufacturers.

Products like GES-GIGASTAMPING®, new aluminum components, or our GES-ENUBOX® are examples of our new high technological solutions for electric cars.



NEW ARCHITECTURES FOR ELECTRIC VEHICLES

Our revolutionary solutions allow us to create the components that shape and support what new electric vehicles require.

Challenges of new EV architectures



New **requirements** in cell chemistry, safety, cost, assembly time, CO₂ and worldwide scalability.



Their **weights have risen around 35%**, increasing crash loads and their vision and adaptability.



Emerging trends: **EV architectures are moving towards cell to body.**

We are heading this way thanks to our adaptability and vision, with which we create products and solutions in all our areas to shape the mobility of the future.

On this path, our BIW and chassis developments play a key role.

Changes in front and rear units in EVs



The **wheelbase of the car is widened** to have more space for the battery. In addition, the **chassis work in crash** thanks to its forward and backward displacement, and the whole structure is protected with **components created with hot stamping.**



Continued **evolution of architectures** following the electrification of cars.



The increased weight requires the BIW and chassis to **manage the rear and front collision as a joint system.**



New materials required to support the development of safer and lighter EV vehicles.



Need of **new developments in chassis products** because of **reduced sized e-motors and large EV batteries.**



Increasing **Gestamp's competitiveness** in the EV market thanks to:

Body in White

GES-GIGASTAMPING®. Our extreme size parts mean a competitive solution in weight, sustainability, cost and reduction time in assembly by the client.

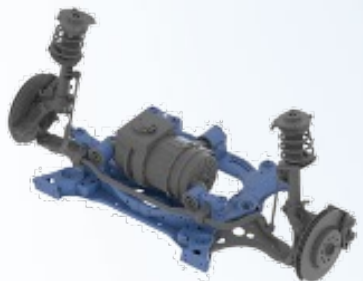
GES-ENUBOX®. Our battery box solutions meet the needs of electric vehicles thanks to their adaptability in design and materials, safety, and high performance.

Chassis

New axle concept and integrated engine mounts.

A revolutionary integration of the EV engine in front subframe.

- **Part and weight reduction.**
 - Fastening brackets.
 - Extra parts for engine variation.
 - Fastening screws.
- **Savings on assembly processes.**
- **Better utilization of installation space.**
- **Significant cost reduction.**



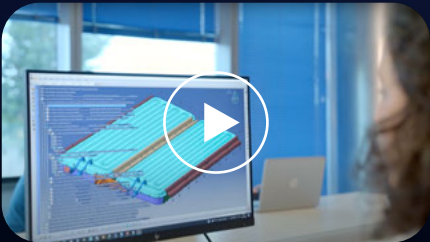
SUCCESS CASES

GES-ENUBOX®, AN ELECTRIC TURNING POINT

At Gestamp, we have developed a key part for the new electric vehicle architectures: the GES-ENUBOX®. These products, which are part of our **proprietary solutions**, represent a turning point in the design of the structure of these new cars, and play a fundamental **role in safety, lightweighting and cost optimization**.

In this structure, there is a key element: **the Battery Box**. This high-engineered product, made up of other parts such as battery trays or covers, has been created to integrate different functions in a single component.

They **protect the batteries with the lowest weight and maximum efficiency**, always adapted to our customers' needs in an exercise of continuous co-creation.



Video of Gestamp Energy Unit



Video of Gestamp Feather Light

Types of battery boxes:



Aluminum Battery Box:
Today's preferred state of the art solution.



Steel Battery Box: Preferred solution for cell to pack design.



Composite Battery Box (new lightweight concept): Battery Box upper covers and underride protection are using composite materials for lightweight concept.

Our Battery Box solutions is distributed in:

10 countries*
3 continents*

* In 2024

From the small city car to the SUV, we are pioneers in its development, co-creating the best solutions with our clients to offer them the **maximum quality guarantees in steel, aluminum and composites**.

The best processes, proprietary technologies and new products, a track record of experience and leadership, a brilliant team, **all at the service of the safest and most sustainable mobility**.



Technology & Innovation at Gestamp.
Corporate messages.