EN

SUCCEED IN TRANSFORMATION



WE SUPPORT YOUR TRANSFORMATION

Our Mission Statement

Mubea significantly contributes to the success of sustainable mobility with its core competence: the development and production of best-in-class lightweight solutions.

In addition to the automotive industry, we want to successfully establish our core know-how especially in micromobility and aviation. In this context, we will be climate neutral with all of our activities by 2035.

Mubea is committed to creating exceptional value for all our stakeholders with superior expertise and extraordinary engagement. We stand for collaboration based on trust and fairness with our employees and offer long-term professional growth.

Our future success is based upon the solid and proven values of a family-owned company. We act in a long-term sustainable manner building upon our "**DRIVEN BY THE BEST**" corporate culture!



The TRANSFORMATION of the global MOBILITY industry continues at full speed!

Mubea continues to focus on INNOVATION, SPEED and COST as a commitment to our customers worldwide!

Dr.-Ing. Dr.-Ing. E. h. Thomas Muhr
Managing Partner – CEO

light.efficient.global.
Who we are

- Lightweight specialist for automotive and aviation components as well as micromobility
- Owner-operated family company since 1916
- Vertical integration from raw material to the finished product
- In-house development of production processes



Ambitious. Reliable. Financially stable.
Key figures 2025

- 17,200 employees worldwide
- 70 production, development and sales locations worldwide
- Investment ratio of 10% of revenue
- EUR 3.6 billion revenue



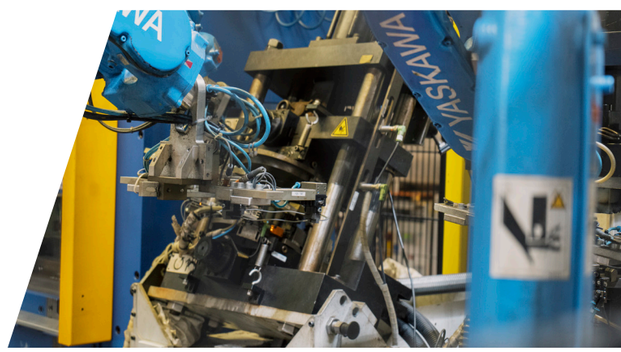
Investments. Plants. Projects.
2025 & 2026

Recently launched production:

- Aviation – Ergene, Türkiye
- Steel Tubes – Yangzhou, China
- GFRP UBP – Žebrák, Czech Republic
- Rollbonding – Košice, Slovakia

New investment projects:

- Carbo Tech – Tangier, Morocco
- Carbo Tech – Prnjavor, Bosnia and Herzegovina
- Carbo Tech – Kežmarok, Slovakia
- Composite Springs – Saltillo, Mexico
- Coil Springs – Guangzhou, China
- EV Campus – Taicang, China



ROADMAP

First-to-Market Innovations

1990

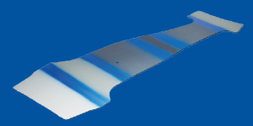
1990
Side-Load Spring



Tubular Stabilizer Bar
1996



2001
Flexible Rolling



CFRP Monocoque
2010



2013
Belt Tensioner (DAT)



Separating Spring
2014



2016
Premium Wheels



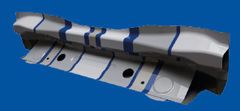
GFRP Tension Leaf Spring
2018



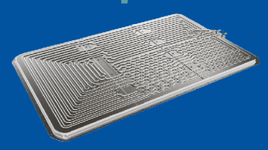
MLR Coil Spring Systems for BEV
2021



2022
TRB BEV specific components



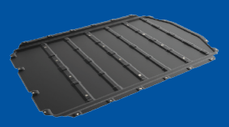
Roll-bonded Cooling Plate
2022



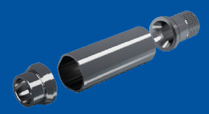
2022
U-Mobility Cargo



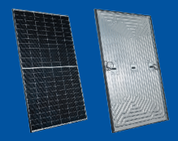
GFRP Underbody Protection
2024



2025
E-Rotor Shaft



PVT-Module
2025



GFRP Transversal Leaf Spring



Adaptive Stabilizer Bar



2030

CHASSIS

Stabilizer Systems

The vertical integration of our value chain and our global presence guarantee a high degree of flexibility and design freedom.



CHASSIS MACS – Mubea Advanced Customized Stabilizer Bar System
Development and production from a single source

Thanks to our high level of vertical integration, we cover the entire value chain from steel strip to a fully developed, validated and tubular stabilizer bar system ready for serial production, including various chassis components. MACS provides the most efficient stabilizer system for each specific application. We achieve this through high-strength tubes and Mubea Tailored Tube (MTT), innovative interfaces and new concepts for stabilizer links and clamps. This enables weight savings of up to 20% for our customers without additional cost.



CHASSIS MARD – Adaptive Stabilizer Bar System
Perceivable increase of driving dynamics without influencing driving comfort

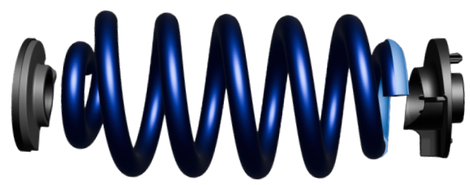
Our mechanically adaptive stabilizer bar with damping function (MARD) noticeably improves driving dynamics and steering behaviour while maintaining the same level of vertical comfort, at approximately one-third of the cost of a fully active system.



CHASSIS

Coil Springs / GFRP Springs

With modern axle spring and GFRP spring solutions, Mubea combines maximum lightweight design potential with high load-bearing capacity, optimal ride comfort, and sustainable efficiency.



CHASSIS MLR Coil Spring System
Maximum lightweight design and robustness at no additional cost

For our holistically computer-optimized coil spring systems, we use the cost-optimized lightweight material SLM2080 together with an optimized end-coil protection solution. Depending on customer requirements, either our new cost-efficient MSP (Mubea Smart Protection) technology or DuraConnect is used. By extending wire diameters up to 23 mm, we achieve weight savings of up to 15% compared with hot forming, even for high-load vehicles. We also offer NVH-optimized interfaces.



CHASSIS GFRP Transversal Leaf Spring for new BEV-axles
Weight reduction and additional installation space for BEVs

For BEV applications, we have developed a GFRP transverse leaf spring that integrates the functions of coil springs, stabilizer bars and links into a single component, replacing the multi-link-axles. This can save up to 15 kg of weight while reducing costs. It also creates additional space for the battery.



BODY

TRB & MRP

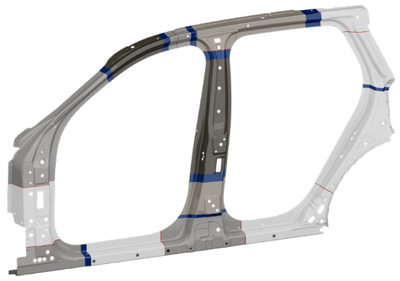
With new processes and materials, we continuously pursue weight reduction, functional optimization and integration, and optimum material utilization.



BODY TRB Applications for BEVs
TRB bumper for electric vehicles

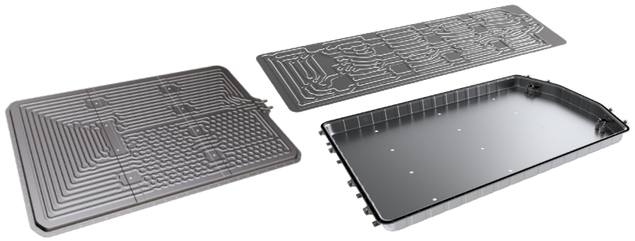
Our established TRB solutions make a significant contribution to improving function and weight in the body in white. With our extensive expertise in the design and production of safety-relevant components with variable wall thicknesses, we achieve significant weight and cost-saving potential for electric vehicles.

Increased crash and safety requirements for electric vehicles call for new lightweight solutions offering greater functionality in smaller package space. The TRB bumper is a compelling example of a TRB application for electric vehicles: in addition to a 20% weight reduction, its optimized design and improved material utilization meet the demanding requirements of frontal crash performance.



BODY TxB for Large Components
For the highest functional requirements

Tailor Rolled Blanks (TRB), welded before forming, open up lightweight design potential by enabling load-specific integration of individual parts or reinforcements, combining different materials and reducing investment in tooling and joining. This technology, referred to as TxB, offers outstanding benefits particularly for large components with demanding functional requirements, such as floor structures or side structures for electric vehicles.



BODY Components for Battery Housings
Roll-bonded cooling plates

Thanks to our systems and technology expertise, Mubea can use this continuous hot-rolling process to offer both high-quality flat cooling plates and complex formed cooling components with cost savings of up to 20%. The components offer a high degree of design flexibility and can also be manufactured from high-strength aluminum grades, supporting a recycling rate of up to 100% for the relevant material.

BODY

Mubea Carbo Tech

Mubea develops CFRP product solutions and the corresponding manufacturing technologies. This enables large-scale production of body structural and hybrid components, as well as complex monocoques and exclusive visible-carbon components with thermoset and thermoplastic matrices.



BODY GFRP Underbody Protection
GFRP material with a sandwich core instead of aluminum

Our GFRP underbody protection with a sandwich core provides a weight saving of more than 10 kg compared with an aluminum solution while offering exceptional protection for the battery housing. All components are manufactured in a fully automated process for large-scale production applications. In addition to its weight advantage, the solution can increase range and payload, provide better thermal insulation than metal, use non-conductive and corrosion-resistant material, and improve acoustic performance.



BODY Full-Carbon Roof
Exceptional weight savings in the upper vehicle area

The full-carbon roof provides a sporty appearance for exclusive vehicles. The significant weight reduction substantially improves driving performance and active safety. Advanced automated manufacturing processes increase cost efficiency.



BODY Lightweight Carbon Hybrid Seat
Fully developed in-house by Mubea

This high-performance seat combines a hybrid design with a carbon look, low weight and competitive cost. Based on a new hybrid lightweight structure, the Mubea performance seat achieves a weight reduction of approximately 30% compared with current sports seats. It also reduces cost compared with full-carbon seat solutions. All comfort and safety components used in production seats can be integrated.



BODY Fiberject®
Appearance and efficiency

Fiberject® by Mubea Carbo Tech is a cost-efficient process for the high-volume manufacturing of visible carbon parts with outstanding appearance in interior and exterior applications. Fiberject® components are characterized by high cost-efficiency and full recyclability.

POWERTRAIN

Powertrain

As a market leader, we develop and manufacture numerous products for powertrain applications. Powertrain technologies are currently undergoing major changes. We aim to play an active role in shaping this transformation. We see ourselves as lightweight construction specialists who implement customer-specific solutions worldwide in the shortest possible development cycles.



POWERTRAIN E-Rotor
Excellent performance combined with cost optimization

Mubea has used our core competencies to optimize components for rotors in e-motors. The flexible rotor shaft, the spring-loaded balancing discs and the spring-loaded magnet fixation lead to simplified assembly processes and result in reduced production costs. The optimized e-rotor offers potential for higher power densities as it is suitable for speeds above 20,000 rpm.



POWERTRAIN Belt Tensioner Systems
The solution for innovative hybrid applications

Mubea has been developing belt tensioner systems for conventional and hybrid powertrain concepts for more than 30 years. The systems provide optimum belt tension, reduce wear and noise, and improve drivetrain efficiency. Dual Arm Tensioner Systems in particular offer advantages such as reduced mounting space and lower CO_2 emissions.



RETHINKING MOBILITY

Mubea U-Mobility

Mubea is known worldwide as an innovative lightweight specialist in the automotive industry. We use this industrial experience to develop sustainable mobility solutions beyond the conventional automobile as an established and scalable partner. In doing so, we bring zero-emission and cost-effective micromobility vehicles to market: robust, customer-specific and designed to set new standards for professional urban mobility.

E-CARGOBIKE – A BIKE AT HEART, BUILT LIKE A CAR

High-quality components combined with outstanding German engineering and manufacturing expertise. Our E-Cargobikes set new standards in robustness, functionality, ergonomics, payload and riding safety. Thanks to their commercial-vehicle DNA and functional design, they are engineered for professional day-to-day use.

The vehicle platform is based on a lightweight and robust aluminum frame with stabilizer bars, double-wishbone suspension, and spring-damper units on the front and rear axles. Specially developed 16-inch performance wheels with aluminum rims ensure high riding safety and versatile use in cargo applications.

With up to 2 m^3 of cargo volume, a payload of 250 kg and a range of up to 50 kilometers, our E-Cargobikes bridge the gap between bicycles and small commercial vehicles. They can use cycle lanes, avoid congestion and enable efficient delivery, service and municipal applications.
The robust, chainless drivetrain reduces wear in daily operation. At the same time, the stable vehicle architecture, ergonomic design and low operating costs make this an economical and practical mobility solution.

Whether for parcel delivery, campus logistics, mobile advertising or service applications, our E-Cargobikes offer highly effective solutions for a wide range of sectors, both as individual vehicles and as fleets.

In 2026, more than 1,200 Mubea U-Mobility cargo bikes are already in use in locations ranging from major German cities to London, Barcelona and New York.

E-CARGOBIKE SELECTION



PACK
The efficient electric cargo bike for businesses and delivery services



BASE
The modular platform for individual transport solutions



CIVIO
The E-Cargobike for urban and municipal applications

Configure your own cargo bike and visit us:

WIDE PORTFOLIO OF LEADING-EDGE TECHNOLOGIES

Aviation

Mubea Aviation develops and manufactures high-precision components, large assemblies and integrated structural components for the aviation industry. Steel, aluminum, titanium and plastics are processed using metal forming, machining, surface treatment and assembly processes. Our portfolio also includes composite components and assemblies made from thermoset prepregs, thermoplastics and using RTM processes.

Machining

Our CNC machining capabilities consists of modern machining centers with up to five-axis capability. This enables full machining of aluminum plate material and formed sheet metal parts made of aluminum, steel and titanium with the highest precision.

Forming

Thanks to modern equipment such as our Flexform press, we are able to manufacture complex formed components. We cover the full range of forming processes, from deep drawing, punching, pressing, hydroforming and bending through to roll forming.

Heat Treatment

We operate heat treatment equipment qualified by Nadcap for solution heat treatment and artificial aging of aluminum alloys as well as for the heat treatment of titanium components.

Testing and Surface Treatment

A major advantage of Mubea Aviation is that testing (NDT) and surface treatment at the end of the process chain are carried out in-house. These processes include tartaric sulfuric acid anodizing as well as coating components with primers, top coats and special coatings such as BR 127.

Assembly of Large Components

Mubea Aviation has extensive expertise in assembling complex large metallic structures for the aviation industry. Our capabilities include the integration of large structural components, high-precision joining processes and the pre-installation of selected aircraft systems. As a result, we deliver assemblies with a high degree of integration and reduce assembly effort in final aircraft assembly.

Modern assembly facilities, qualified personnel and automated and manual drilling, riveting, joining and installation processes enable cost-efficient serial production of complex assemblies. Thanks to our integrated value chain, we ensure high quality standards, short lead times and maximum delivery reliability.

Engineering

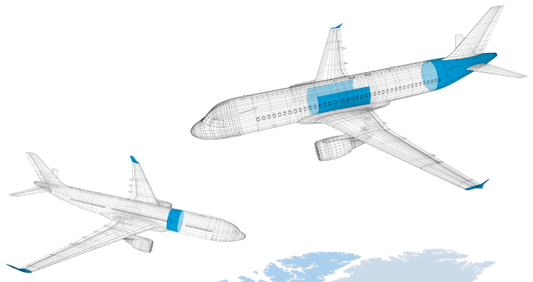
Mubea Aviation supports customers in the development and design of composite and hybrid structural components and assemblies. Using state-of-the-art CAx tools, we cover the entire digital-twin process chain, from design definition and material and process selection through to manufacturing processes. Mubea Aviation also supports customers in the industrialization of new programs as well as in transferring and ramping up complex manufacturing and assembly processes.

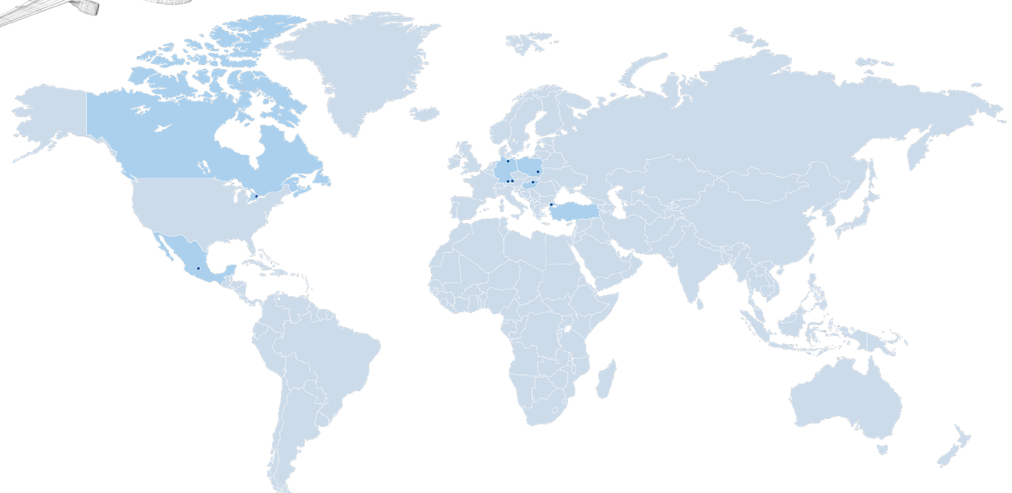
Composites

Both thermoset and thermoplastic materials are processed into thin-walled or hollow components. Various textile preforming methods, such as Tailored Fiber Placement (TFP), stitching and braiding, are used in combination with binders. The preforms are then processed using resin infusion, Resin Transfer Molding (RTM) and wet compression molding. We also offer curing of prepregs in autoclave and out-of-autoclave processes, as well as thermoforming and injection molding.









PRECISE.INNOVATIVE.GLOBAL.

Mubea Precision Steel Tubes

TECHNOLOGY PARTNERSHIP

We support our customers as a long-term partner from the product idea through to production delivery. By efficiently linking our engineering and materials expertise with our production and logistics processes, we tailor our approach to specific customer requirements. The foundation for successful solutions and product innovations lies in our own process and tool development. As part of our process support, we coordinate collaboration between suppliers and partners. Long-term partnerships and dialogue play a central role.

PROCESS EXPERTISE

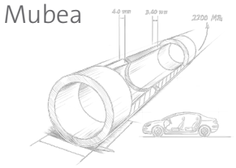
Welding, heat treatment, drawing and processing form the basis of our expertise. We transform steel strip into precision tubes, join the strip edges reliably and use controlled heat treatment to achieve optimum material properties. Drawing and forming processes create complex geometries with high precision. In-house tool development and modern machining centers ensure dimensional accuracy and tailor-made solutions for each customer.

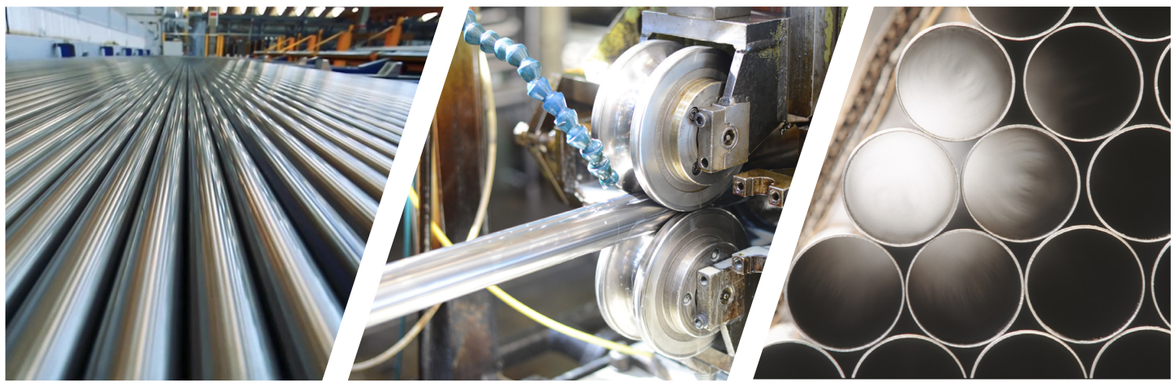
MATERIALS EXPERTISE

Steel combines robustness with ductility. Tailored material compositions combine high strength with the required flexibility. Our combined expertise in plastics and steel makes us an ideal technology partner. Together with our suppliers, we developed the high-strength 40MnCrB5 grade for a camshaft tube for camshafts with cylinder deactivation, meeting the stringent requirements for precision, strength and hardenability in serial production.

LIGHTWEIGHT DESIGN

The automotive industry faces new challenges in reducing CO_2 emissions through lightweight design. Mubea enables weight reduction through high-strength, air-hardening or heat-treatable materials while maintaining performance and reducing mass. Optimized tube technology increases efficiency and reduces total production costs, including through MTT Mubea Tailor Tubes.





INDUSTRY

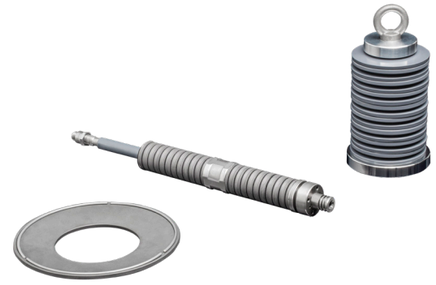
Mubea products for industry

In addition to components for the automotive and aviation sectors, Mubea manufactures customized solutions for industrial applications. As a quality supplier, we develop application-specific solutions in close consultation with our customers, combining flexible global logistics management with a high degree of vertical integration in product development and production processes.



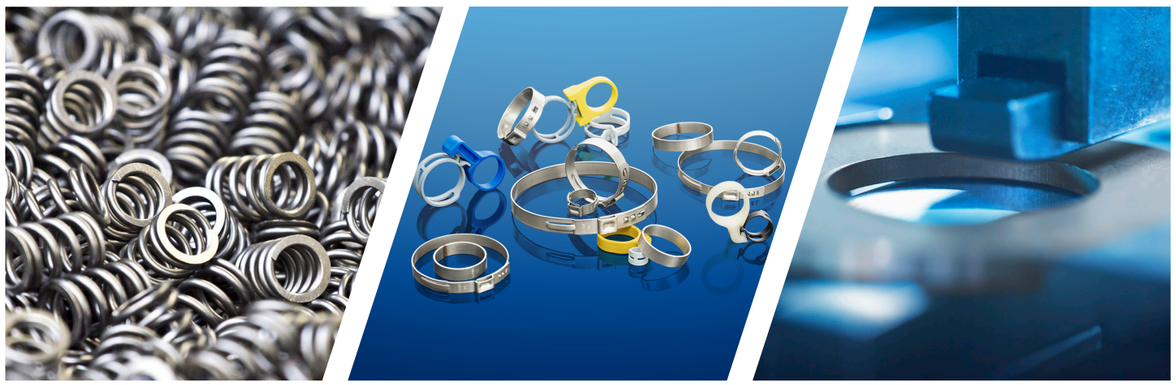
INDUSTRY Connecting Products
Intelligent joining solutions for maximum efficiency and reliability

Mubea develops innovative connecting solutions for demanding applications. High-performance Connecting Products provide secure and durable connections with reduced weight and easy assembly. Optimized designs and efficient manufacturing processes reduce costs and ensure reliable performance.



INDUSTRY Disc Springs
High spring forces with minimal installation space

Mubea develops high-quality disc springs for demanding industrial and mobility applications. Optimized geometries and state-of-the-art manufacturing processes provide high load capacity, long service life and reliable performance in minimal installation space. Individual designs also enable optimum adaptation to specific requirements.

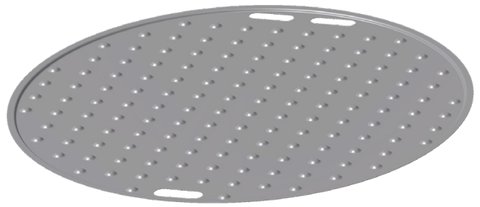


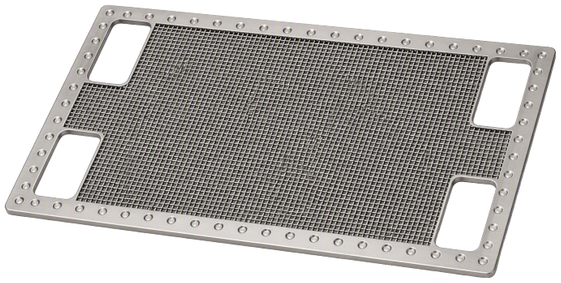
INDUSTRY

Hydrogen Technology

WHY MUBEA DISC SPRINGS?

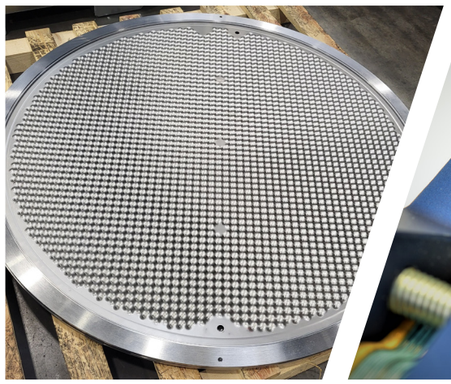
Mubea Disc Springs offers customized disc spring solutions from a single source, from development and prototype production through to serial production. With a dimensional range from 5 to 1,000 mm and a broad selection of materials, we create optimum solutions for a wide variety of applications. As an experienced production supplier for hydrogen electrolysis, Mubea benefits from extensive industry know-how. Individual coatings provide corrosion protection and reduced friction, while pre-assembled disc spring stacks simplify integration at the customer. The portfolio is complemented by development services such as real characteristic curves, service-life analyses and validation tests.

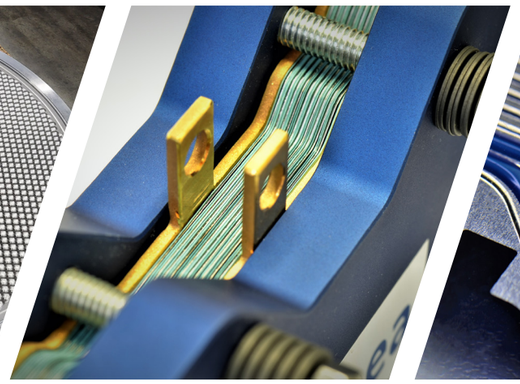


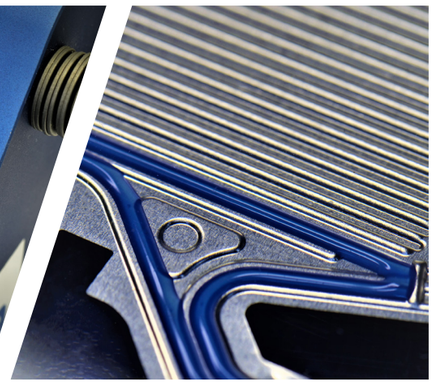


WHY MUBEA HYDROGEN?

Mubea Hydrogen combines decades of automotive experience with innovative hydrogen technologies. The company develops and produces components such as disc springs, bipolar plates and electrodes, supporting customers as a reliable partner from development through to serial production. Flexible production processes, modern forming and simulation methods and large-scale production capabilities create the conditions for scaling up the hydrogen economy. Ongoing development projects, planned automated production lines and high-performance press technologies up to 50,000 kN underline our ambition to actively drive innovation in the hydrogen market.





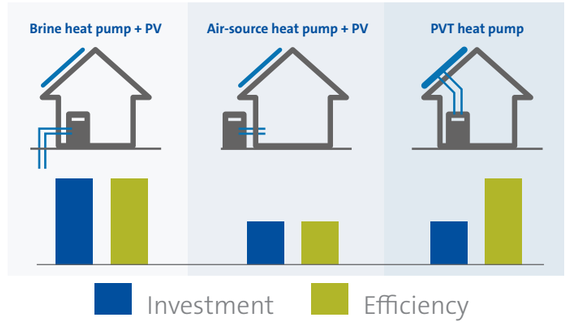


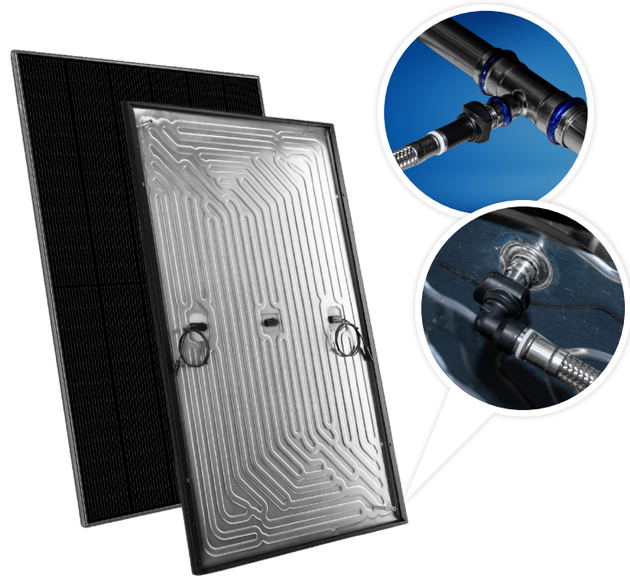
FROM BATTERY COOLING TO THE SOLAR ENERGY TRANSITION

PHOTOVOLTAIC-THERMAL MODULES

WHAT ARE PVT MODULES?

Since 2025, Mubea has been producing hybrid photovoltaic-thermal modules (PVT). These combine electricity generation and heat generation in a single solar module. Mubea applies its know-how from roll-bonded cooling plates for electric-vehicle batteries to renewable energy applications.





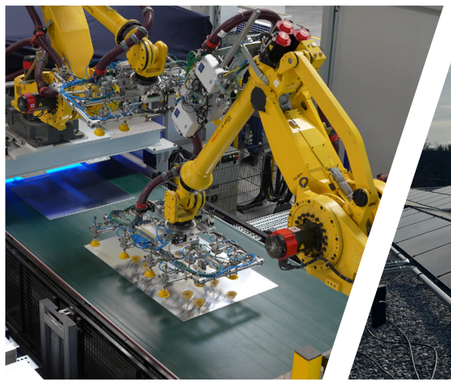
ADVANTAGES OF MUBEA PVT

Electricity & thermal energy from a single solar module
Overall efficiency of up to 80%

Monovalent heat source for brine heat pumps
No drilling, no outdoor unit, no disturbing noise

Most efficient cost structure
Production on high-volume automotive manufacturing lines

Plug-and-play hydraulic installation
Using a specially developed push-button quick coupling







DRIVEN BY THE BEST

The Mubea Way

WHO WE ARE

WHAT WE OFFER



ambitious
We have courage and perseverance. We set ambitious goals and successfully bring innovations to market.

focused
We set clear priorities and concentrate on what we do best. Great achievements are generally reached step by step.

open-minded
Different opinions and constructive discussions lead us to the best solutions. That is why we remain open to new ideas and developments.

light
Through process innovations and new high-strength materials, we continuously reduce the weight of many of our products. This saves fuel and conserves natural resources.

efficient
Every idea counts! Eliminating waste and driving continuous improvement through every individual employee contribute to our company's success.

global
Our global presence ensures the worldwide availability of our products, exactly where you need us and our know-how.

MUBEA ENABLES CLIMATE-FRIENDLY MOBILITY

Sustainability

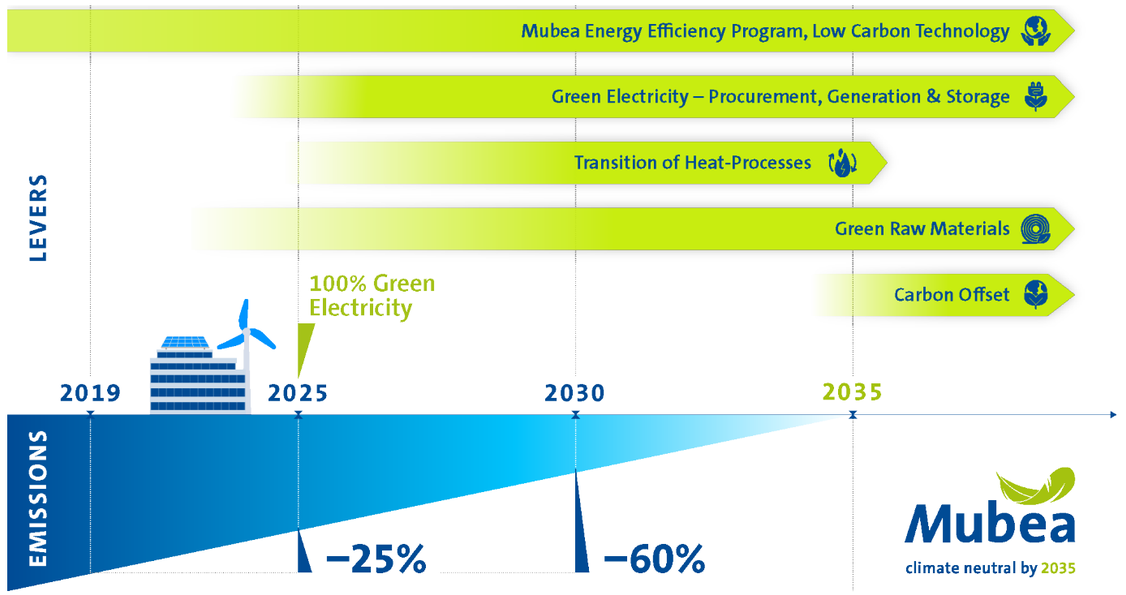
With our lightweight expertise, we help reduce material use and energy consumption and lower CO_2 emissions throughout the entire product life cycle.

Our climate targets are science-based and have been validated by the Science Based Targets initiative (SBTi) in line with the 1.5 °C target. We have already achieved significant parts of our near-term climate targets. By switching all locations worldwide to 100% renewable electricity on an accounting basis from 2025, we have reduced our Scope 1 and Scope 2 emissions by more than 50% compared with the 2019 base year. At the same time, we have reduced our specific Scope 1 to 3 emissions by 24.2%, almost reaching our internal interim target of 25%.

The next major lever lies in the value chain. The majority of our corporate carbon footprint is generated not in our own plants, but in the production of purchased raw materials and materials, with steel accounting for the largest share. Together with customers and suppliers, we are therefore working on CO_2-reduced materials, circular supply chains and innovative technologies to further reduce the product carbon footprint.

In addition to cost-optimized standard solutions, we already offer our customers CO_2-optimized product and production pathways. The associated additional costs are presented transparently and passed on along the value chain.

We continuously develop our production processes. Our global energy management and in-house plant engineering help us increase energy efficiency and electrify energy-intensive processes wherever economically viable. We also invest in intelligent energy systems and storage solutions to make the long-term supply of our locations more sustainable and resilient. Our goal remains to be climate neutral by 2035.





Muhr und Bender KG
Mubea-Platz 1
57439 Attendorn
Deutschland
Tel.: +49 2722 62 0
E-Mail: info@mubea.com
www.mubea.com

Mubea