

BERGMANN

YOUR EXPERT FOR CASTING SOLUTIONS



CYLINDER LINERS FROM BERGMANN AUTOMOTIVE

Our performance – your quality guarantee

From the smelter to the finished liner



Each engine type and each engine production process is different – just like the solutions that Bergmann Automotive has for you. Our company is one of the market leaders for cylinder liners for engine block assembly and we offer our customers more than 60 years' experience in centrifugal casting and mechanical processing. As a key supplier to international subcontractors and OEMs, Bergmann Automotive has already worked with almost all well-known automobile manufacturers.

RELIABLE BERGMANN QUALITY SENDS A CLEAR SIGNAL

Highly precise, highly efficient, highly resilient: regardless of the size of the chosen production run, you will always receive optimum results from us that meet your requirements. There is no secret to this success – it's simply a case of thoroughness in every detail. We guarantee consistently high and tested product quality through continuous measures. It goes without saying that Bergmann Automotive has all the usual certifications that are important for our customers in the automotive industry.

Thanks to energy-efficient production methods, extensive recycling and environmental certifications, we can use raw materials efficiently, minimize costs and protect the environment.

WE UNDERSTAND COOPERATION

A high potential for innovation ensures each of our customers can enjoy optimal production processes at competitive conditions. We manufacture using machines and systems that we have designed and implemented ourselves and can therefore implement each of your requirements perfectly and to individual specifications. Our services at our 35,000 m² production site in Barsinghausen, Lower Saxony, cover all production tasks from the pre-production phase and the fully automated casting process right up to machining.



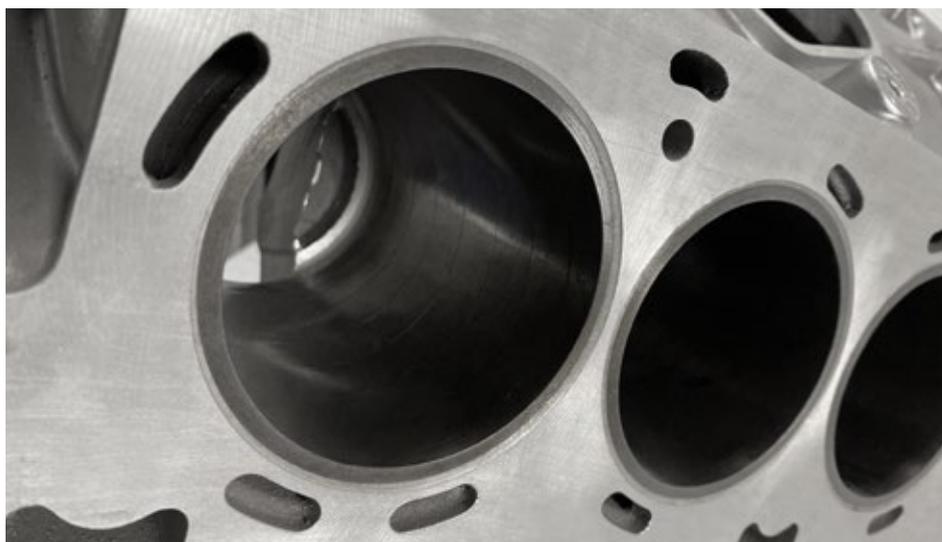
With Bergmann Automotive, you can rely on the timely, cost-effective implementation of your orders. Of course, we also make sure that you have an experienced expert at your side as your personal contact throughout the entire process. This is what Bergmann Automotive, a specialist with a global reputation, stands for.



Our products are based on our customers' needs

Initially, we are inventors at your service: from the first development phase of your product, we are happy to work intensively with you on request. We know that, depending on the design of your engine block, our cylinder liners must reliably meet a wide range of requirements in terms of installation technology, product performance, durability and cost-effectiveness. Depending on the application, we have the ideal solution for you.

We adapt the basic types of cylinder listed on this page to each individual customer concept using our decades of proven experience.



FLEXIBLE PROTOTYPE DEVELOPMENT IN PRE-PRODUCTION

From sample parts to small production runs: we give shape to your ideas, competently and quickly. We manufacture prototypes for new production runs within the space of a few weeks. This means that you can implement new concepts in the shortest possible time at the most economical conditions.

Short decision-making processes, maximum flexibility, fast, customized production: in this way, we ensure the optimum use of the time required to get your products ready for mass production.

THE BERGMANN PORTFOLIO



GROOVED LINERS

Bergmann grooved liners are the bestselling liners in the Bergmann portfolio.

Their outstanding features include:

- / Precise casting with small installation space
- / First-class dimensional accuracy
- / Customer-specific profiles
- / Secure fit in the engine block



STRUCTURED LINERS

Structured liners bond with the surrounding material after casting.

Their outstanding features include:

- / Optimal heat transfer
- / Secure fit in the engine block
- / Inseparable connection
- / Reduced deformation



PRESS-IN LINERS

Exceptionally thin-walled, thermally joined liners as an alternative to coated engine blocks. Their outstanding features include:

- / Lightweight liner concept
- / Optimal heat transfer
- / Optimum precision when installed
- / Minimum wall thickness



HYBRID LINERS

We give these liners a sophisticated coating for improved adhesion properties.

Their outstanding features include:

- / Optimal heat transfer
- / Applicability for special customer requirements



WET LINERS

Ready-to-install solutions for engine blocks. Their outstanding features include:

- / Easy replacement
- / Direct contact with the coolant
- / Optimal heat transfer

We create value for you

The high level of cost-effectiveness of all process stages and the rapid responsiveness of the implementations at Bergmann Automotive help you to optimize your value chain.



DEVELOPMENT

Take the pressure off your development department: in the engine industry, you need first-rate products at the cutting edge of technology. We meet this requirement through constant research, further development and improvement of our products and processes. Bergmann Automotive employs experts who know what the market wants and whose expertise is the basis for trendsetting innovations.



RAW MATERIAL PROCUREMENT

We use secondary metals that have been meticulously sorted and processed on our premises as well as recycled circuit materials such as metal chips of a high quality as raw materials for our cast liners. We have been sourcing raw materials from reliable and certified raw material dealers for many years. The entire storage area is covered so that the materials stay dry.



SMELTING PROCESS

More than 60 years of experience in smelting combined with the necessary metallurgical analyses ensure, among other things, unwavering casting quality at the highest level. By constantly adapting our processes to the latest technological advances, we ensure that the requirements of our customers are met both today and tomorrow.

AUTOMATED CASTING PROCESS

With unique process expertise and fully automatic casting carousels, we manufacture tubes using a high-quality centrifugal casting process. The casting carousels were manufactured exclusively for us based on the requirements of Bergmann Automotive.



SEMI-AUTOMATIC CASTING PROCESS

We have semi-automatic production capacities at our disposal for smaller batch sizes and prototypes for new production runs. The highest quality standards expected by our customers are also achieved in this area.



MACHINING

Following the casting process, the blanks are carefully processed on modern transfer machines or CNC-controlled production cells at Bergmann Automotive. It goes without saying that all customer specifications are taken into account and implemented. We design and build all processing machines ourselves in close cooperation with Bergmann Maschinenbau. Our plants are checked and maintained as a preventive measure by our own maintenance department.



QUALITY MANAGEMENT

High quality and precise manufacturing are our top priorities. This is why continuous quality tests are carried out in our own laboratory, precision measuring room and our test station, using 3D measuring equipment to determine mechanical and technical or metallographic material characteristics, for example. Our laboratory is equipped with the necessary equipment for analyses relating to mass production, such as hardness testing or structure evaluation.



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FROM BARSINGHAUSEN TO ALL OVER THE WORLD

Our company headquarters close to the capital of Lower Saxony, Hanover, is ideally accessible via the A2 and A7/A27/A29 motorways, enabling the delivery of our cylinder liners to all destinations. The port of Hamburg, as well as the container ports of Bremerhaven and JadeWeserPort are less than three hours' drive away, facilitating the onward transport of our cylinders to all regions of the world. For urgent international deliveries, Hanover Airport, which is located nearby, and Frankfurt Airport are available.

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