Complete modular solutions for the core shop
To meet all individual requirements for modern core shops...

Are you planning a new turnkey core shop, or would you like to modify, enhance, or optimise existing systems using individual components? Our product portfolio incorporates a comprehensive range for the most diverse requirements.

For all known core production processes using heated and unheated tools: Hot box, cold box, inorganic, coreing, CO₂, SO₂...

For all major casting materials: Steel casting, grey cast iron, light and heavy metal

For all modern casting procedures: Core package, green sand, low pressure die casting

For every degree of automation: From manual to fully automatic

... we have tailored solutions as a single-source provider

1. Laempe Innovation
   Research and process development for more competitive advantages

2. Laempe Engineering
   Tailored designs for optimum performance and efficiency

3. Laempe CoreSolutions
   Machines and systems for all core shop requirements

4. Laempe Automation
   Automation to meet your individual requirements

5. Laempe Service
   To ensure maximum lifetimes and availability for your systems and for competent advice

Images: The Laempe product portfolio comprises all areas of the core shop.
Customers can test their systems here
Our technology center has a comprehensive pool of equipment, ranging from laboratory equipment to production machines. This allows complex test series to be carried out for customers. This is particularly useful when launching new products and processes. We are happy to produce test series for you so that you do not need to interrupt normal production.

Running in of tools and production of cores
Our technology centre can also run in new tools for you or produce test series, pilot batches, and small runs. We can also help you out if you have production capacity problems by supplementing your production.

Laempe & Mössner’s research and process development department is our think tank. It is supported by the company’s own technology center. In addition to using this unique facility for our internal needs, we are also happy to use it to provide support to our customers.

Securing our market advantage
Theoretical models are tested in production-like conditions in our technology center at production scale and are developed until they are ready for the market. In addition to the continuous optimisation of our machines, we offer a range of further services for our customers.

Working today on the solutions of tomorrow
Sustainability is vital if we are to meet the challenges of tomorrow. When it comes to our research and process development activities, the major issues include ensuring environmentally friendly and efficient core production processes, reducing the use of consumables and operating resources, and optimising safety aspects.
If you are planning a new production line in your core shop or wish to modify an existing plant, contact us! We will be happy to help you realize this complex process with our excellent engineering services.

**Success is built on good engineering**

The initial planning or revision of a production line in a core shop is a complex challenge for any company. The required output quantity in a given period must be ensured – as must the quality. Extremely varied technical and technological aspects as well as local conditions need to be taken into account. Individual work steps and process cycles need to be defined. All this can be achieved with a detailed engineering phase and the help of experienced experts in advance.

**We have an integral approach**

Laempe & Mössner sees engineering as the detailed technical formulation of a solution concept for the realization of complex and specific customer requirements for core shops. The formulation of a technical solution includes shaping and optimizing relevant work processes with regard to efficiency, organization, and ergonomics.

**You get a tailored solution**

Laempe’s engineering team will create a complete plan of your core shop including a layout. All of your personal parameters will be taken into account: Production quantities, space utilisation plans, product specifications, production conditions, and daily operating times in single or multiple shift operation. In addition, important suppliers such as toolmakers will be involved during the engineering phase in order to prevent compatibility problems later on.

**The result: Well-grounded specifications for the realisation phase**

We simulate the feasibility of complex production lines using 3D process and material flow simulations and make optimisations regarding cycle times, production flows, and collision problems. Our extensive calculations are used to derive comprehensive specifications for the planned production line, such as the number of required machines and peripheral devices, the required quantity of consumable materials, and the appropriate level of automation.
The Laempe product range comprises all machines and systems of the core shop. Thanks to the modular system, the single components can be combined flexible with existing systems and expanded up to a tailor made complete system.

**Laempe CoreProduction**

Our comprehensive range of automatic core shooters includes models which have been tried and proven in production for many years as well as innovative new developments. We can supply solutions for the most varied of requirements - from simple laboratory machines to flexible machines for small and medium series and powerful machines for 24/7 operation.

**Laempe CoreApplications**

Laempe & Mössner's CoreApplications division provides solutions for tasks following core production. These tasks range from core removal (handling, pick-off, robots), core processing (definning, drilling, coating, drying, and coding), vision systems, core assembly (gluing, screwing, tacking, and assembling) and logistics (transportation and storage etc.). The Laempe CoreApplications division ensures an efficient process flow by reliably harmonising all sub-systems. The possibility of subsequent enhancements and changes to systems is also assured.

**Laempe CoreSand Preparation**

Laempe's CoreSand Preparation range includes finely tailored individual components and complete systems to meet the specific requirements of sand preparation in the different core production processes. In addition to the main products - mixers - this includes systems for sand and binder supply, transportation, and storage. If required, we can combine individual components to create a complete turnkey sand preparation system.

**Laempe CoreHardening**

When it comes to gas hardening processes, Laempe & Mössner gassing units are the optimum complement to all core shooters. They are characterised by short gassing times and low consumption of hardening gas. Laempe's CoreHardening solutions can be provided integrated into our compact machines or as highly efficient add-ons to other automatic core shooters.

**Laempe CoreBox Applications**

Regular cleaning significantly lengthens core box life and greatly improves core quality. Laempe & Mössner offers semi-automatic and fully automatic tool changers and cleaning systems.
Laempe Automation
It's simple: Everything from a single source - no interface problems!

We see automation as a holistic concept. Production efficiency can be consistently improved by means of automated processes. The automatic collection and analysis of production data also facilitates continual improvement.

We will automate your processes to the extent required
Laempe & Mössner can supply automation services for all core shop areas: Core sand preparation, core production, core transportation, and subsequent core treatment - for individual components with the degree of automation you require or as complete solutions including the full automation of your entire core shop. With Laempe & Mössner, you only have a single contact partner - which means no interface problems.

Support as early as the concept planning stage
The degree of automation that's right for your company depends on your specific production requirements. For example, this includes the required product quality, quantity, financial aspects, and your company's corporate philosophy. We will be happy to provide detailed engineering support in the start-up phase.

Make the most of our know-how
Great automation solutions are always concepts developed for the customer. And although sometimes the solution can be quite complex, thanks to many years of experience in handling sand cores, Laempe & Mössner has the required technical expertise to meet the challenge.

A great addition - Laempe operating data collection
Production monitoring and continual improvement measures are becoming increasingly important. Consumption needs to be determined, technical availability needs to be increased, and the production efficiency of your core shop must improve constantly. To ensure this, you need a top-quality operating data collection and analysis system.
Laempe operating data collection (BDE) is a comprehensive data system for the collection and analysis of production-specific process parameters in core shops. In addition to consumption figures, cycle times, quantities, and reject rates, the system also collects availability data and information on the causes of downtime. The integrated evaluation module enables statistical analysis in the form of graphics or tables.
Prompt supply of spare parts

In order to keep machine downtimes to a minimum, we keep distances and delivery times for our spare parts as short as possible. We keep large stocks of all commonly required wearing parts and important spare parts at our own high bay warehouse, in addition to spare parts stocked at our partner’s facilities around the globe. Our spare parts team is on hand to provide competent advice whenever you need spare parts. Thanks to close collaboration with our logistics experts and service team, the fastest possible delivery and assembly times are ensured.

Particularly cost-effective – customer-specific spare parts packages

In many cases, it makes sense for you to keep a small stock of commonly required wearing parts and important spare parts at your own premises. With this in mind, we can compile spare parts packages which are especially tailored to your systems and requirements. This service increases the availability of your systems and thus makes your production more efficient.

Benefit from our revision and maintenance agreements

For all our products, we place a high value on great material quality, precise machining, and extensive final quality controls. We recommend professional maintenance to keep your systems working smoothly. Laempe & Mössner can offer you individual revision and maintenance agreements to keep your systems in great condition.

Ensure efficiency: Retrofitting, conversion, overhauls

We use innovative developments to make our products even more powerful and efficient. You and your machine pool can also benefit from this. We would be happy to talk to you about possibilities for further increasing the efficiency of your existing systems by means of retrofitting your machines with contemporary technology. Our re-engineering services are available for control system, drive technology, and process modifications, for example.

IF PROBLEMS DO OCCUR:
OUR HOTLINE AND ON-SITE SERVICE

Our hotline is manned by competent personnel who are ready to help you. If we are unable to solve your problem over the telephone or by means of remote maintenance, we’ll come to you. Our specially trained service employees will provide all-round help.
You don't just need any solution - you need the best solution for you.
The requirements of your core shop are just as individual as the products you produce: The best possible technologies need to be combined in accordance with the core production process and casting process you use and the desired level of automation. And this needs to be done throughout the entire process chain: Sand preparation, core production, subsequent core treatment, automation etc.

If you want a successful future, you need a strong partner
Whether you want a new turnkey core shop or to enhance and optimise existing systems using individual components, you need a competent partner who can provide everything you need: Innovative solutions, intelligent engineering, reliable product quality, cost-effective automation, and efficient services at attractive prices.

Laempe & Mößner is a comprehensive single-source supplier
As a global leader, Laempe & Mößner is the right contact partner for you - regardless of the size of your company or the tasks at hand. We have all you need to progress: many years of experience, innovative technologies, and highly specialised experts whatever your problem.

We have the best possible solution for you
In most cases, we will already have come across similar problems to the one you are facing. We have developed solutions for many of these problems - and these solutions are now proving their worth on a daily basis at our customers' sites. In addition, when it comes to new challenges we have the structures, methods, and processes needed to develop tailored solutions just for you.

Contact us!
Let us provide you with personal advice - we'll be glad to take time to help you

www.laempe.com
Solution expertise from a strong partner
Laempe & Mössner GmbH is a global leader in core shop technology for the casting industry. As an innovative developer of complete solutions, Laempe & Mössner offers a comprehensive range of core shooters, gassing devices, sand mixers, sand preparation systems, and subsequent core treatment solutions in addition to solutions for the automation, networking, and intelligent control of core shops. The incorporation of Hottinger and Röperwerk in 2009 allowed us to acquire top-quality know-how and expertise developed on the basis of more than 15,000 delivered systems. Our sales offices and network of around 25 sales partners and representatives ensure high-quality, competent support for our customers all around the world.