

LSP

LAEMPE CORESAND PREPARATION

Systems for the preparation
and supply of sand

IT'S ALL IN THE MIX:
MODULAR SOLUTIONS FROM A SINGLE SOURCE

YOUR PERFECT CONCEPT IS AS INDIVIDUAL AS YOUR COMPANY

You need the best possible combination of suitable individual components – finely tailored to the specific requirements of your company. Do you need big bags or an external silo with a sand sender and sand sender line? Or perhaps several silos for different types of sand or binders for various processes? Would a classifier for heating, cooling, or removing dust make sense? Do you want to use one or more additives? What factors are of vital importance when it comes to setting up your sand transportation system?



Mass production with series quality
Laempe sand preparation systems have been used successfully around the world for many years. Thanks to their modular structure, you get the best of both worlds: Tailored solutions and the peace of mind that comes from knowing that our products have been tried and tested in practice hundreds of times.



LM HORIZONTAL MIXERS

The LM mixer series incorporates volumetric metering of sand, binders, and additives. It is suitable for supplying single and multiple machines. The system is self-cleaning and can mix different sand and binder systems alternately. Alternate discharge positions enable the direct filling of a core shooter or sand transportation system.

VERTICAL LVM MIXERS

The LVM mixer series incorporates volumetric metering of sand, binders, and additives. Even with small sand doses and low mixing quantities, this series ensures homogeneous mixing quality and is characterised by short mixing cycle times. With their low installation height, these mixers have minimum space requirements, and provide an all-round, extremely cost-effective solution.



LAEMPE CORESAND PREPARATION ▶ ◀ YOUR TAILORED SOLUTION

Mixing series by comparison

Feature	LM mixer	LVM mixer
Sand preparation	For all known processes	For all known processes
Mixing power (t/h)	1,5 / 3 / 4,2 / 5,5 / 7 / 11	2 / 5 / 7 / 9
Sand metering volume in litres	29 / 47 / 70 / 100 / 143 / 2x100	15 / 36 / 50 / 64
Mixer cycle time	approx. 80 sec.	approx. 36 sec.
Additive connection	2	2
Sand discharge positions	2	1
Cleaning	Self-cleaning	Easy to clean

(Guideline values - subject to technical changes)

Mixing series by comparison

Feature	LM mixer	LVM mixer
Mixer housing	Steel	Plastic or wear-resistant steel
Agitator	Hard metal	Plastic or armoured steel
Recipe (binder, sand, additive)	Can be changed in cycles	Can be changed in cycles
Cleaning of mixer housing	Self-cleaning	Manual cleaning
Metering method	Volumetric or using scales	Volumetric or using scales
Metering precision for sand	± 1 %	± 1 %
Metering precision for binder	± 1 %	± 1 %

(Guideline values - subject to technical changes)

1) SAND SILO

2) SAND TRANSPORTER AND SAND PIPING LINE

3) SAND DELIVERY SYSTEMS

- **Sand conveyor belt** for supplying multiple machines.
- **Suspended transport hopper with double undercut gates** on a monorail.
- **Sand transport hopper with double undercut gates on rails**, characterised by its low installation height.
- **Sand transport trolley on rails, self-cleaning**. This solution is recommended if different recipes are used.



5) ADDITIVE SUPPLY

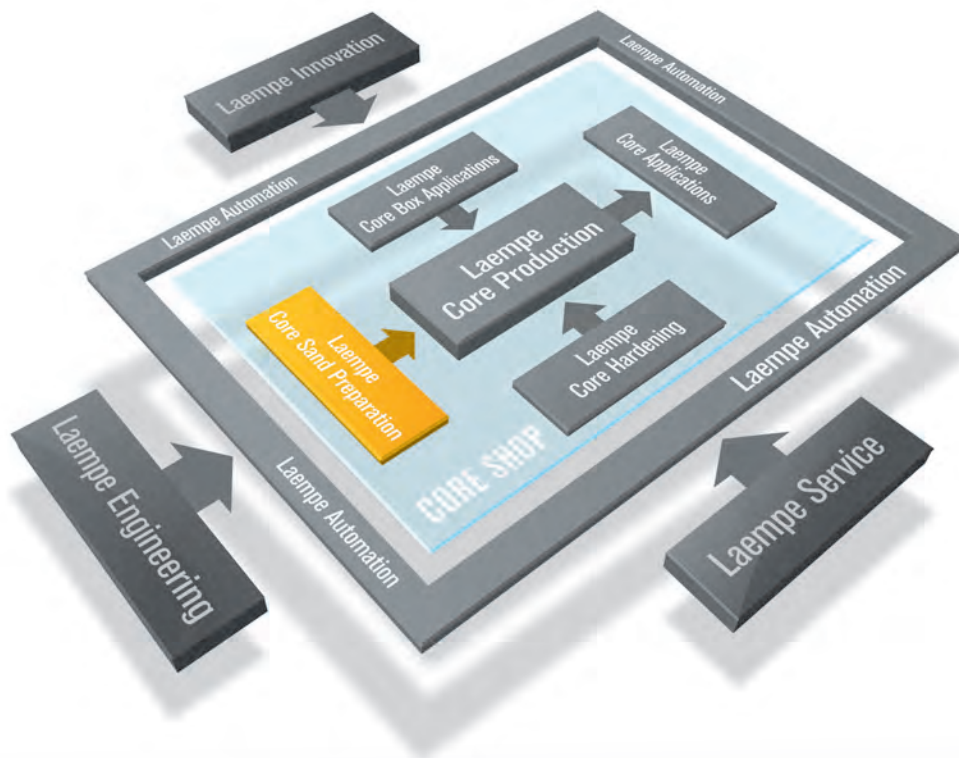
6) SEPARATORS

7) BINDER SUPPLY

- Central container/drum storage with buffer tank and pump system
- Intermediate tanks (heated/unheated)
- Pipe system (heated/unheated)
- Control unit with display (separate or integrated)

LAEMPE CORESAND PREPARATION - LET US TELL YOU ABOUT THE BEST SOLUTIONS FOR YOUR INDIVIDUAL REQUIREMENTS

LAEMPE TURNKEY SOLUTIONS
FOR THE INNOVATIVE CORE SHOP



**Innovative solutions for extra cost-effectiveness
and the highest possible quality requirements**

The **Laempe CoreApplications** division with its peripheral systems is an integral part of our highly modern core production facilities. It complements the **Laempe CoreProduction** division with its automatic core shooters, **Laempe CoreSand Preparation** division with its sand preparation and supply applications, and **Laempe Automation** division with its automation systems. Our efficient service offering ensures high machine availability during daily production.

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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, this German company 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.

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