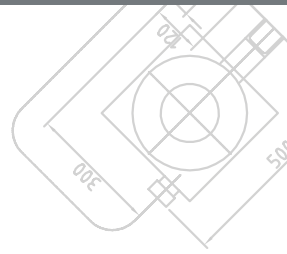




# LG

Laempe CoreHardening  
LG gassing units



## LG gassing units

# Production boosters: Accurate, economical, fast

### ■ The resource-saving gassing system for all requirements

Our CoreHardening Division has developed the latest technology for producing high quality cores efficiently. Every step of the process can be variably regulated. Only the exact amount of gas needed is used through new precision-dosing technology. Intelligent fill-level measurement systems insure complete gassing at all times. Thanks to a high heater performance the cycle time is optimized and the catalyst consumption is reduced.



### ■ CoreHardening System LG

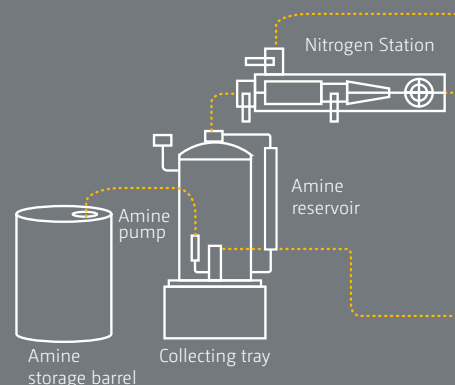
- Accurate metering
- Variable pressure regulation during gassing time with proportional valve
- High temperatures of up to 170° Celsius
- Central amine supply system with fill level measurement system for ongoing, malfunction-free amine replenishment
- Pre-heater for shorter cycle times and process acceleration
- Can be used with any automatic core shooter

Choose the best product variant for you

Laempe CoreHardening System LG	1"	1,5"	2"
Exhaust capacity	4,5 m <sup>3</sup> /h	4,5 m <sup>3</sup> /h	4,5 m <sup>3</sup> /h
Delivery rate of pump for amine per pass	0,5 cm <sup>3</sup>	1,0 cm <sup>3</sup>	2,0 cm <sup>3</sup>
Delivery rate of pump for methylformate per pass	3,0 cm <sup>3</sup>	3,0 cm <sup>3</sup>	3,0 cm <sup>3</sup>
Control range for proportional flushing pressure	0,3 - 4,8 bar	0,3 - 4,8 bar	0,3 - 4,8 bar
Heat output max.	3 kW	4,5 kW	9 kW
Recommended core sand per cycle in kg	up to 50	up to 100	more than 100

(Guideline values - subject to technical changes)

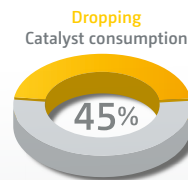
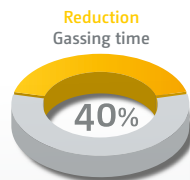
Schematic design of the central amine supply



## CoreHardening System LGi



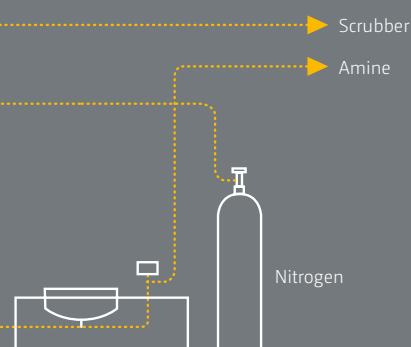
- Very precise measuring system for highest reproducibility
- Flow measurement by impulse turbine with actual visualization display
- Visual level indicator viewing of liquid catalyst in the transparent dosing container
- Pressure-rated vaporizer / heater unit with stepless adjustable temperature setting and display
- Amine amount - calculation of the core weight and catalyst type selection
- Dosing cabinet cooling
- PLC control via touch screen display with recipe management
- Easy parameter feeding inputs like catalyst volume und flushing pressure process
- High heating output
- ATEX-compliant design



### Positive customer feedback

More than 1,500 Laempe CoreHardening systems are used successfully throughout the world. Our customers are extremely satisfied and report significant savings: Up to 40% reduction in gassing time, up to 15% reduction in cycle time, and up to 45% reduction in catalyst consumption.


Let us create a tailored package  
to meet your special requirements !

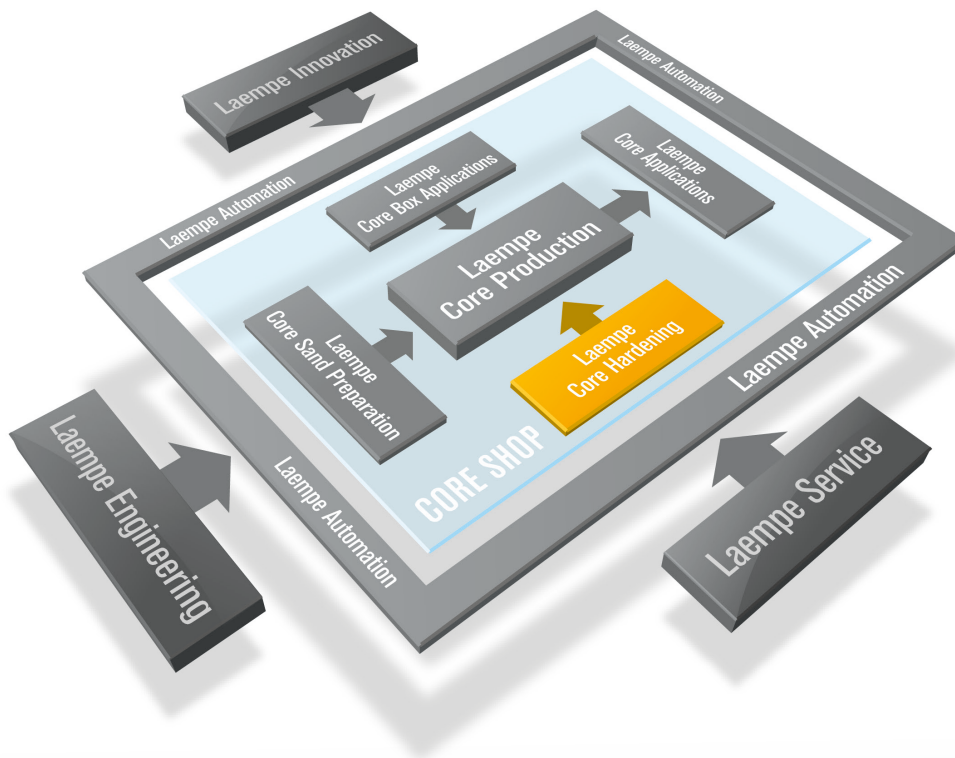


Choose the best product variant for you

Laempe CoreHardening System LGi	1"	1,5"	2"
Exhaust capacity dosing cabinet	2,8 m <sup>3</sup> / h	2,8 m <sup>3</sup> / h	2,8 m <sup>3</sup> / h
Variation in reproduction with 100 g of amine or catalyst	< 0,1 %	< 0,1 %	< 0,1 %
Pneumatic operation pressure	6 bar	6 bar	6 bar
Control range for proportional flushing pressure	0,3 - 4,8 bar	0,3 - 4,8 bar	0,3 - 4,8 bar
Heat output	9 kW	16 kW	24 kW
Recommended core sand per cycle in kg	up to 50	up to 100	more than 100

(Guideline values - subject to technical changes)

 Laempe turnkey solutions  
for the innovative core shop



#### Gassing units

Laempe core hardening solutions are highly-efficient complements for the core shooters in the L, LCB, and LHL series. They are already integrated into the machines in the LL, LE, and LFB series as standard. Laempe offers further innovative solutions for highly modern core production: **Laempe CoreSand Preparation** for sand preparation and supply, **Laempe CoreApplications** for subsequent core treatment and assembly, and **Laempe Automation** for automation solutions. Our efficient service offering ensures high machine availability during daily production.

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#### Solution expertise from a strong partner

Laempe Mössner Sinto GmbH is a global leader in core shop technology for the casting industry. As an innovative developer of complete solutions from Germany we offer 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 strategic partnership with the Japanese Sinto group, together with our sales offices and representatives worldwide, create our global network. Especially our customers benefit from this unique constellation: Industry-leading expertise in the core shop with a worldwide presence and extensive know-how in the entire foundry process make Laempe Mössner Sinto the ideal partner at your side.