



Energy efficient and economical

Flameless heating solutions for pre-heating
of casting and transport ladles

**Heating solutions
for foundries**

Uniform heat distribution and high energy savings

The heating solutions for casting and transport ladles optimise operating efficiency and improve the process



For both pre-heating or drying of fire resistant materials – casting and transport ladles for aluminium, steel, cast iron or non-ferrous metals can be operated more efficiently with the unique flameless and fully pre-mixed **promEOS®** gas burner technology. **promEOS®** offers two special heating solutions for these applications: The mobile burner system and the stationary heating system.

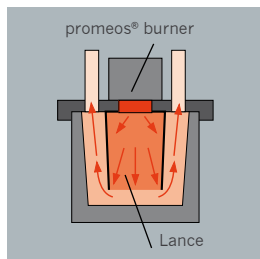
The mobile burner system can be placed on the casting ladle with a crane. The stationary heating system automates the process and simplifies handling. The casting ladle can be placed accurately under the station, for example with a lift truck. Then the ladle cover is placed on the casting ladle with a lifting system. A flameless gas burner by **promEOS®** is integrated in the respective ladle cover. A nozzle transfers the energy from the hot gas flow to the closed casting ladle, which is brought up to the target

temperature with a continuously variable output controller. This also makes it possible to maintain the prepared casting ladle at the standby temperature with minimal energy consumption. A casting ladle which has been optimally pre-heated using **promEOS®** burner technology improves temperature management throughout the entire casting process. **The advantage:** Uniformly high product quality combined with lower energy inputs.

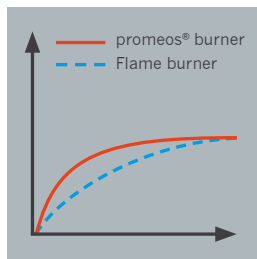
The mobile burner system can be put on the ladle with a crane.



Uniform heat distribution in the ladle



Faster heating than conventional flame burner



Convenient to use from the forklift - the stationary heating system with external control panel



Specifications	Burner system	Heating system
Temperature	100 °C – 1.100 °C	100 °C – 1.100 °C
Burner type	ceo	ceo
Cover size Ø	max. 1800 mm	max. 1400 mm
Power density	30 - 1600 kW	
Handling	with crane	with integrated lifting system
Noise level	< 70 dB(A)	< 70 dB(A)

Heating system for tilting casting ladles with promeos® fully pre-mixed burner technology.



  **WITH UNIQUE
FLAMELESS GAS
BURNER TECHNOLOGY**

The advantages:

- + short heating times
- + uniform heat distribution reduces damage to the material
- + individually customized cover
- + continuous temperature regulation
- + low noise operation
- + low maintenance

Your benefits:

- + up to 70 % energy savings
- + no „hot spots“
- + up to 50 % reduction in operating costs
- + improved service life of the casting moulds
- + reduction of CO₂ by up to 60 %
- + short amortisation period

Shorter heating times, faster handling!

The promeos® heating system for MAN is distinguished in particular by the shorter heating times of just 3 hours per tilting casting ladle. The system can be controlled easily from the lift truck using the remote control panel.



A unique concept

Over 100 heating solutions for heat treatment of casting ladles are in use around the world

Thanks to the high energy saving potential of up to 70 % and the significant reduction in CO₂ emissions, the promeos® heating system has become an important factor in a company's ability to remain competitive. promeos® has already successfully implemented the flameless burner technology in over 360 projects around the world and in a variety of industries. Over 100 heating systems alone for pre-heating and drying of casting ladles in foundries.



Selected references from the metal industry



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