



Energy efficient and economical

Flameless heating solutions for preheating
of casting and transport ladles



METAL

Heating solutions
for foundries

UNIFORM HEAT DISTRIBUTION AND HIGH ENERGY SAVING

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



For both preheating 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 premixed 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 preheated using promeos® burner technology improves temperature management throughout the entire casting process. **The advantage:** Uniformly high product quality combined with lower energy inputs.



The advantages:	Your benefits:
+ short heating times	+ up to 70 % energy savings
+ uniform heat distribution reduces damage to the material	+ no „hot spots“
+ individually customized cover	+ up to 50 % reduction in operating costs
+ continuous temperature regulation	+ improved service life of the casting moulds
+ low noise operation	+ reduction of CO ₂ by up to 60 %
+ low maintenance	+ short amortisation period



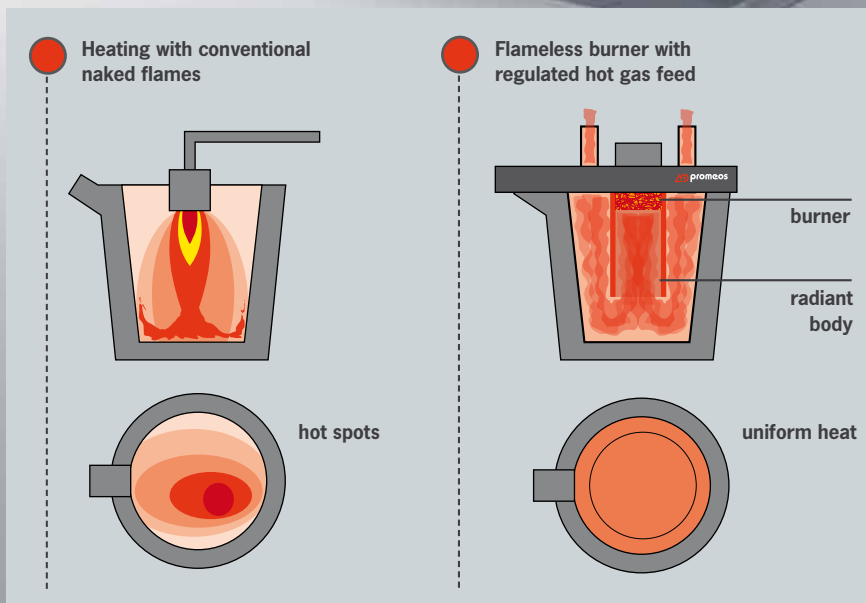
Watch the movie!
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Heating system for tilting casting ladles with **promeos®** fully pre-mixed burner technology.

Temperature distribution in the casting ladles.

The flameless gas burner technology provides uniform heat.



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 preheating and drying of casting ladles in foundries.



ALUMINIUM



ALUMINIUM



ALUMINIUM



STAINLESS STEEL



IRON



DUCTILE CASTINGS



ALU | BRONZE

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.



SELECTED REFERENCES FROM THE METAL INDUSTRY



		DAIMLER		Siempelkamp	 BÜTTING
SMS group	SORG	 FEDERAL MOGUL		 STANDARD PROFIL	
				BEFESA	
					SAG Salzburger Aluminium AG
Rexroth Bosch Group					
Pyrotek			CLAAS	RHEINFELDEN	Schulte & Schmidt Leichtmetallgiesserei KG 
OSRAM	trímet			Heraeus	MAHLE
				Balzer Industrieöfen und Prozesswärme	StrikoWestofen°
	KÜTTNER			viega	 ISABELLENHÜTTE Innovation aus Tradition

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