

Fast uniform heating

Energy efficient heating solutions for thermal processes
in rubber and plastics processing

**Competencies in the
Rubber and plastics industry**

Uniform heating in seconds

The efficiency of rubber and plastics manufacturing is improved with the uniform burner technology from promeos®

The surface and volume burner technology from promeos® is opening up more and more applications in the field of thermal process technology. It is helpful in particular for significantly improving the efficiency, cost effectiveness, process safety, and product quality in comparison to existing solutions.

Flameless – Environmentally friendly and uniform heat

With the burner technology patented by promeos®, combustion takes place without flame in porous high temperature ceramics. This volume combustion is used as radiant or surface heat and, depending on the application, also as a uniform hot air source. The gas-air mixture undergoes almost complete combustion. This creates considerably less environmentally damaging pollutants (CxHy and NOx).

Whether round, rectangular, or line – the flexible burner shape allows for customization to the application. The output can be expanded as necessary thanks to the modular design of the burners.



Depending on the requirements, promeos® offers three modular burners – reo®, neo and ceo.



Gas instead of electricity – energy efficient and economical



Thanks to the gas-powered burner technology, the operating costs can be reduced by up to 70% in comparison to electrically heated systems. Thus converting to gas heat amortises itself after max. 24 months.

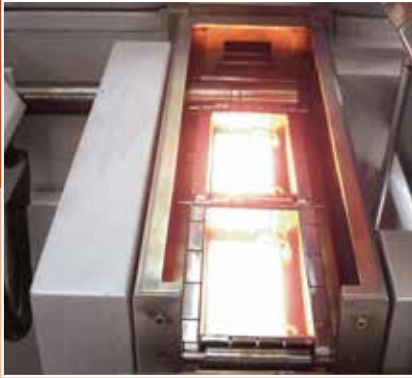
promeos® specialises in energy efficient heating solutions for process heat and manufactures complete industrial furnaces and heating systems. Our heating solutions are tailored to the customer-specific requirements and ensure the productivity and efficiency of the respective production processes.

The advantages.

- + Fast and uniform heating
- + 360° degree circumferential heat
- + Partial heating is possible
- + Optimal heat transfer
- + Continuously adjustable output
- + Modular burner system
- + Reduction of the combustion chamber volume
- + Temperature range up to 1350 °C
- + Direct heating without heat transfer media

Your advantages.

- + Up to 70% reduction in operating costs
- + Up to 50% productivity increase
- + Improved part quality
- + Environmentally friendly combustion
- + ROI guarantee in max. 24 months



Hot air blast furnace

Heating solutions for vulcanizing rubber profiles

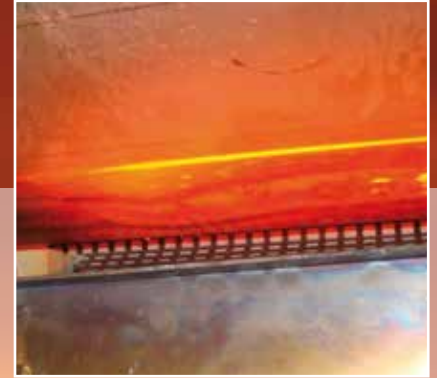
Short heating times and targeted temperature control are the most important parameters during the vulcanization of rubber and silicone profiles. The gas fired hot air blast furnaces by promeos® reach the desired temperature quickly and efficiently.



360° Circumferential Heat

Heating solutions for heat treatment of plastic pipes

Plastic pipes with up to six layers of material are heat treated homogeneous and flameless in promeos® furnaces. The short heating times and the penetration depth increase productivity significantly. As a stand-alone solution, the furnace can also be integrated into existing production systems as a fully functional unit.



Salt Bath Systems

Direct gas heating with outstanding control quality

Salt baths consume a comparatively large amount of energy. With the gas fired burner technology by promeos®, the operating costs are reduced significantly and the melting time is reduced by up to 80%. Thanks to the strict separation of the combustion chamber and process, no hot exhaust gases get into the process. The formation of harmful vapours is avoided.



Shrink Tunnels

Gas heating solutions make shrink tunnels energy efficient

Heat addition with precise temperature control is required for an optimal packaging process. With a gas fired heating solution from promeos®, shrink tunnel systems become energy efficient and more environmentally friendly, and that at 50% lower operating costs – converting always pays off.



Plastic Pipe Processing

Heating tools for the welding of plastic pipes

During the production of plastic pipes, the plastic is wound up evenly onto a rotating roller. For improved processing of the material, the roller is heated up to a specific temperature energy efficiently and without flame immediately before winding using the promeos® heating tool.

Your requirements define our solution – whether as a new system or for modernising an existing system.

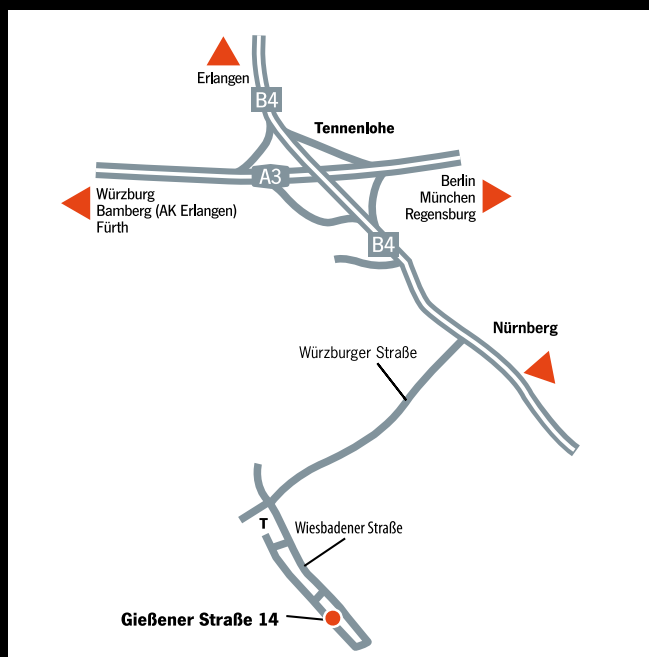
Call us: Phone 0911-377 367 0



References from the rubber and plastics industry



How to find us:



Partners:



Memberships:



promeos GmbH

Gießener Straße 14
90427 Nuernberg
Germany

Phone: +49 911 377 367 - 0
Fax: +49 911 377 367 - 20
Email: info@promeos.com