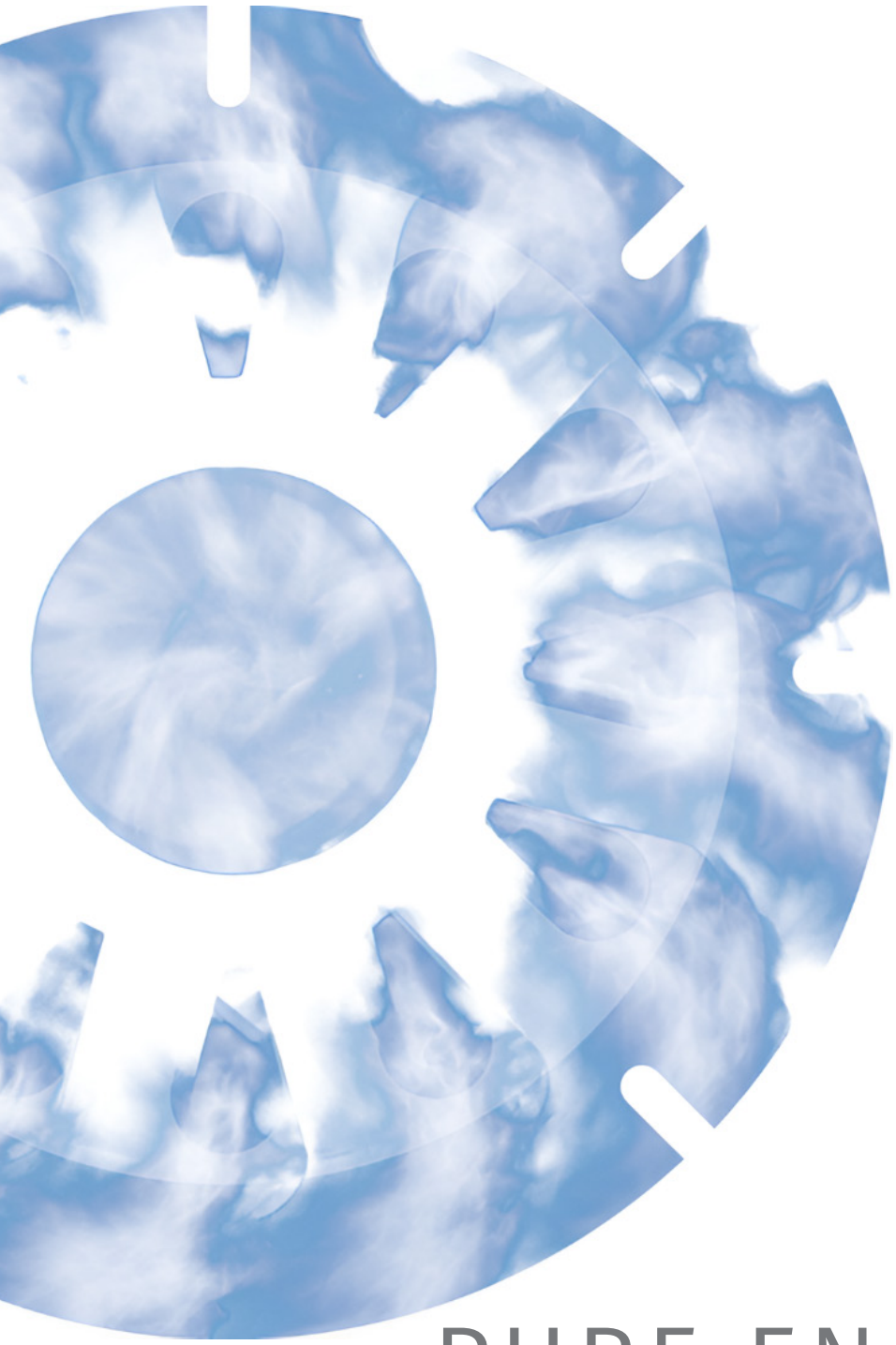
dreizler®



PURE ENERGY

reliable. efficient. clean.

Your competent partner

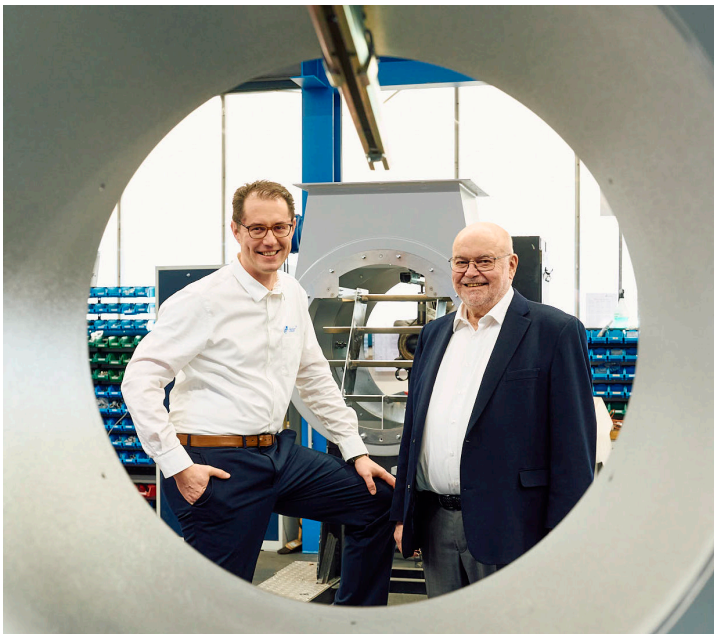
Expertise in modern industrial combustion technology

We are passionate about advancing industrial combustion technology – every single day.
For three generations, **dreizler®** has been a premium partner to numerous industries, designing and manufacturing reliable, efficient, and clean burner systems for heating, process heat, and steam generation. Our **marathon®** burners provide future-proof solutions that combine technical excellence with long-term operational reliability.

Family-owned

since our founding in 1965. Daniel Dreizler (left) has been managing the company since 2012.

*„At **dreizler®**, we are proud to be one of the few family-owned manufacturers of forced-draught burners in Europe offering truly customer-specific solutions. We consistently stand behind our values: reliable. efficient. clean.“*, says Daniel Dreizler.



Daniel Dreizler and Ulrich Dreizler

dreizler®
- Strong for you in Germany and across Europe

dreizler®
info@dreizler.com

dreizler® France
france@dreizler.com

dreizler® service
info@dreizler.com

dreizler® suisse
suisse@dreizler.com

dreizler® austria

austria@dreizler.com

dreizler® benelux

benelux@dreizler.com

Quality since 1965

Since 1965, Walter Dreizler GmbH has stood for innovative, high-quality combustion solutions. While continuously evolving, we have always remained true to our roots, focusing on customer-oriented manufacturing at our headquarters in Spaichingen, Germany. All core combustion technologies are developed and manufactured in-house. Depending on customer requirements, our burners are individually engineered or produced in series and type-tested in accordance with EN 676 and EN 267.

2025 — 60th company anniversary

Commissioning of our own 1,000 kW hydrogen test bench in Spaichingen — **2024**

2019 — Start of hydrogen combustion development

Foundation of **dreizler®** austria — **2018**

2010 — Opening of the technical training and development centre

Foundation of **dreizler®** Service GmbH — **2010**

2008 — Ulrich Dreizler and Daniel Dreizler assume management

Development of **marathon®** dual-fuel burners; first ISO 9001 certification — **1996**

1986 - 1993 — Various patents for innovative technologies such as ARF, ARZ, and ARZsuper

First gas burner series for all gas types up to 5 MW — **1975**

1968 — Production of the first atmospheric industrial burners for kitchens, stoves, etc.

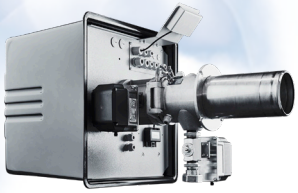
Founding of Walter Dreizler GmbH in Stuttgart and Spaichingen — **1965**

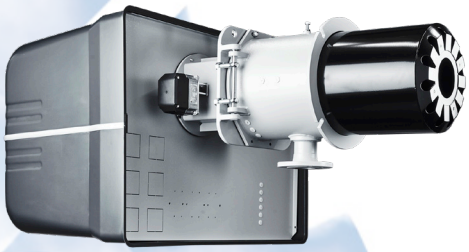
marathon® burner portfolio

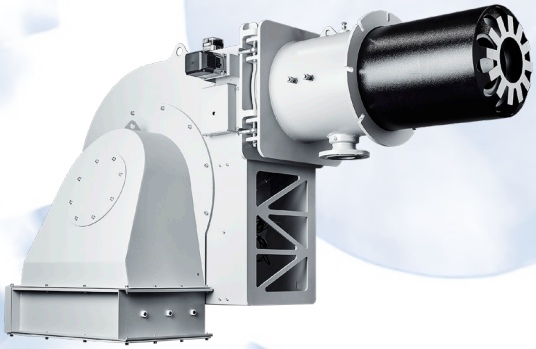
marathon® burners operate reliably, efficiently, and cleanly across a wide range of industrial applications, including hot water, steam, thermal oil, and process heat systems, as well as special applications such as combined heat and power plants and industrial furnaces.

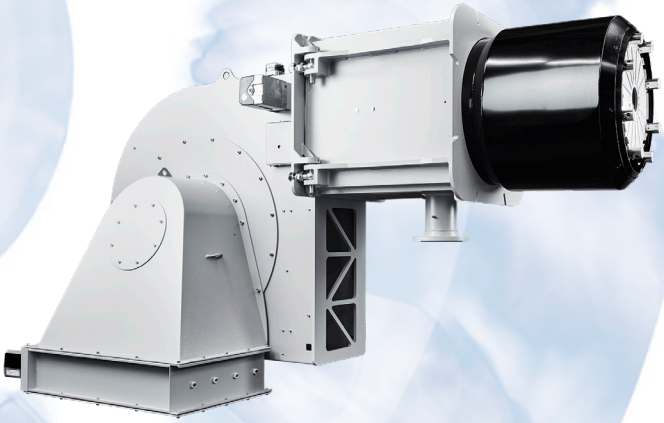
MONObloc until 20 MW

- Compact and efficient powerhouses with high combustion output
- Available in various designs
- Suitable for up to three fuels in solo or mixed operation
- Large control ratios, minimal emissions, and optimal price-performance ratio









ARF - External flue gas recirculation

Suction-side introduction of externally supplied flue gases without additional fans for **marathon®** gas and dual-fuel burners. Can be combined with ARZ and ARZsuper.

ARZ - Internal flue gas recirculation

A proven LOW-NO_x mixing system for **marathon®** gas burners, successfully used for more than 30 years.

MONObloc - compact & efficient

Product highlights

- Compact design for reduced installation effort and minimal space requirements
- Available as gas, dual-fuel, or oil burners
- Oil burners optionally prepared for gas retrofitting
- Clean combustion with ultra-low emissions, suitable for future fuels
- Green fuels ready
- Hinged combustion air fan for easy service access
- Includes LOW NO_x technologies ARZ, ARZsuper, and ARF

Technical Data

Power range	25-20,.000 kW
Gases	With Hi=3-30 kWh/Nm^3
LOW NO_x	With ARZ and ARF
Fuel-air control	Electronic
Combustion optimization	**dreizler®** oxygen and optiburn
Control ratio	Up to 1:10
Fuels	Up to three different fuels
Certifications	CE, DVGW-ZP.3502.20, UKCA

CE 0085

UK CA

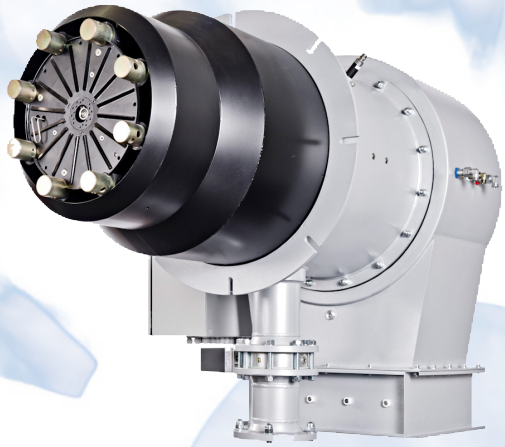
Application example

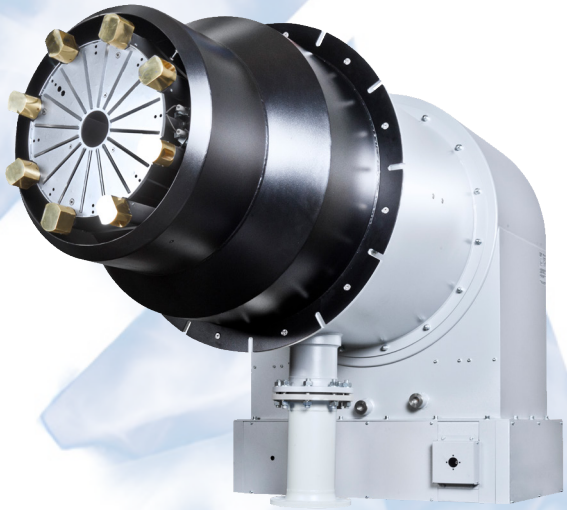
marathon® burner portfolio

marathon® DUObloc burners are always used where special requirements necessitate the use of project-specific combustion air blowers or where higher outputs are required. They are also used in all areas of hot water, steam, thermal oil, or process heating technology.

DUObloc up to 44 MW

- Flexible, project-specific design with separate combustion air fans
- Suitable for air preheating and complex system requirements
- Suitable for up to three fuels in solo or mixed operation
- Ultra-low emissions, suitable for future fuels
- Service-friendly design enabling single-person maintenance)





dreizler® frequency

Thanks to **dreizler®** frequency technology, the combustion air fan delivers precisely the amount of air required at each burner load point.
The use of high-efficiency fans, motors, and variable frequency drives minimizes auxiliary energy consumption for combustion air supply in both MONObloc and DUObloc burners.

dreizler® oxygen

High-quality lambda sensors continuously and precisely measure and control the O_2 concentration in the flue gas. This enables continuous monitoring and minimization of flue gas volumes and the resulting stack losses.

dreizler® optiburn

A combination of O_2 sensors and additional flue gas sensors continuously and precisely measures and controls key combustion parameters such as O_2, CO, and NO_x. This enables continuous monitoring and minimization of emissions and flue gas losses.

DUObloc - powerful and durable

Product highlights

- Flexible, project-specific design with separate combustion air fans, e.g. for air preheating and complex system requirements
- Available as gas, dual-fuel, or oil burners
- Oil burner optionally available with gas retrofit capability
- Clean combustion with ultra-low emissions, suitable for future fuels
- Includes LOW-NO_x technologies ARZ, ARZsuper, and ARF

Technical Data

Power range	1,400-44,000 kW
Gases	With Hi=3-30 kWh/Nm^3
LOW NO_x	With ARZ and ARF
Fuel-air control	Electronic
Combustion optimization	**dreizler®** oxygen and optiburn
Control ratio	Up to 1:10
Fuels	Up to three different fuels
Certifications	CE, DVGW-ZP.3502.20, UKCA

CE 0085

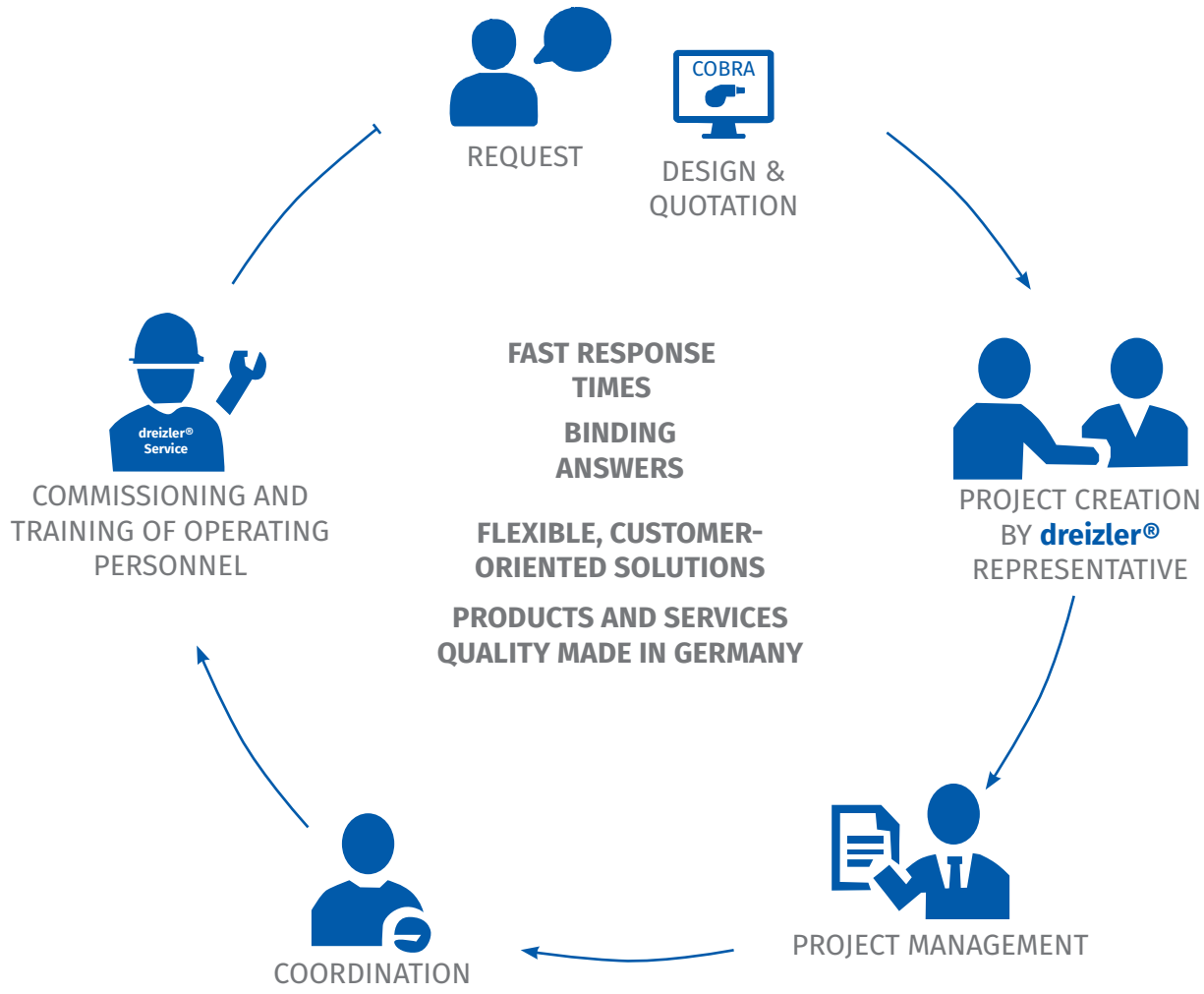
UKCA

DVGW CERT

Application example

Your project?
Our joint solution

From initial burner sizing to commissioning and long-term service, **dreizler®** supports you throughout the entire project lifecycle.
Using our proprietary COBRA software solution, we calculate detailed burner specifications and provide precise quotations. Each project is managed by a dedicated project manager who serves as your central point of contact.
Even after commissioning, our **dreizler®** service experts remain at your side throughout the entire service life of your **marathon®** burner.
YOU CAN RELY ON dreizler® AND marathon® BURNERS!



Custom-made solutions

*„Every combustion system is custom-built to customer specifications and manufactured by our highly trained specialists at our production facility in Spaichingen. The majority of our components are also manufactured in-house in our CNC production facility. I am proud to stand behind our **marathon®** burners - "Made in Germany!"*

René Willmann,
Head of Production and Manufacturing

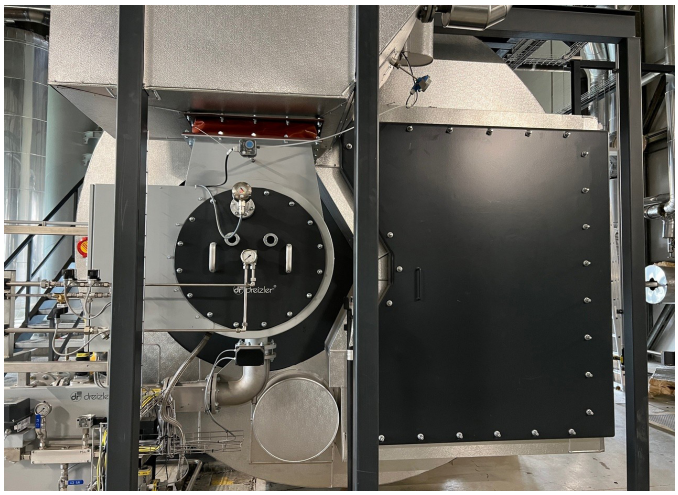
Customized solutions with **marathon®** burners

6.5 MW hydrogen and natural gas

One of the first installations in Germany capable of operating with 100% hydrogen, 100% natural gas, and any fuel blend in between, all in LOW-NO_x mode. By employing two independent gas trains, **dreizler® ARZ** LOW-NO_x technology in combination with **dreizler® ARF**, and the **dreizler®** D-CMS combustion management system for mixed-fuel operation, the customer benefits from maximum flexibility and clean, efficient heat generation with a **marathon®** MONObloc M10001.1 burner.

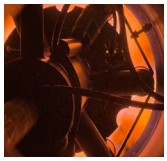
9.0 MW natural gas and ethanol

The growing demand for non-alcoholic beers presents significant challenges for many breweries. Dealcoholization systems involve substantial capital and operating costs. A **marathon®** burner can help offset these costs by partially substituting natural gas. In this application example, a firing capacity of up to 9.0 MW enables the generation of approximately 13 t/h of steam using a pure ethanol–water mixture while maintaining ultra-low emissions. All blending ratios with natural gas can also be reliably achieved. Every kilowatt-hour of energy generated from ethanol reduces natural gas consumption and contributes to improved environmental performance.



5 MW Natural gas Biogas Ethanol

For this specific application, the customer required a burner that primarily operates on ethanol and biogas while flexibly covering additional load demand with natural gas. The solution is a customized **marathon®** DUObloc burner M5003.4, featuring two independent gas trains, ethanol atomization, and the **dreizler®** D-CMS combustion management system for mixed-fuel operation.

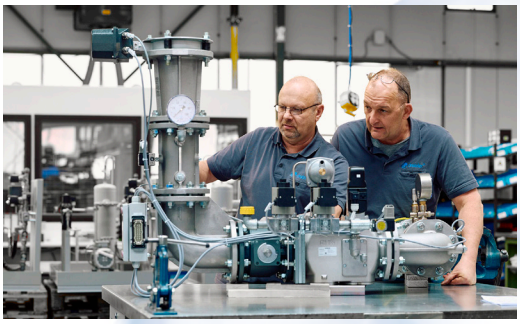


Custom-made down to the last detail

From planning ...

...about in-house production...

...gas ramp construction and testing...



...electrical installation...

...precise component assembly...

...the final burner assembly...

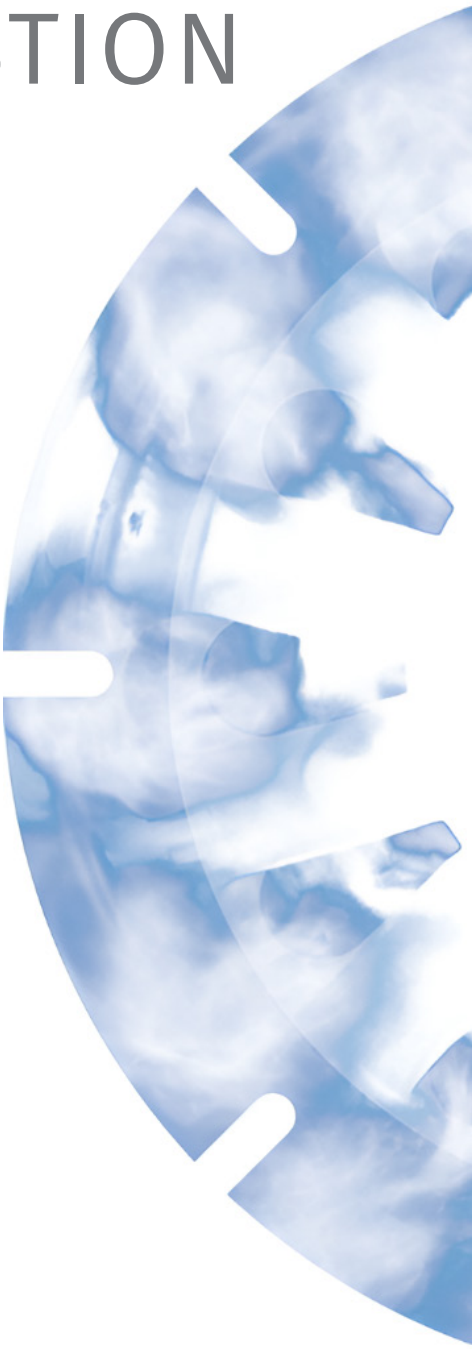
...right through to commissioning on site.

As a competent partner, we know what our customers need.

- Reliable burners for heat and steam generation
- Maximum fuel efficiency
- Ultra-low emissions based on Best Available Technology (BAT)
- Dedicated personal contacts
- Fast response times via our expert service hotline
- Multilingual practical training seminars
- **marathon® burner experience days** for partners

marathon® BURNER

THE FUTURE-PROOF CHOICE FOR MODERN INDUSTRIAL COMBUSTION TECHNOLOGY



OUR ASSOCIATION MEMBERSHIPS:

BDH Bundesverband der Deutschen Heizungsindustrie · VSBE ENERGY IS US · DIN · DVGW

OUR CERTIFICATES:

- DIN ISO 9001
- Type examination GAR / PED
- DVGW additional test ZP3502.20
- UKCA approval

dreizler®

Walter Dreizler GmbH
Wärmetechnik

Max-Planck-Straße 1-5
Germany-78549 Spaichingen

Email info@dreizler.com
Phone +49 (0) 7424 - 7009-0
Fax +49 (0) 7424 - 7009-90

www.dreizler.com