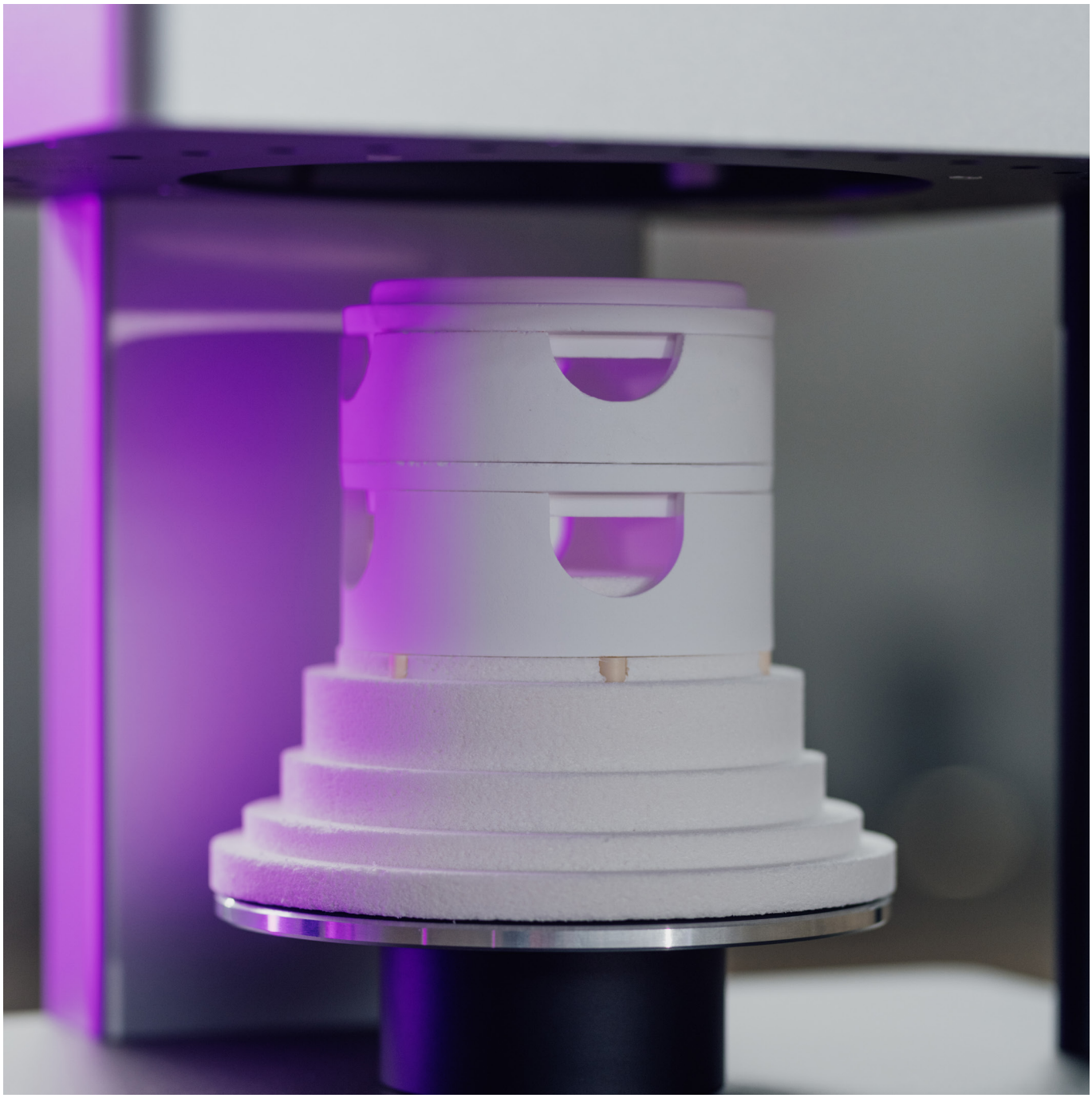
DEKEMA

PRODUCT CATALOG // SINTER // 2Ø26



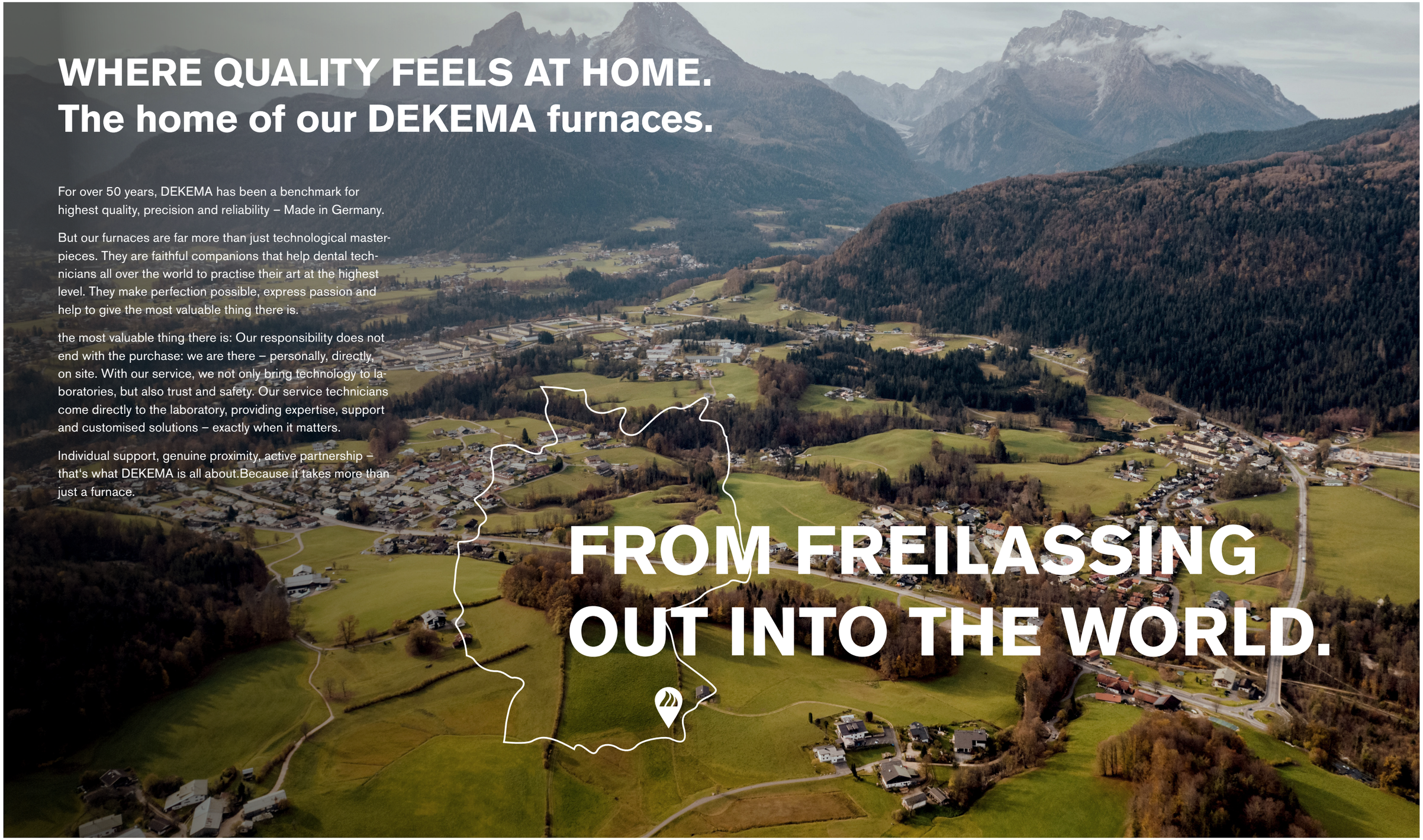
WHERE QUALITY FEELS AT HOME.
The home of our DEKEMA furnaces.

For over 50 years, DEKEMA has been a benchmark for highest quality, precision and reliability – Made in Germany.

But our furnaces are far more than just technological masterpieces. They are faithful companions that help dental technicians all over the world to practise their art at the highest level. They make perfection possible, express passion and help to give the most valuable thing there is.

the most valuable thing there is: Our responsibility does not end with the purchase: we are there – personally, directly, on site. With our service, we not only bring technology to laboratories, but also trust and safety. Our service technicians come directly to the laboratory, providing expertise, support and customised solutions – exactly when it matters.

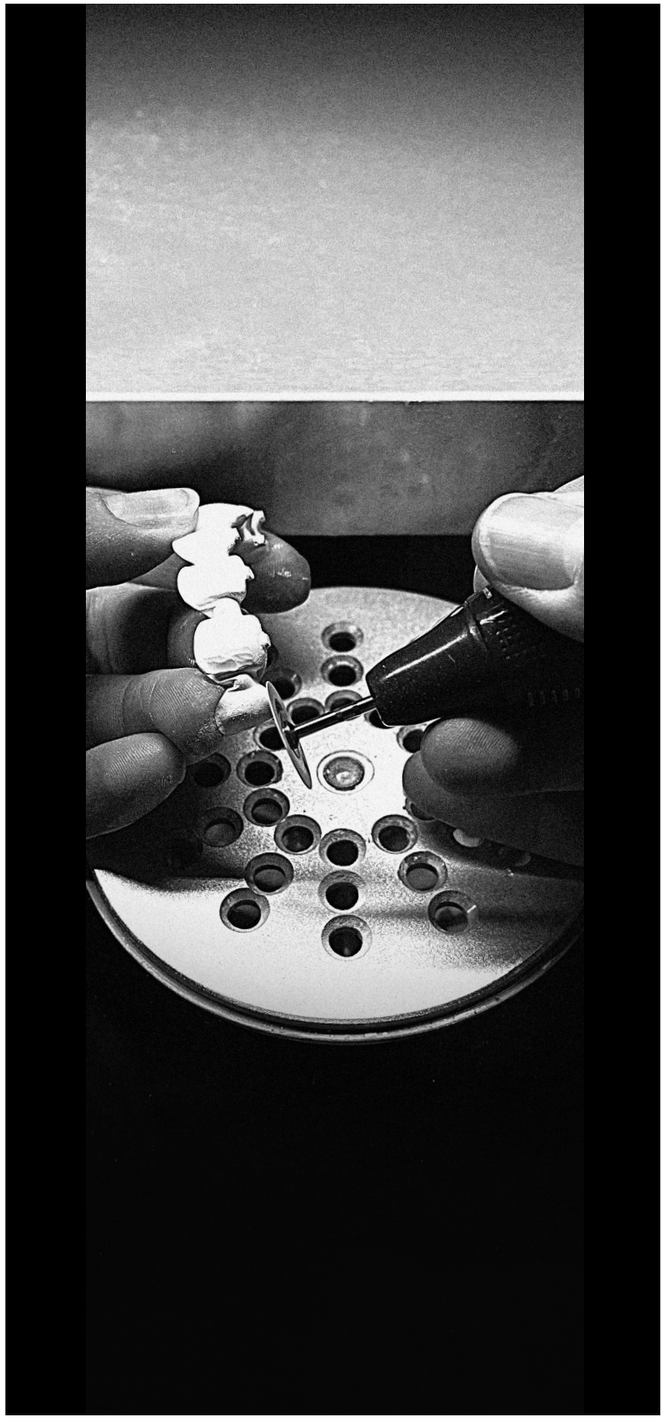
Individual support, genuine proximity, active partnership – that's what DEKEMA is all about.Because it takes more than just a furnace.



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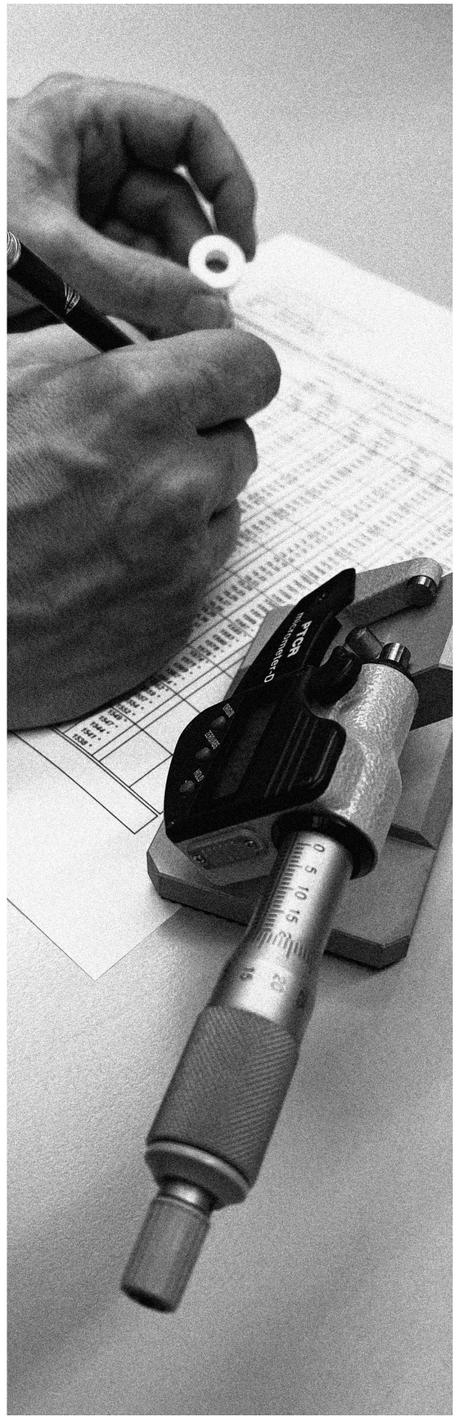
DEKEMA.
Passion.

It’s our ambition to further refine our already matchless dental sintering furnaces. We have decades of experience with every component of our products. Dental sintering furnaces by DEKEMA are made exclusively of high-quality materials and are superior in their class. As a fully independent German manufacturer, we top the highest quality expectations.

What are your benefits?
The best performance, reproducibility and quality are embedded in incredible ease of use.

„YOU HAVE TO DELIVER PERFECT WORK? DAY AFTER DAY? YOU CANNOT AFFORD A DIFFERENT PRODUCT.“

Experience the world of DEKEMA in your lab every single day. We offer the highest level of service. Fast support matters of course, as is the rapid and straightforward provision of replacement equipment and support for new developments. That’s what we all stand for, DEKEMA and our worldwide partners.



DEKEMA.
Claim.

The DEKEMA AUSTROMAT™ family is a result of a premium workmanship. The unique concept of the firing chamber, the intuitive user interface and its functionality, which sustains any worldwide comparison.

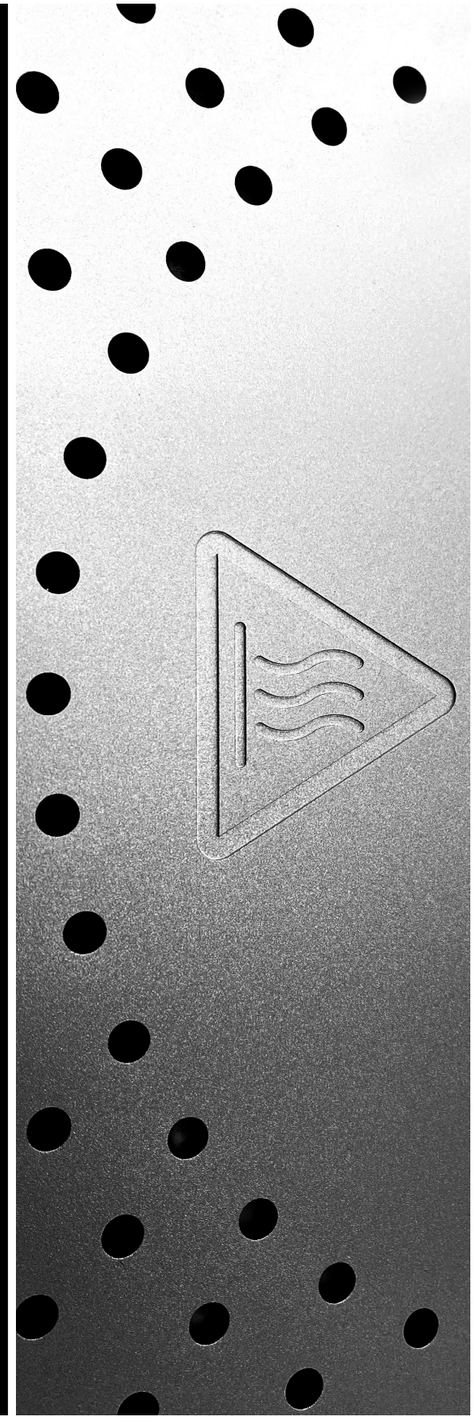
Perfect results – simple as never before.
Control your AUSTROMAT™ via the high-resolution touch screen, with your computer or your smartphone. We even provide solutions for a one-click cycle start. Don’t waste your time with programing, emphasize on your core business.

„AS SIMPLE AS POSSIBLE, AS DETAILED AS NECESSARY!“

Fine tuning necessary? Any time!
Up to five different input screens offer access to every single parameter, even during the program run.

Feels like home.
The user interface is consistent throughout all models. No matter which furnace you use, you immediately feel familiar and training has gone the way of the todo.

Everything is possible!
Do you prefer working with a computer mouse or a keyboard? Just connect them to the USB interfaces and get started.



DEKEMA. Manufacture.

100 % Made in Germany.

All DEKEMA furnaces are hand-crafted products of our German manufactory. Every single part is either manufactured inhouse or priorirized from specialized regional suppliers.

DEKEMA. Customize.

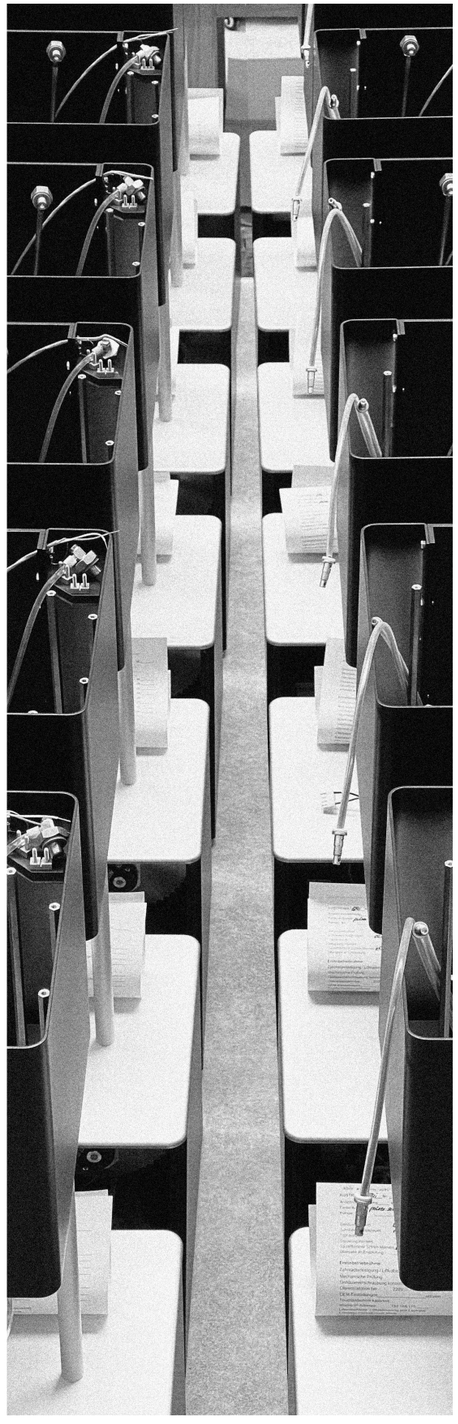
You would like to individualize your furnace? Let your equipment reflect your personality. An individual screensaver, your logo, or your corporate color – DEKEMA customizes your AUSTROMAT™.

DEKEMA. Housing.

- Convection cooling integrated by design without separate fan
- Corrosion-free and lightweight aluminum housing
- Surface texture in matt silver or matt black

DEKEMA. Lift system.

- Vibration-free lift movement
- Durable, maintenance-free stainless steel mechanical parts
- Individually selectable drying position



DEKEMA. Firing chamber.

- Designed decades ago – used for decades – refined over decades
- Unsurpassed harmonic energy distribution
- Fiber insulation – pure quality and high precision execution

DEKEMA. Fiber insulation table.

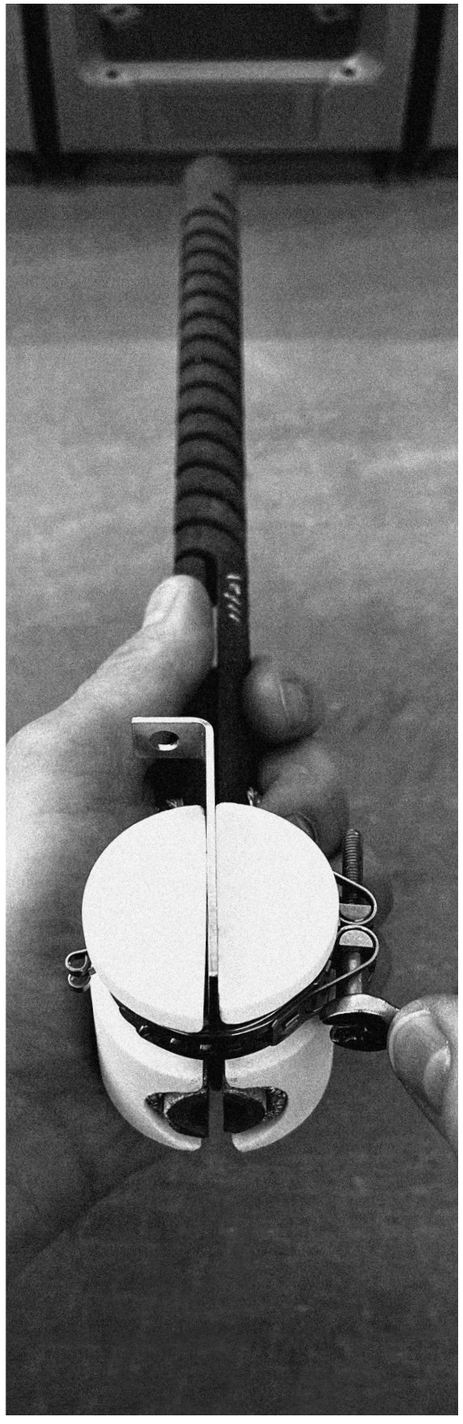
- Patented multi-compound fiber insulation table
- High-purity insulation for high temperature and thermal shock resistance

DEKEMA. Tray system.

- Patented tray system for easy handling and piling
- Sintering in several levels
- Thermal shock resistant

DEKEMA. SiC heating elements.

- DEKEMA specific, high purity SiC (silicon carbide) heating elements
- Homogeneous temperature distribution
- No discoloration
- Robust and durable
- Highest energy efficiency



DEKEMA.
Sustainability.

Regional & energy efficient.

We focus on sustainability – from the choice of our raw materials to the technology of our dental furnaces. Our materials come from the region as far as possible, which minimises transport routes and conserves resources. At the same time, our energy-efficient technology meets the latest standards to ensure environmentally friendly operation. In this way, we combine the highest quality with responsibility for the future.

For us, sustainability is more than just a promise – it is part of our philosophy. Together, we are shaping an environmentally conscious future without compromising on quality and continuous development.

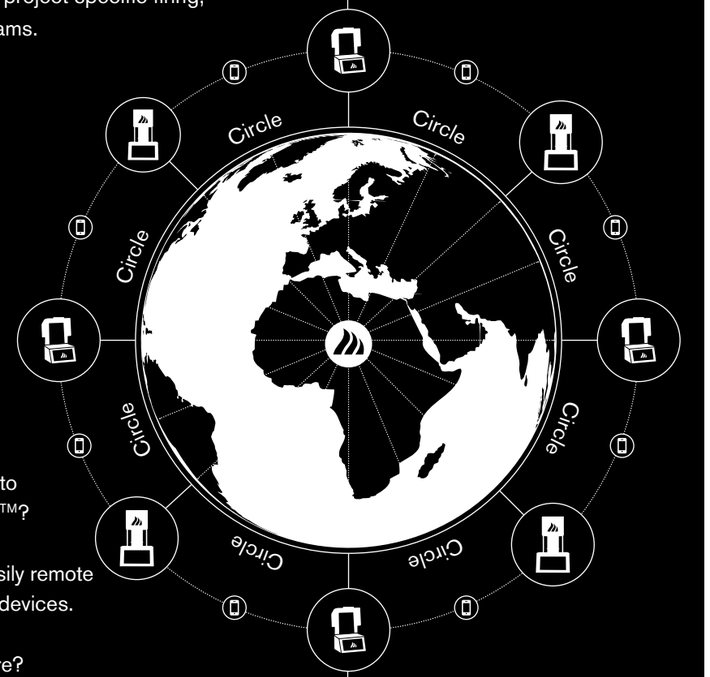


Welcome to the Circle.

DEKEMA Circle

The DEKEMA Circle connects all of your DEKEMA devices. You profit from online software updates and backups, internet database connection, remote control, and the automatic transfer of project-specific firing, pressing and sintering programs.

„JUMP INTO THE DEKEMA CIRCLE – YOU WON'T STEP BACK.“



Enjoy control

You're in a meeting and want to supervise your AUSTROMAT™? With the DEKEMA Circle and your smartphone, you easily remote control your AUSTROMAT™ devices. Is the firing already finished? Did you adjust the temperature? Find all information you require, whenever you want, wherever you are.

Houston, we have a problem!

You have questions – we have the answer. With an internet connection, our support can access the furnace remotely – if you allow us to! By analyzing your QM data, we troubleshoot from any place, anywhere, anytime. We want you to be operational.



„IT ALL BEGAN WITH A CERAMIC FURNACE. TODAY YOU RECEIVE THE MAGNUM OPUS.“

Dr. Stephan Miller

Be inspired by our magna opera

SERIES *i*G2

REDUCED TO THE MAX.

- 10,4'' color touch screen display
- DEKEMA Internet database furnace connection
- Internet program streaming
- Cloud management in the DEKEMA Circle
- IoT (Internet of Things) enables intelligent networking and real-time monitoring of the furnace – ensuring 99,9 % availability and seamless operation through preventive service.
- Quality management: Recording of process data
- USB functionalities: Transfer of firing and press programs, photos, QM files and printouts; backup and update
- Ethernet interface
- OPC UA interface
- Online: Backup and update

AUSTROMAT™

SINTER

664*i*™ G2

AUSTROMAT™ 664*i*™ G2
Maximum efficiency meets smart technology.



AUSTROMAT™ 664*i*™ G2

- DEKEMA patented high-temperature precision thermocouple design, suitable for speeding lower than 20 minutes
- DEKEMA patented tray system with up to 2 levels (Ø 2,56" per level), invented for speeding or easy handling of up to 40 units
- No contamination and no discoloration
- Absolutely clean – no purge cycles necessary
- Nonstop – start subsequent cycles immediately
- DEKEMA AutoDry™ & AUTORITE™
- Access to more than 100.000 firing, pressing and sintering programs of all manufacturers of dental ceramics through DEKEMA online

DEKEMA Colorite™
You are the artist.

CREATE YOUR FURNACE

Applications	with vacuum	without vacuum
Fire	–	–
Press	–	–
Sinter	–	✓
Glaze	–	✓
Crystallize	–	✓
Infiltrate	–	–

NEW THOR SOFTWARE

myDEKEMA

MADE IN GERMANY DEKEMA



DEKEMA. Sinter.

During sintering, milled materials are compacted, resulting in stronger, more stable and natural looking dental restorations.

Non-stop precision
DEKEMA furnaces ensure discolouration-free sintering without cleaning cycles – for trouble-free continuous operation and uncompromising quality.

DEKEMA. Accessories.
AUSTROMAT™ 664*i*™ G2

Heating element, SiC hanging, set with cable Art. No. 105413-01

Heating element made of SiC, in set with installation accessories for use in sintering furnaces with hanging radiators.



Thermocouple, for hanging heating elements Art. No. 106652

Thermocouple for use in sintering furnaces with hanging heating elements.



CALIBRITE™ sinter set Art. No. 106907-01

The CALIBRITE™ sinter set in a convenient storage case includes the DEKEMA micrometer screw with stand and guide for the accurate PTC ring mounting, 15 PTC rings and the QR code for the online calibration tutorial and online calculator.



CALIBRITE™ sinter PTC Art. No. 106906

15 PTC rings for precise temperature calibration of sintering furnaces incl. access to the DEKEMA online calibration calculator.



Tweezers, DEKEMA logo Art. No. 105236

Furnace tweezers for safe handling of firing objects.



Firing table ring, Ø 65 mm, 28 mm height Art. No. 105138

Firing table ring, Ø 65 mm, 28 mm height, spacer for sintering planes.



Insulating table, Ø 65 mm sintering plane Art. No. 105169

Insulating table for use in sintering furnaces with Ø 65 mm sintering planes.



DEKEMA. Accessories.
AUSTROMAT™ 664*i*™ G2

Firing table, basis trough, Ø 65 mm Art. No. 105139

Firing table basis trough, Ø 65 mm, can be used on both sides, flat and low trough, for sintering.



SinterPlace set, Ø 65 mm Art. No. 105835-01

SinterPlace set, Ø 65 mm, set, consisting of insulating body, firing table ring, Ø 65 mm and tongs, for depositing the firing table basis trough.

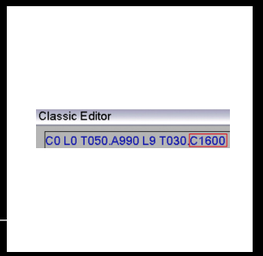


Gripper, DEKEMA logo Art. No. 107200

Gripper for safe handling of sintering accessories with Ø 65 mm.



AUSTROMAT™ 664*i*™/ 674*i*™ G2
Temperatur-Upgrade-Kit (max. Temp. 1.600 °C) Art. No. 106723



Sintering beads, Micro Pearls (200 g) Art. No. 105262

Sintering beads for distortion-free sintering of objects in the firing table basis hybrid Ø 100 mm and firing table basis trough Ø 65 mm.



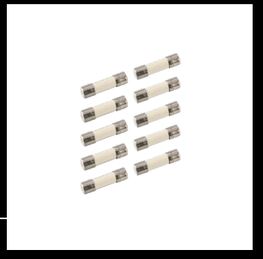
Sintered beads, Micro-Pearls (10 x 5 g pouch) Art. No. 106967

Sintering beads for distortion-free sintering of objects in the basic hybrid firing table Ø 100 mm and basic trough firing table Ø 65 mm.



Fuse (10 pieces), 5 x 20 mm, 16 A, 230 V Art. No. 100512

Fuse (10 pieces), 5 x 20 mm, 16 A, 230 V, for high temperature furnaces.



AUSTROMAT™

SINTER

674*i*™ G2

AUSTROMAT™ 674*i*™ G2
The big one.



AUSTROMAT™ 674*i*™ G2

- Already prepared for ultrafast cycles below 1 hour
- DEKEMA patented high-temperature precision thermocouple design, suitable for speeding without overshooting temperature
- DEKEMA patented tray system with up to 2 levels (Ø 3,94" per level), invented for speeding or easy handling of up to 80 units
- No contamination and no discoloration
- Absolutely clean – no purge cycles necessary
- Nonstop – start subsequent cycles immediately
- DEKEMA AutoDry™ & AUTORITE™
- Access to more than 100.000 firing, pressing and sintering programs of all manufacturers of dental ceramics through DEKEMA online

DEKEMA Colorite™
You are the artist.

CREATE YOUR FURNACE

Applications	with vacuum	without vacuum
Fire	–	–
Press	–	–
Sinter	–	✓
Glaze	–	✓
Crystallize	–	✓
Infiltrate	–	–

NEW THOR SOFTWARE

myDEKEMA

MADE IN GERMANY DEKEMA



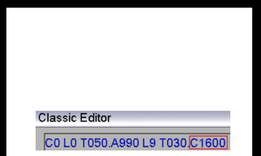
DEKEMA. Sinter.

Our SiC heating elements are optimised for sintering and ensure homogeneous temperatures of up to 1.600 °C. They guarantee precise firing results and high process reliability.

Reliable and durable
Their durability and energy efficiency reduce maintenance and operating costs – for reliable performance and consistently high quality.

DEKEMA. Accessories.
AUSTROMAT™ 674*i*™ G2

AUSTROMAT™ 664*i*™/ 674*i*™ G2
Temperatur-Upgrade-Kit (max. Temp. 1.600 °C) Art. No. 106723



Heating element, SiC hanging, set with cable Art. No. 105413-01

Heating element made of SiC, in set with installation accessories for use in sintering furnaces with hanging radiators.



Thermocouple, for hanging heating elements Art. No. 106652

Thermocouple for use in sintering furnaces with hanging heating elements.



CALIBRITE™ sinter set Art. No. 106907-01

The CALIBRITE™ sinter set in a convenient storage case includes the DEKEMA micrometer screw with stand and guide for the accurate PTC ring mounting, 15 PTC rings and the QR code for the online calibration tutorial and online calculator.



CALIBRITE™ sinter PTC Art. No. 106906

15 PTC rings for precise temperature calibration of sintering furnaces incl. access to the DEKEMA online calibration calculator.



Gripper, DEKEMA logo Art. No. 101921

Gripper for safe handling of sintering accessories with Ø 100 mm.



SinterPlace set, Ø 100 mm Art. No. 105836-01

SinterPlace set, Ø 100 mm, set, consisting of insulating body, firing table ring, Ø 100 mm, 36 mm height and pliers, for secure placement of the firing table Basis Hybrid.



DEKEMA. Accessories.
AUSTROMAT™ 674*i*™ G2

Firing table ring, Ø 100 mm, 36 mm height Art. No. 105317

Firing table ring, Ø 100 mm, 36 mm height,
standard spacer for sintering planes.



Firing table ring, Ø 100 mm, 28 mm height Art. No. 105462

Firing table ring, Ø 100 mm, 28 mm height,
low spacer for sintering planes.



Firing table, basis hybrid, Ø 100 mm Art. No. 105648

Firing table basis hybrid, Ø 100 mm, can be used on both sides,
low trough and with numbered cavities, for sintering.



Insulating table, Ø 100 mm sintering plane Art. No. 105381-01

Insulating table for use in sintering furnaces with Ø 100 mm
sintering planes.



Sintering beads, Micro Pearls (200 g) Art. No. 105262

Sintering beads for distortion-free sintering of objects in the firing table
basis hybrid Ø 100 mm and firing table basis trough Ø 65 mm.



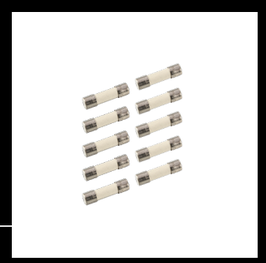
Sintered beads, Micro-Pearls (10 x 5 g pouch) Art. No. 106967

Sintering beads for distortion-free sintering of objects in the basic
hybrid firing table Ø 100 mm and basic trough firing table Ø 65 mm.



Fuse (10 pieces), 5 x 20 mm, 16 A, 230 V Art. No. 100512

Fuse (10 pieces), 5 x 20 mm, 16 A, 230 V,
for high temperature furnaces.



DEKEMA. Technical data.

	AUSTROMAT™ 664*i*™ G2	AUSTROMAT™ 674*i*™ G2
Size (W x H x D)	15,08'' x 30,71'' x 13,50''	15,08'' x 30,71'' x 13,50''
Weight	51 lbs	55 lbs
Power supply	220 – 240 V / 50 – 60 Hz	220 – 240 V / 50 – 60 Hz
Maximum power supply	2.000 W	2.000 W
Maximum sintering temperature	1.560 °C / 1.600 °C optional	1.560 °C / 1.600 °C optional

DEKEMA. Device equipment.

	AUSTROMAT™ 664*i*™ G2	AUSTROMAT™ 674*i*™ G2
Housing: Aluminum	●	●
Corporate Design customization	optional	optional
Touchscreen	10,4'', color	10,4'', color
USB interface / Ethernet interface	●	●
DEKEMA specific SiC heating element: high purity heating elements made of SiC (silicon carbide), firing at high temperatures, no discoloration	●	●
Multi-compund fiber insulation: Multilayer insulation for sintering at high temperatures	●	●
DEKEMA AutoDry™ & AUTORITE™	●	●

DEKEMA. Software features.

	AUSTROMAT™ 664*i*™ G2	AUSTROMAT™ 674*i*™ G2
DEKEMA Internet database access for registered users	✓	✓
DEKEMA Internet database furnace connectivity	✓	✓
Internet program streaming	✓	✓
DEKEMA Circle: Data Management in the Cloud	✓	✓
IoT (Internet of Things) enables intelligent networking and real-time monitoring of the furnace – ensuring 99,9 % availability and seamless operation through preventive service.	✓	✓
myDEKEMA: VNC-Viewer for remote control	✓	✓
QM (quality management): Record of process files	✓	✓
USB: Transferring sintering programs (dds)	✓	✓
USB: Transferring fotos (jpeg)	✓	✓
USB: Storage of QM files (dfl)	✓	✓
USB: Storage of Printouts	✓	✓
USB: Backup / Update	✓	✓
Online: Backup / Update	✓	✓
VNC-Server: VNC viewer for remote control of the DEKEMA furnace on the PC	✓	✓
OPC: Industrial standardised connection for data exchange between different systems	✓	✓
OPC UA: Secure, manufacturer-independent interface for Industry 4.0 and IoT communication	optional	optional
Programing languages	Classic, Professional, Chairside	Classic, Professional, Chairside

DEKEMA. Accessories.

	AUSTROMAT™ 664*i*™	AUSTROMAT™ 674*i*™
Heating element, SiC hanging, set with cable (Art. No. 105413-01)	✓	✓
Thermocouple, for hanging heating elements (Art. No. 106652)	✓	✓
Calibration set high temperature	✓	✓
CALIBRITE™ sinter set (Art. No. 106907-01)	optional	optional
CALIBRITE™ sinter PTC (Art. No. 106906)	optional	optional
Insulating table, Ø 65 mm sintering plane (Art. No. 105169)	✓	–
Firing table ring, Ø 65 mm, 28 mm height (Art. No. 105138)	✓	–
Firing table, basis trough, Ø 65 mm (Art. No. 105139)	✓	–
SinterPlace set, Ø 65 mm (Art. No. 105835-01)	optional	–
Insulating table, Ø 100 mm sintering plane (Art. No. 105381-01)	–	✓
Firing table ring, Ø 100 mm, 36 mm height (Art. No. 105317)	–	✓
Firing table ring, Ø 100 mm, 28 mm height (Art. No. 105462)	–	optional
Firing table, basis hybrid, Ø 100 mm (Art. No. 105648)	–	✓
SinterPlace set, Ø 100 mm (Art. No. 105836-01)	–	optional
Sintering beads, Micro Pearls (200 g) (Art. No. 105262)	optional	optional
Fuse (10 pieces), 5 x 20 mm, 16 A, 230 V (Art. No. 100512)	optional	optional
Tweezers, DEKEMA logo (Art. No. 105236)	✓	✓
Gripper, DEKEMA logo (Art. No. 107200 / 101921)	optional	optional
Software Package for AUSTROMAT™ 664 or AUSTROMAT™ 674 (Art. No. 101933)	✓	✓
Temperature upgrade kit (max. temp. 1.560 °C) (Art. No. 105619)	✓	✓
Temperature upgrade kit (max. Temp. 1.600 °C) (Art. No. 106723)	optional	optional

DEKEMA

Der Ofen.™

DEKEMA Dental-Keramiköfen GmbH

Industriestraße 22 • 83395 Freilassing • Germany

+49-8654-46390 +49-8654-66195

info@dekema.com • www.dekema.com

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