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DEKEMA

Der Ofen.™



SINTER

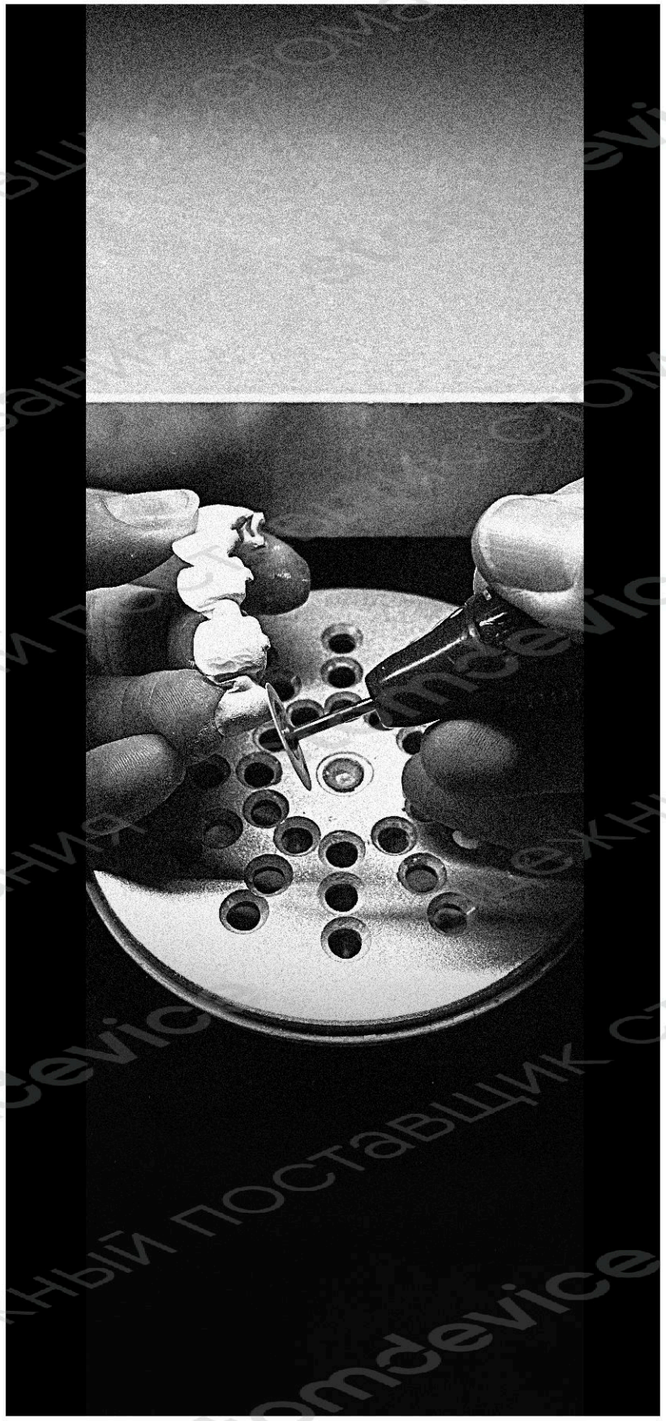
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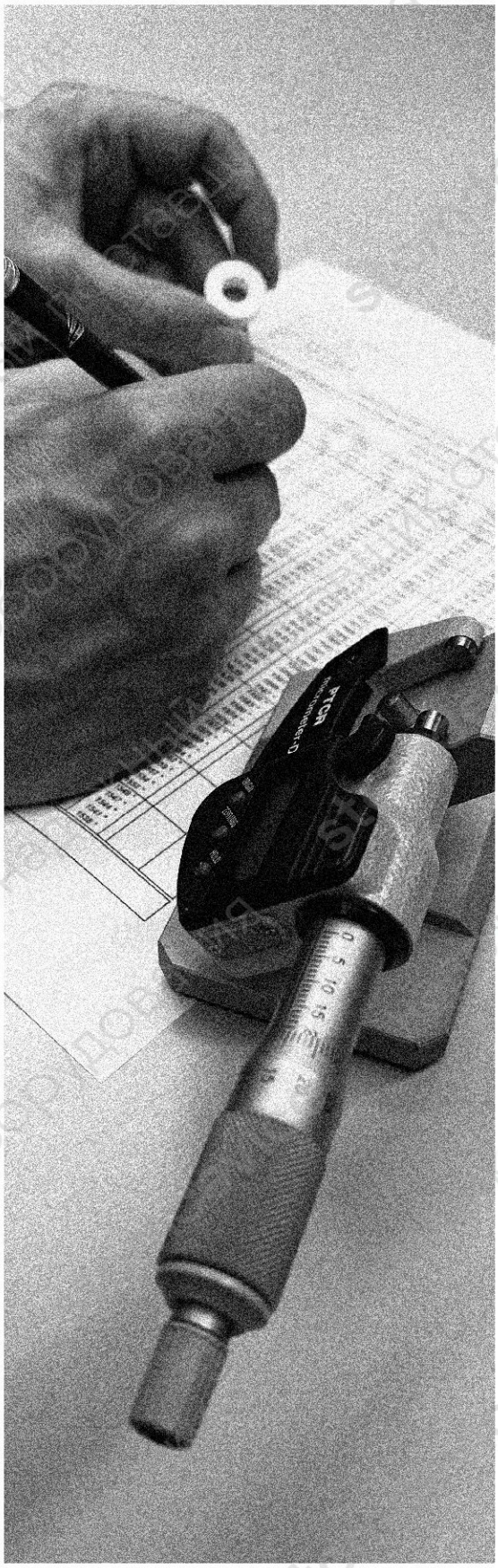
DEKEMA. Passion.

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.



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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.

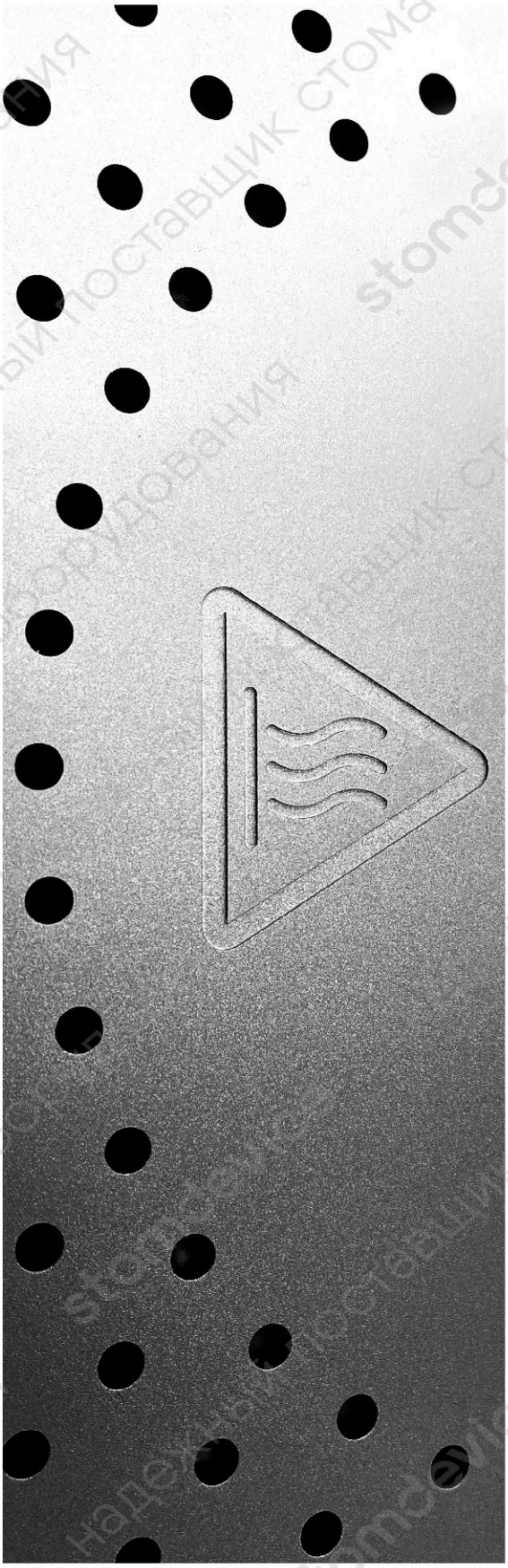
Perfect results – simple as never before.
Control your AUSTROMAT™ via the high-resolution touch screen, with your computer or your smartphone. We even provide solutions for a one-click cycle start. Don't waste your time with programing, emphasize on your core business.

„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.



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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.

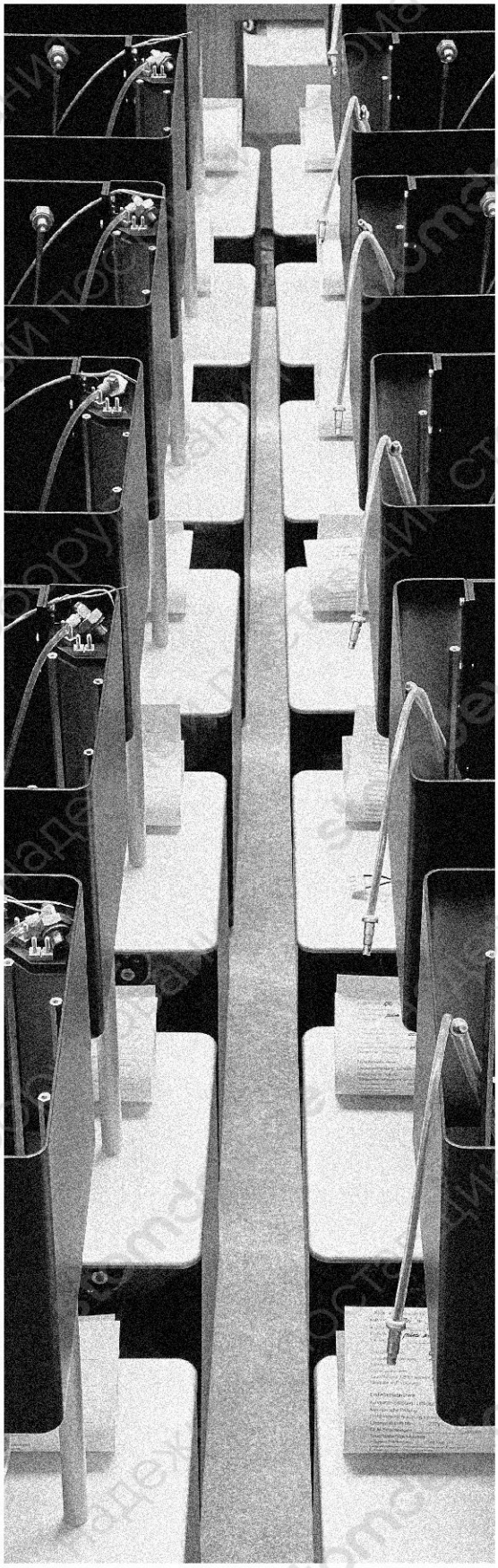
You would like to individualize your furnace? Let your equipment reflect your personality. An individual screensaver, your logo, or your corporate color – DEKEMA customizes your AUSTROMAT™.

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



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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.

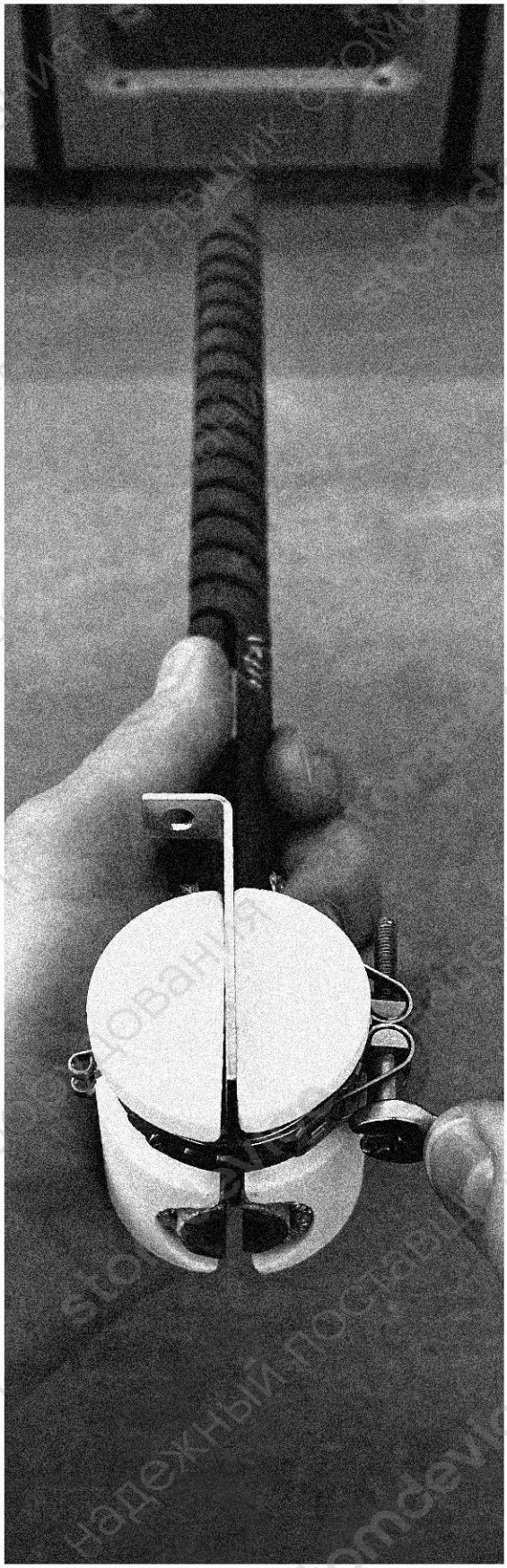
- Patented multi-compound fiber insulation table
- High-purity insulation for high temperature and thermal shock resistance

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



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DEKEMA. Highlights.

DEKEMA IoT (Internet of Things)
Just register your DEKEMA furnace at DEKEMA online and profit from a secure backup of the process data and fast service to minimize downtime.

DEKEMA online portal
More than 60,000 firing, pressing and sintering programs of all manufacturers of dental ceramics in our database – and more are added every day.

Load and play – it doesn't get easier than this!

DEKEMA online service
Our DEKEMA online service is available twenty-four-seven. Register at www.dekema.com, save time and get the best service and support.

DEKEMA iDREAM
The installed VNC server provides remote access to your device, only through your active clearance, in case of questions. This reduces downtime and eliminates shipping your furnace or arranging service dates on-site.

DEKEMA Connect
Connect your AUSTROMAT™ to the internet. Benefit from almost unlimited possibilities in operation, programing, control, and maintenance of your AUSTROMAT™.

DEKEMA X-DREAM
DEKEMA **RE**mote **A**ccess **M**anagement is a remote QM management tool to access your dfl files (QM file of a sinter cycle). Easily monitor your furnace remotely and manage multiple X-DREAM sessions simultaneously for several furnaces.

DEKEMA Check
Internal test routines during the program run monitor all relevant parameters. An automatic diagnosis routine has been integrated for all substantial components to determine the service intervals.

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.

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

Dr. Stephan Miller, CEO

Be inspired by our magna opera

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AUSTROMAT™

SINTER

664 / 664*i*™

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The little one.

AUSTROMAT™ 664

- 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 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™
- Access to more than 60,000 firing, pressing and sintering programs of all manufacturers of dental ceramics through the DEKEMA online portal



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

DEKEMA. Efficiency.

The high-quality SiC heating technology ensures a brilliant result. No necessity of purge cycles due to the absolutely clean chamber. The super fast cycles and the non-stop sintering raises efficiency and profit significantly.

AUSTROMAT™ 664*i*™



+++ Series *i* features +++

- 10,4" color touch screen display
- DEKEMA Internet database furnace connection
- Internet program streaming
- Cloud: Data management in the DEKEMA Circle
- IoT (Internet of Things): Just register your DEKEMA furnace at DEKEMA online and profit from a secure backup of the process data and fast service to minimize downtime.
- iDREAM: VNC viewer for remote control
- X-DREAM: Computer program for querying the furnace state and emailing QM data
- Quality management: Recording of process data
- USB: Transfer of firing and pressing programs (dds)
- USB: transfer of photos (jpeg)
- USB: storage of QM files (dfl)
- USB: storage of printouts
- USB: Backup / Update
- Ethernet interface
- Internet: Backup / Update
- FTP server
- FTP client
- VNC server
- OPC: Software server to incorporate quality management into ERP systems

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

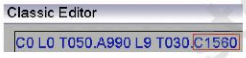
Software Package for AUSTROMAT™ 664 Art. # 101933

Activation of the following functions: database access, VNC, FTP, quality management and OPC.



Software Package for AUSTROMAT™ 664 Art. # 101933
Temperature upgrade kit (max. temp. 1.560 °C) Art. # 105619

Activation of the max. temperature of 1.560 °C.
Prerequisite for the activation of the temperature upgrade kit is the activation of the software package.



Heating element, SiC hanging, set with cable Art. # 105413

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



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Thermocouple, for hanging heating elements Art. # 106652

Thermocouple for use in sintering furnaces with hanging heating elements.



Calibration set, high temperature furnaces Art. # 101916

Calibration set for exact temperature adjustment of high temperature furnaces after evaluation of the PTC ring at DEKEMA (scope of delivery).



Tweezers, DEKEMA logo Art. # 105236

Furnace tweezers for safe handling of firing objects.



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

Firing table ring, Ø 65 mm, 28 mm height Art. # 105138

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



Insulating table, Ø 65 mm sintering plane Art. # 105169

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



Firing table, basis trough, Ø 65 mm Art. # 105139

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



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SinterPlace set, Ø 65 mm Art. # 105835

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.



Sintering beads, Micro Pearls (200 g) Art. # 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.



Fuse (10 pieces), 5 x 20 mm, 16 A, 230 V Art. # 100512

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



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AUSTROMAT™

SINTER

674 / 674*i*™

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The big one.

AUSTROMAT™ 674

- 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™
- Access to more than 60,000 firing, pressing and sintering programs of all manufacturers of dental ceramics through the DEKEMA online portal



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

DEKEMA. Efficiency.

The high-quality SiC heating technology ensures a brilliant result. No necessity of purge cycles due to the absolutely clean chamber. The super fast cycles and the non-stop sintering raises efficiency and profit significantly.

AUSTROMAT™ 674*i*™



+++ Series *i* features +++

- 10,4" color touch screen display
- DEKEMA Internet database furnace connection
- Internet program streaming
- Cloud: Data management in the DEKEMA Circle
- IoT (Internet of Things): Just register your DEKEMA furnace at DEKEMA online and profit from a secure backup of the process data and fast service to minimize downtime.
- iDREAM: VNC viewer for remote control
- X-DREAM: Computer program for querying the furnace state and emailing QM data
- Quality management: Recording of process data
- USB: Transfer of firing and pressing programs (dds)
- USB: transfer of photos (jpeg)
- USB: storage of QM files (dfl)
- USB: storage of printouts
- USB: Backup / Update
- Ethernet interface
- Internet: Backup / Update
- FTP server
- FTP client
- VNC server
- OPC: Software server to incorporate quality management into ERP systems

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

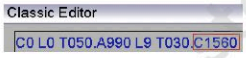
Software Package for AUSTROMAT™ 674 Art. # 101933

Activation of the following functions: database access, VNC, FTP, quality management and OPC.



Software Package for AUSTROMAT™ 674 Art. # 101933
Temperature upgrade kit (max. temp. 1.560 °C) Art. # 105619

Activation of the max. temperature of 1.560 °C.
Prerequisite for the activation of the temperature upgrade kit is the activation of the software package.



Heating element, SiC hanging, set with cable Art. # 105413

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



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Thermocouple, for hanging heating elements Art. # 106652

Thermocouple for use in sintering furnaces with hanging heating elements.



Calibration set, high temperature furnaces Art. # 101916

Calibration set for exact temperature adjustment of high temperature furnaces after evaluation of the PTC ring at DEKEMA (scope of delivery).



Gripper, DEKEMA logo Art. # 101921

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



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

SinterPlace set, Ø 100 mm Art. # 105836

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.



Firing table ring, Ø 100 mm, 36 mm height Art. # 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. # 105462

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



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Firing table, basis hybrid, Ø 100 mm Art. #105648

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



Sintering beads, Micro Pearls (200 g) Art. #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.



Insulating table, Ø 100 mm sintering plane Art. #105381

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



Fuse (10 pieces), 5x20 mm, 16 A, 230 V Art. #100512

Fuse (10 pieces), 5x20 mm, 16 A, 230 V, for high temperature furnaces.



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DEKEMA. Device equipment.

	AUSTROMAT™ 664	AUSTROMAT™ 664i™	AUSTROMAT™ 674	AUSTROMAT™ 674i™
Size (W x H x D)	15,08" x 30,71" x 13,50"	15,08" x 30,71" x 13,50"	15,08" x 30,71" x 13,50"	15,08" x 30,71" x 13,50"
Weight	46 lbs	51 lbs	53 lbs	55 lbs
Power supply	220 – 240 V / 50 – 60 Hz	220 – 240 V / 50 – 60 Hz	220 – 240 V / 50 – 60 Hz	220 – 240 V / 50 – 60 Hz
Maximum power supply	2.000 W	2.000 W	2.000 W	2.000 W
Maximum sintering temperature	1.530 °C / 1.560 °C optional	1.560 °C	1.530 °C / 1.560 °C optional	1.560 °C / 1.600 °C optional
Touchscreen	7,5", color	10,4", color	7,5", color	10,4", color
USB interface / Ethernet interface	✓ / optional	✓	✓ / optional	✓
DEKEMA Autodry™	✓	✓	✓	✓
Housing: Aluminum	✓	✓	✓	✓
Corporate Design customization	optional	optional	optional	optional
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	✓	✓	✓	✓
Fiber insulation table: For firing porcelain, adapted to the dimensions of the furnace	✓	✓	✓	✓
Sintering accessories: sintering in one level	✓	✓	✓	✓
Sintering accessories: sintering in second level	optional	optional	optional	optional
Micro-Pearls: non deforming sintering of dental restorations	optional	optional	optional	optional
Sintering plate for Micro-Pearls	✓	✓	✓	✓

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DEKEMA. Software features.

	AUSTROMAT™ 664	AUSTROMAT™ 664*i*™	AUSTROMAT™ 674	AUSTROMAT™ 674*i*™
DEKEMA Internet database access for registered users	✓	✓	✓	✓
DEKEMA Internet database furnace connectivity	optional	✓	optional	✓
Internet program streaming	–	✓	–	✓
DEKEMA Circle: Data Management in the Cloud	–	✓	–	✓
IoT (Internet of Things: If the DEKEMA furnace is registered at DEKEMA online you profit from a secure backup of the process data and fast service to minimize downtime.)	–	✓	–	✓
iDREAM: VNC-Viewer for remote control	optional	✓	optional	✓
X-DREAM: Computer program for querying the furnace state and emailing QM data	optional	✓	optional	✓
QM (quality management): Record of process files	optional	✓	optional	✓
USB: Transferring sintering programs (dds)	✓	✓	✓	✓
USB: Transferring fotos (jpeg)	✓	✓	✓	✓
USB: Storage of QM files (dfl)	optional	✓	optional	✓
USB: Storage of Printouts	✓	✓	✓	✓
USB: Backup / Update	✓	✓	✓	✓
Internet: Backup / Update	optional	✓	optional	✓
FTP-Server	optional	✓	optional	✓
FTP-Client	optional	✓	optional	✓
VNC-Server: VNC viewer for remote control of the DEKEMA furnace on the PC	optional	✓	optional	✓
OPC: Software server to incorporate quality management into ERP systems	optional	✓	optional	✓
Programing languages	Classic	Classic, Professional, Chairside	Classic	Classic, Professional, Chairside

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DEKEMA

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