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DEKEMA

Der Ofen.™



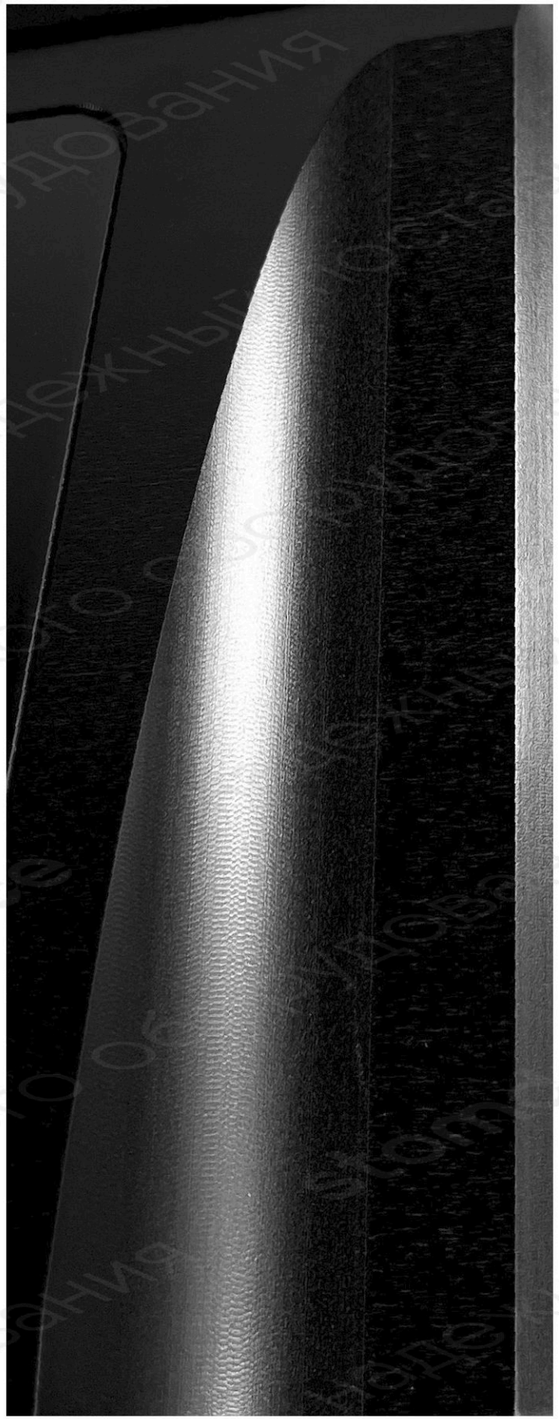
FIRE AND PRESS

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Naoki Aiba, Center Monterey

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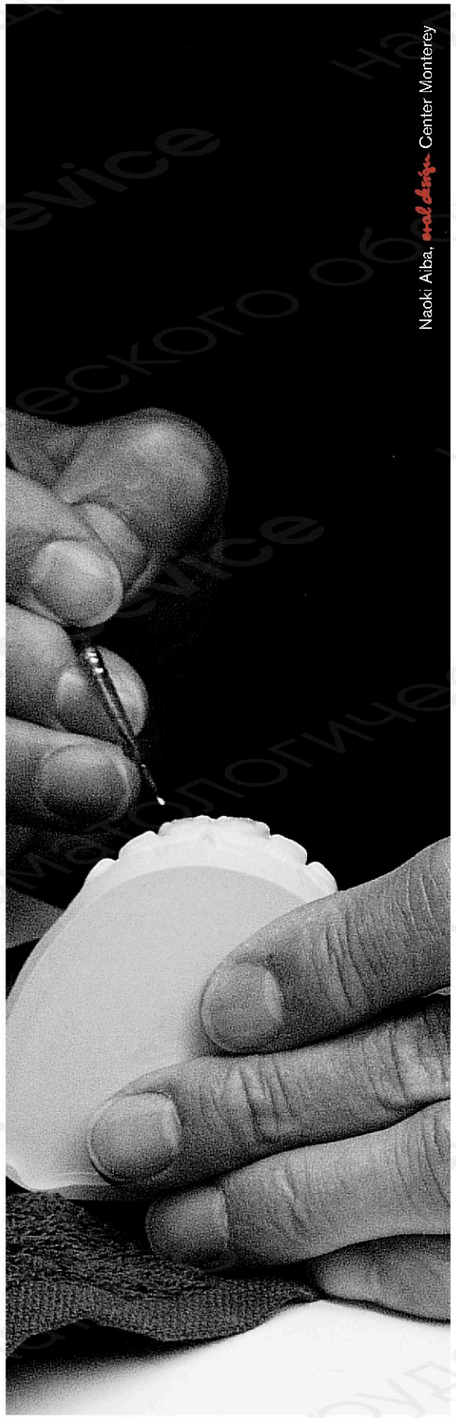
DEKEMA.
Passion.

It's our ambition to further refine our already matchless dental ceramic furnaces. We have decades of experience with every component of our products. Dental ceramic 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. In short: top-class aesthetics.

„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.



Naoki Alba, Center Monterey

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.

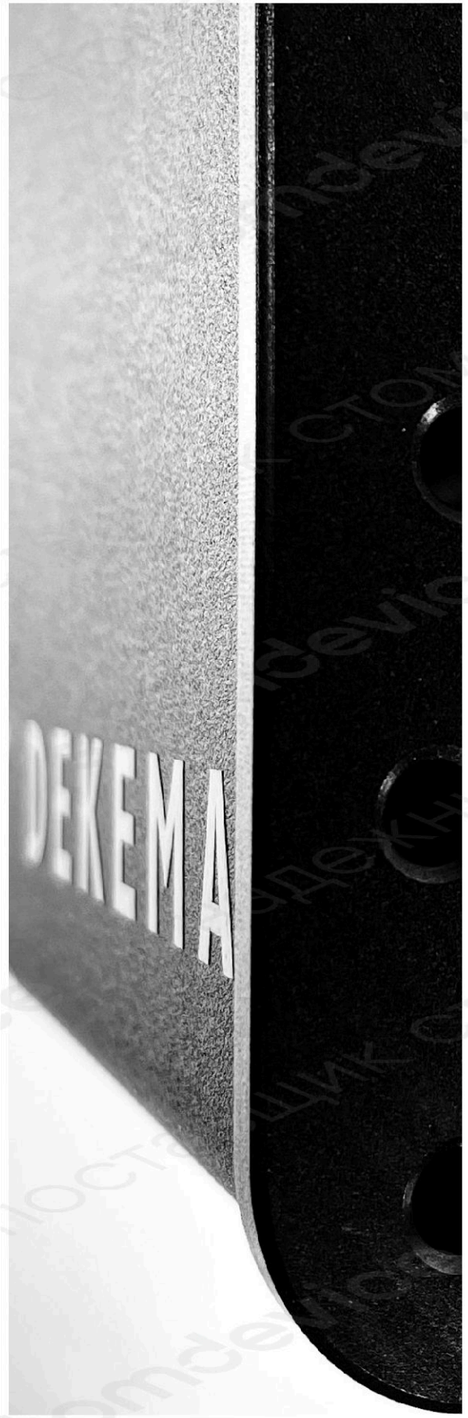
Perfect results – simple as never before.
Control your AUSTROMAT™ via the high-resolution touch screen, with your computer or your smartphone. We even provide solutions for a one-click cycle start. Don't waste your time with programing, emphasize on your core business.

„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



DEKEMA. Firing chamber.

- Designed decades ago – used for decades – refined over decades
- Unsurpassed harmonic energy distribution
- Each of the firing chambers are assembled at DEKEMA, with audited and weighed insulation components

DEKEMA. Fibre insulation and stone insulation.

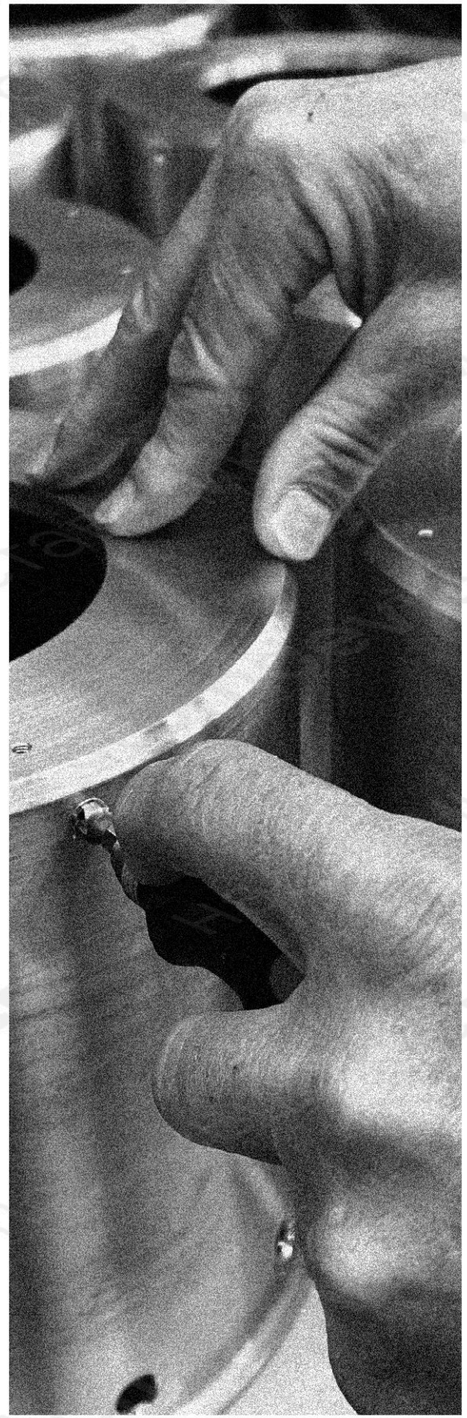
- DEKEMA fiber insulation – high-purity insulation, precise and dynamic
- DEKEMA stone insulation – the traditional type of insulation, innovated by DEKEMA, unique in the market, favored by the world's most famous and best dental technicians

DEKEMA. Heating element.

- In-house manufactured heating element coil
- Unsurpassed in durability and longevity

DEKEMA. Thermocouple and control.

- Platinum/platinum-rhodium thermocouple, purest quality with an accuracy of measurement far below 0,5°C
- Best temperature behavior
- DEKEMA silver wire test ensures only one temperature measuring point



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DEKEMA.
Innovation by tradition.

DEKEMA CIRCLE — **2020**

MULTIPLE PRESS TIME AUTOMATIC — **2015**

DEKEMA TRIXPRESS™ — **2007**

INTERNET DATABASE CONNECTION — **2004**

DEKEMA AUTODRY™ — **1998**

ACCESS VIA PC — **1994**

LANGUAGE-INDEPENDENT PROGRAM MANAGEMENT — **1989**

DEKEMA. Equipment.

DEKEMA trixpress™

trixpress™ – patented and worldwide unique!
The DEKEMA trixpress™ system includes ring sizes of 100 g and 200 g, adapted to the functions of the AUSTROMAT™ 654 and AUSTROMAT™ 654*i*™. The two sizes cover all pressing and overpressing techniques.
Since the disposable placeholders can be arranged as desired, you can simultaneously process up to 20 g of porcelain and/or three different colors simultaneously during one single pressing. The use of the press ingots can be optimized by distributing the porcelain to several plungers.

DEKEMA AutoDry™

DEKEMA AutoDry™ simulates the object temperature and automatically regulates the distance between the firing object and the chamber.
The vibration-free lift enables precise and accelerated drying, heating and cooling phases.

DEKEMA MPTA (Multiple Press Time Automatic)

The advancement development of the upwards-pressing propulsion of the legendary AUSTROMAT™ 3001 press-i-dent: this unique upwards-pressing propulsion, installed in the AUSTROMAT™ 654 and AUSTROMAT™ 654*i*™, provides perfect pressing results. Epic in precision and accuracy.

Soft Touch Lift function

The Soft Touch Lift function enables to precisely and flexible control the lift of your DEKEMA furnace via the front panel – easy and intuitive.

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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
More than 100.000 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.

myDEKEMA
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™

FIRE

220

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The DEKEMA for starters.
No compromise on results.

AUSTROMAT™ 220

- Stand-alone furnace with optional vacuum pump
- 13 kg stable
- Long-lasting quality, using noble, light materials
- Firing, glazing, crystallization and infiltration with and without vacuum
- Place – Power – Perform

AUGMENTED REALITY

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



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DEKEMA. Accessories. AUSTROMAT™ 220

Vacuum pump (100 V, 50 – 60 Hz) Art. # 105205
Vacuum pump (115 V, 50 – 60 Hz) Art. # 105203
Vacuum pump (230 V, 50 – 60 Hz) Art. # 105201

Vacuum pump, version DEKEMA 838.3 R, durable and low-maintenance, with coated, flow-optimized aluminum pump heads and special vacuum guide for highest vacuum performance.



Ventilation unit, external (100 V, 50 – 60 Hz) Art. # 106498
Ventilation unit, external (115 V, 50 – 60 Hz) Art. # 106499
Ventilation unit, external (230 V, 50 – 60 Hz) Art. # 106500

Ventilation unit for connecting a vacuum pump to vacuum furnaces without integrated solenoid valve.



Silver wire calibration set, standard Art. # 101817

Silver wire calibration set for exact temperature adjustment of firing furnaces, as well as of press furnaces with single-plunger press system.



Tweezers, DEKEMA logo Art. # 105236

Furnace tweezers for safe handling of firing objects.



Firing tray, set Art. # 106490

Firing tray, set of temperature-optimized honey-comb tray and 10 ceramic pins for exact positioning of firing objects.



Firing table, fibre Art. # 101733

Firing table for use in furnaces with fiber insulation.



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AUSTROMAT™

FIRE

624 / 624*i*™

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The expert for perfect firing results.

AUSTROMAT™ 624

- Even heat distribution through closed chamber design
- Automatic control of the drying and cooling to optimize aesthetics
- DEKEMA-specific firing chamber concept for excellent firing results in all temperature ranges
- Thermocouple made of platinum/platinum-rhodium, purest quality with an accuracy of measurement far below 0,5° C
- Individually selectable drying positions of the lift
- DEKEMA AutoDry™
- Variable vacuum switch-on point, independent of preheating temperature
- Access to more than 100.000 firing, pressing and sintering programs of all manufacturers of dental ceramics through DEKEMA online



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

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™.

AUSTROMAT™ 624*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.
- myDEKEMA: 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
- OPC UA: Real-time data transmission to any compatible system

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DEKEMA. Accessories. AUSTROMAT™ 624 / 624*i*™

Software Package for AUSTROMAT 624 Art. # 101933

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



Firing table, fibre Art. # 101733

Firing table for use in furnaces with fiber insulation.



Firing tray, set Art. # 106490

Firing tray, set of temperature-optimized honey-comb tray and 10 ceramic pins for exact positioning of firing objects.



Silver wire calibration set, standard Art. # 101817

Silver wire calibration set for exact temperature adjustment of firing furnaces, as well as of press furnaces with single-plunger press system.



Tweezers, DEKEMA logo Art. # 105236

Furnace tweezers for safe handling of firing objects.



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AUSTROMAT™

FIRE+PRESS

654 / 654*i*™

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One for all – firing and pressing in perfection.

AUSTROMAT™ 654

- Even heat distribution through closed chamber design
- Automatic control of the drying and cooling to optimize aesthetics
- Multiple Press Time Automatic for optimal pressing results
- Besides all common ring systems, press up to 20 g with the exclusive DEKEMA trixpress™ ring system
- Press up to 3 different shades in one go, optimizing throughput
- Even heat distribution over all surfaces of the investment ring which provides for exceptional aesthetics
- DEKEMA AutoDry™
- Access to more than 100.000 firing, pressing and sintering programs of all manufacturers of dental ceramics through the DEKEMA online



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

DEKEMA trixpress™

With this patented and worldwide unique system, several plungers and colors get pressed simultaneously. This saves you an incredible amount of time and raises your profit significantly.

AUSTROMAT™ 654*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.
- myDEKEMA: 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
- OPC UA: Real-time data transmission to any compatible system

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DEKEMA. Accessories. AUSTROMAT™ 654 / 654*i*™

Software Package for AUSTROMAT 654 Art. # 101933

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



trixpress™ ring system, set Art. # 101807-1

Investment ring system trixpress™, set, consisting of base plate POM, segments for 100g and 200g investment rings, lid, 2 aluminum holding rings, Placeholder (50 pieces in blue color, Ø 13 mm) and 5 disposable press plungers.



trixpress™ disposable plungers, Ø 13 mm (50 pieces) Art. # 105891

Disposable press plunger (50 pieces), Ø 13 mm, for single and multiple plunger pressings of all common investment materials and pressable ceramics.



Placeholder (50 pieces), Ø 13 mm, blue color Art. # 101915

Placeholder (50 pieces in blue color), Ø 13 mm, combustible without residue, for trixpress™ investment ring system, for sprewing press objects.



Silver wire calibration set, multiple plunger press system Art. # 101818

Silver wire calibration set for exact temperature adjustment of press furnaces with multiple plunger press system.



Tweezers, DEKEMA logo Art. # 105236

Furnace tweezers for safe handling of firing objects.



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DEKEMA. Accessories. AUSTROMAT™ 654 / 654*i*™

Ceramic supports (6 pieces) Art. # 105488

Ceramic supports (6 pieces) for decoupled placement of press rings inside the preheating furnace.



Press table, multiple plunger press system Art. # 101726

Press table for use in press furnaces with multiple plunger press system.



Firing table, multiple-plunger press furnaces Art. # 101734

Firing table for use in press furnaces with multiple-plunger press system.



Firing tray, set Art. # 106490

Firing tray, set of temperature-optimized honey-comb tray and 10 ceramic pins for exact positioning of firing objects.



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DEKEMA. Vacuum.

DEKEMA. Vacuum pump.

- Self-cooling aluminum heads
- Low contamination Trenn Coat™ coating
- Straight air flow
- Vacuum performance down to below 20 mbar
- High running performance with low maintenance requirements
- Self-cleaning feature
- Low-noise operation due to highly effective silencer







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DEKEMA. Device equipment.

	AUSTROMAT™ 220	AUSTROMAT™ 624	AUSTROMAT™ 624*i*™	AUSTROMAT™ 654	AUSTROMAT™ 654*i*™
Size (W x H x D)	10,47" x 20,91" x 10,16"	15,08" x 25,71" x 13,50"	15,08" x 25,71" x 13,50"	15,08" x 25,71" x 13,50"	15,08" x 25,71" x 13,50"
Weight	28,5 lbs	38,5 lbs	42 lbs	48,5 lbs	53 lbs
Power consumption	95 – 105 V / 50 – 60 Hz or 110 – 125 V / 50 – 60 Hz or 220 – 240 V / 50 – 60 Hz	95 – 105 V / 50 – 60 Hz or 110 – 125 V / 50 – 60 Hz or 220 – 240 V / 50 – 60 Hz	95 – 105 V / 50 – 60 Hz or 110 – 125 V / 50 – 60 Hz or 220 – 240 V / 50 – 60 Hz	95 – 105 V / 50 – 60 Hz or 110 – 125 V / 50 – 60 Hz or 220 – 240 V / 50 – 60 Hz	95 – 105 V / 50 – 60 Hz or 110 – 125 V / 50 – 60 Hz or 220 – 240 V / 50 – 60 Hz
Maximum power consumption	1.500 W	1.500 W	1.500 W	1.500 W	1.500 W
T_{max}	1.100 °C	1.200 °C	1.200 °C	1.200 °C	1.200 °C
Touchscreen	4,3", color	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
Quartz glass heating element: DEKEMA specific heating element coil guided in pure quartz glass	✓	✓	✓	✓	✓
Fiber insulation: DEKEMA specific fiber insulation	✓	✓	✓	–	–
Fiber insulation table: For firing porcelain, adapted to the dimentions of the furnace	✓	✓	✓	–	–
MPTA (Multiple Press Time Automatic)	–	–	–	✓	✓
DEKEMA stone insulation: internally fabricated, specific stone insulation	–	–	–	✓	✓
DEKEMA stone insulation table: internally fabricated, for firing porcelain	–	–	–	✓	✓
DEKEMA stone insulation table: internally fabricated, for pressing porcelain	–	–	–	✓	✓
trixpress™: Ring former for pressing several units/shades; 100 g, 200 g	–	–	–	optional	optional
DEKEMA vacuum pump	optional	✓	✓	✓	✓
DEKEMA ventilation unit	optional	integrated	integrated	integrated	integrated

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DEKEMA. Software features.

	AUSTROMAT™ 220	AUSTROMAT™ 624	AUSTROMAT™ 624*i*™	AUSTROMAT™ 654	AUSTROMAT™ 654*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.)	–	–	✓	–	✓
myDEKEMA: 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 firing 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, Easy, Professional	Classic, Easy, Professional, Professional Plus	Classic, Easy, Professional, Press	Classic, Easy, Professional, Press, Professional Plus
Language-independent program management	✓	–	–	–	–

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DEKEMA

Der Ofen.™

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