



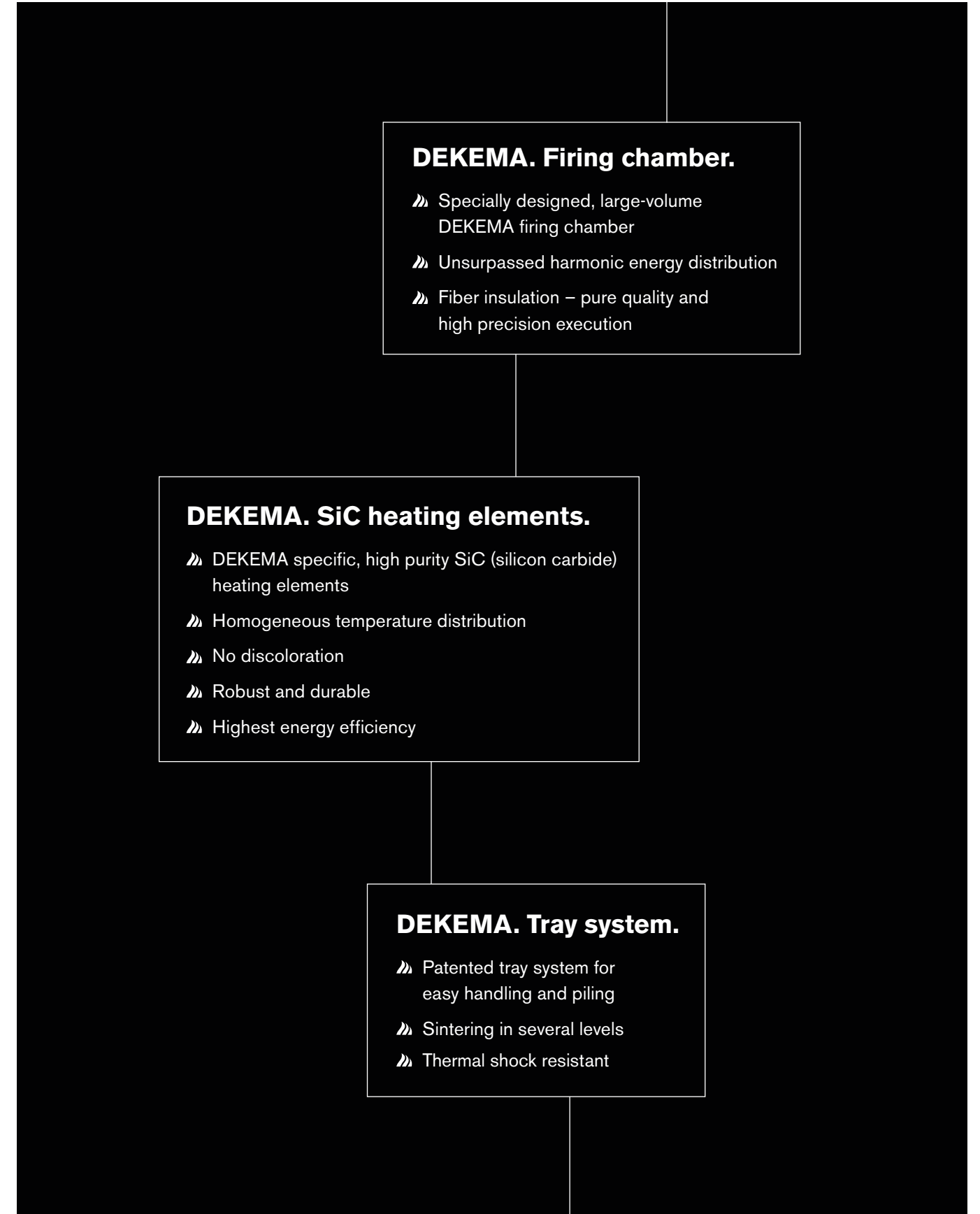
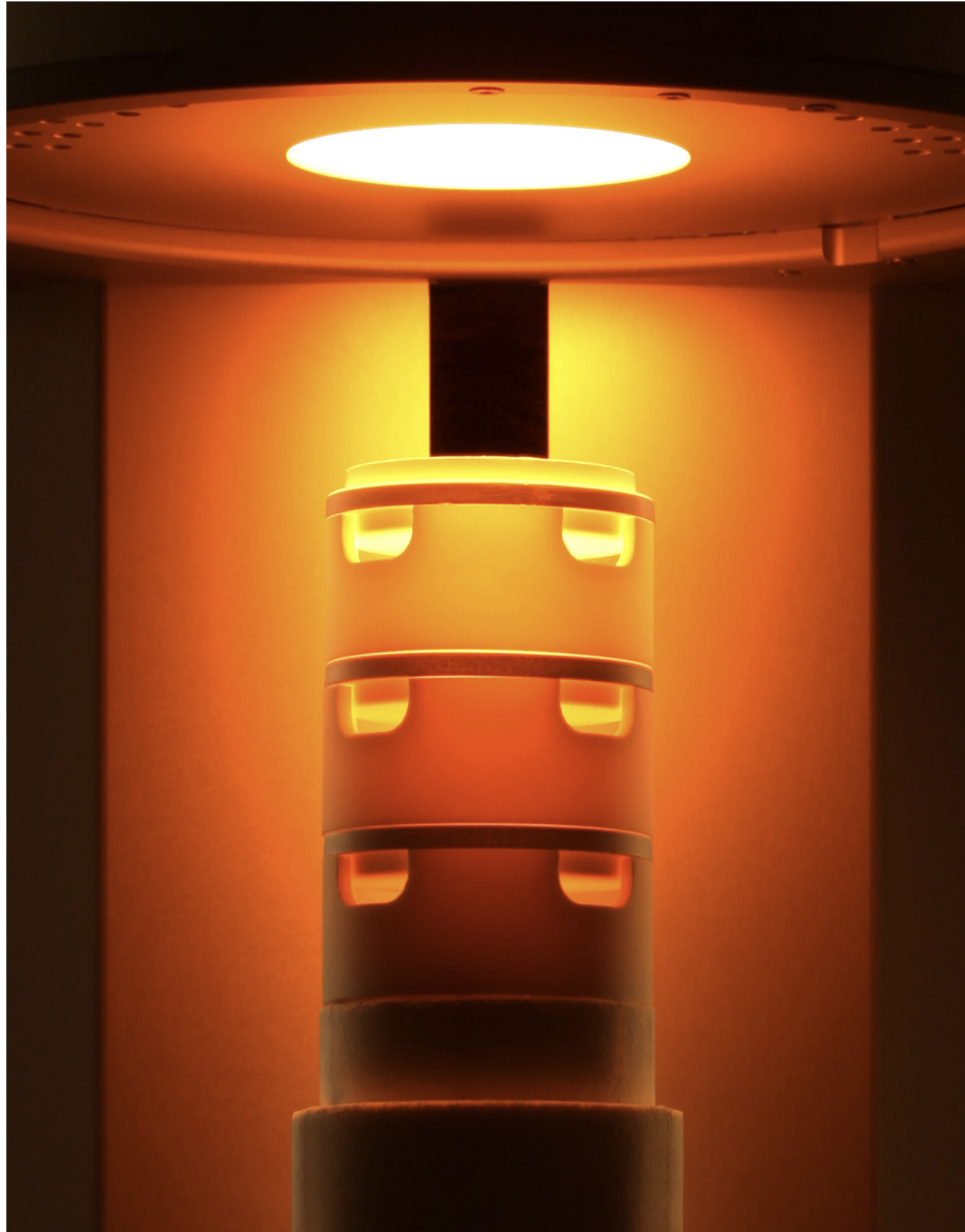
AUSTROMAT™ μ SiC™



The sintering flagship – designed for milling centers.

STRONG – DURABLE – PRODUCTIVE

- » Specially designed for sintering huge amounts of milled dental restorations
- » Sintering of more than 120 units in one sintering cycle
- » DEKEMA-specific SiC heating technology with three heating elements ensures sintering temperatures of up to 1600 °C
- » No discoloration of the sintered material
- » DEKEMA AutoDry™ – around 70% shorter cycles possible
- » Fast and energy-saving heating and cooling processes for short sintering times
- » Network access and quality management already integrated
- » Free programming
- » Control and creation of online diagnostics via mobile devices
- » Processes can be adjusted during operation via remote access
- » Extensive backup and recovery functionality integrated



DEKEMA. Firing chamber.

- » Specially designed, large-volume DEKEMA firing chamber
- » Unsurpassed harmonic energy distribution
- » Fiber insulation – pure quality and high precision execution

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. Tray system.

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



DEKEMA. Lift system.

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

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. Housing.

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

DEKEMA. Accessories.

AUSTROMAT™ μ SiC™

Heating element incl. screws, set 3x

Art. No. 100580

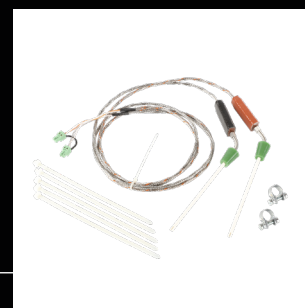
Heating element, SiC, set with cable for use in AUSTROMAT™ μ SiC™.



Thermocouple μ SiC™, set

Art. No. 100506

Thermocouple for use in AUSTROMAT™ μ SiC™.



CALIBRITE™ sinter set

Art. No. 106907

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.



Gripper, DEKEMA logo

Art. No. 101921

Gripper for safe handling of sintering accessories with \varnothing 100 mm.



SinterPlace set, \varnothing 100 mm

Art. No. 105836

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



DEKEMA. Accessories.

AUSTROMAT™ μ SiC™

Insulation table, μ SiC™

Art. No. 101263

Insulating table in combination with firing table ring for use in AUSTROMAT™ μ SiC™.



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.



Sintering beads, Micro Pearls (200 g)

Art. No. 105262

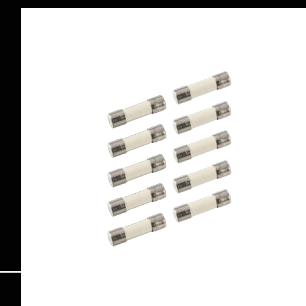
Sintering beads for distortion-free sintering of objects in the firing table basis hybrid Ø 100 mm and firing table basis trough Ø 65 mm.



Fuse (10 pieces), 5x20 mm, 16 A, 230 V

Art. No. 100512


























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



DEKEMA. Technical data.

	AUSTROMAT™ 664	AUSTROMAT™ 664i™	AUSTROMAT™ 674	AUSTROMAT™ 674i™	AUSTROMAT™ μSiC™
Size (WxHxD)	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"	16,38" x 38,98" x 23,70"
Weight	46 lbs	51 lbs	53 lbs	55 lbs	172 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	100 – 240 V/50 – 60 Hz
Maximum power supply	2.000 W	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	1.600 °C





































DEKEMA. Device equipment.

	AUSTROMAT™ 664	AUSTROMAT™ 664i™	AUSTROMAT™ 674	AUSTROMAT™ 674i™	AUSTROMAT™ μSiC™
Housing: Aluminum					
Corporate Design customization	optional	optional	optional	optional	optional
Touchscreen	7,5", color	10,4", color	7,5", color	10,4", color	–
USB interface / Ethernet interface	 / optional		 / optional		
DEKEMA specific SiC heating element: high purity heating elements made of SiC (silicon carbide), firing at high temperatures, no discoloration					
Multi-compound fiber insulation: Multilayer insulation for sintering at high temperatures					
DEKEMA AutoDry™					

DEKEMA. Software features.

	AUSTROMAT™ 664	AUSTROMAT™ 664i™	AUSTROMAT™ 674	AUSTROMAT™ 674i™	AUSTROMAT™ μSiC™
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		
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					
Online: Backup / Update	optional		optional		
VNC-Server: VNC viewer for remote control of the DEKEMA furnace on the PC	optional		optional		
OPC: Industrial standardised connection for data exchange between different systems	optional		optional		
OPC UA: Secure, manufacturer-independent interface for Industry 4.0 and IoT communication	–	optional	–	optional	–
Programing languages	Classic	Classic, Professional, Chairside	Classic	Classic, Professional, Chairside	Classic

DEKEMA. Accessories.

	AUSTROMAT™ 664	AUSTROMAT™ 664i™	AUSTROMAT™ 674	AUSTROMAT™ 674i™	AUSTROMAT™ μSiC™
Heating element, SiC hanging, set with cable (Art. No. 105413)					
Thermocouple, for hanging heating elements (Art. No. 106652)					
Calibration set high temperature					
CALIBRITE™ sinter set (Art. No. 106907)	optional	optional	optional	optional	optional
CALIBRITE™ sinter PTC (Art. No. 106906)	optional	optional	optional	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)	optional	optional	–	–	–
Insulating table, Ø 100 mm sintering plane (Art. No. 105381)	–	–			
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	optional	optional
Firing table, basis hybrid, Ø 100 mm (Art. No. 105648)	–	–			
SinterPlace set, Ø 100 mm (Art. No. 105836)	–	–	optional	optional	optional
Sintering beads, Micro Pearls (200 g) (Art. No. 105262)	optional	optional	optional	optional	optional
Fuse (10 pieces), 5x20 mm, 16 A, 230 V (Art. No. 100512)	optional	optional	optional	optional	optional
Tweezers, DEKEMA logo (Art. No. 105236)					–
Gripper, DEKEMA logo (Art. No. 101921)	–	–	optional	optional	
Software Package for AUSTROMAT™ 664 or AUSTROMAT™ 674 (Art. No. 101933)	optional		optional		
Temperature upgrade kit (max. temp. 1.560°C) (Art. No. 105619)	optional		optional		
Temperature upgrade kit (max. Temp. 1.600°C) (Art. No. 106723)	–	–	–	optional	



DEKEMA

Der Ofen.™

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