

FIRE AND PRESS

DEKEMA. Content.

DEKEMA. Passion.	4
DEKEMA. Claim.	5
DEKEMA. Manufacture.	6
DEKEMA. Innovation by tradition.	8
DEKEMA. Equipment.	9
DEKEMA. Highlights.	10
DEKEMA. Circle.	11
AUSTROMAT™ 220 – firing	14
DEKEMA. Accessories – AUSTROMAT™ 220	18
AUSTROMAT™ 624/624/™ – firing	20
DEKEMA. Accessories – AUSTROMAT™ 624/624/™	24
AUSTROMAT [™] 654/654 <i>i</i> [™] – firing and pressing	26
DEKEMA. Accessories – AUSTROMAT™ 654/654 <i>i</i> ™	30
DEKEMA. Accessories – AUSTROMAT™ 654/654 <i>i</i> ™	32
DEKEMA. Vacuum.	34
DEKEMA. Technical data and device equipment – Comparison of all firing and pressing furnaces	36
DEKEMA. Software features – Comparison of all firing and pressing furnaces	38
DEKEMA. Accessories – Comparison of all firing and pressing furnaces	40







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.



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.

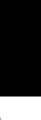
The user interface is consistent throughout all models. No matter which furnace you use, you immediately feel familiar and training has gone the way of the todo.

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.

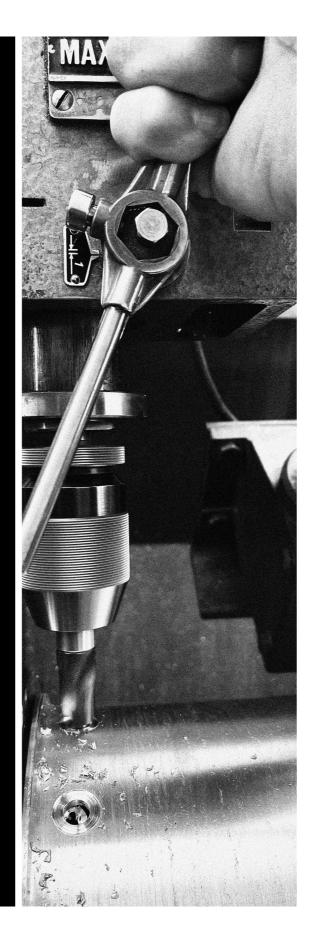
You would like to individualize your furnace? Let your equipment reflect your personality. An individual screensaver, your logo, or your corporate color – DEKEMA customizes your AUSTROMAT[™].

DEKEMA. Housing.

- ➤ Convection cooling integrated by design without separate fan
- ➢ 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.

- 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.

- 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
- temperature measuring point





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/[™]. 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.

DEKEMA

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 service

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

DEKEMA Connect

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

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.

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!

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.

OPC and OPC UA

OPC - proven technology for communication between automation systems. OPC UA - an advanced, platform-independent and secure architecture that enables seamless connection of different devices and supports real-time data transmission.

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 guestions - 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.









DEKEMA

"IT ALL BEGAN WITH A **CERAMIC FURNACE.** TODAY **YOU RECEIVE THE** MAGNUM OPUS."

Dr. Stephan Miller, CEO

Be inspired by our magna opera









The DEKEMA for starters. No compromise on results.

AUSTROMAT[™] 220

- 13 kg stable
- with and without vacuum
- Place Power Perform



Applications	with vacuum	without vacuum
Fire	optional	
Press	-	-
Sinter		
Glaze	optional	
Crystallize	optional	
Infiltrate	optional	



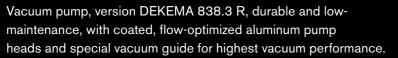


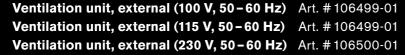




DEKEMA. Accessories. AUSTROMAT[™] 220

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

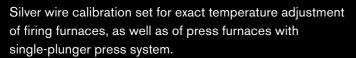




Ventilation unit for connecting a vacuum pump to vacuum furnaces without integrated solenoid valve.

Silver wire calibration set, standard

Art. #101817





Tweezers, DEKEMA logo

Furnace tweezers for safe handling of firing objects.

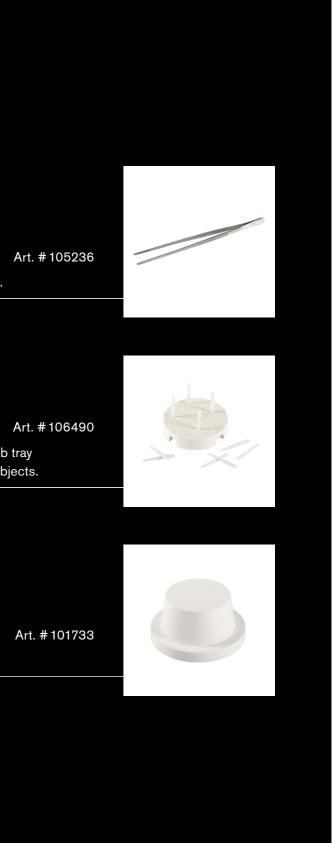
Firing tray, set

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

Firing table, fibre

Firing table for use in furnaces with fiber insulation.







624 / 624*i*[™]



The expert for perfect firing results.

AUSTROMAT[™] 624

- Automatic control of the drying and cooling to optimize aesthetics
- M 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[™]
- M 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 vacuur
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™.



included

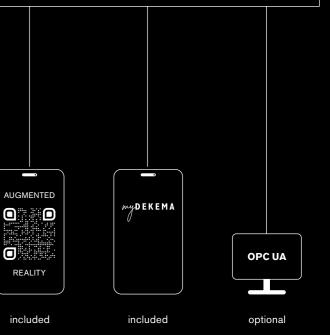


*optional



+++ Serie *i* features +++

- Internet program streaming
- Internet of Things): If the DEKEMA furnace is registered at DEKEMA online, you benefit from a secure backup of the process data and fast 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
- ➢ Online: Backup and update



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.

T _e 24 °C	Setup	11	22.25 08.06
Units	Fumace identification	Drying	Printer
Language	Set acoustic signal	Check program	Quality management
Date / Time		Oridation	Diagrosis da
Screen settings	Heating settings	Temperature calibration	Logicidaea
Noteon			Backup / Reco
General code	Lift settings		FTP Server La
	100		RVICE ES

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

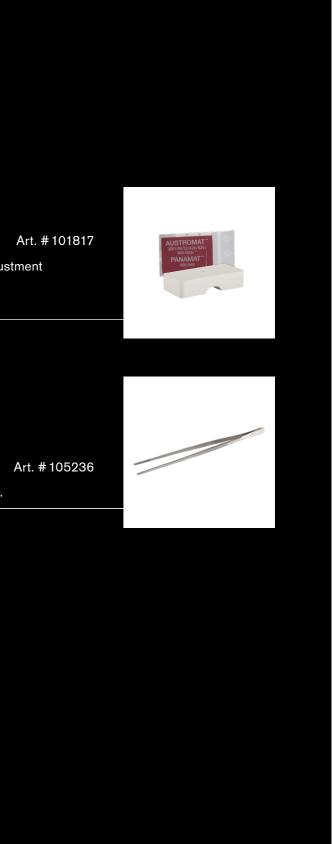
Silver wire calibration set for exact temperature adjustment of firing furnaces, as well as of press furnaces with single-plunger press system.

Tweezers, DEKEMA logo

Furnace tweezers for safe handling of firing objects.











One for all – firing and pressing in perfection.

AUSTROMAT[™] 654

- 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
- Leven 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

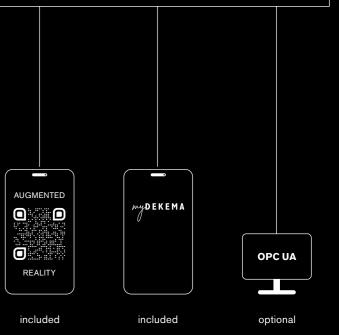


Applications	with vacuum	without vacuu
Fire		
Press		
Sinter		
Glaze		
Crystallize		
Infiltrate		

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.











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

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.

Tweezers, DEKEMA logo

Art. #105236

Furnace tweezers for safe handling of firing objects.

Silver wire calibration set, multiple plunger press system

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

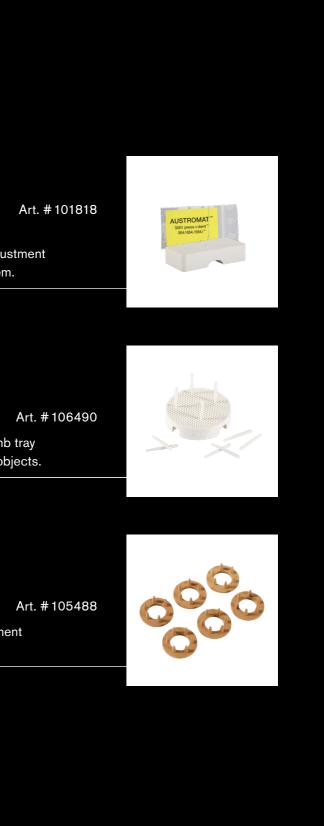
Firing tray, set

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

Ceramic supports (6 pieces)

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





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

trixpress[™] ring system, set

Art. #101807-01

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[™] press ring, 380g segments

Art. #101808

Press ring for pressing over extensive restorations.

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

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



trixpress[™] disposable plungers, Ø 13 mm (50 pieces)

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

Software Package for AUSTROMAT[™] 654

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







Art. #101933

T _c 24 °C	Setup	1	1:22:25	08.06.22
Units	Furnace Identification	Drying		Printer
Language	Bet acoustic signal	Check program		Quality Integeneral
Date / Time		Oxidation	Dia	gnosis data
Screen settings	Healing settings	Temperature colibration		ogin data
Reflected			Rack	sp / Recovery
General code	Lift settings			Gerrer Login
			ERVICE	EBO



DEKEMA. Vacuum.

DEKEMA. Vacuum pump.

- Self-cooling aluminum heads
- M Straight air flow
- ➤ High running performance with low maintenance requirements
- Self-cleaning feature
- ▲ Low-noise operation due to highly effective silencer





DEKEMA. Technical data.

	AUSTROMAT [™] 220	AUSTROMAT [™] 624	AUSTROMAT [™] 624 <i>i</i> [™]	AUSTROMAT [™] 654	AUSTROMAT [™] 654 <i>i</i> ™
Size (WxHxD)	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 o 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

DEKEMA. Device equipment.

	AUSTROMAT [™] 220	AUSTROMAT [™] 624	AUSTROMAT [™] 624 <i>i</i> [™]	AUSTROMAT [™] 654	AUSTROMAT [™] 654 <i>i</i> [™]
Housing: Aluminum					
Corporate Design Customization	-	optional	optional	optional	optional
Touchscreen	4,3'', color	7,5'', color	10,4", color	7,5'', color	10,4'', color
USB interface/Ethernet interface	_/_	/ optional		/ optional	
Quartz glass heating element: DEKEMA specific heating element coil guided in pure quartz glass					
Fiber insulation: DEKEMA specific fiber insulation				-	-
DEKEMA stone insulation: internally fabricated, specific stone insulation	-	-	-		
DEKEMA vacuum pump	optional				
DEKEMA ventilation unit	optional	integrated	integrated	integrated	integrated
DEKEMA AutoDry™	_				
MPTA (Multiple Press Time Automatic)	-	-	-	<i>]</i> }	



DEKEMA. Software features.

	AUSTROMAT [™] 220	AUSTROMAT™ 624	AUSTROMAT™ 624 <i>i</i> ™	AUSTROMAT™ 654	AUSTROMAT [™] 654 <i>i</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	
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: 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, Easy, Professional	Classic, Easy, Professional, Professional Plus	Classic, Easy, Professional, Press	Classic, Easy, Professional, Press, Professional Plus
Language-independent program management		_	_	_	_





DEKEMA. Accessories.

	AUSTROMAT™ 220	AUSTROMAT [™] 624	AUSTROMAT™ 624 <i>i</i> ™	AUSTROMAT™ 654	AUSTROMAT [™] 654 <i>i</i> [™]
Firing table, fibre (Art. #101733)				-	-
Firing tray, set (Art. #106490)	optional	optional	optional	optional	optional
Silver wire calibration set, standard (Art. # 101817)				-	-
Firing table, multiple-plunger press furnaces (Art. #101734)	-	-	-		
Press table, multiple plunger press system (Art. #101726)	-	-	-		
Ceramic supports, 6 pieces (Art. #105488)	_	-	-	optional	optional
Silver wire calibration set, multiple plunger press system (Art. #101818)	-	-	-		
trixpress™ ring system, set (Art. # 101807-01)	_	-	-	optional	optional
trixpress™ press ring, 380 g segments (Art. #101808)	-	-	-	optional	optional
trixpress™ disposable plungers, Ø 13 mm, 50 pieces (Art. # 105891)	_	_	_	optional	optional
Placeholder, blue color, Ø 13 mm, 50 pieces (Art. # 101915)	-	-	-	optional	optional
Tweezers, DEKEMA logo (Art. #105236)	optional				
Software Package for AUSTROMAT [™] 624 or AUSTROMAT [™] 654 (Art. #101933)	-	optional		optional	





DEKEMA

Der Ofen.™

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