

# AUSTROMAT® 664 iSiC®



The **AUSTROMAT® 664 iSiC®** merging the performance and efficiency of the sintering furnace **AUSTROMAT baSiC®** and the ease of use of the firing furnace **AUSTROMAT® 624**. Together with its small footprint the **AUSTROMAT® 664 iSiC®** fills the missing link to a reasonable priced entry level sintering furnace for your table top cnc mill or to a cost effective compensational sintering unit in your milling center.

# AUSTROMAT® 664 iSiC®



Der Ofen.

## Efficient, User-friendly, Future-oriented

The **high temperature furnace AUSTROMAT® 664 iSiC®** is equipped with two silicon carbide heating elements to safely and consistently operate at temperatures up to 1530 °C. All components of the AUSTROMAT® 664 iSiC® firing chamber are made of highest purity, durable materials to ensure very homogeneous heat distribution and a clean atmosphere. A patent pending, DEKEMA® specific Platin/Platin Rhodium thermocouple monitors the temperature inside the sintering chamber. Up to 15 units to a maximum diameter of 65 mm might be simultaneously sintered on top of the patented insulation table, optionally in two levels. Our time tested AutoDry®-system has been further improved, providing both, precise drying steps, as well as quick and direct heating and cooling steps, for extremely short sintering cycles.



The furnace is **operated** by a huge high resolution touch screen. You may change program parameters even during program run; optionally remotely with your PC browser or your mobile device.

A backup and recovery function via USB prevents loss of data. In addition transfer sintering programs with a USB flash drive. Or connect a mouse or a keyboard. Alternatively, data can be recorded on a USB flash drive, or optionally checked remotely. The optional integration of your AUSTROMAT® 664 iSiC® into your **network** structure allows, i.e., to proceed online diagnosis via internet.

**Power consumption** of less than 2 kW, short and effective sintering cycles and the variability of the AUSTROMAT® 664 iSiC® provide a reasonable priced entry level sintering furnace for your table top cnc mill as well as a cost effective compensational sintering unit in your milling center with optimized processing reliability.



# AUSTROMAT® 664 iSiC®



Der Ofen.

## Precise, Robust, Network-compatible

Only DEKEMA® is able to perfectly adapt the silicon carbide heating technology to dental, through our patent pending technique. Sintering objects are heated without any cover. No greening or discoloration arises. And, surely, this leads to a **perfect temperature distribution** with no shading effects and with exact temperature guidance, even with highest heating and cooling rates.

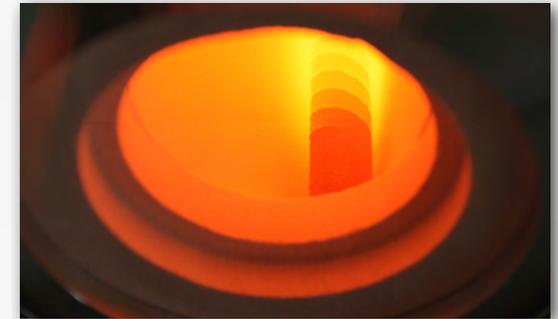


**Calibration** with PTCR (Pyrolytic Temperature Calibration Ring) simplifies calibration of the AUSTROMAT® 664 iSiC®. As this technique is not easy to analyze, DEKEMA naturally supports you by exactly evaluating the PTC ring. Satisfying our highly sophisticated customers with perfect tools, that's what DEKEMA® stands for.

**Sintering objects** must not contaminate. DEKEMA® spends a lot of time and efforts in creating the right support for your sintering objects, to guarantee a clean atmosphere inside the sintering chamber. A patented system of tailored rings and plates made of customized material is optimized for durability and stability, even at high temperature gradients. The AUSTROMAT® 664 iSiC® optionally can be equipped with a second pair of rings and plates to sinter in two levels.



You want to remotely control the furnace with your **mobile device**? Optionally, we also serve state of the art solutions. Our Software has provided these tools since two furnace generations.



## Specifications

### DEKEMA® Autodry®:

Simulates object temperature measurement and automatically regulates the distance between the sintering chamber and the firing object with the vibration-free lift, for precise heating and cooling steps.

### Automatic Self-Test:

Internal test routines continuously monitor the temperature while the program is running.

### Check Program:

An automatic diagnosis routine is integrated for all system relevant components to determine the service intervals.

### Setup:

Split into three areas, global parameter, service routines and readout data; like units, language, date, time, screen settings, network settings (optional), general code, furnace identification, acoustic signal, heating settings, lift settings, temperature calibration, check program, printer, quality management (optional), diagnosis data, login data (optional), backup/recovery and many other functions.

### Interfaces:

2x USB and Ethernet

### Software Options for Function Extension:

Internet access, JAVA™ remote access, VNC remote access, ftp server, ftp client, quality management, X-DREAM®, OPC server

### Scope of Delivery:

AUSTROMAT® 664 iSiC®, multi-compound insulation table including one set of sintering means, manual, calibration kit, tweezers, power cord

### Technical Data:

220-240 V / 50-60 Hz, max. 2000 W,  
383 mm x 780 mm x 343 mm (width x height x depth), approx. 21 kg

	Range	Item
Temperature inside the firing chamber	50 bis 1530	°C
Lift position	0 bis 9	Bottom to top
Time	1 bis 64000	Seconds
Acoustic signal	1 bis 9	Number of rings
Heat and cooling rate	1 bis 60	°C/min
Time-controlled heat and cooling rate	1 bis 64000	Seconds for chosen temperature interval
Time-controlled lift movement	1 bis 9	Change of lift position for chosen time interval
... and many more		