

# VARIO 200 ceramic furnace

MADE IN GERMANY



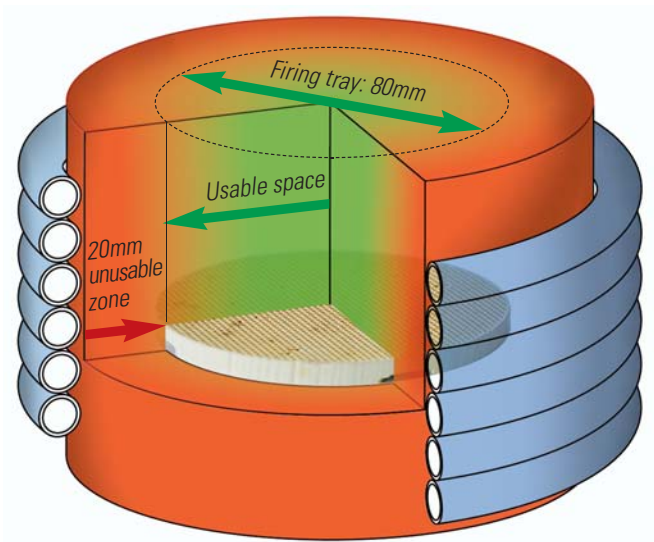
- ▶ Homogeneous temperature on the internal firing tray
- ▶ Usable space: 80mm
- ▶ Z-Drying Mode
- ▶ LED Screen
- ▶ Revolutionary Firing Chamber Design
- ▶ Power Fail Control



## The usable space of a firing chamber

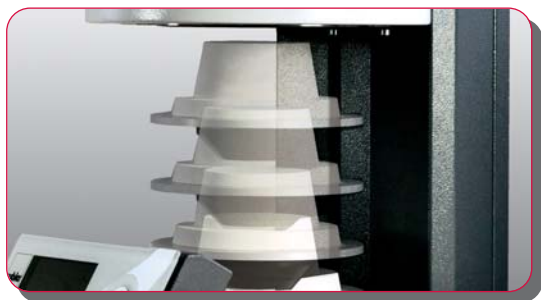
Ceramics of inconsistent quality due to thermal variances in the firing chamber are now a thing of the past. The Zubler Company analyzed (in long series of tests), the thermal conditions in firing chambers during the entire firing cycle. Based on these findings is the newly designed VARIO 200, a porcelain oven with a revolutionary new firing chamber.

Measurements of ovens taken during the tests revealed temperature differences of up to 50 degrees C (!) when compared to the temperature at the midpoint of the firing tray. This non-uniformity of temperature in the firing chamber can be explained by the close proximity of the heating element; this area is for dental ceramic firing "useless". Only at a distance of 20mm from the heating element can we begin to see more homogeneous heat distribution (deviation <5 degrees C). The usable space is the field on the firing tray that is after this unusable zone, on which the temperature difference from the center of the firing tray is a maximum of 5 degrees C.



## Positioning of objects on the firing tray

To ensure uniform sintering of ceramics, objects should be placed only in the "usable space" of a ceramic oven. This is calculated from the inside diameter of the heater coil minus 40mm (20 + 20). The new VARIO 200, with a firing chamber size of 120mm diameter and a heating spiral height of 60mm provides homogeneity of the internal temperature across the firing tray. Thanks to this unprecedented balance of thermal conditions in the furnace, dental ceramics can be produced that meet the highest quality standards.



## The Z-Dry System

The intelligent way to dry ceramic objects before firing. Depending on the actual temperature within the firing chamber and the resulting radiated heat, the electronics determines the ideal distance between the lift and chamber to effectively pre-dry work. Thus liquids are more homogeneously evaporated out of the opaque or ceramic.

## Security by PFC

Unforeseen interruptions of the pressing or firing process due to power failure can result in total loss of work. When power is returned, the VARIO 200 Power-Fail Control (PFC) is activated and the electronics return the furnace to the program's point of interruption.

