

**Porcelain Firing and  
Zirconia Sintering Furnaces  
For Dental Restorations.**

*For Dental Labs, Clinics, and Hospitals*



Since 1984

**td** **TEKNİK  
DENTAL**

*Murat Parlar*



## who we are

We manufacture dental zirconia sintering and porcelain furnaces with our nearly 40 years of experience in dentistry, chemistry, software and sectoral know-how.

We are the most known and used Turkish furnace brand in Türkiye.

## our products

Our production line includes the Tegra Porcelain Furnace and the Tegra Zirconia Sintering furnace, which have proven their quality over many years of use in the largest dental laboratories. We also offer various crucibles, heating elements and other spare parts.

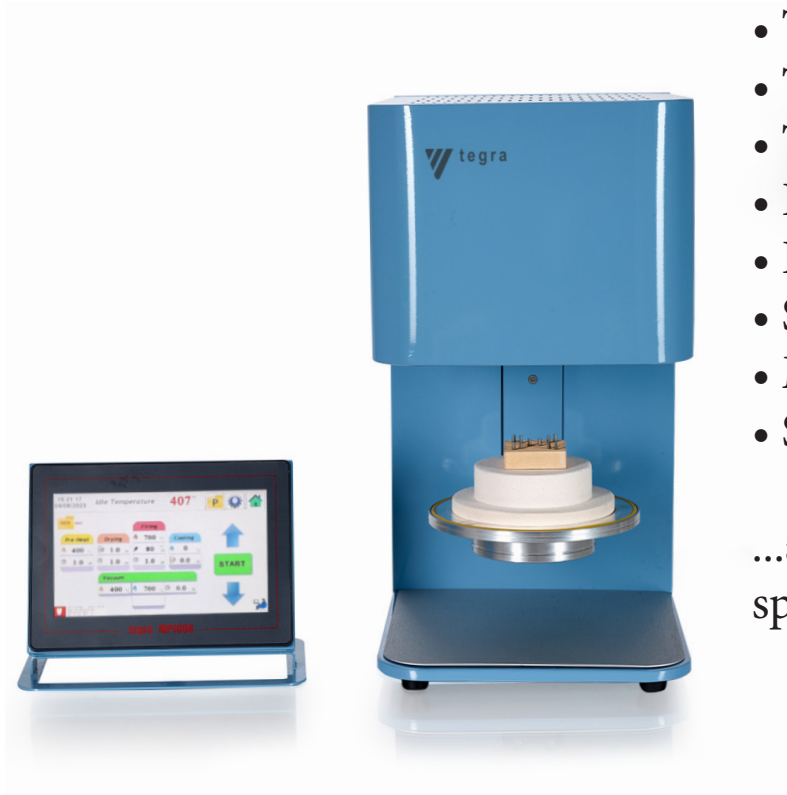
We also produce precision holders and various milled products for implantology.

## CREATING VALUE

Murat Parlar, a chemist and dental technician who studied and worked in Germany, founded Teknik Dental in 1984 with the goal of creating "value-generating solutions." With a steadfast commitment to quality and precision, Teknik Dental has emerged as a pioneer in the industry.

The company has employed various analytical techniques to discern market needs and subsequently embarked on developing groundbreaking products that seamlessly blend exceptional design with outstanding performance.

## our inventory



- Tegra MP100S Porcelain Furnace
- Tegra MP200 Porcelain Furnace
- Tegra Multistep Sintering Furnace
- Porcelain Furnace Heaters
- Porcelain Furnace Vacuum Pump
- Spiral Quartz Heating Elements
- MoSi2 Heating Elements
- Sintering Crucibles

...and further accessories and spare parts

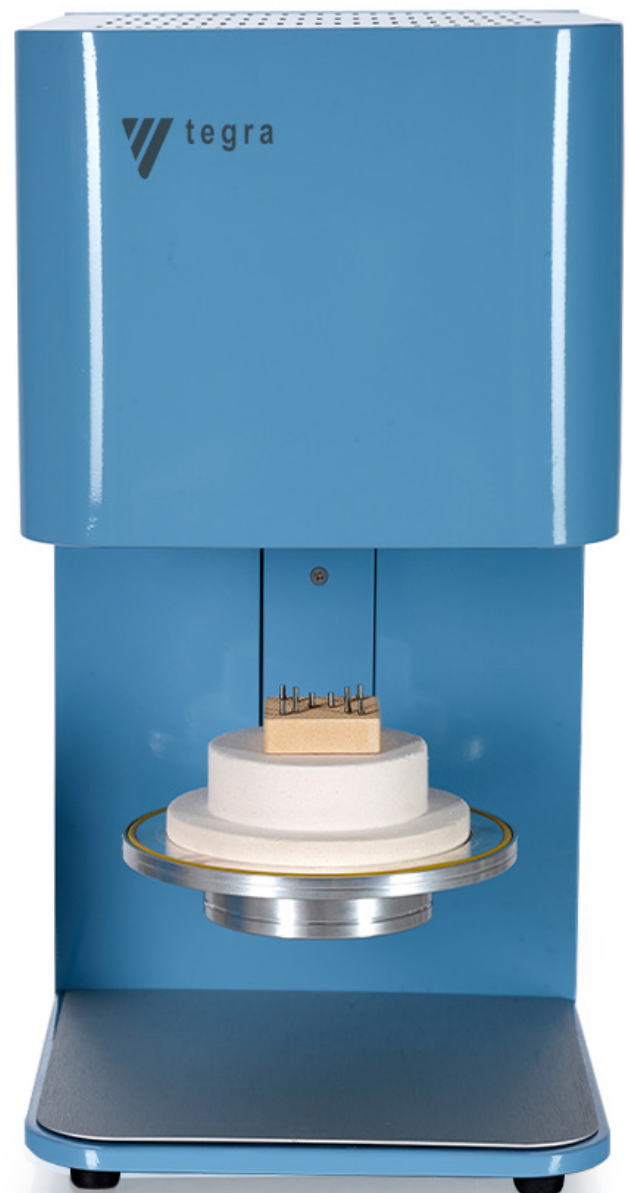
# PORCELAIN FURNACE

## MP100 S

Experience the pinnacle of porcelain firing with the Tegra MP100S, a fusion of cutting-edge technology and time-tested craftsmanship.

Built to elevate your dental work to unprecedented quality, this furnace is more than just a tool – it's your partner in achieving flawless results.

The 7-inch vibrant touchscreen grants you effortless control, empowering you to fine-tune up to 100 programs with 17 adjustable parameters.



## Features

Seamlessly modify parameters while a program is running. Vacuum-assisted rapid cooling ensures that your creations are ready swiftly, while an energy-saving sleep mode keeps you energy efficient.

Precision at Its Core: With a high-temperature resistant quartz crystal coated heater, your porcelain pieces are enveloped in the embrace of perfection. Say goodbye to inconsistencies and hello to unparalleled precision.

- . Convenient and colorful 7 inch touchscreen
- . 100 programs – 17 parameters
- . Perfect match with all porcelain powders
- . Quartz crystal coated heater

Test functions and detailed error messages

Alerts for lift switch, lift motor, heater, thermocouple, low voltage and vacuum failures.

### Technical Specifications

Weight 25 Kg  
 Dimensions 43/44/48 cm  
 Voltage 220-230 Volt ~ 50Hz  
 Current 6 A  
 Power 1400W

## Settings

- . Sleep Mode
- . Vacuum Pump Intermittent/Continuous
- . Adjustable Vacuum Level (milibars)
- . Offset (Heat Calibration)
- . Constant Standby Temperature

## Parameters

Preheat Rate	20-70 °C/min
Preheat Temperature	200-500°C/min
Waiting Time at Preheat	0-99 min
Lift Closing Time	0-99 min (10 steps)
Drying Time	0-99 min
Firing Temperature	0-1100 °C
Heating Rate	20-130 °C/min
Vacuum Start Temp.	0-1100 °C
Vacuum End Temp.	400-1100 °C
Vacuum Hold Time	0-99 min
Cooling Temperature	0-Firing Temp °C
Cooling Rate	0-50 °C/min
Cooling Hold	0-99 min
Lift Opening Time	0-99 min

## Unleash Your Creativity

Achieve the ideal firing atmosphere with precision temperature and adjustable vacuum levels, whether intermittent or continuous. Detailed control of cooling temperature, cooling rate, hold at cooling temperature and lift opening time.

# PORCELAIN FURNACE

## MP200

The Tegra MP200 is a proven, modern, and economical model that is the next generation of our line of classic furnaces adapted for today's needs.

The Tegra MP200 porcelain furnace has been designed with years of accumulated know-how to provide easy and superior quality restorations.



# COMPACT DESIGN



# SIMPLE USAGE

## Technical Specifications

Weight 25 Kg  
 Dimensions 43/44/48 cm  
 Voltage 220-230 Volt ~  
 50Hz  
 Current 6 A

## Features

Reduced parameters for easy use. Pre-Heat and StandBy ramps are set globally. Using a single valve versus multi valve models, removes the fast cooling and intermitten vacuum functions. Reducing the components makes the furnace more economic and also durable.

Precision at Its Core: With a high-temperature resistant quartz crystal coated heater, your porcelain pieces are enveloped in the embrace of perfection. Say goodbye to inconsistencies and hello to unparalleled precision.

- . Convenient and colorful 7 inch touchscreen
- . 100 programs – 12 parameters
- . Perfect match with all porcelain powders.
- . High temperature quartz crystal coated heater
- . Parameters that can be changed while the program is running
- Test functions and detailed error messages

Alerts for lift switch, lift motor, heater, thermocouple, low voltage and and vacuum failures.

## Settings

Offset (Heat Calibration)  
 Constant Standby Temperature  
 Language Setting (Turkish/English)  
 Date – Time

## Parameters

Preheat Rate	20-70 °C/min
Preheat Temperature	200-500°C/min
Waiting Time at Preheat	0-99 min
Lift Closing Time	0-99 min (10 steps)
Drying Time	0-99 min
Firing Temperature	0-1100 °C
Heating Rate	20-130 °C/min
Vacuum Start Temp.	0-1100 °C
Vacuum End Temp.	400-1100 °C
Vacuum Hold Time	0-99 min
Cooling Temperature	0-Firing Temp °C
Cooling Rate	0-50 °C/min
Cooling Hold	0-99 min
Lift Opening Time	0-99 min

# ZIRCONIA SINTERING FURNACE

## MP1500 MULTISTEP

*Sustainable standards in each firing.*

Firing graphs can be monitored in real time when the program is running. This helps make sure to detect and avoid external factors interfering with the quality of your restorations.







Tegra MP1500 Multistep is our multi-functional sintering furnace model for both **fast**, **normal** and **multistep** sintering. It is built to last through heavy working conditions. The furnace can reach 300 to 1550 °C in 30 minutes.

This furnace is suitable for all materials that need various amounts of firing steps. It can fire a single crown like any other fast sintering furnace or it can stack up to 3 crucibles that can be filled with a large number of units and used in a long day round program with up to 10 heat/cool ramps and hold times.

## Parameters

Target Temperature	1550 °C
Heat Rate	1-40 °C
Hold Time	1-180 minutes
Cooling Temperature	200-800 °C
Cooling Rate	1-20 °C
Chamber Open Time	30-180 minutes



We use high purity MoSi<sub>2</sub> heating elements specially produced for dentistry, non-pollutive with high durability.



The cooling process is controlled, preventing damage to your work and heating elements as well.



In case of power failure, the program will continue from where it left off.

## 100 Program Memory

### Store Complex Programs

- . 10 step cycles with
- . 3 parameters each.
- . 30 parameters in total

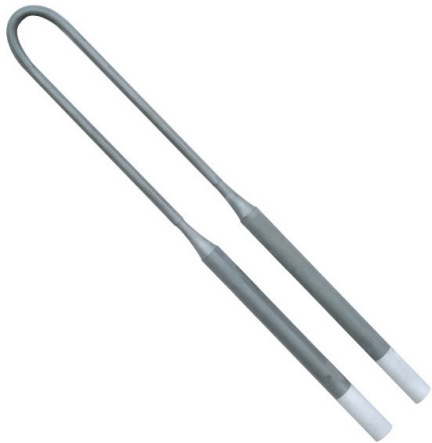
Ready for future sintering blocks.

## Electrical Specifications

- Voltage 220-230 V 50 Hz
- Current 15 A
- Power 3500 W

For higher temperature or atmosphere conditions please get in touch with us for further specialized furnaces, such as further heating or argon gas add-on's etc.

# SPARE PARTS



## SINTERING HEATERS

99.99% high purity Molybdenum Disilicid  $\text{MoSi}_2$  Heating Elements are resistant to oxidation and self-healing, suitable for continuous use even in oxidizing atmospheres.



## PORCELAIN HEATERS

We utilize only the finest Kanthal A1 wire with an impressive operating temperature of  $1400^\circ\text{C}$  in our resistances, ensuring consistent and reliable performance even in the most challenging conditions.



## SINTERING CRUCIBLES

Made of high purity Alumina Ceramic material, our crucibles are resistant up to a temperature of  $1800^\circ\text{C}$ . Resistant to thermal shock. Not easy to crack and long lasting. Dimensions Height(H): 35mm, Diameter Options: OD 90mm, OD 100mm, OD 120mm (Outer R. Dimension)



## VACUUM PUMPS

We use oil-free vacuum pumps with high performance and heat protection in our furnaces. Our vacuum pumps are specially manufactured for porcelain works and have both very high pressure power and high air flow for rapid cooling function.

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# CUSTOMER SUPPORT



## TECH SUPPORT

**Installation and setup:** Our team can help you install and set up your dental equipment quickly and efficiently.

**Training:** We offer comprehensive training on all of our products, so that you can get the most out of your investment.

**Repair and maintenance:** We offer comprehensive repair and maintenance services for all of our products, so that you can keep your equipment running smoothly for years to come.

**Remote support:** We can provide remote support to help you resolve technical issues quickly and easily, without the need to send your equipment in for repair.

## *We are always there for you*

We gladly provide help with programming new parameters for new manufacturer specifics.

We provide support for porcelain and zirconia firing problems for all zirconia and porcelain powder manufacturers.

Teknik Dental has a tech support capacity that is unmatched in the industry.

With nearly 40 years of accumulated know-how, our team of experts is equipped to handle any technical issue you may encounter, from simple troubleshooting to complex repairs.

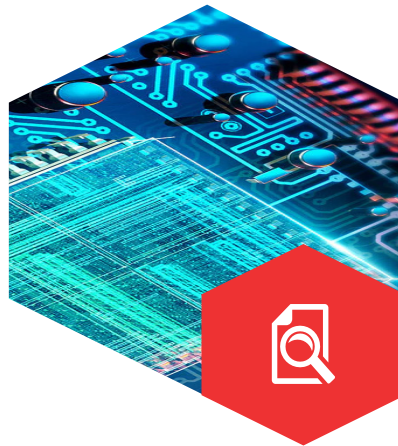
# WE ARE 40 YEARS STRONG

*Real Guarantee, Fast Service, Direct Contact.*



## Continuous Research

With an unwavering focus on innovation, we proudly commemorate four decades of commitment. Our legacy embodies real guarantees, swift service, and direct communication. Through continuous Research and Development (R&D), we've pioneered solutions that redefine possibilities. This journey has been fueled by challenges turned into opportunities, propelling us into a future where excellence knows no bounds. Thank you for joining us on this remarkable journey of progress and transformation.



## Proven Quality

We invite you to uncover the core of our company's identity - a journey defined by decades of unwavering commitment to impeccable quality. Our story is etched in the meticulous craftsmanship and rigorous testing that shape each product we offer. Across four remarkable decades, our name has become synonymous with enduring excellence. Embark on a journey through the very heart of our company, where proven quality isn't just a standard - it's who we are.



## Extensive Know-How

Discover how our accumulated knowledge, passed down through generations, has shaped our products and services. Join us as we unveil the historic foundations that continue to elevate us in an ever-evolving landscape, proving that true mastery stands the test of time.

# Our Commitment to Trust and Excellence

At Teknik Dental, trust is the cornerstone of everything we do. For years, we have been dedicated to serving our valued customers with unwavering integrity, transparency, and a commitment to excellence. As you reach the final pages of our catalog, we want to take a moment to express why you can place your trust in us.

From the inception of our company, our primary focus has been on delivering products of the highest quality. Every item featured in this catalog has undergone rigorous testing and meticulous quality control measures, ensuring that you receive nothing less than exceptional craftsmanship.

We believe that by consistently providing you with products that meet and exceed your expectations, we earn the trust you place in us.

*Murat Parlar*



Türkiye

**td** TEKNİK  
DENTAL  
*Murat Parlar*

## Contact Us

We are located bordering Europe and Asia in İstanbul, Türkiye. Please email or call us for an appointment, we will be glad to have you over, meet us and test out our devices.

[teknikdental.com](http://teknikdental.com)



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