

Programat[®] S1 1600

The exceptional sintering furnace

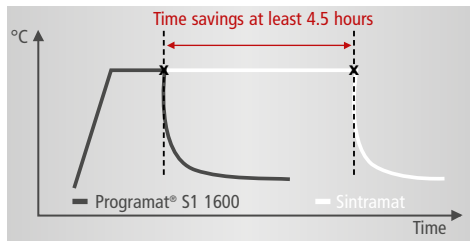


Sintering ZrO₂ restorations
has just become faster

Programat® S1 1600

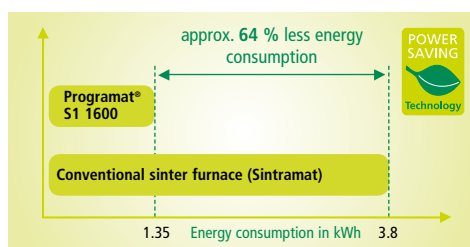
Faster and more efficient

Sintering IPS e.max® ZirCAD and Zenostar® MO crown copings in just 75 minutes



Significant time savings due to short sintering processes

Programat® S1 1600 (as of software V2.0) sinters restorations in significantly less time than conventional sintering furnaces. Until recently, these processes lasted five to eight hours. The new Programat S1 1600 reduces the time required for sintering an IPS e.max ZirCAD or Zenostar MO crown coping to about 75 minutes. This increase in efficiency pays off because ZrO₂-based crowns and bridges can now be completed in a single work day (incl. veneering).



Cost effectiveness and energy efficiency
(Power Saving Technology)

The time-saving sintering process has a positive effect on the production costs. Because the process takes less time, less energy is consumed. The diagram on the left shows how much energy is saved with the Programat S1 1600 compared with a conventional sintering furnace.

The systems approach at the forefront

WIELAND
ZENOSTAR®
UNIVERSAL ZIRCONIA SYSTEM



System components as a key to success

Ivoclar Vivadent strives to coordinate its equipment and materials in the best possible way, so that users can achieve exceptional results with these products. This philosophy also guided the developers of the new Programat S1 1600 when they designed the new sintering furnace. Therefore, users can rely on this piece of equipment to produce precision sintering results quickly and easily.





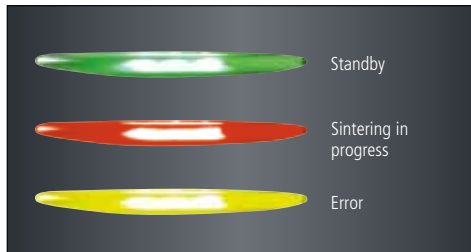
Programat[®] S1 1600

Comfortable and easy operation



Graphics display and proven membrane-sealed keypad

The user-friendly control panel features a clearly-arranged graphic display that optimally shows all the relevant information. The furnace is easy to operate and program by means of the time-tested membrane-sealed keypad



OSD operating status display

The optical operating status display of the Programat S1 1600 uses different colours to inform the user about the actual operating status. The operating status of the furnace is visible even from a large distance.



Easily accessible sintering chamber

On opening, the furnace head tilts upwards and provides ample room to work in. Therefore, objects can be placed in the sintering chamber with ease. The specially developed sinter tray tongs facilitate the placement of the sinter tray.



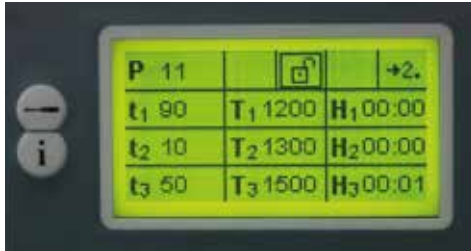
Compact design and light weight

In contrast to conventional sintering furnaces, which are generally bulky and heavy, the Programat S1 1600 is characterized by its compact design and light weight. Compared with conventional sintering furnaces that weigh up to 100 kg, the new furnace weighs in at only 28 kg.



Programat[®] S1 1600

Technology



Many programming options

With a choice of three heating stages and two cooling stages, the sintering program offers a host of programming options. Consequently, a wide variety of materials (even the translucent ZrO₂ materials of the latest generation) can be sintered. In addition to the programs for the Ivoclar Vivadent materials, the furnace provides various program options for the sintering of Wieland materials (Zenostar[®]).



Removable furnace head

The furnace head can be easily detached from the furnace base for transportation and maintenance purposes. As a result, the furnace is very maintenance friendly.



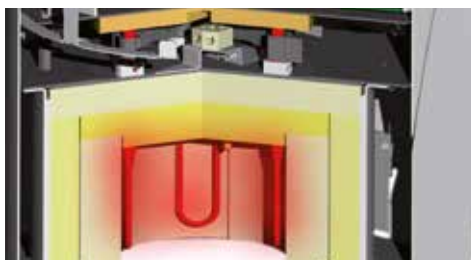
Calibration option

The sintering furnace can be calibrated, allowing the sintering temperature to be checked at any time and to be adjusted if necessary.



USB connection

The furnace can be connected to a PC via a USB interface. Consequently, software updates can be downloaded at any time, if required.



New heating muffle technology for temperatures up to 1600 °C

The Programat S1 1600 features a new type of heating element specially designed for intensive everyday use. These heating elements are characterized by their long service life and even heat emission – a feature that is essential to achieve optimum sintering results. The heating elements are suited for sintering temperatures up to 1600 °C.



Programat[®] S1 1600

Technical data

Power supply

Max. power consumption

Dimensions of the closed furnace

Max. sintering temperature

Weight

Safety notes

Radio protection / electromagnetic compatibility

Delivery form

- 1 Basic unit
- 1 Sinter tray
- 1 Sinter tray tongs
- 1 Temperature Checking Set Starter Kit
- 1 Power cord

118–240 V
50–60 Hz
Overvoltage category II
Tolerable voltage fluctuations $\pm 10\%$

16 A at 118 V
8 A at 240 V

Depth: 430 mm
Width: 310 mm/420 mm (with cooling tray)
Height: 570 mm

1600 °C

Furnace base: 10 kg
Furnace head: 17 kg

The furnace has been built according to the following standards:

- IEC 61010-1-2001
- EN 61010-1-2001
- UL 61010-1-2004
- CAN/CSA-C22.2 No. 61010-1-2004
- IEC 61010-2-010-2003
- EN 61010-2-010-2003
- CAN/CSA-C22.2 No. 61010-2-010-2004

EMC tested



1 Warranty Certificate
1 Set of Operating Instructions
1 Service Passport

Shade: White (RAL 9016)







Fixed prosthetics

Programat® S1 1600 forms a part of the "Fixed Prosthetics" product category. The products of this category cover the procedure involved in the fabrication of fixed prosthetic restorations – from temporization to restoration care. The products are optimally coordinated with each other and enable successful processing and application.



THESE ARE FURTHER PRODUCTS OF THIS CATEGORY:

IPS e.max® System

all-ceramic – all you need



The comprehensive solution covering all indications

- Highly esthetic, high-strength materials for the press and CAD/CAM technique
- Unique lithium disilicate (LS₂) and zirconium oxide (ZrO₂) ceramics for restorations ranging from thin veneers to long-span bridges
- Flexibility of cementation: adhesive, self-adhesive and conventional

Multilink® Automix

Adhesive luting system



A strong bond, proven performance

- Strong hold – both dual- and self-curing
- Universal – suitable for silicate and oxide ceramics as well as metal
- Clinically proven – numerous long-term studies

Would you like to know more about the products of the "Fixed Prosthetics" category? Simply get in touch with your contact person at Ivoclar Vivadent or visit www.ivoclarvivadent.com for more information.

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