

Smart pressing procedures

Programat®

EP 5010 G2

EP 3010 G2

The next generation
of Programat ceramic
and press furnaces

The reliable partner for smart pressing procedures

Modern. Intuitive. Smart.
With the objective to meet
the requirements of your
dental laboratory

Proven technologies, such as the fully automatic press function (FPF), combined with new features - that is what makes the new Programat press furnace your reliable partner.



Modern
design

- ✓ Dynamic colour concept
- ✓ Ergonomic shapes and forms
- ✓ Optimized cooling tray for more space and better cooling

High
process
reliability

- ✓ Fast and high-quality firing results due to infrared technology
- ✓ Optimum integration into the press workflow thanks to preset programs

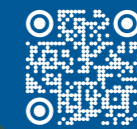
Intuitive
operation

- ✓ New membrane-sealed keypad with proven colour touchscreen display
- ✓ New user interface featuring new symbols and icons
- ✓ Efficient and reliable performance due to software optimizations



Device monitoring, anytime and anywhere

Monitor your Ivoclar devices from anywhere with Ivoclar Monitoring. Receive real-time updates and push notifications for your Programat furnaces.^[1] It is smart, transparent and completely free of charge.



FIND OUT MORE

<http://ivoclar.com/ivoclar-monitoring>



[1] Continuous online connection and activated IoT function of the devices are mandatory for Ivoclar Monitoring. Available for Programat milling machines and Programat furnaces in selected countries. For a detailed list of all compatible devices, access the product page directly by scanning the QR code.

Infrared technology and fully automatic press function (FPF)

Innovative infrared technology^[2] (IRT) with integrated thermographic camera measures the exact temperature at the surface of the objects being fired and the investment ring. The Programat furnace automatically controls the pre-drying and closing process and adjusts the press process accordingly.

Due to the new patented and fully automatic press function^[3] (FPF), pressing is now even easier and more economical. All you need to do is put the investment ring into the furnace and press the start button - everything else is performed by the furnace itself.

ivoclar

Programat EP 5010

Electronic press drive with force sensor

The electronic press drive with force sensor records and controls the pressure of the press plunger very precisely and therefore ensures top-quality press results. A compressed air connection is not required.

- ✓ Reduced risks of cracks in the ceramic
- ✓ High process reliability thanks to consistent and reproducible high-quality firing results
- ✓ Optimal coordination of the preheating furnace with the press furnace
- ✓ Automatic, fast and convenient selection of the investment ring size

- ✓ Automatic selection of the suitable press program
- ✓ Automatic heating of the press chamber to the appropriate temperature
- ✓ Pressing the fluid ceramic into the investment ring at the right time
- ✓ Controlled post-processing and cooling process

Further highlights

Crack Detection System (CDS)

The Programat furnace features a Crack Detection System (CDS). This system identifies cracks in the investment ring at an early stage and reduces the pressure, if necessary. As a result, the press process ends in time to protect the restorations.

Convenient loading of the furnace chamber

Upon opening, the furnace head pivots upwards and thus provides ample working space. As a result, the furnace chamber can be loaded easily and comfortably.

Automatic double-range temperature calibration (ATK2)

The ATK2 temperature checking system calibrates the temperature in the furnace fully automatically and accurately in two different temperature ranges. This ensures high-precision press and firing procedures as well as reproducible press and firing results with various types of materials (low- and high-fusing ceramics).

Software update via USB flash drive

It has never been easier to update your software: Simply plug in the USB flash drive containing the latest software version and press the "Software Update" button. The software is being updated automatically.



Save up to 40% of energy!

If the furnace is not being used, simply press the "Power Saving" key to activate the power-saving mode.

Technical data



Technical data		
Power supply	110 – 120 V, 50 – 60 Hz 200 – 240 V, 50 – 60 Hz Admissible voltage fluctuations +/- 10 %	
Max. power consumption	12 A at 110 – 120 V 8.5 A at 200 – 240 V	
Vacuum pump data	Max. power consumption: 250 W Final vacuum: < 50 mbar Only tested pumps should be used	
Dimension of closed furnace	Depth: 465 mm Width: 320 mm / 390 mm (with cooling tray) Height: 550 mm	Depth: 495 mm Width: 320 mm / 395 mm (with cooling tray) Height: 550 mm
Dimensions of firing chamber	Diameter: 90 mm Height: 80 mm	
Max. firing temperature	1200 °C	
Weight	18.3 kg	20.5 kg
Safety information		
Radio protection / Electromagnetic compatibility	EMC tested	
Delivery form		
	Power cord Vacuum hose Programat firing tray kit 2 Automatic Temperature Checking Set ATK2 (test set) Investment ring cooling grid Various accessories	Power cord Vacuum hose Programat firing tray kit 2 Automatic Temperature Checking Set ATK2 (test set) Investment ring cooling grid Programat WLAN Kit Various accessories
Recommended accessories		
(Not part of the delivery form)	Vacuum pump VP5 Automatic Temperature Checking Set ATK2 Firing tong	Vacuum pump VP5 Automatic Temperature Checking Set ATK2 Firing tongs



The right material for your furnace

IPS e.max Press is the original premium lithium disilicate glass-ceramic (LS₂) for the press technique^[4]. It combines accuracy of fit with excellent function and outstanding esthetics as well as high strength (470 MPa)^[5]. The material comes in a wide range of shades and translucency levels for utmost flexibility. With more than 30 years of experience^[6] in press technology, we help you achieve exceptional efficiency and reliability for your pressing procedures.

At a glance:

- ✓ Impressive esthetics
- ✓ Efficient processing
- ✓ Widest area of application^[7]
- ✓ 10 years guarantee



Product comparison



Warranty		
Warranty period ^[8]	2 years	3 years
Hardware equipment		
Colour touchscreen display with membrane-sealed keypad	✓	✓
Electronic press drive with force sensor	✓	✓
QTK2 muffle technology with SiC bottom reflector	✓	✓
OSD with progress indicator	✓	✓
Programat infrared technology (IRT)		✓
Software equipment		
Individual firing/press programs	300/20	500/20
Preset Ivoclar firing/press programs	✓	✓
Power Saving Technology	✓	✓
Integrated maintenance and diagnostic programs (e.g. heater, vacuum, etc.)	✓	✓
Fully automatic press function (FPF)	✓	✓
System to bridge short power cuts	✓	✓
Automatic crack detection (CDS) in the investment ring	✓	✓
Software update via USB flash drive	✓	✓
Integrated multimedia functions		✓
Integrated program copy assistant		✓
IRT-controlled pre-drying		✓
IRT-controlled recognition of the investment ring size		✓
Digital shade assistant (DSA)		✓
Temperature calibration		
Automatic double-range temperature calibration (ATK2)	✓	✓
Ports		
USB ports	1	3
SD card reader		✓

[4] Schweiger et al. Europäisches Patent 0827941 B1, 1997, Europäisches Patentamt

[5] Edelhoff D. et al, Clinical performance of occlusal onlays made of lithium disilicate ceramic in patients with severe tooth wear up to 11 years, Dental Materials, 2019, 35, p. 1319-1330

[6] 30 years of Ivoclar Vivadent press technology

[7] Studer F., 10 reasons to choose the IPS e.max Press System, Product Presentation, Ivoclar Vivadent, 2020

[8] Wear parts and consumables excluded

