

# Well equipped for the digital future

## PrograMill®

PM7  
PM5  
PM3  
DRY

The milling machine  
that suits you best

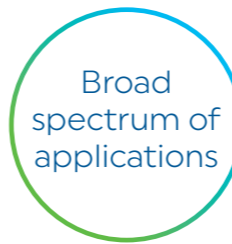
# Good reasons for using a PrograMill® machine

The PrograMill® milling units offer you coordinated processes and innovative materials to meet your requirements for modern dental technology.

So you can deliver the right solution for every situation.

Choose the PrograMill milling machine that suits you best.

The right milling unit for every requirement: PM7, PM5, PM3, DRY



- ✓ Tailored to your individual requirements and needs
- ✓ Wet and dry operation: the right solution for every situation



- ✓ Highly esthetic zirconia restorations using IPS e.max ZirCAD Prime and IPS e.max ZirCAD Prime Esthetic
- ✓ Innovative Digital Denture solutions with Ivotion



- ✓ Precise, fast and reliable milling results
- ✓ Comprehensive support



# Maximum power and impressive efficiency

With the high-performance PrograMill® PM7 milling unit, you will benefit from a versatile range of applications. The milling machine can process a wide variety of materials in wet and dry operation.

If you are looking for a machine that meets your most exacting requirements and on which you can rely day and night, then the PrograMill PM7 is the right choice for you.

Equipped with a high-performance spindle, the 5-axis milling machine efficiently produces restorations that exhibit an outstanding surface quality and excellent accuracy of fit. The integrated ionizer neutralizes the static charge of the acrylic shavings produced when processing PMMA materials (e.g. Ivotion). The shavings are then easily evacuated for a clean working environment. This helps you save time so that you can focus on getting other work done.

Low  
cleaning  
effort

- ✓ In-built ionizer
- ✓ Automatic self cleaning function due to Active Air Suction

Intuitive  
operation

- ✓ Integrated user interface
- ✓ Straightforward material and tool management

Autonomous  
operation

- ✓ Automatic change between wet and dry operation
- ✓ 20-position tool changer
- ✓ 8-way material changer



# Your requirement for digital manufacturing is paramount

The PrograMill® PM5 and PM3 are 5-axis milling machines that are suitable for both wet and dry processing. The machines offer intuitive operation via an integrated user interface. A straightforward material and tool management system ensures continuous manufacturing without any interruptions.

## PrograMill® PM5

Thanks to the 8-way material changer, you can mill around the clock, hands down.

The milling machine allows you to set up several jobs at the same time. These can be for different materials and restorations. Short processing times add to the attractiveness of the PrograMill PM5.



- ✓ Automatic change between wet and dry operation
- ✓ 13-position tool changer
- ✓ 8-way material changer

## PrograMill® PM3

Use digital and stay flexible.

The PrograMill PM3 offers you high precision and consistency. The integrated tool changer ensures independent processing.



- ✓ Automatic change between wet and dry operation
- ✓ 13-position tool changer

# Milling zirconium oxide professionally

Are zirconium oxide restorations part of your offering?  
Use PrograMill® DRY to mill them.

PrograMill DRY is a compact milling unit that enables you to produce precise zirconium oxide crowns and bridges as well as innovative Digital Denture solutions using a fast and reliable procedure.

Enjoy the flexibility and ease of use this machine offers you.

PrograMill® DRY is fully integrated into the digital workflow of Ivoclar. You can benefit from a straightforward and cost effective manufacturing process.

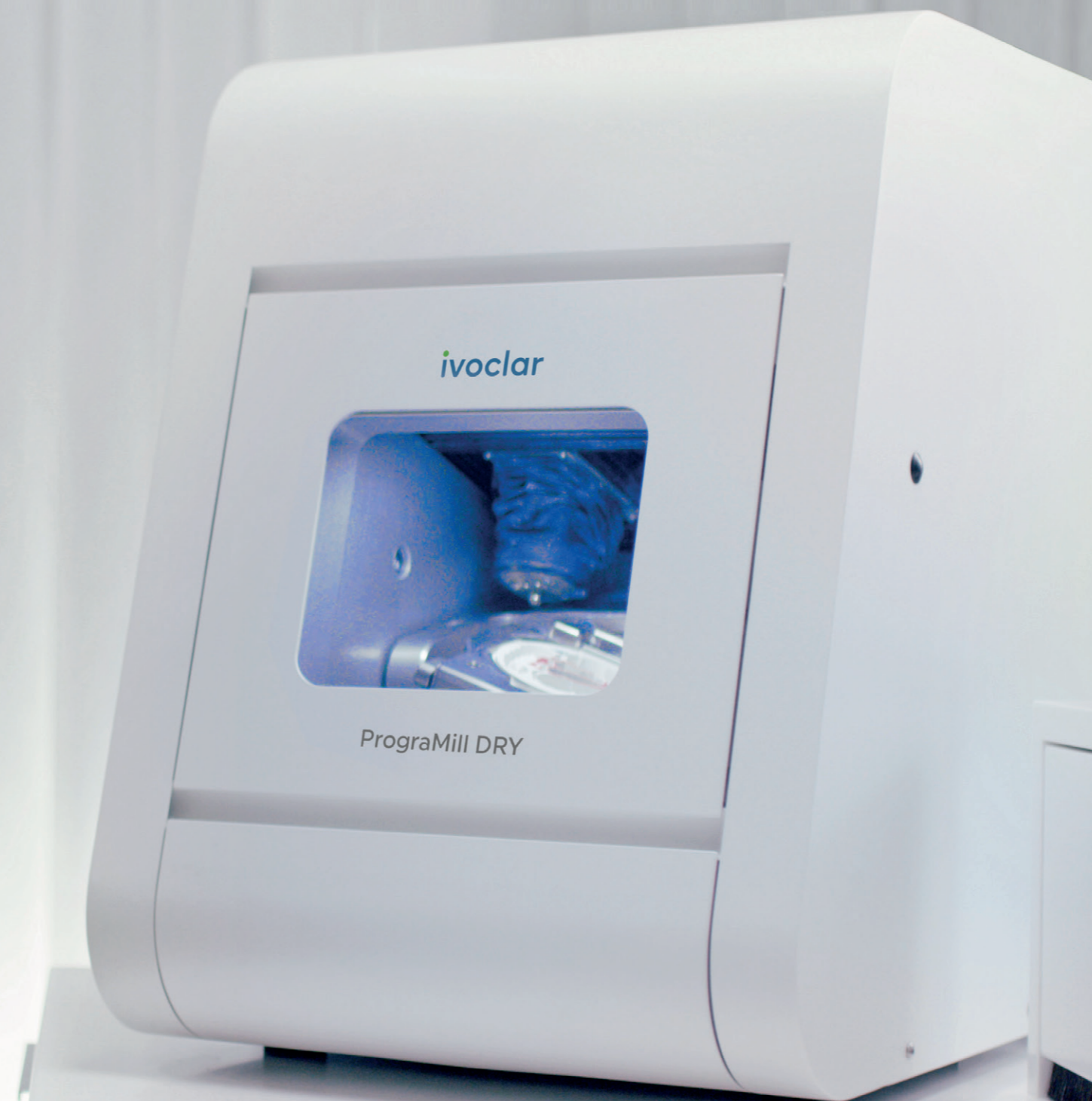
Optimally coordinated working steps provide a smooth workflow. This is especially beneficial to those who are new to digital manufacturing. New materials can be easily placed in the machine: The integrated quick clamping system allows you to change the discs comfortably and intuitively, without having to use extra tools.

Compact  
dry milling  
machine

- ✓ Ideally suited for the production of zirconium oxide restorations
- ✓ Suitable for milling acrylics
- ✓ Flexible placement options and small footprint

Easy  
handling

- ✓ Integrated quick clamping system
- ✓ No tools needed for changing materials
- ✓ Fast and user-friendly handling



# Device monitoring, anytime and anywhere

Monitor your Ivoclar devices from anywhere with Ivoclar Monitoring. Get real-time updates and push notifications for your PrograMill milling machine.<sup>[1]</sup> It is smart, transparent and completely for free.



 **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 PrograMill 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.

## Product comparison



|   | PM7      | PM5      | PM3      | DRY      |
|---|----------|----------|----------|----------|
| <b>Features / Performance</b>   |          |          |          |          |
| Block processing  | ✓        | ✓        | ✓        |          |
| Disc processing (Ø 98.5 mm)   | ✓        | ✓        | ✓        | ✓        |
| Automatic material changer  | 8 discs  | 8 discs  |          |          |
| Automatic tool changer  | 20 tools | 13 tools | 13 tools | 16 tools |
| Colour touchscreen  | ✓        | ✓        | ✓        |          |
| <b>Areas of use</b>   |          |          |          |          |
| Veneers / occlusal veneers  | ✓        | ✓        | ✓        | ✓        |
| Inlays / onlays / partial crowns  | ✓        | ✓        | ✓        | ✓        |
| Full-contour crowns   | ✓        | ✓        | ✓        | ✓        |
| Full-contour bridges  | ✓        | ✓        | ✓        | ✓        |
| Crown copings   | ✓        | ✓        | ✓        | ✓        |
| Bridge frameworks   | ✓        | ✓        | ✓        | ✓        |
| Multi-unit bridges  | ✓        | ✓        | ✓        | ✓        |
| Tooth segments  | ✓        | ✓        | ✓        | ✓        |
| Denture bases   | ✓        | ✓        | ✓        | ✓        |
| Digital complete dentures   | ✓        | ✓        | ✓        | ✓        |
| Primary telescopes  | ✓        | ✓        | ✓        |          |
| Functional try-ins  | ✓        | ✓        | ✓        | ✓        |
| Impression trays and functional trays                                       | ✓        | ✓        | ✓        | ✓        |
| Bite templates / transfer templates   | ✓        | ✓        | ✓        | ✓        |
| Drilling templates  | ✓        | ✓        | ✓        | ✓        |
| Occlusal splints  | ✓        | ✓        | ✓        | ✓        |
| Models  | ✓        | ✓        | ✓        | ✓        |
| Abutment Solutions  | ✓        |          |          |          |
| <b>Materials</b>  |          |          |          |          |
| IPS e.max CAD   | ✓        | ✓        | ✓        |          |
| IPS e.max ZirCAD / IPS e.max ZirCAD Prime / IPS e.max ZirCAD Prime Esthetic | ✓        | ✓        | ✓        | ✓        |
| IPS Empress CAD   | ✓        | ✓        | ✓        |          |
| Tetric CAD  | ✓        | ✓        | ✓        |          |
| Telio CAD   | ✓        | ✓        | ✓        | ✓        |
| Ivotion   | ✓        | ✓        | ✓        | ✓        |
| Ivotion Dent / Ivotion Dent Multi   | ✓        | ✓        | ✓        | ✓        |
| Ivotion Base  | ✓        | ✓        | ✓        | ✓        |
| ProArt CAD  | ✓        | ✓        | ✓        | ✓        |
| <b>Alloys</b>   |          |          |          |          |
| CoCr  | ✓        | ✓        | ✓        |          |
| Titan Grade 5   | ✓        |          |          |          |

# The right milling strategy for every job

The user-friendly PrograMill® CAM software transfers your digital designs to the digital manufacturing process and is optimally coordinated with Ivoclar's digital workflow.

Data is processed in a seamless procedure as the software automatically recognizes various milling areas such as internal and external contours and preparation margins on your design.

This way, the data is processed faster in the CAM software, operation is easier and a high degree of automation is ensured. This gives you peace of mind, increases the efficiency of your workflow and frees you up for other laboratory work.

## Your benefits:

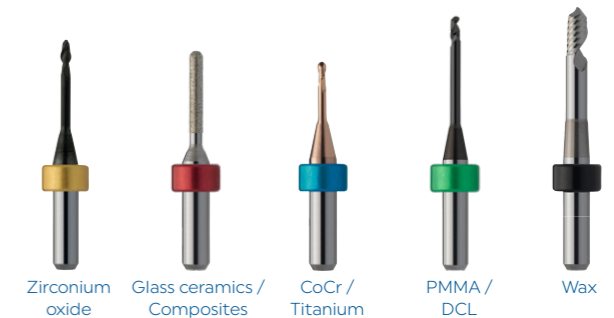
- ✓ Coordinated milling strategies, tools and materials
- ✓ Time savings thanks to the fast calculation of milling paths
- ✓ Easy operation
- ✓ Import of restoration and processing parameters
- ✓ Open system

# Accessories tailored to your needs

## PrograMill® Tools

We have developed a diverse range of tools that is especially coordinated with our portfolio of materials to offer you versatile processing options.

- ✓ Especially developed and coordinated with the CAD/CAM materials from Ivoclar and the PrograMill machining strategies
- ✓ Optimal production results
- ✓ Innovative colour concept



## Getting the most out of a versatile range

Special holders have been designed for a variety of compatible materials to enhance your possibilities and comfort.

The patented IPS e.matrix® multi-holder enables you to mill up to six blocks in a single run. The Digital Denture holder facilitates the production of Ivotion-based digital dentures. It ensures that discs that have already undergone some processing can be accurately re-positioned in the mill for further processing. The PrograMill Abutment holder has been exclusively designed for use in conjunction with the PrograMill PM7 machine to mill individual abutments from titanium preforms.



## PrograMill® Base

The PrograMill Base is the ideal base cabinet for your PrograMill milling machine.

It unites function and esthetics and offers many beneficial features such as a low-noise suction and coolant system and a drawer with a specially designed insert in which your materials have a set place.

- ✓ Filters harmful particles
- ✓ Changes automatically between wet and dry operation
- ✓ Offers space for tools and accessories



# More highlights

## PrograMill® After Sales Services

We are here for you. Service offerings tailored to your specific needs give you a maximum level of flexibility, even after you have purchased your milling machine.

You can rely on our experts to be there when you need them to give you advice and support.

Your benefits: Extended manufacturer's warranty, service maintenance, software updates, CAD/CAM support over the phone with a personal point of contact.

## CAD/CAM support

We will assist you in all your queries and issues relating to the digital manufacturing process in your laboratory. Whether you need information about one of our software applications or you have run into a technical issue, our CAD/CAM experts will study your query carefully and find a suitable solution together with you.

We take service personally.

## Maintenance and spare parts

Regular maintenance protects your investment and helps maintain the productivity of your laboratory. Our service technicians are especially trained and certified. To ensure that maintenance of your PrograMill system is carried out to the best possible standard, we will do our work on site in your laboratory.

Digital technologies allow you to benefit from high precision manufacturing. Our replacement and spare parts are optimally tailored to your individual system and applications to ensure you can enjoy continued quality and safety.



PM7



PM5



PM3



DRY

| Technical data                  |   |                               |  |   |
|---------------------------------|---|-------------------------------|--|---|
| Power supply                    | 110 – 240 V, 50 – 60 Hz<br>Acceptable voltage fluctuations +/- 10 %   |                               |  |   |
| Spindle                         | Jaeger<br>970 W<br>60,000 rpm   | Jaeger<br>390 W<br>60,000 rpm | Jaeger<br>390 W<br>60,000 rpm                    | SFK<br>500 W<br>60,000 rpm  |
| Dimensions                      | Depth: 695 mm<br>Width: 979 mm<br>Height: 818 mm  |                               | Depth: 695 mm<br>Width: 870 mm<br>Height: 818 mm | Depth: 545 mm<br>Width: 450 mm<br>Height: 630 mm  |
| Weight                          | 220 kg  | 215 kg                        | 195 kg   | 91 kg   |
| Harmonic drive                  | ✓   | ✓                             | ✓  |   |
| Stepper motors                  |   |                               |  | ✓   |
| Servomotors                     | ✓   | ✓                             | ✓  |   |
| Zero-point clamping system      | ✓   | ✓                             | ✓  |   |
| Ionizer                         | ✓   |                               |  |   |
| Internal CNC PC                 | ✓   | ✓                             | ✓  |   |
| 5-axis milling technology       | ✓   | ✓                             | ✓  | ✓   |
| Delivery form                   |   |                               |  |   |
|                                 | PrograMill Disc holder<br>IPS e.matrix<br>Test specimen blank<br>Micrometer<br>Collet key<br>Spindle maintenance set<br>Protective sleeve of the spindle<br>Tool magazine<br>Tool pliers<br>PrograMill tool green 2.5<br>PrograMill tool green 1.0<br>PrograMill tool green 0.5<br>Safety Pin |                               |  | Spindle maintenance set<br>Administrated tool board<br>Calibration set<br>Tool magazine inserts<br>Adapter for connecting to the suction unit<br>PrograMill tool yellow 2.5<br>PrograMill tool yellow 1.0<br>PrograMill tool yellow 0.7<br>Ivotion Denture Ring |
| Recommended accessories         |   |                               |  |   |
| (Not part of the delivery form) | PrograMill Base<br>PrograMill Suction Unit<br>PrograMill Tank<br>Digital Denture holder<br>Abutment holder  |                               |  | PrograMill Suction Unit<br>Suction control cable for PrograMill DRY   |



## Automatic material identification

Discs from the Ivoclar Vivadent range contain RFID labels so that they can be registered and managed in the milling units and CAM software. Automated material identification enhances the reliability and automation of the manufacturing process.



# Zirconium oxide workflow: peak productivity, fast processing and esthetic results



## Scan and design

The high-end lab scanner PrograScan PS7 scans upper and lower jaw models in one process: simultaneously, fully automatic and in just 10 seconds.



## Select

IPS e.max ZirCAD Prime delivers impressive esthetic results and exceptional quality.



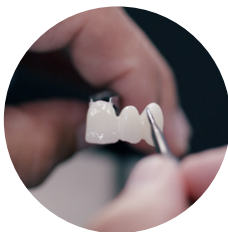
## Produce

PrograMill PM7 offers high performance and fast fabrication.



## Sinter

The Programat S2 sintering furnace handles intuitively and ensures high accuracy of fit.



## Finishing

IPS Ivoclar is a universal range of stains and glazes for customizing the appearance of high-quality and esthetic restorations.



## Cement

Easy and economical zirconia cementation with ZirCAD Cement.