

5

features that make the PrograMill One stand out



The ultra-compact, 5-axis chairside system from Ivoclar Vivadent efficiently mills esthetic IPS e.max CAD restorations that offer patients the best fit possible.

Chairside milling units such as the PrograMill One put clinicians in full control of their restorations, from the prep to the scan to the design. They no longer have to wait to get their restorations back from the lab, only to find out the fit or the color is off, and they have to start over. They can mill inlays, onlays, veneers, and crowns in-office, improving efficiencies and enhancing results—ultimately leading to happier patients.

In just one appointment, patients walk out of the office with a beautiful new restoration, without having to deal with temporaries and the problems they can cause. And knowing same-day dentistry is possible not only makes current patients more likely to accept treatment, it also attracts new patients to your office.

“With chairside milling we have fewer temporary-related emergencies and it’s cut down on the number of root canals we have to do,”

says Dr. David Juliani, who uses Ivoclar Vivadent’s PrograMill One milling system in his practice.

“It also allows us to be as efficient as possible with our schedule, which is especially important now when we’re trying to make up for time lost during the shutdown. It’s also been great for emergency patients. A cracked tooth can be treated in one day. And we can see patients who need us the most by completing treatment for scheduled patients in one appointment instead of two.”

While chairside milling units offer many benefits, not all systems are created equal. The ultra-compact, wireless PrograMill One from Ivoclar Vivadent offers a variety of features that sets it apart, including five-axis (5XT) milling, the ability to mill five blocks at once, an integrated camera for a high level of automation, and an app that gives users control from anywhere in the practice.

The self-contained system doesn’t require separate filtration or suction units like many other systems. PrograMill One was designed specifically to mill Ivoclar Vivadent materials including IPS e.max CAD, IPS Empress CAD and Tetric CAD, resulting in strong, beautiful restorations that last. The wet mill can be set up anywhere in the office and integrates with the 3Shape TRIOS intraoral scanner and its software.

Are you ready to incorporate a chairside mill into your practice? Here’s a closer look at the PrograMill One’s unique features, how four clinicians are using it in their practices, and why it’s the best milling option for yours.

PHOTO: IVOCLAR VIVADENT AG, LIECHTENSTEIN

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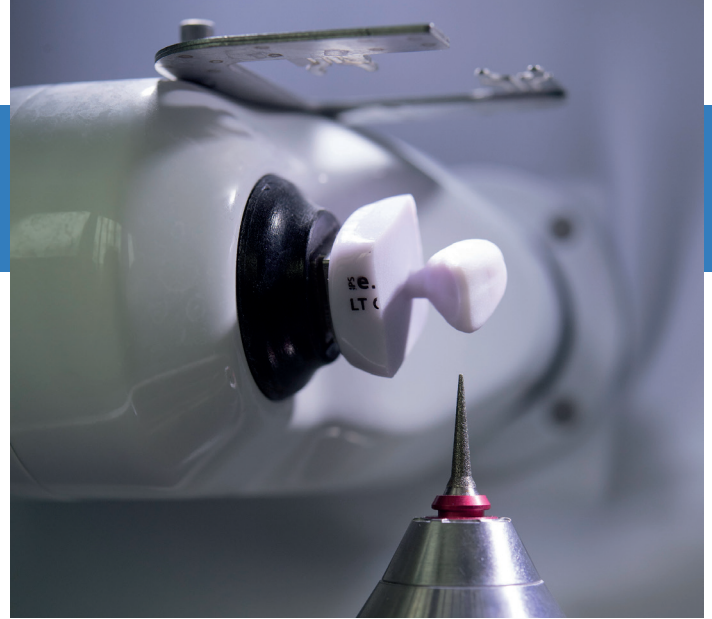
UNIQUE FEATURE: 5XT MILLING

Many chairside mills on the market offer standard chairside milling strategies to produce restorations. With 5-axis milling, the block itself moves around the tool, enhancing the restoration's fit and surface quality.

"Five-axis allows for better grinding of areas that may have undercuts," Dr. Franklin Shull says. "The ceramic block is in motion and the tool stays stationary, which extends the life of the bur and increases accuracy."

Five-axis milling uses the full length of the bur instead of just the tip like in other mills, so it's faster and more efficient as it's cutting, Dr. Charles Reyes says. The five-axis rotation and the freedom of movement in the cutting process is what increases the lifespan of the tools and improves accuracy over traditional chairside milling strategies. The minimal tool wear means burs need to be replaced less often, and that saves practices money.

Five-axis milling allows for the best possible fit for his patients, Dr. Juliani says, and because the bur doesn't really



leave the block during the process, it decreases the crack propagations that often happen with other mills. Material and margin integrity are considered first in this process, and that leads to increased accuracy.

"It's a beautiful thing to watch," Dr. Russell Fox says of the milling process. "The mill has a degree of freedom to do anything it needs. It factors in every detail in the design. Patients can't be anything but impressed with the process and the result. The five-axis milling is really essential to what this mill can do."

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UNIQUE FEATURE: FIVE BLOCK MILLING CAPACITY

With the plug-and-play PrograMill One, you can preload up to five blocks and six milling tools into the milling chamber, which allows you to pre-plan your day and boost efficiencies, Dr. Juliani says. Once the blocks



are loaded, the mill manages itself; the system won't even start until it has everything it needs to complete the job.

There's no need to stop the mill between cases to unload a crown and start another, Dr. Shull says. The mill stores the finished crowns and moves on to the next job in the queue on its own. That means an assistant no longer needs to monitor the mill or hand load blocks for the next case, which can take up a lot of time and resources throughout the day.

"With a single block mill you have to keep an eye on it," Dr. Reyes says. "When you see the block is finished you have to remove it, load another one and then wait for the mill to start on the second restoration. With this mill you don't have to keep track of its progress or return to the mill. You preload your mill and it completes all the jobs."

PHOTOS: IVOCLAR VIVADENT AG, LIECHTENSTEIN

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UNIQUE FEATURE:

THE INTEGRATED CAMERA

The integrated camera evaluates tool use and bur wear through a data matrix code to help clinicians maintain their systems with minimal effort.

Burs that need to be replaced must use a lot of pressure to mill a block, which can lead to cracks and other problems with the finished restoration, Dr. Juliani says. The integrated camera and sensor work together to first identify when too much pressure is being used and then indicate exactly where the tool that needs changing is located.

“The mill does a great job of using up the entire lifespan of the bur before switching to another one,” Dr. Reyes says. “If you start a project and your mill only has 3 percent life left, rather than aborting the project it will automatically pull up an identical tool to pick up where the first left off. It’s very efficient and means you’re not wasting material or cutting the lifespan of a bur short because it wouldn’t finish the project.”

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UNIQUE FEATURE:

AUTOMATION

The camera also plays an important role in the mill’s automation. It scans the barcodes on every block and tool to identify what’s being loaded into the mill, Dr. Reyes says. Once a job is sent, the camera selects the correct block and ensures it has everything it needs before getting started. You don’t have to tell it what kind of block you loaded or what shade or check to make sure you have the right tools; the camera does that automatically when it scans the barcodes, and then everything is put in place.

With other systems, burs that have no tool life left in the middle of a case must be changed manually, Dr. Juliani says. The PrograMill One does it automatically, making it “the most automated system out there for chairside milling.”

“Once I hit mill, the machine does this pre-milling performance that really is a joy to behold,” Dr. Fox says. “It gets its own block, brings it down and gets itself poised. It takes the processing information from the



scanner and sets its approach. All of a sudden the cube starts spinning, the water starts squirting and the tool begins its slow precision cutting of the block.”

The automation also means there’s no need to keep up with maintenance cycles or count the number of crowns produced, Dr. Shull says. The machine tracks all that for you, so you don’t have to worry about miscounting and doing damage because you’re using a bur that should have been replaced. This ensures quality and lowers maintenance costs.

The mill also tells you when water levels are too low and how healthy the filters are, Dr. Fox says. The system basically manages itself, and that’s a huge time saver.

“This is a very low-maintenance machine,” Dr. Reyes says. “You don’t even notice all the automatic updates and cleaning, and that’s what you want.”

The mill also offers automatic visual progress updates, Dr. Fox says. The light at the base of the mill changes color to indicate what step it’s on. So, with a quick glance you and your team members know if the system is milling, cleaning or if there’s an error.

PHOTO: IVOCCLAR VIVADENT AG, LIECHTENSTEIN

The mill can be controlled remotely via an app on either an included iPad or personal device, so no one has to be in the same room as the system to know its status. Via the app, you can check the progress of a case, monitor the life of the tool or look to see when the next maintenance cycle is due, which offers great flexibility, Dr. Shull says. He can be chairside with a patient in another operatory and quickly check the status of the mill without having to leave the room.

The mill also provides a countdown and notifies you when a restoration is ready so you can get it out of the mill and firing as soon as possible. Restorations can be unloaded individually or at the same time.

The app also notifies you when maintenance is due and then provides step-by-step instructions that are easy for assistants to follow, Dr. Reyes says. It helps you keep track of inventory, so you know when it's time to order new filter or tools. You also can use the app to ensure

you have the right block for a case pre-loaded into the mill before the patient even arrives, so no time is wasted during the appointment.

“It carries you through removing the block, which is now a crown, and loading the new block,” Dr. Fox says. “In the app you can see what material you have loaded, what translucency and what shade. It also lists what tools are loaded and what position they're in. There's no question about what's inside the mill.”



A PERFECT PAIRING

PrograMill One milling system integrates with the 3Shape TRIOS intraoral scanner, which offers clinicians the ability to design crowns with its TRIOS Design Studio plug-and-play software. That means you're using the No. 1 restorative material and No. 1 lab software with the most advanced mill available.

“This gives us everything we need in dentistry to deliver the best restorations that we can chairside,” Dr. Juliani says. “We get the best of both worlds. We're giving patients the best fitting, most well milled material out there and the patient is getting a truly esthetic restoration. It really does fit the needs of both the dentist and the patient.”

SMALL FOOTPRINT, EASY INTEGRATION

At 19”H x 14”Dia and 81 pounds, the compact PrograMill One can easily fit on any countertop surface, so there's no need for a special milling cupboard. The wireless plug-and-play milling unit is self-contained, which means, unlike other systems, it doesn't require separate filtration or suction units for the milling process. It integrates seamlessly into any practice and can be controlled via an app with the included iPad or personal device.

PHOTO: IVOCLAR VIVADENT AG, LIECHTENSTEIN