BIOLASE introduces GALAXY BioMill

By Sierra Rendon, today staff

If you have been holding back on the idea of utilizing chairside milling in your dental practice, BIOLASE has a new system that you will want to take a look at this week at the Greater New York Dental Meeting.

The GALAXY BioMill CAD/CAM System was officially introduced this week at the GNYDM, and, as an attendee, you have the opportunity to be among the first to check out the technology first-hand at booth No. 600.

“The GALAXY is smaller, lighter, more sturdy and more sophisticated than other chairside milling machines,” said Federico Pignatelli, chairman and CEO of BIOLASE. “Additionally, it is very competitively priced – about 30 percent lower than others on the market. The cost of maintenance for the GALAXY is also substantially lower.”

The GALAXY BioMill, developed and designed by BIOLASE in conjunction with imes-icore GmbH in Germany, is an open-architecture CAD/CAM system for scanning, designing, milling and finishing crowns, inlays and veneers in the dental office in a single appointment.

The GALAXY BioMill System will utilize 3Shape’s Trios, a fast and accurate intra-oral scanner that captures high-resolution 3-D digital images of the teeth and crown-preparation site. These are then processed through a CAD/CAM software program to design the dental restoration. The design is transferred to the GALAXY BioMill to mill the crown using the latest in esthetically pleasing, biologically compatible and long-lasting tooth-colored materials.

“The GALAXY BioMill System completes BIOLASE’s strategic plan to offer dentists a wide portfolio of high-tech hard- and soft-tissue dental lasers, 2-D and 3-D digital radiography and CAD/CAM products,” Pignatelli said. “With the introduction of the GALAXY BioMill System, BIOLASE has truly become a one-stop-shop for dentists. Not only do our technologically advanced products increase patient and doctor satisfaction, but they also offer tremendous return-on-investment.”

For example, Pignatelli explained, the GALAXY can cut in half a dental practice’s monthly laboratory fees, freeing up a substantial amount of capital to be re-invested in other cutting-edge high-tech products, such as the WaterLase iPlus or NewTom digital radiography. Adding a WaterLase iPlus substantially increases a dentist’s return-on-investment by creating opportunities for new procedures and increasing the overall number of procedures performed in-house.

“BIOLASE’s laser technology reinvigorated my passion for dentistry and my practice,” said Howard Golan, DDS, JD, of Golan Family Dentistry in Williston Park, N.Y. “I need only 14 in-house restorations per month to pay for my chairside milling machine with savings from lab fees and associated variable costs, and I currently average about 25 per month.”
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‘Show-Me-State’ dentist has been a fan of Shofu for more than two decades

By Robert Selleck, Staff

Jack D. Griffin, DMD, has been using Shofu Dental Company products in his St. Louis-area dental practice for more than 20 years, initially using the abrasive polishers that made the company famous — and more recently using Shofu products in restorative work.

He’s always been impressed with the results, but when Beautifil Flow Plus was released, the longtime fan became a super fan.

“That changed everything,” Griffin said.

Before that, he said, composite hybrids were fine as a liner and as a base but were not strong enough to be used for restoration buildups. Griffin immediately embraced Shofu’s proprietary Giomer technology, which went beyond the other hybrids — as a flowable resin with the strength needed to perform as a restorative.

The material also has the ability to effectively fill voids and help protect teeth from decay through the release of high levels of fluoride.

Griffin was so pleased with the results he was achieving with his patients that he started demonstrating the Shofu materials for fellow practitioners around the country.

He presents a ticketed lecture (9 a.m.) and workshop (2 p.m.) today.

On Wednesday, he will demonstrate the products on two patients in a live-dentistry presentation from 10 a.m. to 12:30 p.m. in the Live Dentistry Arena, aisle 6200, room No. 4, “Let’s Stick Together ... The Most Durable Aesthetic Materials Ever.” In his session, he will discuss the various uses of Beautifil Flow Plus and Beautifil II, relative to their properties and clinical usage. For more information about Beautifil Flow Plus and Beautifil II, stop by the Shofu Dental booth, No. 4407.

Griffin will use Beautifil Flow Plus and Beautifil II to create regenerative fillings.

“The flowable acts as a liner and seals margins,” Griffin said. “It covers all of the exposed dentin and margins while also reducing the voids.”

He will use the products back-to-back to create a strong, esthetic filling that also inhibits bacteria and plaque development.

With the second patient, Griffin will demonstrate the soon-to-be-released Shofu product, Ceramage, which the company describes as a zirconium silicate integrated indirect restorative for both anterior and posterior regions.

Griffin said his experience confirms the company description of the material as having “superior flexural strength, elasticity and unsurpassed polishability.”

Griffin will cement a CAD/CAM-designed monolithic crown and polish it to demonstrate how the material replicates the natural appearance and light-diffusing properties of dentin and enamel. According to Shofu literature, Ceramage bonds to a variety of substructures, including non-precious and high noble alloys. It has an extensive shade selection for natural tooth and gum color reproduction.

The material can be used to create anterior and posterior crowns, veneers, implant-supported restorations and inlays and onlays. A full set of gum colors also enables the material to replicate gingival anatomy.

Shofu plans to release Ceramage in February at the Chicago Midwinter.
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And because the pop-up window displays the patient’s information the instant your phone rings, your staff never has to enter their name, saving time and reducing data entry.
BruxZir Solid Zirconia Crowns and Bridges
24-month clinical performance report

Purpose
The purpose of this clinical study, conducted by The Dental Advisor, was to determine the clinical performance of BruxZir® Solid Zirconia Crowns and Bridges (Glidewell Dental Laboratories, Newport Beach, Calif.) during a two-year period.

BruxZir, a full-contour monolithic zirconia, has been available for about four years. During that period, it has experienced an exponential rise in use in the United States.

Clinical evaluation protocol
At recall time, more than 550 full-contour, monolithic BruxZir restorations (crowns and bridges) were placed. All restorations were fabricated at Glidewell Dental Laboratories. Most of the restorations were cemented with self-adhesive resin cement or adhesive resin cement.

Of the 378 BruxZir restorations observed at recall in August 2013, there were:
• 301 posterior single crowns
• 30 units (10 three-unit bridges)
• 24 units (six four-unit bridges)
• 10 units (two five-unit bridges)
• One three-unit inlay bridge
• 10 implant crowns

BruxZir restorations were evaluated in the following categories:

Esthetics
BruxZir restorations were rated excellent for esthetics when compared to other monolithic zirconia crowns.

Resistance to fracture/chipping
None of the BruxZir single crowns exhibited fracture or chipping. One five-unit bridge with very little clearance fractured one week after cementation. The bridge was redone and is functioning without any issues.

Resistance to marginal discoloration
No restorations exhibited marginal staining at two years.

Wear resistance
Minimal wear was observed on BruxZir restorations or on opposing tooth structure.

Retention
Four posterior crowns debonded. Two were cemented with self-adhesive resin cement, and two were cemented with an adhesive resin cement. Two of the teeth had short clinical crowns.

Conclusions
Ninety-eight percent of BruxZir Solid Zirconia Crowns and Bridges restorations manufactured by Glidewell Dental Laboratories received a 5, or excellent, rating at two-year recall.

All of the single crowns and all of the three- and four-unit bridges had no evidence of fracture or chipping. One of two five-unit bridges failed shortly after cementation and was replaced.

During the two-year period, BruxZir has proven to be an excellent restoration with respect to esthetics, resistance to fracture/chipping, resistance to marginal discoloration, wear resistance and retention.

BruxZir received a clinical rating of 98 percent.
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You work hard to make your practice warm, inviting and professional for your patients. When it comes to selecting an adjunctive device to help you perform examinations for oral diseases, you no doubt want to deliver the same level of patient experience. This generally means you will look for a system that is not only well tolerated, painless and that needs only a couple of minutes to use, but one that is also clinically proven to help you discover oral diseases, including oral cancer, that might otherwise be missed.

But what other considerations will help you select an adjunctive device that fits your practice philosophy?

1. It's important that the device:
   - Fit in with your workflow and complement your intra- and extra- oral head and neck examination with minimal setup and only nominal time added to the overall appointment.
   - Help you find things that may be hard to see otherwise — i.e., offer an imaging modality that is extremely sensitive to tissue changes.
   - Provide visual information that is bright and easy to observe within the typical lighting conditions of a dental operatory.
   - Allow for straightforward, integrated photo documentation. Camera solution should be easy to integrate, and tissue response should be bright in order to easily acquire digital images that can be used for patient records or sent to referral partners.
   - Be clinically proven to be of use to specialists, such as helping them establish lesion margins for surgical excision.
   - Come with full after-sales support, extensive training materials and clinical support.

Talking about oral disease with your patients is not easy. In fact, many patients do not understand the reason for the head and neck exam. As their caregiver, it is now much easier to explain your examination protocols while introducing an adjunctive device that will augment the level of care your practice provides.

“My office has been using VELscope for almost a year, and my associate and I have definitely become more thorough in our oral cancer exam,” said George Moss, DDS, FAGD, of Lakewood Park Dental in Lake Conroe, Texas. “We have discovered and confirmed dysplasias and several benign lesions that would probably have been missed had it not been for our use of the VELscope. We feel strongly that all dental offices should provide this service.”
Some technologies have become so routine to our daily lives it’s hard to believe they didn’t exist 20 years ago. Online banking first launched in 1994. Amazon opened its virtual doors in 1995. Text messaging became mainstream in 2001. Smartphones gained momentum and exploded in popularity with the introduction of the first Apple iPhone in 2007.

In just two decades, inventions that seemed impossibly futuristic have become practical, widely used tools.

One of the newest technologies still in its infancy but already making a major impact is augmented reality. If you have seen “The Terminator,” “Mission Impossible” or the “Iron Man” movies, you’ve already witnessed augmented reality in action. In each of these films, the main character uses a version of augmented reality, for good or bad, to learn additional information about what’s happening in their immediate environment at that very moment.

Henry Schein has long been an innovator and early adopter of cutting-edge technology, and once again, it leads the way and is embracing this development. Henry Schein’s first interactive equipment and technology catalog using augmented reality technology was recently printed, and it literally changes the way doctors and their teams view dental products and services.

What is augmented reality?
Augmented reality projects a virtual layer of interactive features on top of an actual physical environment when viewed through special devices. In the case of Tony Stark, the billionaire superhero, augmented reality was displayed inside his Iron Man mask, but most of us will use augmented reality on the screen of a mobile device.

Henry Schein’s catalog and other brochures give readers another world of options – a digital world – that is interconnected to the printed page they are reading. Viewing the page through their device, readers can launch interactive product descriptions and specifications, training videos, current promotional offers and one-click buttons that can connect them quickly to a sales representative. It’s all done just by hovering over an augmented reality enhanced page with a smartphone or tablet loaded with Henry Schein’s Xtra app.

Test drive Henry Schein’s augmented reality app
If you have a mobile device and Henry Schein’s 2014 Equipment and Technology catalog, you can try augmented reality today.

Just go to the Google Play or the app store and download Xtra, Henry Schein’s free augmented reality mobile app.

Open the catalog and turn to a page that contains the augmented reality icon in the top corner.

Next, open Xtra and hover over the page as if you were going to take a picture of the entire page. You’ll see your device “scan” to find the augmented reality features, and then the catalog comes to life with on-screen buttons that overlay the printed page!

To learn more about augmented reality, visit the Henry Schein booth #5215 at the Greater New York Dental Meeting on December 3, 2013, and experience augmented reality today.
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For more information, visit www.impladentltd.com, call (800) 526-9343 or stop by the Impladent Ltd booth, No. 3431, here during the Greater New York Dental Meeting.

References

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For more information, stop by the Mydent International booth, No. 3618, during the Greater New York Dental Meeting.