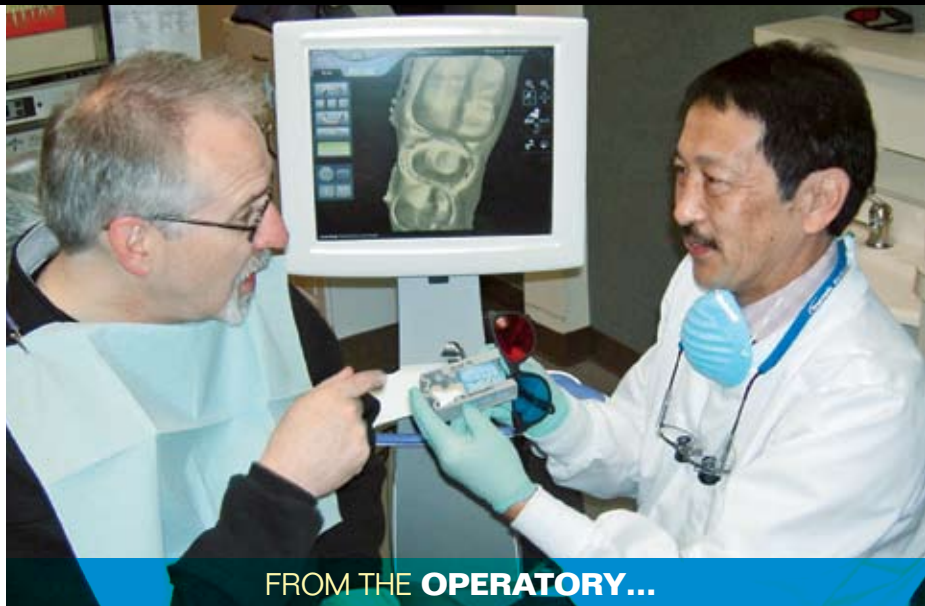


DIGITAL PRECISION SOLUTIONS

IMAGINE YOUR BUSINESS with no more remakes, or finished restorations without the need for chairside adjustment, or cases that arrive as a completely finished model ready for your artistic touch. Impossible? Not according to Drs. Gordon and Garret Yamaguchi, Bob Ziemek, and Don Albensi. These industry pioneers are experiencing the accuracy, consistency, and profitability of 3M ESPE's Lava digital workflow.



FROM THE **OPERATORY...**

Flexibility, precision, **consistency**

Whether the prescription is a traditional PFM, all-ceramic, or zirconia-based restoration, the digital process begins in the operatory with the digital capture of the preparation.

"The Lava C.O.S. digital impression scanner has made a phenomenal difference in my practice," said Dr. Gordon Yamaguchi, a 30+-year practitioner in Olympia, Wash. "I'm a better dentist because now I have

more control. I can see my preparation on-screen in full-size 3D and make adjustments if needed. It's like having a model in my hands before I send the case."

Drs. Gordon and Garret Yamaguchi believe the ability to clinically evaluate preparations and margins on-screen improves the quality and precision of the dentistry they provide to the lab, and to their patients. As a result, restorations consistently seat with little to no adjustment.

"We just check floss, check bite, and cement," said Dr. Garrett Yamaguchi. "We've not had one remake since using the Lava C.O.S., and that is phenomenal."

Over the past seven months, more than 180 cases have been captured and digitally transmitted to Ziemek Aesthetic Dental Lab for fabrication. "Four-unit bridges, PFMs, all-ceramic, Lava zirconia restorations, all have been completed using the Lava C.O.S. scanner," said Dr. Gordon Yamaguchi. "Today, I can't imagine doing a case without it; neither can my patients."

**"98% of the cases
we do now are
scanned with
the Lava C.O.S.
impression
capture unit."**

— DR. GARRET YAMAGUCHI



TOP: Dr. Gordon Yamaguchi believes the Lava C.O.S. increases patient treatment acceptance.
BOTTOM: Patients also like the ability to see and understand treatment protocol.



Bob Ziemek and his team at Ziemek Dental Laboratory fabricate any type of restoration with the digital files received from Drs. Yamaguchi and SLA model from 3M ESPE.



...TO THE **LABORATORY**



Any lab can participate

Some of the digital files flowing into Ziemek Dental Lab for margin marking and virtual die cutting are cases intended not for Ziemek but for affiliate laboratories such as Albensi Laboratories in Irwin, Penn.

Dentists who purchase the Lava C.O.S. chairside scanner can designate their preferred laboratory of choice to 3M ESPE. In turn, the preferred affiliate laboratory can use one of the 3M Lava C.O.S. Certified Labs to process the digital case and the lab marking the margin cannot see any doctor or patient information.

"This is a seamless and cost-effective way to get involved with Lava restorative services," said owner Don Albensi, CDT. "I have no capital investment in equipment or software. My role begins when I receive a clean, articulated, ditched, trimmed, ready-to-work-on model from 3M. Once I have the model I can fabricate any type of restoration. I can wax it conventionally and cast or press, or I can scan that model and mill a substructure or full-contour restoration in-house. I also can order a milled substructure from Ziemek to be delivered with the model if I choose."

Albensi said the SLA models are much more detailed and precise than a conventionally poured model. With more than 25 cases completed thus far, he has had no remakes.

"I'm considering purchasing the software to give me even more control over the margin marking process," said Albensi.

PHOTOS COURTESY OF DR. YAMAGUCHI, BOB ZIEMEK, AND DON ALBENSI

Heightened productivity

Across town or from across the country, digital files captured chairside by the Lava C.O.S. flow daily into Ziemek Aesthetic Dental Lab, a Lava C.O.S. Certified laboratory and Authorized Milling Center located in Olympia Wash.

Arriving at a centralized and dedicated computer station, each digital case file is downloaded and, using customized software, a technician marks the margins and digitally cuts the dies on the virtual model.

"The Lava digital workflow really streamlines our production," said owner Bob Ziemek. "For Lava digital files, we don't have to pour models. We simply mark the margins and send the file to 3M for production of an SLA model that is returned in 48 hours fully articulated."

The digital process also has eliminated sending cases back to the client for die trims. Stover says this has made a big improvement in Ziemek internal workflow and eliminated human intervention in the model finishing process, which posed the risk of model damage.

"If I could flip a switch tomorrow and make every case in my lab a Lava C.O.S. case, I would."

— BOB ZIEMEK, *owner*
Ziemek Aesthetic Dental Lab

If the prescription calls for a milled zirconia substructure, Stover and his technicians design, mill, and sinter the framework while awaiting arrival of the model. If the prescription is for a PFM or press technology restoration, Ziemek can CAD design the coping or full-contour wax form, which is returned with the ditched and trimmed model for final fabrication, or the SLA model can be conventionally waxed.

"We've completed more than 700 cases now using Lava C.O.S. digital files, and have not had a single remake," said Stover.

...OR TO AN **AFFILIATE LAB**



Albensi Laboratories receives an SLA model from 3M ESPE and fabricates any type of restoration prescribed whether PFM, all-ceramic, or zirconia based.