

Lava™ System Hardware

Trusted esthetics, trusted fit, trusted consistency

Innovative technology

Your dentists trust you to produce quality restorations that will make their patients happy. And you need proven solutions for your business to help you satisfy your customers. The Lava™ All-Ceramic System from 3M ESPE uses innovative technology and superior materials to help you produce high quality restorations for your dentists and their patients.

The Lava All-Ceramic system is streamlined, making it easy to create high-quality all-ceramic restorations in just a few steps. Using the speed and precision of CAD/CAM technology, it creates all-ceramic crowns and bridge substructures with zirconia, an extremely strong, stable and fracture-resistant ceramic material. The result is efficient production of restorations with excellent esthetics, enduring strength and precise fit.

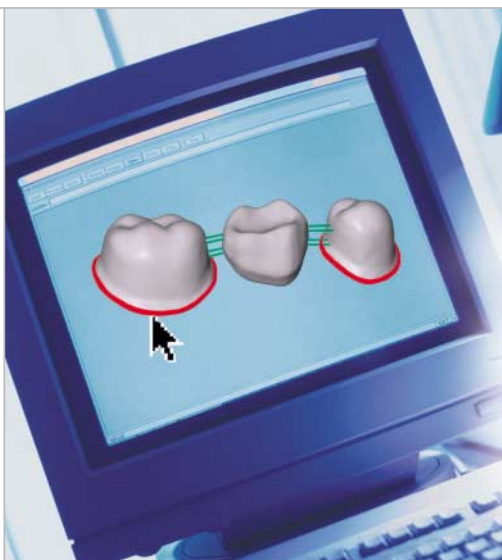


**CAD/CAM system for
consistent manufacturing**

**Non-contact scanning for
maximum precision**

**Enhance productivity
without increasing staff**

**Automatic milling for faster,
more efficient production
— even overnight**



3M ESPE

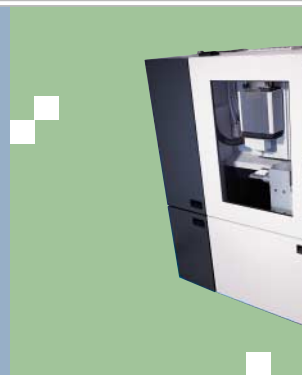
Components for a streamlined Lava™ All



Trusted esthetics, trusted fit, trusted consistency

Lava™ Scan Scanner

Lava™ Form



The prep design and impression created by the dentist are the first, critical steps in creating a precision-fit restoration. Chamfered or rounded shoulder preparations are essential to help ensure optimal marginal fit.

The Lava scanner uses sophisticated technology to make the scanning step simple for the technician and to ensure pinpoint accuracy.

The non-contact optical scan system includes a PC with monitor and the Lava CAD Windows®-based software, which displays the model as a three-dimensional object.

The scanner automatically records and digitizes the dies and the ridge of the saw-cut model. The opposing teeth can also be digitized with the help of the occlusal record.

For even more precise final fit, technicians can use the software to process and optimize the object on-screen according to individual anatomical characteristics.

Using sophisticated technology, the Lava mill provides a high level of accuracy with minimal technician intervention.

Highly efficient and computer-controlled, the Lava mill can mill out 21 copings without manual intervention.

For maximum flexibility, pieces can be removed during the process. New blanks and dies may be inserted or replaced.

The Lava system creates frameworks from pre-sintered blanks, allowing for faster mill times.

Before sintering, the finished restoration can be finished in one of eight shades to provide an accurate match.

prep and take impression

scan model

design restoration

mill restoration

finish

All-Ceramic System

Milling Unit



Lava™ Therm Furnace



CAD/CAM technology ensures accuracy with minimal error.

Most-effective, this precision milling unit mills crowns or bridge frameworks with precision.

With the flexibility of use, completed restorations are milled during the milling process and additional pieces can be milled as well.

For crown and bridge restorations, sintered zirconia, porcelain, or metal-ceramic is used.

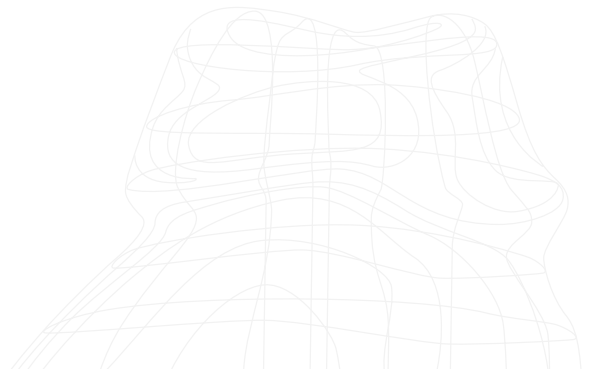
The frame is tinted using a special process to create an esthetically

Bridge and crown frameworks undergo sintering and attain their exact dimensions, density and final strength in the high-temperature Lava furnace.

Shrinkage occurring during sintering has been precisely compensated for through the measurement of the framework contour already calculated during scanning.

With the Lava All-Ceramic system, the sintering step is fully automatic.

The 3M™ ESPE™ Lava™ All-Ceramic System produces restorations that truly fit – both with exceptional marginal accuracy and with shades and translucency that replicate natural teeth. Patients are thrilled with the results.



shape and color restoration

 sinter restoration

 veneer restoration

fit restoration in mouth

Components

for a streamlined Lava™ All-Ceramic System

Lava™ Scan Scanner



The Lava scanner uses sophisticated technology to make the scanning step simple for the technician and to ensure pinpoint accuracy.

The non-contact optical scan system includes a PC with monitor and the Lava CAD Windows®-based software, which displays the model as a three-dimensional object.

The scanner automatically records and digitizes the dies and the ridge of the saw-cut model. The opposing teeth can also be digitized with the help of the occlusal record.

For even more precise final fit, technicians can use the software to process and optimize the object on-screen according to individual anatomical characteristics.

Lava™ Form Milling Unit



Using sophisticated CAD/CAM technology, the Lava milling unit ensures a high level of accuracy with minimal technician intervention.

Highly efficient and cost-effective, this computer-controlled precision milling unit can mill out 21 copings or bridge frameworks without manual intervention.

For maximum flexibility of use, completed pieces can be removed during the milling process. New blanks and additional pieces may be inserted or prioritized as well.

The Lava system creates crown and bridge frameworks from presintered zirconia, allowing for faster milling.

Before sintering, the frame is tinted using one of eight shades to create an esthetically accurate match.

Lava™ Therm Furnace



Bridge and crown frameworks undergo sintering and attain their exact dimensions, density and final strength in the high-temperature Lava furnace.

Shrinkage occurring during sintering has been precisely compensated for through the measurement of the framework contour already calculated during scanning.

With the Lava All-Ceramic system, the sintering step is fully automatic.

 scan model

 design restoration

 mill restoration

 finish and color restoration

 sinter restoration

 veneer restoration



A system for success.

To learn more about how the complete Lava All-Ceramic system can help your laboratory increase productivity and profitability, call **1-800-216-9502**.

Visit www.3MESPE.com/labproducts for more information.

3M ESPE

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*Minimum 10%
Post-Consumer Fiber*

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