

# DALE DENTAL

## PRODUCT TECH SPECS

### Lava™ Crowns and Bridges

MANUFACTURER – 3M ESPE, www.mmm.com, 800.216.9502

YEAR LAUNCHED – 2003

AVAILABLE AT DALE DENTAL SINCE – 2003

CERTIFICATIONS: Dale Dental is an Authorized Lava™ Milling Center (ALMC)

**DESCRIPTION** – Lava from 3M ESPE uses a CAD/CAM procedure for the production of all ceramic crowns and bridges. The model work is scanned using white-light triangulation via a non-touch optical scanner. The scanned data is adjusted on-screen to achieve the clinical and esthetic results necessary for your case. Once designed, the data is sent to the Lava Form milling machine where soft, zirconia oxide is milled to an expanded, but otherwise identical form. The milled pattern goes through specialized coloring process where it can be left unshaded, or one of seven shades can be selected. The pattern is sintered through a precise heating and cooling cycle where it is reduced to its final shape and size.

Learn more at [www.DaleDental.com](http://www.DaleDental.com)

DALE DENTAL IS YOUR ULTIMATE LAVA MILLING CENTER FOR MILLING OF YOUR LAVA ST SCANNER DIGITAL FILES. PLEASE INQUIRE.

#### RESTORATION SELECTOR SMARTCHART

Indications		
<b>Single Unit</b> Yes	<b>Bridges</b> up to 8-units (48mm Max*)	<b>Laminates</b> Yes
<b>Inlay/ Onlay/ Maryland</b> Yes	<b>Implant Abutments</b> Yes	<b>Material / Flex Strength</b> Zirconia / >1100 MPa
<b>Thickness</b> Uniform thickness .4 mm to .5 mm – build up available**	<b>Span</b> Up to 48 mm	<b>Prep Type</b> All ceramic
<b>Coping Color</b> 8 shading options	<b>Translucency</b> Medium	<b>Cements</b> Contact manufacturer for details
<b>Turnaround</b> 2 Day through 5 Day	<b>Porcelain Type</b> Zirconia – contact manufacturer for specific details and compatibility	<b>Porcelain Trial Sizes Available at Dale Dental</b> Yes

\*At time of publishing. Larger blocks coming soon. Please inquire.

\*\* Please remember to use our Contoured for Porcelain Support option for Lava cases requiring height to be added to clinical preparations. We do not exercise liberty in determining the need for contour as your needs may vary according to case, doctor, esthetic objectives and cost. As such, we will only provide contour when specifically requested to do so through the contoured option checkbox or in the notes section of the Dale Dental prescription.

#### LABORATORY PREPARATION

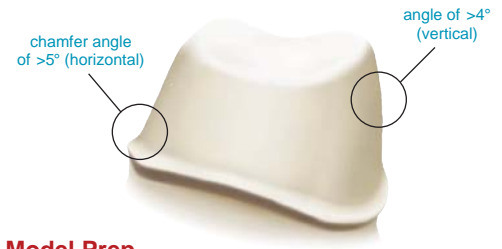
Start with a model made from a class IV, or equivalent die stone. The model must not have any silicon oil residue. The model base should have a smooth bottom. All segments of the saw cut model have to be removable and secured against rotation.

#### Build-ups

Severely prepped teeth should be built up.

#### Angulation

Vertical walls and sharp line angles are difficult for the scanning process. Note proper angulation of prep area.



#### Model Prep

**Stone Color** – Light color stones such as white or buff work best and yield the most accurate result.

**Stone Type** – Type IV Gypsum or similar

**Stone Expansion** – Low

**Block out** – Do not block out

**Margin** – The die must have a ditched margin; do not mark die

**Conditioner/Sealer** – No conditioner or sealer, Reflecting areas on the die are detrimental to the scanning process and can affect fit.

**Die Spacer** – Do not apply die spacer

**Wax Ups** – If specific design is in mind, send wax up and we can duplicate.

**Articulator** – An articulation is not necessary if the case can be hand set. If articulation is included the model must be removal from it. If case is difficult to articulate, please send bite registration.

**Splints** – If there are splints, the interdental space between the margins must be a minimum of 1 mm.

**Packaging** – Package dies separate from model to prevent damage while shipping; separate dies MUST be numbered.

**Please note** – Including other items such as study models, articulators, matrixes, and/or photographs could help us to create an improved framework design. (Additional Charges May Apply)

**Do not send** – Impressions



An ISO 9001:2008 Certified Company.

Dale Dental, Inc. 1701 North Greenville Avenue Suite 712 Richardson, TX 75081  
214.575.5900 Toll Free: 1.888.GET.DALE (888-438-3253) Fax: 214.575.5901

All Dale Dental copings and bridge frameworks are manufactured in the USA  
Information subject to change. Contact Dale Dental or 3M ESPE for more information  
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DDI.TS970.001 Revision E 11/13/07

## COMPLETING THE RX

- Write in your patients name and choose a turnaround time
- Indicate tooth numbers
- Select Lava from the list by checking the corresponding box
- Indicate the final restoration shade
- Choose a uniform thickness or Contoured for Porcelain Support
- Enter the Dr. 5 digit Zip Code (required by 3M ESPE)
- Select Elite service level (optional)

**ELITE LEVEL SERVICE** – Elite Level Service for Lava crowns and bridges gives your case priority status throughout the manufacturing process. Included in this are:

**Enhanced Customer Service and Technical Support** – Hallmarked by an even greater degree of customer interaction.

**Priority Sorting Upon Receipt** – Using Elite urgent stickers, this initial presort moves Elite cases into production first on that day.

**Guaranteed Availability** – Guaranteed capacity allocations on all machinery and resources.

**Redundant Technical Checkpoints** – Case attributes are observed frequently at various stages of production.

**Additional outbound insurance** – At no extra cost, this added benefit covers your articulators or other valuable items which may be included in your case.

*Please see the Dale Dental Pricing Sheet for pricing details.*

**RECEIVING YOUR CASE** – When you receive your coping or framework steam clean to make sure it is free of oil and being layering.

**PORCELAIN TRIAL SIZES** – We carry several trial-sized porcelains for you to complete your case with. Contact customer service at 888.GET.DALE (888.438.3253) for more information.

**FINISHING NOTES** – Use a high speed hand piece with irrigation for finishing as heat can cause fracture. If you have any questions, contact our technical service at 888.GET.DALE (438.3253).

**STRIPPING** – Stripping copings and bridge frameworks can be completed with Hydrofluoric acid or Hydrofluoric acid substitute. This will remove applied porcelain and will not damage your frame.

*If you have any questions or for more information please contact our technical service support at 888.GET.DALE (888.438.3253).*

## CLINICAL PREPARATION

*If you need information for your dentist, please contact the system manufacturer or a Dale Dental customer service representative at 888.GET.DALE (888.438.3253).*

## THANK YOU FOR CHOOSING DALE DENTAL

*Since 2000, Dale Dental has worked hard to earn your business and – more importantly – your trust. From the latest products to the best customer service, here are just a few of the ways we continue to be your resource for copings and bridge frameworks.*

**Secure & Non-competitive** – We do not compete for your dentist clientele because we don't work with dentists. We are America's first dental lab exclusively for dental labs.

**Experienced** – Our specially trained technicians maintain an in-depth system knowledge and are committed to finishing cases that meet or exceed exacting manufacturer standards.

**Consistent & Reliable** – With an on-time delivery of over 99% and inbound and outbound email notifications sent daily with delivery tracking hyperlinks for each case, your assured of keeping your customers satisfied.

**Informative & Progressive** – Login to our website to see the status of your cases or provide feedback through on-line quality control cards that instantly display your feedback to the technicians responsible for your cases.

**Certified** – Dale Dental is the first outsourcing dental laboratory in the United States and among the first worldwide to obtain the ISO 9001:2008 certification. We are also a CDL laboratory and employ CDT technicians in many supervisory positions.

**Friendly** – You can always count on our welcoming, professional and well-informed staff to answer questions about the products and services we offer.

*At Dale Dental, we know you have choices. And we're proud you've chosen us.*

### Limited Warranty and Limited Remedy

3M ESPE warrants for 5 years from the date of placement that copings or substructures made out of Lava™ Frame Zirconium Oxide will not break if fabricated by an Authorized Lava™ Milling Center on Lava™ Equipment in strict compliance with approved indications and instructions for use for Lava Crowns and Bridges. 3M ESPE MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. 3M ESPE's sole obligation and the customer's sole remedy in the event of any breakage of the framework shall be limited to replacement of the milled and sintered framework, or at 3M ESPE's option, reimbursement of the milled and sintered framework at a fair market price. This warranty does not cover breakage resulting from accident or misuse, nor any additional costs such as but not limited to the cost of preparation or veneering.

### Limitation of Liability

Except where prohibited by law, 3M ESPE will not be liable for any loss or damages arising from this product, whether direct, indirect, special, incidental or consequential, regardless of the theory asserted, including warranty, contract, negligence or strict liability. For more information visit [www.3MESPE.com/lava](http://www.3MESPE.com/lava) or call 1-800-634-2249.



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