J e n e S y s

Lava™ Design 7 Software
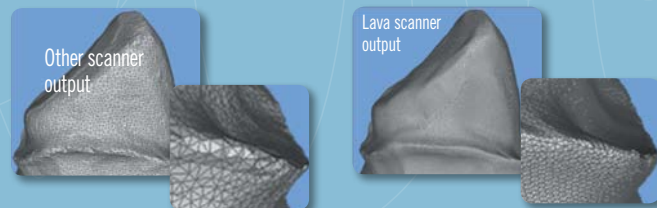
Lava™ Scan ST Scanner

3M ESPE

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D E N T A L

Lava™ Scan ST Scanner

Unprecedented Precision, Speed and Versatility

The **NEW** Lava™ Scan ST is not only the fastest full arch scanner, but also offers unprecedented precision in the dental CAD/CAM market. Fully integrated into the Lava™ Design Software 7, the Lava™ Scan ST delivers high-precision data in a very short time.

More Data Denisty, Better Accuracy

Other scanner output

Lava scanner output

Microphotography reveals another accuracy advantage in the Lava Scan ST scanner: data density. We are able to achieve this level of quality without sacrificing scan time. Our fast scanner also enables nested scanning so you can scan multiple cases with just one scan.

[1] F. Beuer, T. Fischer, K.-J. Erdelt, H.-U. Aggstaller, K. Spiegl, W. Gernet; (2005) IADR#1336 and In vitro Study Marginal fit of Lava™ Restorations; F. Beuer, T. Fischer, K.-J. Erdelt, H.-U. Aggstaller, K. Spiegl, W. Gernet, industrial report (2006).

Simply Faster

The Lava™ Scan ST in connection with the new Lava™ Design Software 7 is the fastest single stump scanner in the dental market by using Multi-Die scan application. The automatic design feature and initial proposals for Full-Contour restorations help make the workflow even more productive.
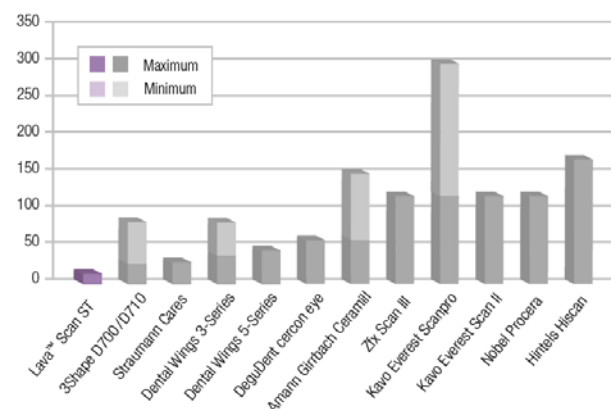
Average single stump scan time using nested scan functionality.
Source: www.dentalkompakt-online.de, 28.6.2011
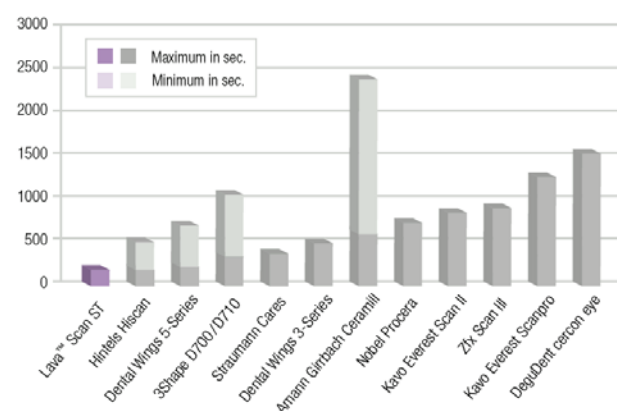
Full arch scan time.
Source: www.dentalkompakt-online.de, 28.6.2011

J e n e S y s

Lava™ Design Software 7

A Digital Leap in Software Features and Workflows

Advanced Full-Contour design.

Experience the freedom of design with numerous new features and functions related to Full-Contour design. More ways to customize easily, an open library for Full-Contour designs and an advanced automatic reduction process make every design more attractive and flexible.

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Lava™ Design Software 7

Advanced flexibility in general design.

Gain maximum control over parameters and coping design. Add collars or customize the cement and expansion gaps as necessary while you design your genuine Lava™ Restoration. Set and save defaults for various indications, customers and dentists and adjust specific parameters for your everyday lab work.

Custom design for Lava™ Build-up for two-piece abutments.

Gain access to the whole implant market with no limitations on specific abutment link manufacturers and eliminate costly scan locators. Engage in a convenient, easy and robust design process offering all the flexibility a dental lab needs by offering the same accuracy as scan-locator-based designs and wax-up abutments.

Advanced Order Management

The lab can easily manage the different steps and various cases within the Lava™ Digital Workflow and maintain full control over cases and restorations. Dedicated workstations for scanning, designing, nesting and milling preparation are possible, enabling a more productive and faster workflow.

Parallel design for all indications.

Design multiple restorations in one, or even opposing arches without interruption or limitation, copings, bridges and abutment cases.

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System Features and Capabilites

Lava™ Design Scan ST and Design 7 Software is a new and powerful system from 3M ESPE that's designed to deliver greater design flexibility, customization capability, and 'best in class' features.

Multi-Die Scan

Benefit from the advanced nested scanning ability with the Lava™ Multi- Die Plate. The scan time for a fully filled plate —10 single stumps — is less than 2 minutes and 20 seconds. This results in a single stump scan time less than 14 seconds.

Opposing Arch Scan

Scan the full opposing arch separately and in occlusion with the lower jaw model. This allows the dental lab to display the bite situation in occlusion and design the restorations accordingly. The scan provides the necessary data for the virtual articulation.
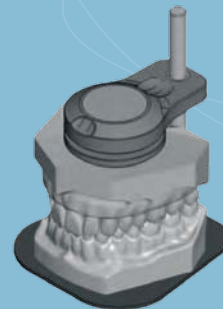
Rescan Options.

Rescan individual dies as needed, close scanning holes without rescanning the whole model or add occlusal points to-   wards adjacent teeth. Alternatively, data holes can be closed in the software automatically.

Full wax-up scanning.

Scan wax-ups as a design aid or to copy-mill, customize or reduce automatically to the final restoration of your choice. A scan of the stump data will be combined with the wax-up scan to achieve all possible indications.
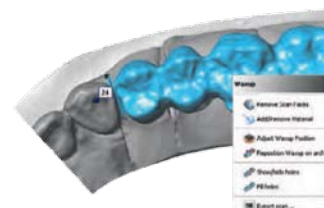
Full Arch Scanning Ability.

Scan full arches for orienttion or for better long-span restorations. A 60 mm × 70 mm jaw is possible in a scan window of 80 × 100 × 42 mm³.

Scanning of Abutment Links.

Scan abutment links directly without using costly scan locators to design and manufacture the Lava™ Build-up for two-piece abutment.

The System Allows Many Routes

Starting with a precise, high-quality scanner, the Lava™ System now allows you to take any of several routes to your destination. You can choose many materials. Create implant abutments and full contour designs.1 And selectively communicate with other systems, as needed, along the way. Any route you take leads you to more productivity.

Sintering Process
High-temperature, high-speed DEKEMA uSiC furance
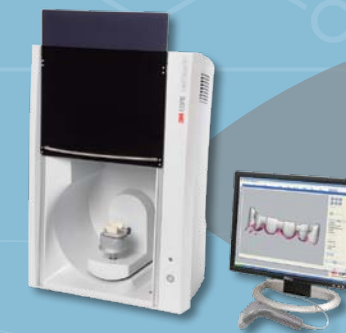
CAD Design
Productive, proven Lava™ Scan ST Design System.

Third Party Devices
Compatible with selected wax/resin printers and metal laser-sintering machines.

CAM Manufacturing
Versatile, easy-to-operate Jensen Dental Milling machine

Full Contour CAD/CAM restoration
Lava™ Zirconia restoration, porcelain work created with the Lava™ Digital Veneering System.²

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Technical Data

| Scan Volume	62*46*46mm³
Scan Time	Average scan time is 1.40 minutes for a single crown
Scan Type	Non-contact, optical scanner with fringe projection triangulation for high accuracy
Scan Handling	Ergonomic design and convenient handling with one hand height adjustment
Scanner Size	Width: 545mm; Height: 800mm; Depth: 465mm; Weight: 45kg
Electrical	Line Voltage: $100-240$ Volts; Frequency: 50 Hz -60 Hz; Power: 250 Watt

Scanner accuracy: A function of scanner size.

As illustrated at right, the greater the "W" and "D" dimensions are, the better the accuracy of your scans. We designed our tall scanner for optimal accuracy. The sleek design also has a small footprint to save workspace.

Nested scanning. Helping you do more in the same amount of time.

To save time, you can nest multiple cases in a single scan. Within nested scanning the maximum scan length is 51mm.
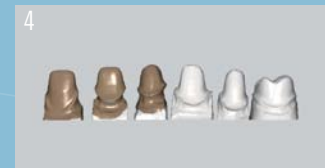
(1) Live image shown during the scan process. (2) Each die shown in the nested scan can be designed in a separate case.

(3) It is easy to see the detail you need for each case. (4) Once you've completed a case, it changes color so it's easy to track your progress.

Indications for Use

- Single crowns

- Primary crowns

- 3-unit bridges

- 4-unit bridges

- 5- and 6-unit bridges

- Curved and long-span bridges up to 48mm length
  (with the release of the "Multi XL" size of Lava™ Frame Zirconia)

- Cantilever bridges (excluded for patients with bruxism)

- Inlay/onlay bridges (excluded for patients with bruxism)

- Anterior adhesive bridges (excluded for patients with bruxism)

- Implant abutments cemented to a titanium base

Please refer to the Lava Frame Instructions for Use for details on framework design rules. The guidelines set forth by the relevant national health care oversight agencies must also be observed for the respective indications.

800-243-2000   www.jensendental.com

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