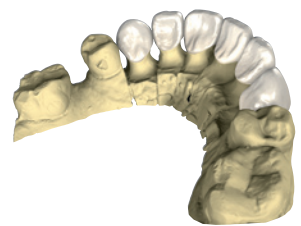
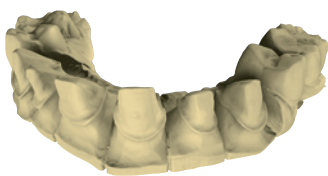
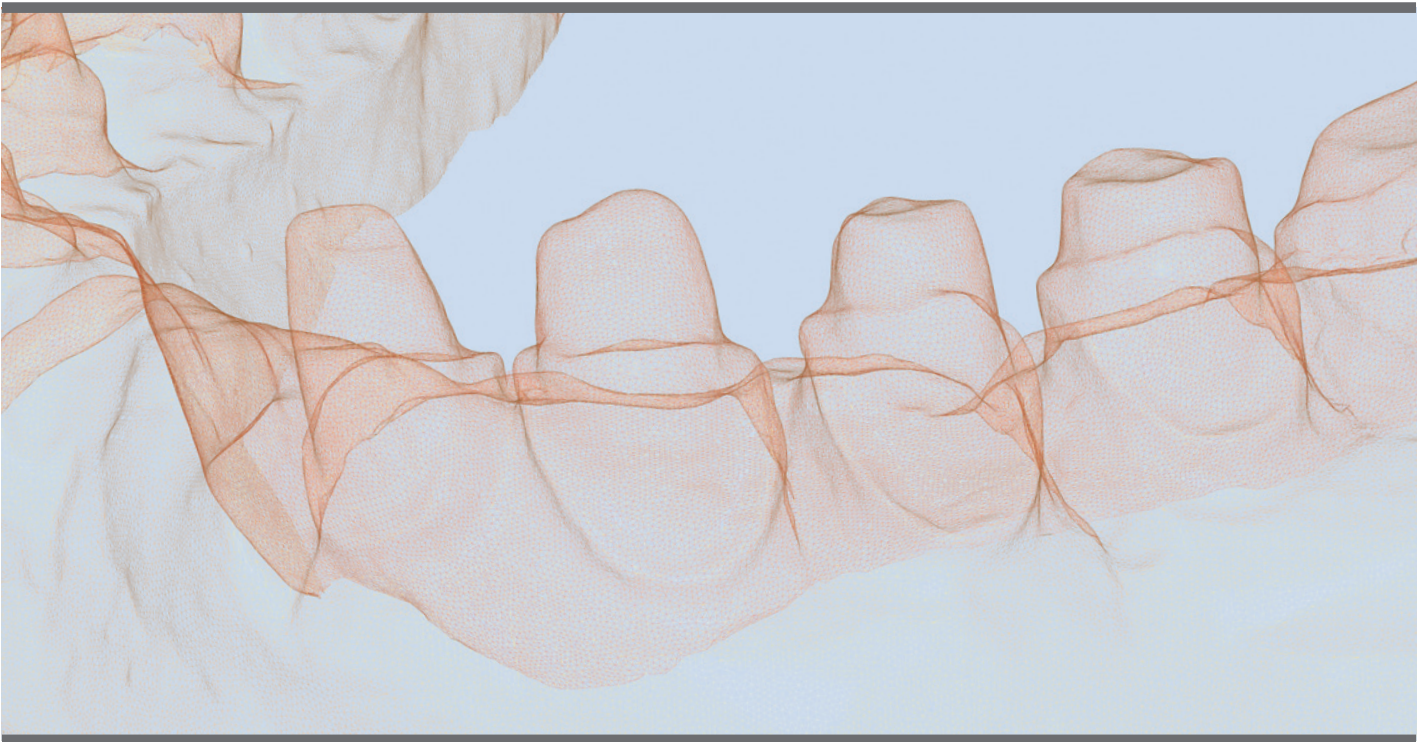

Computer Aided Design and Manufacturing with Laserdenta

FOCUS ON CAD/CAM



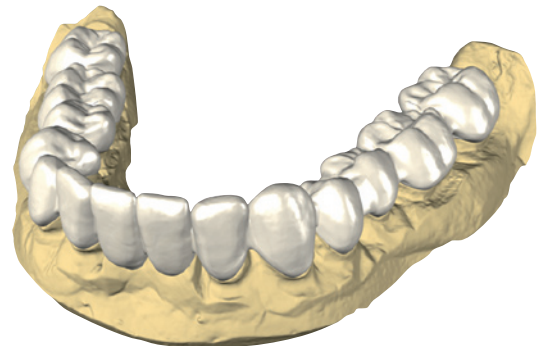
Increase your Profitability

CAD/CAM SOLUTIONS BY LASERDENTA

As dental lab you are acting within a market which is characterized by increasing competition. Health reforms and cheap imports result – especially in high-wage countries like Germany, Austria and Switzerland – in economic situations becoming continually more difficult. Therefore the central question comes up: How do I foster my competitive capacity?

CAD/CAM is the dental lab's future.

Thorough analysis indicates that in particular the production of dental restorations has to become more cost effective. The only solution there is to increase the use of technical equipment: computer controlled systems are doing the routine work. The dental technicians are efficiently employed for the design of the dental restoration with CAD and for the creative finishing.



Digital as Lifelike as Real

OpenScan 100 LASERSCANNER

Digitalization comes first before CAD/CAM starts. The more precise the digitalization is, the higher quality the result will have. In this, Laserdenta's OpenScan 100 Laserscanner shows its power. At highest precision it scans not only individual dies but also saw-cut models and entire jaw models with the proportion of gingiva or the structure of implants.

For definition of the position of implants, the silicone imprint is scanned directly. This saves time – at highest precision.

Laserdenta's new OpenScan 100 Laserscanner is:

future proof

- 5-axis-scanner with great freedom of movement so that the laser and the camera are enabled to also record difficult spots
- scans teeth, tooth dies, saw-cut models, master models, jaw models with the proportion of gingiva, wax-up, mushbites, silicone imprints, etc.

This fulfills all preconditions for implant prosthetics.

precise

- 20 µm precision (0.02 mm)
- shows the actual image and offers comfortable control possibilities
- does not smooth automatically
- very simple recognition of the preparation margin line

operator friendly

- logical and simple guidance throughout the program
- what you see will be scanned
- automatic recognition of the materials to be scanned (different model plasters, etc.)

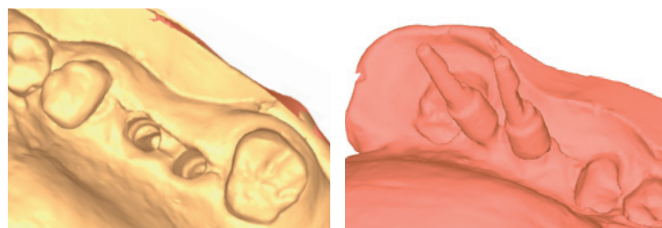
multiple application

- stores in open file formats (STL); data can be used with all open architecture milling and rapid-prototyping devices

fast

- approx. 60 seconds scan time for an individual die
- approx. 8 minutes scan time for an entire jaw

NEXT GENERATION



Modelling was yesterday, the future is named Design

THE INNOVATIVE OpenCAD PROGRAM

The innovative Laserdenta OpenCAD Program intuitively guides the dental technicians through the individual program modules. Greatest possible efficiency and speed distinguish this program. With the Laserdenta CAD modules, all scans can be processed in the open STL format. The finished restoration is also stored in open STL format and may be further processed with each and every open milling or rapid-prototyping device.

The modules of the OpenCAD Program cover:

Anatomical frame works

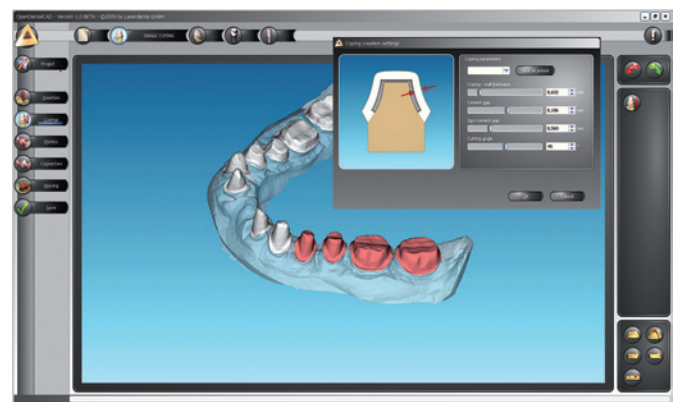
- up to 16 links
- cutted and uncutted models
- information on the antagonist
- automatic recognition of the preparation margin
- correction of the preparation margin
- automatic design of crowns
- simplest design of bridge links
- anatomically formed junctions with crown reinforcement
- digital wax knife
- modulation of the chewing area (bite registration)

Full and reduced crowns

- fully anatomical crowns
- fully anatomical reduced crowns for most simple veneering
- anatomically formed junctions with crown reinforcement
- modulation on the complete model for best aesthetics
- several data bases for full crowns
- own data base

Implants

- individual abutments
- abutment-implant constructions for individual implants
- data exchange with Dicom planning software
- optimised planning of implants
- production of implant surgical drilling jigs or guides



5-Axis for the Future

OpenMill 500 MILLING DEVICE

Hardware acquired today has to be also applicable via simple modifications and supplement of software for future developments within the dental area. This is Laserdenta's concept. The Milling Device OpenMill 500 implements this precondition system.

The equipment has been designed particularly for dry-processing of non-metallic dental restorations and scintillates with a cost effectiveness that cannot be beaten.

Its five axis allow multiple application of the OpenMill 500 Milling Device. For example, it allows you to produce, in your own laboratory, implant surgical drilling jigs or guides for implantology. Due to the tool support with two raw material disks and one automatic tool changer (10 tools), overnight production becomes feasible. With a minimum cooling feature which is offered optionally even individual titan abutments might be drilled.

The advantages of Laserdenta's OpenMill 500 Milling Device:

- import of all open STL files
- automatic creation of the milling track
- five axis processing
- tool changer with 10 tools
- automatic height correction after toll exchange
- 95 to 100 mm diameter of the raw material disks
- special Laserdenta raw material (procuded by Vita®)



System Supplier within the area of dental CAD/CAM

THE NEW LASERDENTA

At the IDS 2009, Laserdenta presents itself as new supplier for systems within the dental CAD/CAM area. The system components including: 3D laser Scanner, CAD software, 5-Axis milling device have been entirely designed and programmed in its own development centre in Bergheim, Germany. The product range is completed with both standard and innovative materials allowing significant broadening of the application possibilities of CAD/CAM systems.

Simultaneously to the new innovative direction, the company has got a new management. Beside Dr. Wolfgang Kirchner as founder and Managing Director, Ulrich W. A. Kranz has been appointed to Management after Peer Blumenschein retired, heading the fields of Marketing, Sales and Finance.

After development and sales, the new Laserdenta will also centralize its production in Bergheim. This allows even more effective realisation of quality assurance and management. Furthermore, short communication channels increase the efficiency of the individual areas – and also foster the customer-oriented direction of the company, in which already today the power of innovation and flexibility are creating intelligent innovative products.

Handed out by: