MOUTH WATERING

DCD Dental Consulting Builds Leadership and Becomes Knowledge Powerhouse

"The Objet Eden260V 3D Printer is completely integrated in our lab with 3Shape Trios intraoral scanners and Model Builder software, giving us a complete and highly productive workflow."

— Markus Dohrn
DCD Dental Consulting Laboratories

By establishing a digital workflow based on Objet 3D printing, DCD has greatly broadened the number of solutions it can provide.

Background

To maintain a competitive edge, modern dental laboratories need to cover a wide and constantly expanding range of end-product demands. With digital dentistry, forward-looking labs can successfully meet the challenge, improve model production efficiency and grow by developing new lines of business.

DCD Dental Consulting Laboratories, a full-service dental laboratory and consulting company, established its own digital workflow based on Objet 3D printing. In only a few months, DCD Dental Consulting has expanded its business offering, increased its capacity and built a solid reputation for digital dentistry knowledge and services.

The Challenge

3D printing and CAD/CAM enable fast, cost-efficient workflows for mass production and individual customization. They enable accurate dental models and products that produce perfect fits and excellent aesthetic results - thus generating more business.

"With today's economy, dental laboratories are increasingly turning to digital technologies to safeguard their competitiveness and expand their opportunities," said Markus Dohrn, general manager of DCD Dental Consulting. "We believe that any dental lab considering advancing into digital should do so quickly."

For DCD Dental Consulting, this meant it had no time to waste in adopting digital dentistry for its own operations. "It became imperative to have a fast and productive system that could provide attractive digital services and products of high quality," he says.

At a Glance

Challenges
- Become the go-to source for full-service digital dentistry services and expertise
- Establish an integrated digital workflow for dental models
- Offer faster service while ensuring high aesthetic standards and optimal fit on all products
- Improve productivity to cope with fast-growing order flow

Solution
- Objet Eden260V™ 3D Printer instead of manual production

Results
- More varied product offering based on in-house fabrication of models
- Expanded capacity due to high-productivity digital workflow and increased 3D printing expertise
- Faster and more streamlined manufacturing process
- New, cost-effective business model enabled by fast, consistent and accurate 3D printing

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Stratasys
FOR A 3D WORLD™

To move beyond manually produced models for veneers, crowns, bridges and implants, DCD Dental Consulting looked for a flexible 3D printing solution that would grow with the company and support ongoing product development and service expansion.

Once demand for its digitally produced models gained momentum, DCD Dental Consulting needed to speed up its digital workflow to cope with the increase in orders, while maintaining high aesthetic standards and optimal fit.

The Solution

DCD Dental Consulting looked for multiple business advantages, including better products, shorter processing times and more accuracy. The company found all this, and more, with the Objet Eden260V 3D Printer.

DCD Dental Consulting quickly experienced the ease and speed of the Objet 3D Printer. After learning the system and beginning production, company leaders soon discovered that the Objet Eden 3D Printer radically increased its manufacturing workflows.

At DCD Dental Consulting, the Objet 3D Printer is used in conjunction with digitally designed dental restoration. The company leverages its digital dentistry expertise to integrate smoothly with the market's leading dental restoration manufacturing solutions.
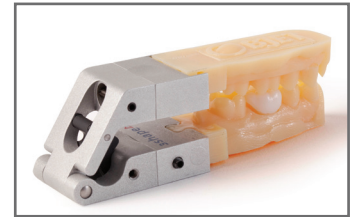
The Value

The Objet 3D Printer gives DCD Dental Consulting a fast and robust solution, "Productivity was not the only improvement," says Dohrn. "The Objet models are highly accurate and predictable, and they reliably deliver a perfect fit and occlusion on the physical model, producing aesthetic results."

Using the Objet 3D Printer, DCD Dental Consulting has become a completely modern dental solution provider. It has integrated the Objet 3D Printer with 3Shape Trios intraoral scanners and Model Builder software, creating a complete digital workflow for in-house fabrication of models.

With efficient in-house manufacturing and many new indication possibilities, DCD Dental Consulting now offers a greater variety of dental solutions to its dentist clients, while also pursuing new business opportunities to power ongoing growth.

"We are proud of our high rates of customer satisfaction and loyal returning customers," says Dohrn. "Manufacturing dental models using our Objet 3D Printer has contributed increased speed, consistency and accuracy – and enabled a new cost-effective business model."

Objet 3D printed articulated dental models

For more information about Stratasys systems, materials and applications, call **888.480.3548** or visit **www.stratasys.com**