

"Growth arrived almost immediately after we installed the Objet 3D Printer. We increased our productivity and as a result we can provide new solutions for implantology."

Siebe van der Zel
COO, Oratio B.V.



Case Study

Company: Oratio B.V.

URL: www.oratio.nl

Location: Netherlands

Industry: Dental

Challenges

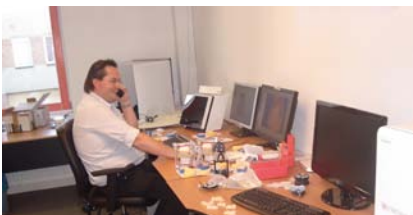
- Replace slow and inaccurate manual production process
- Improve and expand control over the complete implantology workflow
- Raise throughput and reduce turnaround times

Solution

- Objet Eden260V 3D Printer

Results

- Near-immediate, significant growth in business
- Higher productivity and lower production costs
- Improved accuracy for implants and other restorations, with faster turnaround time



Digital Dentistry in Implantology

Background

Enabled by 3D printing, dentistry is undergoing a digital revolution. Digital dentistry represents the merger of mass production with individual customization, providing a faster and more cost-efficient dental workflow. The adoption of digital dentistry is increasingly defining and driving the success of dental businesses. Those dental labs that rise to the challenge will be the companies that grow fastest in the years to come.

Dental implants have been used successfully for many years to restore missing teeth. They don't decay and they function just like real teeth. Until recently however, the placement of dental implants involved an invasive and time consuming surgical procedure. They were placed where they would be guessed likely to fit and frequently not enough planning and thought was given to future functional longevity and cosmetics. Now, **with the advancement of digital 3D printing and lab expertise, a dental implants can replace missing teeth with pinpoint accuracy, minimum discomfort, and beautiful cosmetics.**

Adoption of 3D printing for dental manufacturing is constantly growing. Many laboratory professionals have discovered what clinicians have been slower to recognize: that 3D printing of dental models is faster, more economical, predictable, consistent, and accurate. Return on investment can be incredible if a team approach is adhered to.

The Challenge

Located in the Netherlands, Oratio B.V. was one of the pioneers of CAD/CAM design technology for producing dental restorations straight from CAD design imagery.

With excellent experience in services and positive signs from the market, Oratio found itself in an optimal position for initiating growth. At the same time, the company needed to streamline its business. It required a system that could improve throughput without compromising its high standards and without costly expansion of the company's technician staff and facilities.

About Oratio B.V.

Oratio B.V. is the leading Dental CAD/CAM Company in the Netherlands and employs highly-qualified Technical experts. A unique dental technology service and knowledge powerhouse, it provides a wide range of services covering all areas of restorative dentistry. For Oratio high precision and quality in its dental products are an absolute must; and when it was ready to enter the world of digital solutions it initiated a thorough selection process.

Oratio is dedicated to excellence in dentistry, constantly applying cutting-edge CAD/CAM technologies wherever it helps the company provide better services. Their goal is to offer the latest methods and best systems to continue elevating the level of care patients can expect when they seek cosmetic or reconstructive treatment.

The Solution

From its early days, Oratio has worked hard to keep its staff and equipment up to date with the most advanced technologies to ensure the highest quality dental restorations. It was therefore natural for Oratio to carefully examine the possibilities of combining 3D printing, with digital imaging, to become a fully digital dental service provider.

With its new Objet 3D Printer, **Oratio is now able to bypass the slow and expensive CNC milling technology** to deliver models faster, at lower costs, and maintain its competitive position even as the market gets tougher.

The Objet 3D Printer has enabled Oratio to introduce non-technicians into the manufacturing workflow, freeing up dental technicians to focus on higher-level tasks. As a result, lab technician productivity can be improved significantly. Oratio can now provide a wider range of dental solutions, with higher accuracy, and with improved turnaround times.

The printed models that come out of the Objet Eden260V 3D Printer provided Oratio with exceptionally fine details and an outstanding surface finish – all necessary for ensuring the high degree of accuracy required by the Oratio team and its dentist customers.

The Value

“Growth came almost immediately,” said Siebe van der Zel, Oratio’s Chief Operating Officer. “This enables us to increase our productivity and efficiency, and continuously provide many new restoration types to attract new orders.”

“We believe that our clients prefer to do all their CAD/CAM business in one place. Therefore, we needed to firmly position Oratio as a self-sustained CAD/CAM dental provider offering the widest spectrum of dental indications,” added van der Zel. “For Oratio outsourcing parts of the workflow was not an option. We wanted full control of the complete process – from the dentist’s initial order, to designing the restoration, through final manufacturing. We were adamant about fulfilling our promises, and therefore we needed to command all phases of our business.”

By adopting the Objet Eden260V 3D Printer, Oratio was able to realize a complete digital workflow for in-house fabrication of models, abutments, coping, crowns and bridges of any size or combination.

ABOUT OBJET

Objet Ltd., is a leading provider of high quality, cost effective inkjet-based 3D printing systems and materials. A global company, Objet has offices in North America, Europe, Japan, China, Hong Kong, and India.

Objet’s 3D printing systems and 3D printing materials are ideal for any company involved in the manufacture or design of physical products using 3D software or other 3D content. Companies using Objet’s solutions can be typically found in sectors such as consumer goods & electronics, aerospace & defense, automotive, education, dental, medical and medical devices, architecture, industrial machinery, footwear, sporting goods, toys and service bureaus.

Founded in 1998, the company has thousands of customers worldwide including a substantial share of the relevant Fortune 100 and Fortune 500. Its award-winning technology (12 awards in 5 years) is based upon over 110 patents and patent pending inventions.

Objet’s advanced 3D printing systems and range of over 60 materials enable professionals to build prototypes that accurately simulate the true look, feel and function of an end-product, even complex, assembled goods.

The **Objet Connex™** line of multi-material 3D printers features the world’s only technology to simultaneously jet 2 materials. With this, users can print many different materials into a single part and print various mixed parts on the same build tray. Users can also create advanced composite materials, or **Digital Materials™** featuring unique mechanical and thermal properties. Objet’s range of over 60 **3D printing materials** simulate properties ranging from **rigid** to **rubber-like**, **transparent** to opaque and standard to **ABS-grade engineering plastics**, with a large number of in-between shore grades and shades.

Objet’s 3D printers are available in a range of form-factors, from cost-effective desktop 3D printers ideal for entry-level professionals all the way to industrial-scale multi-material machines for front-line designers and top manufacturers. Objet’s 3D printers feature the industry’s highest-resolution 3D printing quality, based on 16-micron (0.0006 in.) super-thin layering, wide material versatility, office friendliness and ease of operation.

For more information, visit us at www.objet.com, and for more about 3D printing industry-related news, business issues and trends, read the **Objet Blog**.

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The Power to Create