

"Our 3Shape and Objet combined solution has spurred our business growth, reduced operation costs and produces excellent restorations effortlessly day in and day out for our quality-minded dental clients"

Source / testimonial
Larry Siites,
CO & Founder



Case Study

About Allure Dental Studio

Allure Dental Studio was founded by master technicians known throughout the world as innovators with proven performance records. Together they combine 65 years of extensive lab experience.

Allure

is now providing excellent high quality restorations day in and day out. By teaming 3Shape's 3D Scanners and CAD Design software with Objet's 3D printers, Allure has become a complete in-house production force and a "full digital dental lab."

Growth came almost immediately

mainly because their new system enables high productivity, and the many new restoration types they can provide continuously

attract new orders.

www.alluredentalstudio.com

ROI Benefits for Allure Dental Studio

- Reduction of production times by 70-80%
- Significant reduction of skilled technician labor hours
- Significant increase of daily production output per technician
- Increased amount of orders due to wider range of indications offered

Going "all-in" with digital dentistry

Bringing the digital CAD/CAM solutions from 3Shape and Objet together in a seamless workflow has enabled Allure Dental Studio to move ahead of their competition.

The Challenge

Allure had long ago declared its vision to become their market's most highly resourceful dental lab through using the most advanced technologies, and it was time to take the next step. To do this they needed to select the right investments – including choosing a system that would solidly back their promises and business objectives for many years to come. In order to fulfill the company ambitions for growth, Allure Dental Studio wanted a system that enabled faster throughput without compromising the high standards of their services especially when dealing with the quality-minded dentists who are the majority of their customers. Additionally, this increased productivity must come from improved workflows and not by expanding their technician staff and facilities.

Surveys showed that their dentist-clients preferred to do all their lab business in one place. Therefore, Allure needed to firmly establish their position as a self-sustained dental laboratory offering the widest spectrum of dental indications. For Allure, outsourcing parts of the workflow was not an option. They wanted full control of the complete process –from the dentist's initial order, to designing the restoration, and ending with final manufacturing. Allure was adamant about fulfilling their promises, and therefore they needed to command all phases of their business.

The Solution

Allure's goals called for "best-of-breed" solutions – the best CAD-design tools and the best manufacturing equipment. But high quality alone wouldn't be enough – the "best" components must be able to work with each other in a seamless digital workflow. 3Shape's Dental System™ was Allure's choice for 3D scanning and CAD-design of restorations. 3Shape's solution offers the market's largest number of indications, and initial trials demonstrated its highly initiative workflows that Allure's technicians could understand easily and complete at high speed. 3Shape's Dental System™ included the 3Shape D700 3D scanner, the DentalDesigner™ CAD design software, and 3Shape's CAMbridge™ manufacturing preparation CAM software.



Key selection criteria

- Enable a wide spectrum of dental indications
- High quality of manufactured restoration
- Fast and robust system
- Intuitive CAD-design for minimum training requirements
- Seamless workflow from scan to CAD-design to manufacturing
- Compatibility between components

About 3Shape A/S

3Shape A/S is a Danish company specializing in the development and marketing of 3D scanners and CAD/CAM software solutions. 3Shape's more than 65 developers provide superior innovation power and their systems are applied in thousands of labs in more than 60 countries worldwide. 3Shape A/S (HQ Denmark)

Phone: +45 70 27 26 20
www.3shape.com

For the actual manufacturing process, Allure selected Objet's Eden 260V™ 3D Printing System. The printer's fine-detail printing, layer thickness and smooth surface output made it exceptionally suitable for the manufacture of dental restorations. To top it all, the steps for preparing and starting manufacture on Objet's Eden 260V™ 3D Printing System were fully integrated and controllable within 3Shape's DentalSystem™. The full system's two components could communicate perfectly without involving extra steps or overhead.

The Results

By teaming up 3Shape's Dental System™ and Objet's Eden 260V™ 3D Printing System, Allure Dental Studio was able to realize a complete digital workflow for in-house fabrication of models, abutments, coping/crowns and bridges of any size or combination. With efficient in-house manufacturing and the many new indication possibilities, Allure could suddenly present a greater variety of dental solutions to their dentist clients. While before they had to reject or outsource enquiries, they basically could now affirm production capability for every restoration order that came in.

Keeping up with the many new orders was not a problem. For example, using the 3Shape AbutmentsDesigner™ they could simultaneously create customized abutments, coping/frameworks and crowns and print them together flawlessly with Objet's Eden 260V™ 3D Printing System. They reduced the design process by 80%, and it suddenly took them only 1 single hour to print a full mouth case on the Objet Eden 260V™ Printing System instead of 6 hours or more through milling. The intuitive 3Shape Dental System™ design tools enabled Allure to optimize their resources by bringing non-technicians into the workflow in tasks that they had never before thought possible. This sky-rocketed the daily production yield per dental technician on their staff. Allure's investment was rapidly returned through more business, faster throughput and operation costs reductions.

About Objet Geometries

Objet Geometries Ltd., the innovation leader in 3D printing, develops, manufactures and globally markets ultra-thin-layer, high-resolution 3-dimensional printing systems and materials that utilize PolyJet™ polymer jetting technology, to print ultra-thin 16-micron layers.

The market-proven Eden™ line of 3D Printing Systems and the Alaris™30 3D desktop printer are based on Objet's patented office-friendly PolyJet™ Technology. The Connex™ family is based on Objet's PolyJet Matrix™ Technology, which jets multiple model materials simultaneously and creates composite Digital Materials™ on the fly. All Objet systems use Objet's FullCure® materials to create accurate, clean, smooth, and highly detailed 3D parts.

Objet's solutions enable manufacturers and industrial designers to reduce cost of product development and dramatically shorten time-to-market of new products. Objet systems are in use by world leaders in many industries, such as Education, Medical / Medical Devices & Dental, Consumer Electronics, Automotive, Toys, Consumer Goods, and Footwear industries in North America, Europe, Asia, Australia, and Japan.

Founded in 1998, Objet serves its growing worldwide customer base through offices in USA, Mexico, Europe, Japan, China and Hong Kong, and a global network of distribution partners. Objet owns more than 50 patents and patent pending inventions. Visit www.objet.com.

Objet Geometries Ltd.
Headquarters
2 Holtzman st.,
Science Park,
P.O Box 2496,
Rehovot 76124, Israel
T: +972-8-931-4314
F: +972-8-931-4315

Objet Geometries Inc.
North America
5 Fortune Drive
Billerica,
MA 01821
USA
T: +1-877-489-9449
F: +1-866-676-1533

Objet Geometries GmbH
Europe
Airport Boulevard B 210
77836 Rheinmünster
Germany
T: +49-7229-7772-0
F: +49-7229-7772-990

Objet Geometries AP
Asia Pacific
Unit28, 10/f, HITEC
1 Trademart Drive
Kowloon Bay, Kowloon
Hong Kong
T: +852-217-40111
F: +852-217-40555

Objet Geometries AP
Limited China Rep Office
Rm1701, CIMIC Tower,
1090 Century Blvd,
Pudong Shanghai
200120 China
T: +86-21-5836-2468
F: +86-21-5836-2469

info@objet.com www.objet.com

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