

CROWNED WITH SUCCESS



Changing digital dentistry with an Objet 3D Printer

“Objet 3D Printers surpass all norms for speed, precision and detail printing. With fully automated dental models now being manufactured, we have completely optimized our productivity.”

— Ing. Barone Sandro,
ScanSystems

ScanSystems now has a fully digital workflow with resulting improvements in design time, production yield, and increased business.

Digital dentistry is rapidly being adopted, propelled by continuously increased CAD/CAM productivity and advanced 3D printing capabilities. ScanSystems brings dental labs new opportunities for increasing their productivity and expanding their customer base leveraging Objet 3D Printers.

The Challenge

ScanSystems offers the market a technology-leading dental scanner for 3D scanning of gypsum models. This enables labs to prepare teeth virtually and design temporary crowns directly from scans of conventional models, completely omitting the need for a physical model. Labs can now provide dentists with cost-effective temporaries and more easily secure the final crown.

Adaptation of digital methods is increasingly defining the success of dental businesses, and the labs that move to meet this challenge will be the labs that grow. Choosing the right 3D printing system is one of the most critical business decisions a lab can make.

With the high quality dental solutions provided by ScanSystems, it was clear that the organization was now in a position to grow. An added incentive was that ScanSystems needed to streamline its business and required a 3D printing system that could enable faster throughput without compromising its high standards and without costly expansion of its technician staff and facilities.

The Solution

“The Objet Eden260V 3D Printer provided the ideal solution for ScanSystems, as it enabled us to improve the quality of our dental restoration manufacturing and placement,” said Ing. Barone Sandro, general manager, ScanSystems. “The 3D Printing System enables us to manufacture digital stone models rapidly that

At a Glance

Challenges

- Fast throughput
- High accuracy and excellent detail quality
- Minimum technician staff expansion and facility changes

Solution

- Objet Eden260V™ 3D Printer with high resolution and fine detail output

Results

- A complete digital workflow for in-house dental model fabrication
- A dramatic reduction in dental design process time
- Significant improvement in daily production yield per dental technician
- Optimized resource allocation and lower operational costs
- Rapid return on investment driven by an increase in business activity

guarantee dentists a high level of precision in the placement of dental restorations. This is very difficult to achieve using traditional freehand techniques.”

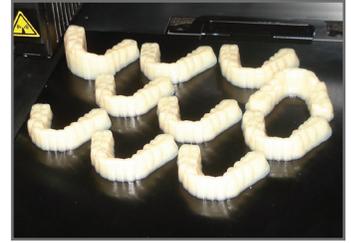
ScanSystems’ technicians now design models for an extensive range of indications, including models directly from the company’s own scans or from gypsum scans. This enables ScanSystems to produce all lab models locally and among its dental lab partners,- completely bypassing traditional manufacturing procedures that are slower and more expensive.

Using the Objet Eden260V 3D Printer, ScanSystems is able to print models with exceptionally fine details and an outstanding surface finish – all necessary for ensuring the high degree of accuracy required by its team and dentists.

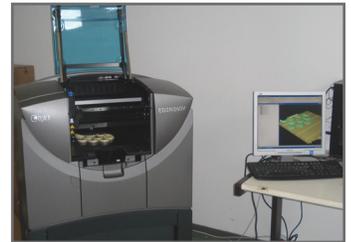
The Result

By using the Objet Eden 3D Printer, ScanSystems has 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 many new indication possibilities, we can now present a greater variety of dental solutions to our dentist clients,” said Sandro. ScanSystems can now affirm production capability for every restoration order that comes in.

“With the Objet 3D Printer as part of our digital dentistry workflow, ScanSystems has dramatically reduced the design process time and has optimized its resources by bringing non-technicians into the workflow that they had never before thought possible,” said Sandro. “This has sky-rocketed the daily production yield per dental technician. ScanSystems’ investment has been rapidly returned through an increase in business, faster throughput and operational cost reductions.”



ScanSystems selected an Objet Eden260V because of its ability to print fine details and an outstanding surface finish for dental models such as these.



The company has achieved a complete digital workflow for dental model fabrication.

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