3Shape Releases CAD Solution For Post And Core Restorations

By Bruce Frederic Mendel

3Shape, the provider of 3D scanners and CAD/CAM software solutions for the dental industry, announces the launch of its CAD solution for Post and Core restorations – which includes dedicated Post and Core intraoral scanning with 3Shape TRIOS® and unique CAD design workflows in Dental System™ 2013. 3Shape’s Post and Core solution utilizes special scanning capabilities, 3Shape Scan Posts®, and sophisticated software tools for reliable capture and optimally shaped and functional Post and Core designs. The solution saves time by allowing lab technicians to design all layers in a single digital workflow.

3Shape Scan Posts® – for use in clinics and labs
3Shape has developed special Scan Posts® to facilitate accurate capture of the Post and Core restorations’ positions and depths. Scan Posts® are approved for both intraoral use in the clinic and for model scanning in the lab. Scan Posts® are autoclavable, and they come in various shapes and sizes to support drill systems from major suppliers. Patent Pending.

Flexible input – takes scans from TRiOS® and from dental lab scanners
3Shape’s Post and Core solution can be used with 3Shape TRIOS® digital impressions and 3D scans of gypsum models. Dentists with 3Shape TRIOS® can kick start Post and Core cases in the clinic by capturing and sending highly reliable input to the lab for direct designing. A special dual-scan workflow using 3Shape Scan Posts® ensures accurate capture of true depths and positions of the root canal. If gypsum models are the input source, lab technicians simply insert Scan Posts® in the model before scanning.

Sophisticated design tools
In the lab, technicians align the captured Scan Posts® and let the software calculate positions and depths automatically. By first designing the anatomy layer and applying dedicated Post and Core modeling tools, technicians can create optimally shaped and functional Post and Core designs that are matched to the clinical case and ready for manufacturing through wax print & cast, milling, or laser sintering.

Frederic Rapp, Director of Crown Ceram dental laboratory in France says: “In combination with TRIOS®, 3Shape’s Post & Core design software gives us a fast and easy way to model optimally shaped and robust Post and Core restorations. The full digital workflow makes it very easy to design parallel post and cores, or work with cases involving multiple posts.”

All types of Post and Core cases
Labs can design Post and Core cases for standard crowns, single-piece retained crowns, and anatomical single-piece retained crowns that are cut back for veneering.

3Shape’s Post and Core design solution is fully functional in the released Dental System™ 2013 software, and with 3Shape TRIOS®. 3Shape Scan Posts® are available for both dental clinics and labs through 3Shape distributors. Please contact your local 3Shape representative for details and purchase information.

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