Stratasys 3-D printer now available for larger dental laboratories

Stratasys, a 3-D printing and additive manufacturing solutions company, has introduced a new 3-D printer for larger dental and orthodontic laboratories. The Objet500 Dental Selection offers increased throughput and productivity, with triple-jetting capability to enable life-like color models and multiple applications to be printed in a single run.

The Objet500 Dental Selection 3-D printer’s large build area allows a dental laboratory to increase throughput, and its triple-jetting technology can create a variety of dental-specific palettes, allowing multiple applications to be combined.

The multicolor, multimaterial 3-D printing solution produces dental models with gingiva-like softness and color, a range of natural tooth shades, and nerve canals or other anatomy in contrasting materials. This is accomplished by combining Stratasys’s flexible and rigid PolyJet dental materials, such as VeroDent, VeroDentPlus, VeroGlaze and Clear Bio-Complaitable.

The printer can be used for a variety of applications, such as implant testing on stone models, models requiring gingiva-like materials, and jaw models printed directly from CBCT scans.

In particular, the Objet500 Dental Selection is an attractive solution for larger dental restorative and orthodontic laboratories that are interested in implementing digital dentistry, from intra-oral scans to realistic models, and that serve a wide range of dental applications in larger production volumes. Since multiple applications can be produced in a single print run, the Objet500 Dental Selection requires fewer interventions.

A generous build volume of 490 x 390 x 200 mm (19.3 x 15.4 x 7.9 inch) accommodates demanding workflows. It can produce horizontal build layers as fine as 16 µ (0.0006 inch). The resolution is 600 dpi in the x-axis, 600 dpi in the y-axis and 1,600 dpi in the z-axis. The system has accuracy levels of 20–85 µm for features below 50 mm and accuracy levels of up to 200 µm for full model size. It offers two build modes: high-quality (16 µ) resolution and high-speed (28 µ) resolution. The cabinet dimensions are 1,400 x 1,260 x 1,100 mm (55.1 x 49.6 x 43.3 inch). Additional supported materials include VeroWhite, VeroMagenta, TangoPlus, TangoBlackPlus, as well as a range of gingiva-like and natural tooth shade digital materials.

The Objet500 Dental Selection system is compatible with all open-format color intra-oral scanners.

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