

Desktop Health Launches Metal Binder Jetting for Dental Labs, Starting With Chrome Cobalt to Enable Fully Digital Workflows

Offering A High-Speed, Turnkey Metal Binder Jetting Solution, Desktop Health Brings the Shop System to Dental Labs to Deliver Faster and More Cost-Effective Chrome Cobalt Production Capabilities for Bridges, Crowns, Partial Dentures and More

NEWPORT BEACH, Calif.--(BUSINESS WIRE)-- Desktop Health, a healthcare business within Desktop Metal, Inc. (NYSE: DM) committed to developing 3D printing and biofabrication solutions for personalized medicine, today announced the expansion of its dental technology portfolio to include a turnkey metal 3D printing solution for dentistry along with the launch of chrome cobalt for use in dental applications. The Shop System™, one of the world's fastest metal binder jetting solutions, is now available for pre-order by dental labs, delivering superior surface finish and resolution, and offering a promising pathway for custom dental appliances and surgical guides.

This press release features multimedia. View the full release here:
<https://www.businesswire.com/news/home/20210810005587/en/>



The Shop System brings mass customization through 3D printing to the dental lab, eliminating labor costs associated with machine programming required for CNC milling, typically a common manufacturing process for producing metal dental components. The Shop System is able to print up to 32 partials in less than four hours, as compared to the nearest competitive

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pathway for custom dental appliances and surgical guides. (Photo: Business Wire)

system which supports up to 10 partials in 9 ½ hours.

In addition, metal parts on the Shop System print fully supported in the powder bed and feature hand-removable sintering setters, drastically reducing labor time and costs associated with post-processing parts printed on laser-based 3D printing systems. By reducing post-processing and providing high throughput printing, the Shop System can drive down part costs for custom dental applications, such as partials, to as low as one-third the cost that can be achieved for comparable part quantities produced using laser-based 3D printing systems.

“We are excited to introduce the Shop System and chrome cobalt for binder jetting to the dental community, expanding our suite of best-in-class 3D printing solutions from photopolymers to metals,” said Michael Jafar, President and CEO of Desktop Health. “We are uniquely positioned by offering dental labs not only a leading photopolymer platform, but also a turnkey solution to produce metal appliances and surgical guides with superior surface finish in higher production volumes compared to laser-based 3D printing systems.”

Delivering High-Quality Binder Jetting to the Dental Lab

The Shop System solution includes all the software, hardware, and materials a dental lab needs to begin binder jetting dental appliances — from build preparation through printing and sintering. Key benefits include:

- **Easy to use and operate.** Designed with dental labs in mind, the Shop System produces parts at the push of a button through its easy-to-use software interface. It features engineered powders and default processing parameters optimized to deliver exceptional quality and ensure repeatability. The use of software-generated hand-removable sintering setters eliminates the need for costly and labor-intensive post-processing steps.
- **High productivity and superior print quality.** Featuring variable build sizes up to 16L and a high-speed, single pass print carriage, the Shop System produces high-quality, end-use metal parts up to 10 times the speed and at a fraction of the cost of legacy additive manufacturing technologies, amplifying dental technicians’ existing throughput with up to hundreds of customized parts per day.
- **Rich feature detail with exceptional surface finish.** Dental technicians can print dense, complex parts with incredibly fine feature detail and excellent surface finish right out of the furnace. Using an advanced single pass printhead with 1600 native DPI, the Shop System delivers 400 percent higher resolution than legacy binder jetting systems. Reliable print quality is enabled by the 5x nozzle redundancy on the printhead — 25 percent higher redundancy than comparable binder jetting systems.

“3D printing of metal parts for dentistry can finally see an efficient solution with binder jet technology from Desktop Health,” said Christopher M. Silvoy, DMD, an expert in dental implants and a diplomate of the International Congress of Oral Implantologists (ICOI). “The Shop System allows a simple and safe process for producing accurate appliances with an extremely well-integrated system and workflow. With a large build volume and fast build times, the system provides an opportunity to eliminate outsourcing, increase quality of

outcome, and potentially change dentistry.”

Availability

The complete, turnkey Shop System is now available. Chrome cobalt has been qualified for the Shop System and will be commercially available pending FDA clearance. The materials science team is continuing to work to expand the library of dental materials available through the Shop System. For more information, interested dental labs should visit <https://dental.desktophealth.com>.

About Desktop Health

Desktop Health, based in Newport Beach, California, is leveraging additive manufacturing and advanced materials to personalize patient care. Desktop Health is vertically integrated to develop, manufacture and commercialize applications across a range of healthcare specialties. The company is rapidly focused on leveraging its bio printing capabilities across several key specialties. For more information on Desktop Health, visit www.desktophealth.com.

About Desktop Metal, Inc.

Desktop Metal, Inc., based in Burlington, Massachusetts, is accelerating the transformation of manufacturing with an expansive portfolio of 3D printing solutions, from rapid prototyping to mass production. Founded in 2015 by leaders in advanced manufacturing, metallurgy, and robotics, the company is addressing the unmet challenges of speed, cost, and quality to make additive manufacturing an essential tool for engineers and manufacturers around the world. Desktop Metal was selected as one of the world’s 30 most promising Technology Pioneers by the World Economic Forum and named to MIT Technology Review’s list of 50 Smartest Companies. For more information, visit www.desktopmetal.com.

Forward-Looking Statements

This press release contains certain forward-looking statements within the meaning of the federal securities laws. Forward-looking statements generally are identified by the words “believe,” “project,” “expect,” “anticipate,” “estimate,” “intend,” “strategy,” “future,” “opportunity,” “plan,” “may,” “should,” “will,” “would,” “will be,” “will continue,” “will likely result,” and similar expressions. Forward-looking statements are predictions, projections and other statements about future events that are based on current expectations and assumptions and, as a result, are subject to risks and uncertainties. Many factors could cause actual future events to differ materially from the forward-looking statements in this document, including but not limited to the risks and uncertainties set forth in Desktop Metal, Inc.’s filings with the U.S. Securities and Exchange Commission. Forward-looking statements speak only as of the date they are made. Readers are cautioned not to put undue reliance on forward-looking statements, and Desktop Metal, Inc. assumes no obligation and does not intend to update or revise these forward-looking statements, whether as a result of new information, future events, or otherwise.

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