Dental CAD/CAM
3D Printers

High productivity manufacturing of accurate, highly detailed dental prostheses, precision working models, drill guides and orthodontic thermoforming models
Enter the Digital Dentistry Era

**ENHANCE QUALITY**
Reduce the need for remakes with the digital precision, detail resolution and the design freedom of 3D Systems dental printing solutions. Printing unique feathered edges and crisp grooves that are commonly found on tooth anatomy, with verified accuracy and consistency for dental applications, ensures you can get the perfect fit every time.

**ACCELERATE YOUR CYCLE TIMES**
Achieve a 50% increase in throughput with no additional labor. From highly flexible bench-top personal printers to high-capacity printers with round-the-clock operation and same-day cycle times, our dental CAD/CAM printers dramatically reduce lead times.

**INCREASE MANUFACTURING AGILITY**
3D printing provides more flexibility and throughput to develop your business and access the digital dentistry world, while reducing resource dependency. Our dental solutions are designed for use in laboratories and are compatible with all open .STL dental CAD/CAM software, making production methods faster, easier and more effective.

**REDUCE COSTS**
With uniformly thin walls, users enjoy an average of 20% savings on alloy consumption and 50% savings on framework finishing time with extremely smooth surface finish, adding to the remakes savings. For high volumes, Direct Metal Printing eliminates multiple steps and reduces the unit cost per restoration.

**DENTAL APPLICATIONS INCLUDE:**
- **DRILL GUIDES**
  USP Class VI-capable transparent materials for biocompatible drill guides.
- **CROWNS, BRIDGES, VENEERS**
  Production of castable and pressable wax-ups, or direct metal printing.
- **PARTIALS, FRAMES**
  Production of castable wax-ups or direct metal printing.
- **IMPLANT-SUPPORTED STRUCTURES**
  Unlimited design possibilities for DMP implant bars and implant suprastructures.
- **THERMOFORMING ORTHODONTIC MODELS**
  High accuracy and repeatability models for thermoformed aligners.
- **DENTAL WORKING MODELS**
  Precision, beautiful working models in stone-like materials.
ProJet® MJP Printers

Exceptional quality, unmatched throughput

3D Systems’ digital dentistry Multijet Printing solutions produce high-quality, accurate, sharp and crisp dental parts, at high speed and economically, to increase dental labs’ efficiency and flexibility, and support development.

MJP PRODUCTIVITY AND ECONOMICS

Designed for 24/7 use, laboratories can boast same-day cycle times, reduced lead times and diminished costs for high ROI. Delivering new levels of productivity, MJP 3600 Dental printer can produce hundreds of units per cycle and up to 24 quad cases in a single build, while the ProJet MJP 2500 Plus adjusts the cadence to your models production workflow with few hours to full day batches.

MJP EASE-OF-USE AND ECONOMICS

Optimize labor costs and save on remakes—finishing MJP parts is as easy as melting wax away from even the tightest spaces, preserving the finest details and smooth surface quality. No hand scraping, high-pressure water jets, caustic chemical baths, or special facilities requirements.

HIGH CAPACITY FOR THE BROADEST RANGE OF DENTAL LAB APPLICATIONS

The versatile ProJet MJP 3600 Dental printer is capable of quickly and consistently producing accurate wax-ups for the production of prosthetic devices, and manufacturing precision working models in a stone-like material, as well as orthodontic thermoforming models or drill guides in class VI capable durable plastic material.

PRECISION, SPEED AND SIMPLICITY MADE AFFORDABLE

With excellent edge fidelity, smooth and hard low friction matte surfaces, the ProJet MJP 2500 Plus utilizes Visijet M2R-TN material to produce accurate prosthodontic and thermoforming models in tan color, for easy detail visualization, in a fast, effective and economical design-to-part process.
ProJet® 1200 Micro-SLA Printer

Low-cost, professional-grade dental wax-up 3D printer

The ProJet 1200 micro-SLA 3D printer puts the high precision of a professional dental 3D printer right on your lab bench, so you can make accurate wax-ups faster with no 3D printing experience required.

FOR EVERY DENTAL LAB BENCH
The ProJet 1200 is so affordable to own and use that every dental CAD/CAM designer can have one on the desktop, so there’s no waiting to start a print on a shared printer.

ALL-IN-ONE SOLUTION
With an integrated curing chamber, everything you need is built-in, and replenishing material is as easy as popping in a new Visijet® FTX cartridge. It is factory calibrated for reliable, accurate and pushbutton operation.

FAST WORKFLOW
Fast print times allow you to keep up with the production of two dental CAD/CAM designers. Print 10 dental wax-ups in less than an hour.

ProJet® & ProX® SLA Printers

Unrivaled precision and surface quality

These highly productive printers offer all the benefits of legendary stereolithography, fine-tuned for even greater speed, cost-efficiency and reliability for dental models and drill guides production.

HIGHEST PRODUCTIVITY
Advance your dental model manufacturing workflow with the fastest print technology for large production runs. With swappable material delivery modules, get 24/7 utilization.

ENGINEERED SPECIALTY MATERIALS
Using our advanced SLA materials, you can produce accurate dental models that are ideal for crown and bridge restorations, working models for partial frameworks and orthodontic thermoforming models. With the USP Class VI capable biocompatible material, you can produce drill guides, parts for medical devices and more.
ProX® DMP 100, 200 & 320

High productivity, exceptional quality

3D Systems Direct Metal Printing process builds fully dense, chemically pure complex metal parts in hours, providing industry leading quality, fine details, precision and repeatability for dental applications.

EXCEPTIONAL SURFACE FINISH
Reduced machining or polishing to get final parts.

UNMATCHED ACCURACY
Print the finest features at the tightest tolerances in Direct Metal Printing.

PRODUCTION READY
Offering unmatched precision and consistency, ProX DMP printers are the proven standard with tens of thousands of in-mouth dentures produced worldwide.

SUPERIOR MECHANICAL PROPERTIES
Produce exceptionally strong dental parts with uniform mechanicals, higher density and chemical purity.

HIGH PERFORMANCE DENTAL ALLOYS
Used by the ProX DMP 100 and 200 printers, the nickel and beryllium free CoCrMo alloy is suitable for biomedical applications, including dental frames, partials, copings and bridges. The ProX DMP 320 selection of high strength LaserForm® Titanium alloys is ideal for dental implant bars and suprastructures.

UNLIMITED DESIGN FREEDOM - UNPARALLELED RETENTION
The Direct Metal Printing capability to accurately produce unlimited complexity parts, including tailored surface textures that are not possible by milling, provides the ideal retention structure as an integral part of the implant suprastructure production.
<table>
<thead>
<tr>
<th>Technology</th>
<th>ProJet 1200</th>
<th>ProJet MJP 2500 Plus</th>
<th>ProJet MJP 3600 Dental</th>
<th>ProJet 6000 HD/ProJet 7000 HD</th>
<th>ProX 800</th>
</tr>
</thead>
<tbody>
<tr>
<td>Build Envelope (W x D x H)²</td>
<td>1.69 x 1.06 x 5.90 in (43 x 27 x 150 mm)</td>
<td>11.6 x 8.3 x 5.6 in (295 x 211 x 142 mm)</td>
<td>11.75 x 7.2 x 8 in (298 x 183 x 203 mm)</td>
<td>Up to 15 x 15 x 10 in (380 x 380 x 250 mm)</td>
<td>25.6 x 29.5 x 21.65 in (650 x 750 x 550 mm)</td>
</tr>
<tr>
<td>Resolution</td>
<td>56 micron (xy) (effective 585 DPI)</td>
<td>800 x 900 x 790 DPI</td>
<td>UHD Mode: 750 x 750 x 890 DPI</td>
<td>HDX and HDP Modes: 375 x 450 x 790 DPI</td>
<td>4000 DPI (equivalent DPI based on laser spot location resolution of 6.35 μm in 3D Systems testing)</td>
</tr>
<tr>
<td>Layer thickness</td>
<td>30 μm</td>
<td>32 μm</td>
<td>29 or 32 μm</td>
<td>50-100 μm</td>
<td>50-100 μm</td>
</tr>
<tr>
<td>Typical accuracy</td>
<td>±0.004 in per in (±0.1016 mm per 25.4 mm) of part dimension</td>
<td>±0.001-0.002 in per in (0.025-0.05 mm per 25.4 mm) of part dimension</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Main dental applications</td>
<td>Wax-ups</td>
<td>Working and thermoforming models</td>
<td>Wax-ups, working and thermoforming models, drill guides</td>
<td>Working and thermoforming models, drill guides</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ProX DMP 100</th>
<th>ProX DMP 200</th>
<th>ProX DMP 320</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technology</td>
<td>Direct Metal Printing</td>
<td>Direct Metal Printing</td>
</tr>
<tr>
<td>Max. build envelope capacity (W x D x H)¹</td>
<td>3.94 x 3.94 x 3.94 in (100 x 100 x 100 mm)²</td>
<td>5.51 x 5.51 x 4.92 in (140 x 140 x 125 mm)²</td>
</tr>
<tr>
<td>Dental metal alloys with developed print parameters</td>
<td>Cobalt-Chrome CoCr</td>
<td>Cobalt-Chrome CoCr</td>
</tr>
<tr>
<td>Layer thickness</td>
<td>Adjustable, min 5 μm - max 100 μm Preset: 30, 40 and 50 μm</td>
<td>Adjustable Preset: 30 and 60 μm</td>
</tr>
<tr>
<td>Repeatability</td>
<td>x=20 μm, y=20 μm, z=20 μm</td>
<td></td>
</tr>
<tr>
<td>Min. feature size</td>
<td>x=100 μm, y=100 μm, z=20 μm</td>
<td>100 μm</td>
</tr>
<tr>
<td>Min. wall thickness</td>
<td>150 μm</td>
<td>150 μm</td>
</tr>
<tr>
<td>Typical accuracy</td>
<td>± 0.1-0.2% with ± 50 μm minimum</td>
<td></td>
</tr>
<tr>
<td>Recycling system</td>
<td>Optional external system</td>
<td>Optional external system</td>
</tr>
<tr>
<td>Interchangeable build modules</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Main dental applications</td>
<td>Partials, frames, copings, bridges</td>
<td></td>
</tr>
</tbody>
</table>

¹Maximum part size is dependent on geometry, among other factors. Complete specifications available at www.3dsystems.com
²Including build plate

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