sys

The ultimate 3D printers for Dentistry & Medical

stratasys

Accelerate product development, streamline workflows, improve surgical planning and enrich learning with 3D printing.

Delivering patient-spec solutions

> We're running the J5 DentaJet 20 hours a day, right through the night, which is currently seeing us create around 1,000 different models a month. This is a massive benefit, as it means we can send files to be printed and arrive the next day with a full tray of models.
>
> Olivier Mangot, Co-Director, IDENT'M

Empower efficiency of time, materials and human expertise with 3D printing.

The healthcare industry is constantly evolving and faces several significant challenges, including but not limited to high cost, limited customisation and long lead times for finalised parts.

These challenges can lead to suboptimal patient outcomes, increased cost of providing services and a less impactful learning experience for the future generation of providers.

Fortunately, 3D printing technology is helping to address these challenges in several ways.

Traditional processes often involve costly tooling and manufacturing, for example when creating orthodontic implants or pre-surgical planning tools, however with 3D printing, many of these services are available on-demand and without the high cost and lead times.

Alongside this, advances in technology have unlocked photo-realistic colour and material options, meaning you can more precisely mimic or recreate anatomical models unlike ever before. Read on to discover how 3D printing is transforming this industry.

Dental & Orthodontics

Read more on pages 4-5

Dental labs across the country are already seeing benefits of 3D printing by creating customised aligners, retainers and other dental appliances to improve patient comfort and treatment outcomes.

Medical

Read more on pages 6-7

With an expansive range of applications for medical, from customised implants to producing anatomical models for surgical planning on-demand, there is unlimited potential with 3D printing for medical.

Dental & Orthodontics

Reliable. Simple. Accurate.

The field of dentistry has long been faced with challenges related to the design and manufacturing of dental prosthetics, implants and models. Traditional manufacturing methods such as casting, milling and injection moulding have limitations, including accuracy and efficiency issues, that can impact the quality of the final product.

However, with the introduction of 3D printing technology, these challenges are being resolved, resulting in significant benefits for dental professionals. Unlocking the capability to tailor highly-accurate models to the specific needs of a patient, whilst printing at production-level scale, leads to improved outcomes for patients.

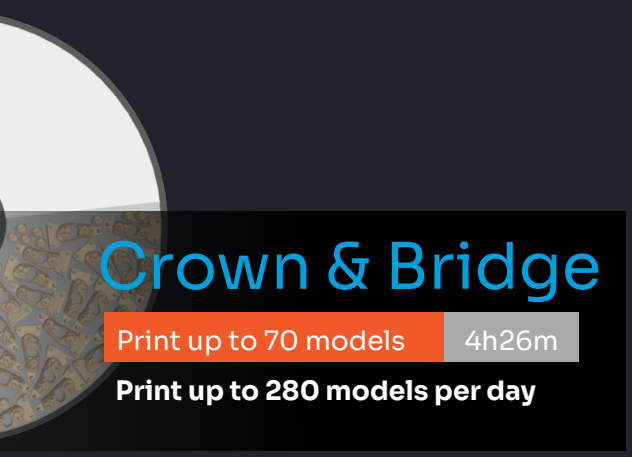
In addition, the versatility of 3D printing technology can unlock services previously inaccessible due to high cost of entry. Offer more to your patients, whilst differentiating yourself from competitors with a complete hands-free approach to dental production.

TrueDent

True aesthetics made possible.
Monolithic full colour dentures.

Cleared by the FDA and utilising VITA certified tooth shades, TrueDent is perfectly suited towards denture production. Achieve full-colour, continuous print of both denture base and teeth. Print personalised applicants simultaneously on a single high-capacity tray to provide your patients with natural looking gums and realistic tooth structure.

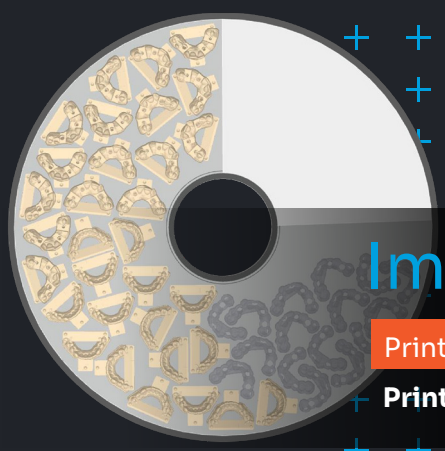
Print up to 32 full-colour dentures in 12 hours



Crown & Bridge

Print up to 70 models | 4h26m

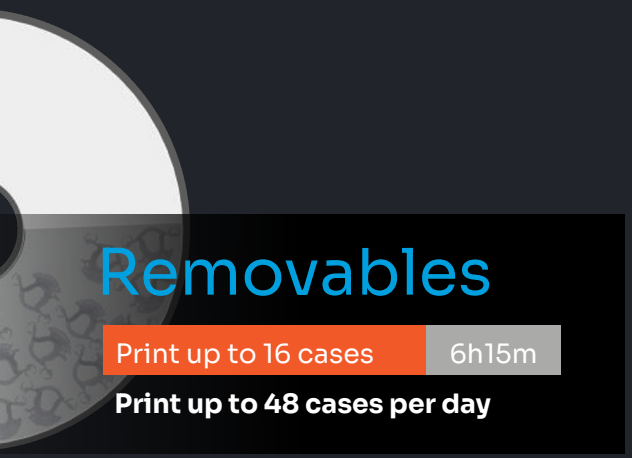
Print up to 280 models per day



Implantology

Print up to 16 cases | 6h25m

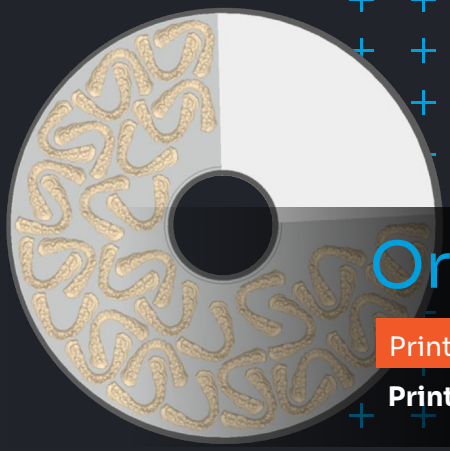
Print up to 46 cases per day



Removables

Print up to 16 cases | 6h15m

Print up to 48 cases per day



Orthodontics

Print up to 48 models | 3h15m

Print up to 240 models per day

J5 DentaJet

The four-in-one dental 3D printer.

From implantology to orthodontics, utilise multiple applications on a single Stratasys solution. Ideal for small and large labs alike, allowing for a complete and simple workflow thanks to soluble support removal to automate your dental production.

J5 DentaJet from £290 per week*

*Indicative price for base machine only, subject to credit approval

Specification:

Machine Size:	651 x 661 x 1511mm
Build Envelope:	1,174cm2
Layer Thickness:	from 18 microns

Medical

Anatomical realism you can see & feel.

In a world of advancing costs, ensuring that you're able to offer the best possible training and patient outcomes needs to be ensured. With full-colour, multi-material 3D printing you can alleviate the pressures of traditional methodology, whilst improving the service you are able to offer patients across multitudes of applications.

Surgical Training

Minimise variation in a clinical setting with highly-realistic, low-risk training. Digital anatomy 3D printed models give physicians the opportunity to standardise surgical skills and delivery of care by practicing on the most accurate representation of the targeted pathology, including cadaver replacement with realistic haptic feedback during device insertion and deployment.

£ £ £ Achieve up to 70% cost reduction

*compared to fabricated simulators, animal studies and cadaver usage.

J5 MediJet

The all-in-one medical printer.

Print with multiple materials and multi-colour capabilities. Academic medical centres, hospitals and medical device companies can create vivid anatomical models, drilling and cutting guides that are sterilisable and biocompatible – from one solution.

J5 MediJet from £390 per week*

*Indicative price for base machine only, subject to credit approval

Specification:

Machine Size:	651 x 661 x 1511mm
Build Envelope:	1,174cm2
Layer Thickness:	from 18 microns

Surgical Guides & Planning

Beyond pre-surgical preparation, the use of patient-specific 3D printed medical models can improve patient outcomes by reducing complications and decreasing overall recovery time and length of hospital stay. In addition, surgeons can better explain specific pathologies and procedures to patients prior to surgery, which has been proven to improve a patient's therapeutic understanding and satisfaction.

Maxillofacial

Using Stratasys 3D printing, maxillofacial prosthetic teams can convert patients' CT scans into highly-accurate 3D printed replica models, bone replacement parts or metal prosthetic plates that are customised to the exact specification of each patient, providing invaluable insight into procedural outcomes and helps minimise risks.

J850 DAP

Proven anatomical realism.

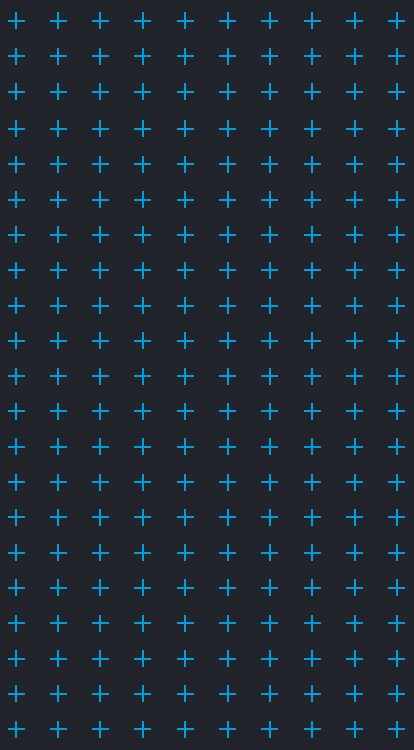
Experience the power of Stratasys 3D printing for medical devices like never before. Our advanced printing materials and software make it possible to create realistic 3D models of human anatomy that look and feel like real bone and tissue.

J850 DAP finance options available*

*Discover the options available to you with a personalised quote

Specification:

Machine Size:	1400 x 1260 x 1100mm
Build Envelope:	490 x 390 x 200mm
Layer Thickness:	from 14 microns



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