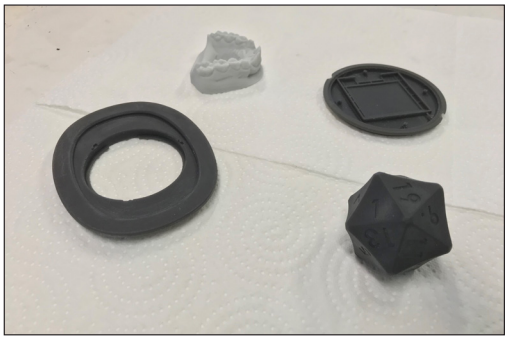
French bureau chooses EnvisionTEC printers and materials to enhance its offerings

Do'in3D was established in September 2014 and provides bureau printing services to companies across France.

The company workshops and offices, located in Le Bourget-du-Lac provide a range of prototype manufacturing services together with small series parts and design mock-ups. Its consultancy services match the needs of the customers with the correct technology to meet their individual requirements. Do'in3D provides scanning facilities and a large range of printing technologies to meet the needs of its customers.



Requests for manufacturing take many shapes from prototypes to dental models.

Why look at 3D printing?

Since the millennium, the Do'in3D team watched industry trends, and saw the rise in the adoption of additive manufacturing technology. They watched as its use was rapidly expanded into prototyping across a range of industries.

Do'in3D was established based on this demand, and a need to provide outsourced 3D printing and production services to individuals and businesses. At the time of its inception and in the years that followed it became clear that different companies needed different technologies to achieve their results. To this end Do'in3D invested in a variety of machines to allow for their needs to be met.

"The EnvisionTEC Ultra completes our portfolio of technologies, providing clients with the ability to print large objects, and multiple smaller objects at outstanding resolutions." - Stephane Chat , CEO

Do'in3D

Industry:
Manufacturing

Machine:
Ultra 3SP

Materials :
E-OrthoShape, E-RigidForm

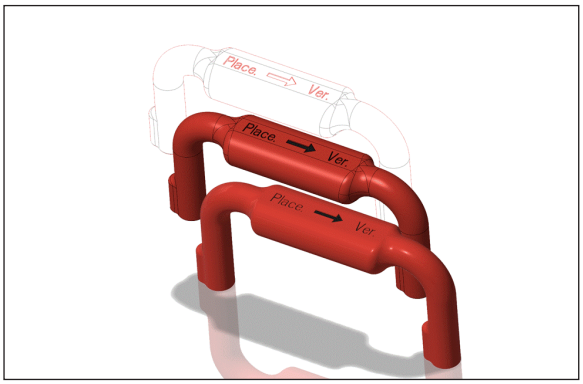
Why EnvisionTEC?

Though Do'in3D had invested in a number of technologies including FDM, PolyJet, ColorJet, Multi Jet Fusion and even SLS machines, one technology the company did not have was a high quality polymer based solution. This left a gap in their customer offering.

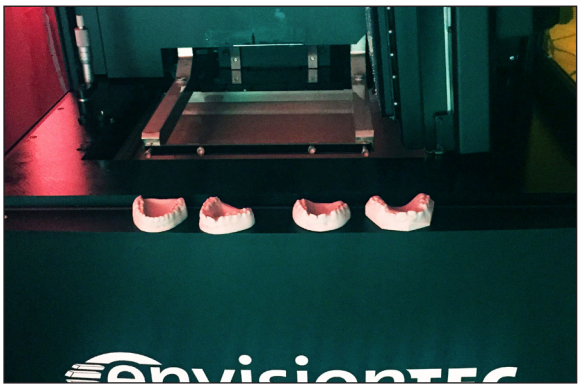
Do'in3D was aware of EnvisionTEC and the quality available from its DLP and 3SP series of printers. Having experienced the surface quality available and seen the extensive portfolio of case studies, the team engaged with EnvisionTEC and were passed to local distribution partner ARKETYP3D.

"We were looking for a 3D printer capable of producing larger parts, with exceptional surface quality. It had to be a medium-sized machine based on liquid resin."
- Stephane Chat , CEO

ARKETYP3D engaged with Do'in3D and demonstrated a number of models within the EnvisionTEC range, from smaller desktop models through to large frame 3SP machines. Following these demonstrations and seeing a number of materials to suit the needs of it's customers, including E-OrthoShape and E-RigidForm, Do'in3D settled on an Ultra 3SP model.



Files are received from customers and manipulated ready for printing.


Dental models produced on Do'in3D's Ultra 3SP.

Results

The introduction of the EnvisionTEC Ultra 3SP machine has added more abilities to the already impressive portfolio within Do'in3D.

The EnvisionTEC technologies are perfectly suited for the production of prototypes or mechanically functional final parts. The platform size and impressive Z axis on the machine allows for large numbers of smaller models to be produced at once, together with large volume items that would be otherwise impossible on a smaller machine.

The ability to mass-produce items quickly and produce the larger items for customers has widened the breadth of businesses and requirements Do'in3D can fulfil.

EnvisionTEC, the perfect choice for manufacturing.....anything.

EnvisionTEC offers a full range of desktop, full-production and high-speed continuous 3D printers for a variety of industries including: manufacturing (jewelry, aerospace, automotive, consumer goods), medical , dental/orthodontic, audiology and even biotechnology.

Whether you are looking for faster, more accurate prototypes for design verification and testing or for real mass production of custom products, EnvisionTEC can help.

EnvisionTEC machines are paired with an industry-leading library of materials that includes everything from robust end use, soft consumer focused and even castable resins. There are even a variety of FDA- and CE-approved dental and medical materials.

EnvisionTEC materials for manufacturing

• **ABS Flex White** - A flexible ABS-like 3D material for a wide variety of applications including snap-fit items and assemblies which require some elasticity.

• **E-Clear** - A liquid photopolymer that produces strong, tough, water-resistant parts especially for the custom hearing device market.

• **ABS Hi-Impact** - A tough material suitable for high quality prototypes as well as production-quality end use parts.

• **ABS Tough** - An extremely tough ABS-like 3D printing material.

• **E-CE** - A stiff, heat-resistant, high-performance dual-cure material that also offers chemical resistance.

• **E-Glass 2.0** - A transparent resin with excellent surface finish quality and feature resolution. An ideal 3D printing solution for simulating clear plastics.

• **E-Model -** A tough material, suitable for high quality prototypes as well as stable enough for production-quality end use parts.

• **E-RigidForm** - A polyurethane-like resin that 3D prints strong, hard and stiff parts that can be used for prototypes and end use.

• **E-Rigid PU** - A polyurethane-like resin that 3D prints end-use and prototype parts that compete with injection molded plastics.

• **E-Shore A** - An advanced engineering-grade polyurethane-like material that produces a final prints with soft Shore A values of 40 or 80.

• **E-Tool 2.0** - Filled with Barium Borosilicate Glass, known for its heat and chemical resistance, to deliver injection molds that can withstand high heat and pressure.

• **EC3000** - A high wax material delivering crisp details and smooth surfaces. Designed for clean burnout to deliver foolproof casting.

• **EC500** - A castable material with moderate levels of wax for 3D printing heavier jewelry.

• **HTM140** - A high temperature molding material for non-metal masters.

• **LS600** - A material for producing parts with high impact resistance similar to thermoplastics.

• **PIC 100 Series** - A popular production casting material ideal for printing jewelry, dental and other parts requiring exceptional detail and surface finish.

• **PhotoSilver** - A ceramic filled photopolymer that produces highly detailed parts with crisp features.

• **Pro Gray** - An accurate and functional resin for producing robust and durable parts.

• **RC SERIES** - A popular line of resins containing ceramic particles. RC materials build tough and stiff parts at very high resolutions.

Partners

Thanks go to French distribution partner ARKETYP3D for their support in the making of this case study.

About EnvisionTEC

EnvisionTEC is a leading global provider of professional-grade 3D printing solutions. Founded in 2002 with its pioneering commercial DLP printing technology, EnvisionTEC now sells a range of printer configurations based on a number of distinct technologies that build objects from digital design files. The company's premium 3D printers serve a variety of medical, professional and industrial markets, and are valued for precision, surface quality, functionality and speed.

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