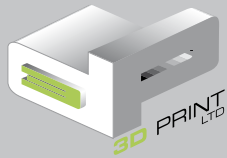


guide
TO 3d
print
TECHNOLOGY



Winner of a Gold Medal for Innovation in Printing at Pride in Print 2007



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Introducing 3D Print Ltd

Three partners with wide experience and complementing skill sets have come together to form New Zealand's first rapid prototyping and modelling bureau utilising the benefits of 3D printing technology.

Never before has it been so convenient and so cost effective for the likes of inventors, manufacturers, packaging companies, product designers and architects to obtain a prototype or a model of their new designs.

3D Print partners with their clients to provide expert consultancy support, 3D design and conversion services and solid model and prototype building.

All of this is available in a fraction of the time and significantly cheaper than previously thought possible.

Welcome to our e-book. We sincerely hope you find it useful.

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Which category do you fall into?

Here are some of the users of our 3D Print technology...

- Advertising Agencies
Interpreting concepts and ideas
- Architecture
3D Prints emphasise structure/form
- Boat Designers and Builders
Cabin Layouts, half models
- Education
Models used for teaching purposes and output of student designs
- Engineering Consultants
Accurate scale models of simple or complicated structures
- Foundries
Fast pattern making, accurate to drawings
- Graphic Designers
Prototypes with labels and colour built into the model
- Heavy industry
Factory Layouts, training tools
- House Building Companies
Multiple variations and options of designs sitting in showhomes
- Industrial Designers
Can use a number of surface finishes

- Infrastructure Companies
Models show future construction plans
- Inventors
Concept models reducing development time
- Manufacturers
Reduce costs by eliminating errors and doubt earlier in the design process
- Marketing Companies
Complete product showing shelf appeal
- Medical
Reproduce cat scan information
- Model Makers
Components made fast and accurate with detail
- Museums
Reproduce historic items for display
- Packaging Companies
Prototypes include label if required
- Plastics Manufacturers
Prototypes used for thermoforming
- Patent Attorneys
Accurate prototypes to assist with protection of intellectual property
- Product Designers
Early concept models either solid or flexible
- Property Developers
Renders, fly-throughs, solid models- essential tools for marketing
- Solidworks Contractors
Accurate reproduction of STL / VRML files
- Topographical
Digitally combine information and produce as a solid model to scale

Why would you use a 3D Print?

Three key reasons...

- Your design engineer is reassured that the tooling will be correct, which means costly mistakes can be avoided early on.
- Your marketing/graphic design team are assured the labelling and shape will appeal to the target market, which means sales should flow quicker from a proven design.
- Your client is able to see exactly what their house or design will look like at scale size, thereby speeding up the design and acceptance process saving costs for everyone.

Physical models are much easier to understand than trying to visualise or interpret concepts from drawings.

For prototyping the ability to combine form or shape, and colour ie. labels /brand is a big advantage. Suddenly your investment in prototyping is even more justified.

***Remember:* All this within 48 hours of producing a 3D drawing.**

Further benefits of a 3D Print

- Design decisions can make a great difference to the appeal to a consumer so an early visualisation of the finished shape and look will transform into successful designs reaching the market quicker.
- A 3D Print prototype is produced faster and cheaper than traditional methods, which helps more prototyping to be undertaken than previously thought affordable, avoiding costly mistakes in tooling.
- A 3D Print is used to help refine the look, feel and fit throughout the design process thereby speeding up the completion of the project.
- A 3D Print will help to save time, reduce costs and avoid errors prior to finalising design, ultimately helping the profitability of both designer and client.
- The more complex the design the greater the time savings that are achieved using a 3D Print compared with other methods.
- Casting patterns made with 3D Print technology will result in production time being greatly reduced compared to conventional methods.

- 3D Prints give your sales force something concrete and convincing to show major customers before the product comes to market confirming its appeal and generating interest and pre-sales.
- 3D prototypes enhance the visualisation for customers over traditional 2D sketches and renders thereby speeding up the sales process.
- Innumerable iterations and variations can be produced cost effectively so designers and marketers can be sure the product is exactly what the people on the street are demanding and therefore eliminating costly product developments that the market did not want.
- 3D print models are used for cost effective early concept models creating compressed design cycles, enhanced product aesthetics, ergonomics and improved resource utilisation. All of these lead to a saving of time and money.
- Accuracy to scale is 0.089 of a millimetre ensuring prototypes can be checked for fit of assembly parts avoiding expensive errors with tooling design.

If you are an architect, engineer or product designer your 3D print will...

- Provide a check on the visualization to the architect or designer thereby assisting with the development of the design which makes the whole design a speedier process.
- Provide a communication to the client which can eliminate any doubts in their minds as to what the final look will be.
- Be a useful tool for patents and resource consents speeding up the understanding of approving authorities.
- Become an essential marketing tool for selling off the plans resulting in quicker recovery of investment dollars.

Architects can't just collaborate around a napkin or computer file the same way they can around a physical model.

Architects need to literally walk around a design, get their hands on it and maybe mark it up with a pen. This process is as vital as presenting to a client and just as rigorous.

The single biggest step you can take to improve the way you refine concepts, communicate with suppliers, and develop/market products

If you are a manufacturer 3D Print can provide you with...

An expert consulting and production service including...

- Assessment of tooling design to date
- 3D computer modelling from scratch or conversion of your 2D sketches, CAD files or photographs
- Interim and final product prototyping in hard or flexible compounds
- Patterns of the tooling required for foundry casting
- Machining of the tools ready for production.

The 3D Print team can offer you a genuine whoa-to-go tooling service in a fraction of the time previous options have allowed.

3D printing technology allows you to present full colour models to your clients at the proposal stage, without any internal resources, significant delays or large costs.

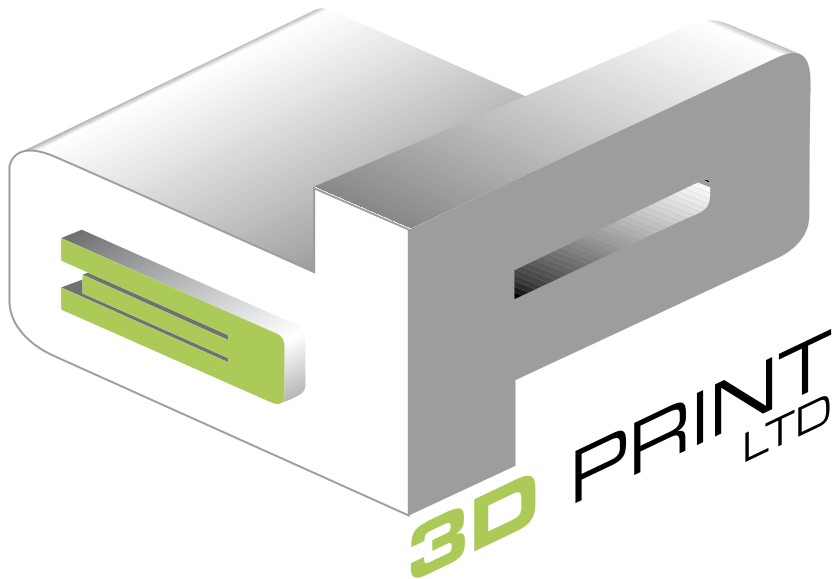
What else can we do for you?

As well as designing the building or prototype in 3D software for you, we can also use that file for not only building the solid model, but adding extra value to your marketing programme.

Such as...

- Creating fly-throughs for presentation and websites
- Renders and large format prints for your displays

and the list goes on...



How we can help you...

Pick up the phone and dial us for a free
consultation...

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