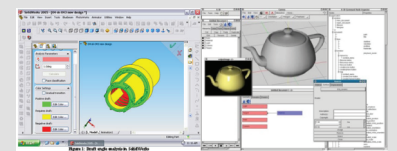


AUSTRALIAN OWNED AND OPERATED

3D Prototyping provides high quality, low cost rapid prototyping services utilising the latest SLA (Stereolithography), 3D Printing, Objet, Rapid CNC, Low volume moulding in vacuum casting and 3D Scanning technology, to get your products to market faster.

3D DESIGNING

We will turn YOUR concept into a 3D CAD file optimising our years of experience to produce a cost effective design for manufacturing purposes utilising the most up to date CAD software.



OBJET 3D PRINTING

Polyjet polymer based 3D printer. Wide range of materials that can be painted, drilled, glued, machined together with being electro plated or vacuum metalised. Materials such as an ABS, PP, Clear & rubber like materials.



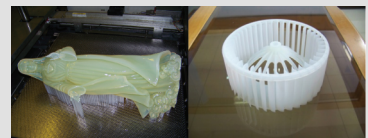
3D PRINTING

A low cost way of turning your CAD design into a physical model. Most suited to large architectural models, plant lay outs and visual prototypes that don't require any mechanical properties.



SLA

used for conceptual designs, Product verification, Pattern making, form/fit analysis and light functional testing. The SLA process is highly suited to large complex prototypes that require good accuracy and surface finish.



RAPID CNC

Functional and structural testing of your prototype. Materials used include ABS, PMMA, Polypropylene, Polycarbonate, and Nylons.



VACUUM CASTING

we can now offer vacuum casting as a cost effective and efficient way of producing low volume parts. Parts can be coloured during the moulding process or electro plated after just the same as injection moulding.



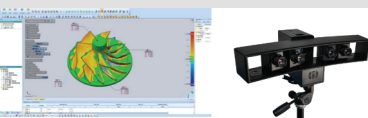
INJECTION MOULDING

Access to low cost, entry level moulders and toolmakers that will save you thousands in the manufacturing process.



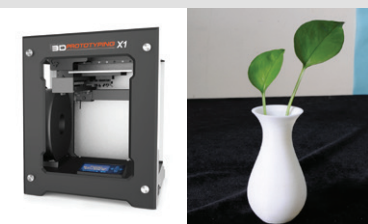
3D SCANNING

A cost effective solution for engineers, manufacturers, researchers, artists, designers and toolmakers to scan and to modify components or to verify components in CAD software for inspection purposes.



3D PRINTERS

New low cost 3D Printer with a build size of 160mm x 160mm x 140mm and an accuracy of 0.01mm you can create your own stunning prototypes in colour from ABS plastic.



Services

3D Designing • 3D Printing • 3D Scanning • SLA • Rapid CNC • Vacuum Casting • Rapid Tooling • Tooling • Injection Moulding

NEW: CARBON FIBRE, KEVLAR, FIBREGLASS PRINTING

Want to print parts, tooling, and fixtures with a higher strength-to-weight ratio than 6061-T6 Aluminium? With a special blend of thermoplastics which hardens during the printing process we can now print in Carbon Fibre, Kevlar & Fibreglass.

Printing in a Composite Filament Fabrication™ (CFF™), parts are reinforced by continuous strands of fibres embedded in a thermoplastic matrix. 3D Prototyping can help accelerate your manufacturing cycle with this unique Additive Manufacturing process.

Printing the outer print in engineering nylon, filling each part with continuous carbon fibre, Kevlar or fibreglass, thus creating fibre-reinforced plastic parts with a strength to weight ratio higher than aluminium. The nylon outer part has greater impact resistance and a non-destructive surface.



CARBON FIBRE CFF™

Prints like plastic, but stiffer than aluminium. 20x stiffer than ABS, and is stronger than 6061-T6 aluminium by weight. Carbon Fibre CFF™ is perfect for fixtures, jigs, and parts that need the highest strength-to-weight ratio.

- Highest strength-to-weight
- Highest thermal conductivity



KEVLAR® CFF™

Kevlar filament is a tough and hard like material five times as strong as steel! Kevlar has many applications, ranging from bicycle tyres, racing sails to body armour because of its high tensile strength-to-weight ratio; it is also used to make modern drumheads that withstand high impact and even underwater applications.

- Best abrasion resistance
- Best impact resistance



FIBREGLASS CFF™

Fibreglass filament is the perfect alternative when the strength of Carbon Fibre Filament is needed, but the stiffness and weight are less critical. This patent pending Fibreglass CFF filament uses the same Continuous Filament Fabrication process for impressive strength, but at a much lower cost.

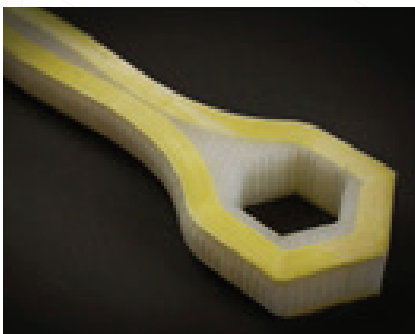
- Highest strength-to-cost
- Electrically Insulating



NYLON FFF FILAMENT

Fantastically flexible, but tough as nails. This nylon filament has great fatigue and impact resistance. Nylon is also a great outer protective layer to keep your fixtures and tooling from scratching sensitive parts. It's also a great choice for tabs, clips, and mechanical fasteners.

- Tough engineering plastic
- Low-friction
- Flexible



We can also embed anything from sensors, bearings, bushes through to electronics during the printing process offering a unique printing solution that no other printing service can offer!! We can even edit the fibre density on a layer by layer basis, changing the strength and flexibility of different regions of a printed part. Developed by engineers with innovative ideas, bringing to you the next generation of 3D Printing materials; Carbon Fibre, Kevlar and Fibreglass.



Services

3D Designing • 3D Printing • 3D Scanning • SLA • Rapid CNC • Vacuum Casting • Rapid Tooling • Tooling • Injection Moulding



EXCLUSIVE AUSTRALIAN DISTRIBUTOR FOR SHINING 3D- LOW COST HIGH ACCURACY WHITE LIGHT SCANNERS

The Shining 3D scanner system utilises rapid scanning techniques using non-contact, white light technology.

OPTICSCAN DUEL LENS SERIES – 3 MODELS

OpticScan-DL - 3D scanning or 3D measurement for large auto parts, large moulds, castings, cars, aircraft components, interiors, large-scale cultural relics, sculptures (which can be used by cooperating with 3D-Photogrammetry), etc.

OpticScan-DM - 3D Scanning or 3D modelling for small and medium sized mould parts, plastic products, home appliances, moulds of shoes including soles, small and medium sized sculptures, cultural relics, etc.

OptiScan-DS - 3D Scanning or 3D inspection for Jewellery design, fine design, toys, small sized parts, electronic connectors and many more.



OPTICSCAN Q

OPTICSCAN QL - 3D Scanning or 3D inspection for moulds, plastic products, moulds of shoes and soles, sculptures, cultural relics, etc. (allows for switching between scanning ranges, without the need for re-calibration).

OPTICSCAN QM - 3D scanning for large moulds including auto parts and castings, large size cultural relics, etc. (allows for switching between scanning ranges, without the need for re-calibration).



OPTIMSCAN

This is the third generation of the SHINING 3D high resolution white light scanner, OptimScan has been designed based on the upgrade of the classic two-lens SHINING 3D Opticscan system, including the additional key features of non-contact scanning & high accuracy. OptimScan has been improved in appearance, efficiency and function. Technical Features - The machine obtains more data detail and achieves higher precision, efficiency and scanning quality; Integrated Aluminium alloy frame and carbon fibre like material, which ensures the product has high durability; Portable and comfortable handle makes for easy transportation.



AUTOSCAN DS DENTAL SCANNER

3D scanning and measuring for dental implant, dental prosthetics, orthodontics and others in dentistry. 3D scanning and measuring of dental implants, dental prosthetics, orthodontics and others in dentistry. Designed for Scanning and measuring Gypsum Models to capture the high-accuracy geometrical shape of the model. High accuracy – White-light scanning technology high-quality STL data output at an accuracy of 15 µm, high speed and economical.



PHOTOGRAMMETRY

Shining 3D-Metric system (Photogrammetry System, Digital Photogrammetry) is used for accurate and fast 3D measurements of large/bulky sized object. Consisting of a DSLR CAMERA, coded and un-coded targets, scale bar and measurement software. This system will calculate the coordinates of the object precisely and quickly produce data that can be used for 3D inspection and CAD comparison & deformation analysis. The precise accuracy of the Shining 3D-Metric system for large area 3D measuring and inspection, cover the automotive field, aerospace, shipbuilding industry, architecture, large-scale relic, machinery etc.



EINSCAN LOW COST SCANNER

Best Entry-Level Solution for Education, Design Studio, 3D printing enthusiasts and 3D digitizing entertainment fans. A low cost white light scanner that's easy to use, is dust resistant and has an accuracy of 0.04mm. The scanner exports directly as an STL file which can then be used for prototyping or CAD modification.



ACCESSORIES

Fixture, Portable Auto Turntable, Professional Tripod or Vertical Measuring Bench, Calibration Boards, Reference Points, Metal Briefcase, Toolkit



Software for reverse engineering or inspection.

Type

Shiningform XOR
Shiningform XOY

Features

Reverse engineering software that creates parametric CAD models from 3D scan data

Quality inspection software that uses the intelligence embedded in CAD models to make automated verification of 3D scanned objects easy

Wrap

It enables the transformation of point cloud and probe data to 3D polygon meshes for use in manufacturing, design, entertainment, archeology, and analysis.

Industries: Aerospace • Automotive • Education • Manufacturing • Medical • Plastics • Engineering