

what we do

stereolithography

Produces models from CAD data by curing resin into a solid object by means of a computer-guided laser beam. We can produce parts up to 500mm with a typical accuracy of better than +/- 0.2%. These are useful in their own right to evaluate designs or communicate ideas, but can also be hand finished as master models for the vacuum casting process.

vacuum casting

Produces short runs of functional plastic components without the cost or delay of creating hard tooling. Resins ranging from soft gels to glass-filled rigid grades, can be colour-matched, tinted or crystal clear.

laser cutting and etching

Fast and accurate cutting of components from a wide range of materials. Gaskets, seals, stencils, signs and logos can be cut or etched, even monochrome photographic images can be permanently applied to surfaces.

design & development

From assisting with the design process to developing ideas and concepts from the very first stages, right through to production. We are happy to do as much or as little as your project requires.

design realisation

The process of developing a concept into a practical product. We can apply a wide-range of practical knowledge and know-how to help you turn ideas into reality.

computer generated 3D visualization

Photorealistic representations of your products for animation or print purposes. As well as the physical details, graphics can be 'mapped' onto surfaces to test visual impact and effectiveness. Offered as part of your project or as a stand-alone service.

3D scanning

Digitally capture the shape of existing objects or mock-ups without physical damage. Once scanned, the data can be used for on-screen reference, modified in CAD, or used to produce copies of the original at any scale.

2D - 3D CAD conversion

To turn drawings or sketches into on-screen virtual models; useful as stand alone visuals to communicate ideas and concepts, and an essential first step towards producing physical prototypes and products.

test rigs & demonstration units

We have a versatile and adaptable team of designers and engineers who can work with you to develop effective and innovative solutions to test and demonstrate ideas. From table-top items to giant test tank rigs or fit & function mock-ups to fully functional prototypes.

plastic fabrication

In acrylic, ABS, polycarbonate and most other engineering plastics. Plastics can be machined, heat formed, UV glued, solvent welded and polished to produce one-offs and small batches of parts for a variety of purposes.

light engineering

Turning, milling, welding and general metalwork, either as part of a project or as a stand-alone process.

traditional modelmaking & specialist finishing

Alongside modern computer controlled processes we maintain a core of skilled modelmakers and engineers who produce hand-crafted work of the highest standard. Whilst embracing the best that modern technology can offer, we recognize the role of traditional methods in the product development and prototyping process.

