



Stereolithography Room

## Specialist 3D printing, prototyping and low volume manufacturing solutions.

**Whatever the scope of your next project – from a single, simple component to multiple, large and complex parts – ARRK is here to help.**

ARRK provides a complete prototyping and manufacturing service, delivering high-quality solutions direct to your door... on time and on budget. Behind our world class service is over 70 years' industry experience and some of the very best technologies, materials and processes.

Our team of project advisers and co-ordinators consists of engineers and designers. All have extensive, first-hand experience of meeting clients' exacting requirements in the most demanding of timescales. The team is involved at every stage – from project costing to final delivery – ensuring a speedy and seamless service.

At ARRK we're proud to support clients from a wide range of industries including the automotive, consumer products, aerospace, medical, defence and telecommunications markets. All our clients – from individuals to large organisations – are important to us, and we pride ourselves on providing the same high standard of customer service for every project.

Employing proven technologies and processes, we can take your concept or design and bring it to life in just days. With access to a wide range of materials, we have an efficient, fast and effective solution that's right for you, whether it's a prototype to test form, fit and function or as a starting point for our downstream processes.

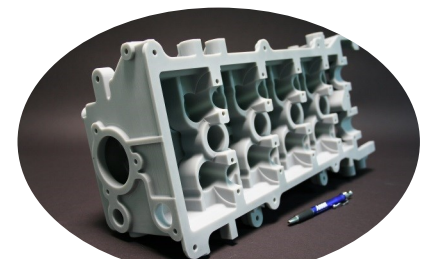
**CAD Support Services:** Our CAD team's technical knowledge and practical experience across a variety of CAD software allows us to work with and validate most file formats.

**Stereolithography (SLA):** Our stereolithography service is fast and flexible, and offers a choice of 3 different resins. With 10 SLA machines at our disposal, we are typically able to deliver parts within two to three days from acceptance of CAD data. Clients are able to choose from a range of materials, including water clear, white and Xtreme resin.

**Paint, Finishing and Texturing Service:** We operate an in-house full finishing, painting and texturing service.



Customer Service & Project Management



Stereolithography (SLA) built parts



Selective Laser Sintering (SLS)

**PROTOTYPING &  
MANUFACTURING SOLUTIONS**

**Selective Laser Sintering (SLS):** ARRK's SLS service provides tough, durable parts in as little as two to three days from data acceptance. Using **polyamide (PA)** or **glass filled nylon (GFN)**, SLS is particularly suited to functional testing in rigorous environments. Having 11 SLS machines at our disposal, including 3 sPro 60 HD-HS and a large frame sPro140 machine, we are able to offer customers extensive capacity as well as the ability to have larger parts built in one piece in GFN on our sPro140. Other materials available include nylon **EX**.

**Want a faster service?** Try our online quotation and ordering service for SLA or SLS parts. Visit <https://uk.ark.com/get-a-quote/>

**3D Metal Printing:** Providing printed metal parts with complex geometries, which are either not possible or not ideal through traditional machining methods.

**Digital Light Processing (DLP) & Liquid Crystal Display (LCD) Printing** also available.

**Polyjet Printing:** Materials available include; Vero White, Vero Clear & Agilus 30

**Continuous Fibre Fabrication**—offering parts in Carbon / Onyx materials

**Vacuum Castings:** Using an SLA or CNC master to create a silicone mould we are able to reproduce exact copies of your part in a choice of polyurethane materials. This process ensures consistent quality whether you need a small quantity or several hundred castings. This process is a perfect solution for low volume mouldings.

**Metal Plating:** ARRK offers an encapsulation / metal plating service with a range of coatings to enhance structural characteristics or to provide a certain cosmetic look. Components can be metalised in chrome, nickel or copper.

**CNC Machining:** We are able to offer customers a wide range of CNC machining options from our CNC centre in the UK, or through our network in the Far East. Our CNC service offers outstanding quality parts in metal or plastics.

**Block Modelling/Mock-ups:** ARRK are able to provide a variety of modelling solutions to suit your specific needs. From simple CNC machined components to fully functional, working models in a range of materials. Backed up by a first class finishing service, we really can bring your models to life.

**Sheet Metal Pressings:** Our metal pressing service is designed to deliver parts quickly. With an array of metals and thicknesses to choose from, ARRK is able to offer clients anything from just a few parts to hundreds of components. We offer a comprehensive service, from punching, stamping, drilling, insert pinning and embossing, right through to surface finishing.

**3D Scanning:** Our 3D scanning service optically scans objects, converting them into 3D CAD data. Ideal if your original CAD data is no longer available,

**Rapid Tooling & Moulding:** Delivering parts to your door in days. ARRK's Rapid Tooling service is designed to provide you with quality injection moulded components in real materials in the shortest possible timescales.

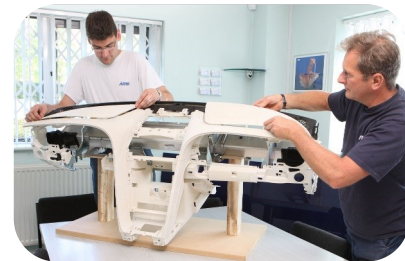
Injection Mouldings



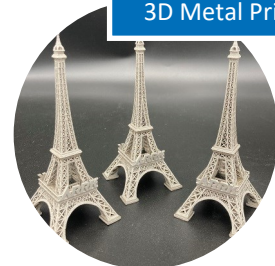
Rapid Tooling



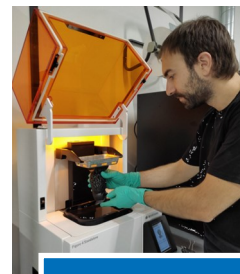
SLS Components, joined, finished & assembled



3D Metal Printing



DLP - Figure 4 Printing



Carbon /  
Onyx Parts



Vacuum Castings



CNC Machining



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MANUFACTURING SOLUTIONS**

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