



Specialist prototyping solutions for all your product development needs

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

ARRK provides a complete rapid prototyping service, delivering high-quality solutions direct to your door... on time and on budget. Behind our world class service is over 60 years' industry experience and the very best and latest 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 prototyping 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 seven different resins. With 12 SLA machines at our Gloucester facility alone, we are typically able to deliver parts within two to three days from acceptance of CAD data. Clients are able to choose from one of the widest ranges of materials available on the market today, including water clear, white, ABS simulant, and flexible resin.

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



Prototyping

Selective Laser Sintering (SLS): ARRK's SLS service provides tough, durable prototypes in as little as two to three days from data acceptance. Using Duraform polyamide or glass filled nylon, SLS is particularly suited to functional testing in rigorous environments. What's more, our EX material combines durability with fantastic flexibility, whereas our HST material offers enhanced component strength. Given the selection of materials we have, we'll have one that's right for you.



Z Corp models: If you need a quick, simple model produced in colour to give you a feel for your design then our Z Corp option is the perfect way to start.

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 specialist process, known as vacuum casting, ensures consistent quality whether you need a small quantity or several hundred castings. We are also able to cast big PU parts using our large-scale vac casting chambers or by using our Reaction Injection Moulding (RIM) process. This process is a perfect solution for low volume mouldings, especially for clients involved in niche automotive, aerospace, and medical industries.

Metal Encapsulation / Plating: ARRK offers an encapsulation / metal plating service with a range of coatings to enhance structural characteristics or to provide a certain cosmetic look. RP components can be metalised in Chrome, Nickel or Copper.



RP Carbon Wrap: Using SLS substrates we are able to quickly apply a carbon fibre material in a choice of colours.

Metal Castings: Our RPM process is ideal if you're looking for low volume or small production runs of die cast quality. From an SLA master we can produce parts in a fraction of the time normally associated with metal castings. We offer a range of aluminium and zinc alloys and can produce components to a minimum wall thickness of 1mm for most geometries. Components up to 400 x 400 x 250mm can be produced, depending on the weight of the castings. Post machining is also available through our CNC department.

Precision CNC Machining: As well as providing a post machining service for our foundry parts, our CNC service offers outstanding quality prototype modelling in ABS, modelboard, nylon, perspex and delrin.

Block Modelling: We're able to provide clients a variety of block modelling solutions to suit their specific needs. From simple CNC machined components to fully functional, working models in a range of materials that include ABS, acrylic, aluminium and steel. Backed up by a first class finishing service, we really can bring your models to life.



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, we can turn most projects around within one to two days, depending on the brief.

For more information, contact:

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