



From design to delivery

Our complete service offer
for technical moulding



Technical
Moulding

We've always been dedicated to producing top quality products delivered on time. We wouldn't have been in the market for over 70 years, if we hadn't. But did you know we offer so much more?

Did you know we can guide and assist you through every stage of manufacturing your plastic and rubber components?

From design concepts to delivering parts, as your supply chain partner, we aim to provide both commercial benefits for procurement and technical support for engineering.

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RTM1108



Rediweld Technical Moulding
6-9 Newman Lane Alton Hampshire GU34 2QR
t. 01420 543007 f. 01420 544090
moulding@rediweld.co.uk www.rediweld.co.uk/moulding

The need is there and the solution to the problem has nearly been reached. So how do you get your product from the drawing board to actual production?

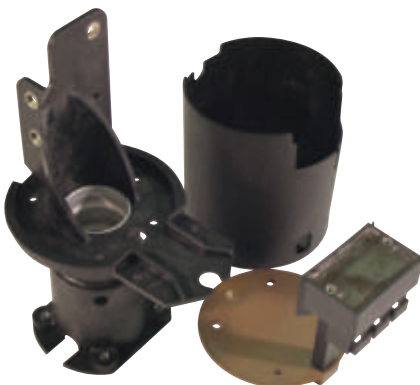


You need to work with a company who will understand and exceed your expectations. You need to work with people who can assist and advise you at every stage of your products development, meet the demanding deadlines that your industry sets and build a close business relationship.

There are many great reasons for choosing Rediweld.

If you are in a technology sector, we are focused on your needs. We specialise in low and medium volume production that meets the highest standards in product quality and delivery performance. We have learnt to achieve this through our core component moulding service.

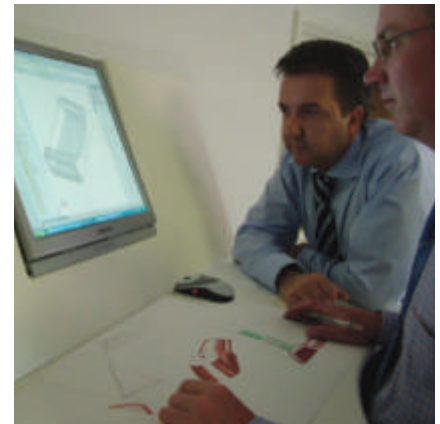
But this service is just one of a number of services which we are proud to offer as a direct response to customer needs.



- Design Concepts
- Product Introduction
- Component Moulding
- Machining & Finishing
- Assembly & Testing
- Parts Delivery

From design to delivery

At this important stage of product development, our materials knowledge and moulding experience can help your concepts become a reality.



Our Design Concepts service offers the support that Engineers need to achieve the right design solutions.

- In-house 3D design to model and visualise your components and their interaction
- Converting metal parts to plastics, reducing costs, improving performance and saving weight
- Guidance in material selection to meet your environmental, performance and cost requirements
- Advice on tooling options, component 'mouldability' and design for manufacture
- Analysis of component costs against tooling costs for given production volumes and component complexity.

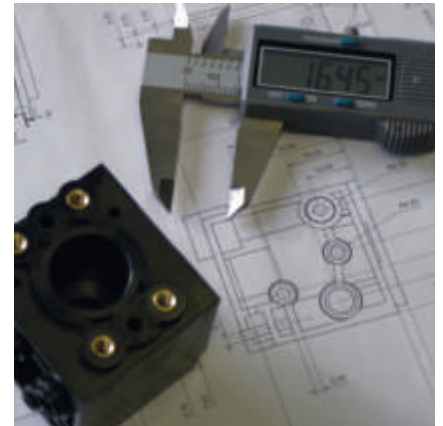
Case study **BAE Systems, Archerfish**

Rediweld has been closely involved in the supply of plastic parts and assemblies for the Archerfish Mine Disposal System. This began as the product went from the development phase into full production and aluminium components were being converted to plastics.

We provided technical support by 3D modelling of components and assemblies, recommending materials and reducing the number of parts. We project managed the manufacture of 14 tools, which were available 4 weeks ahead of schedule. Our relationship is on going with both Procurement, as production increases and Engineering, as more parts are converted.



With many different elements being performed against a tight schedule, introducing a product is about managing a project.



Sales Value by Sector



- Aerospace (41%)
- Defence (8%)
- Medical (9%)
- Fluids (28%)
- Other (14%)

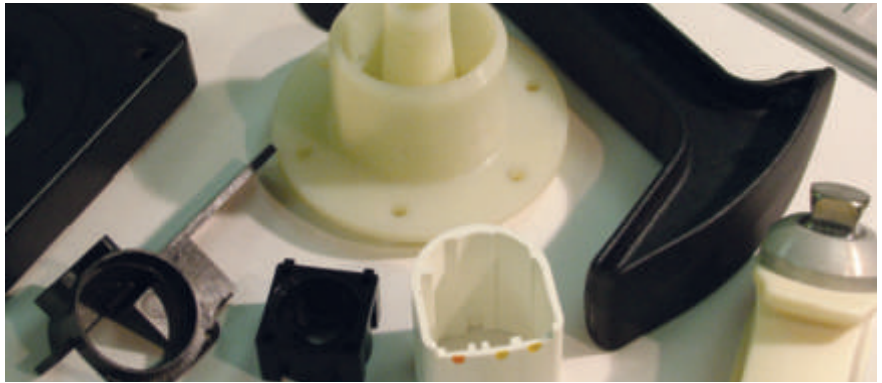
Our Product Introduction service offers the project management needed to meet these tight schedules.

- Prototyping a component so it can be visualised by all those in the project team and prove fit, form and function
- Reverse engineering that creates parts from existing or obsolete parts or where no records exist
- Tooling management to deliver the right tooling solution on budget and with sample parts on time
- Quality planning to ensure that your product meets all the requirements expected of it
- First Article Inspection reports for full dimensional checks on components with CMM, shadowgraph and other inspection equipment.



From design to delivery

At the heart of our business we are skilled moulders with capabilities in a range of plastic and rubber materials.



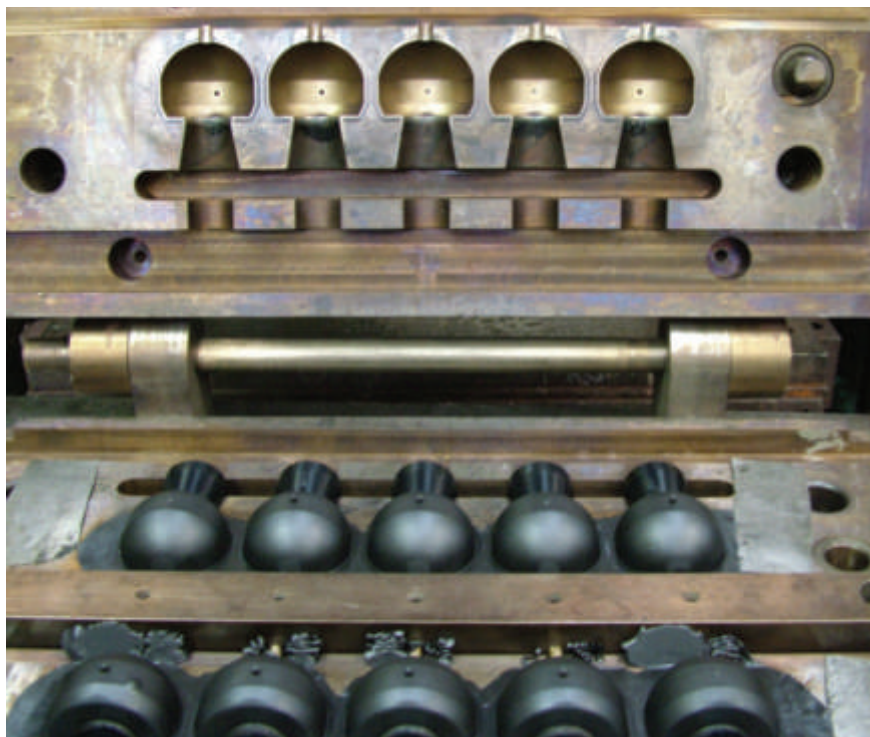
Our diverse plastic moulding service means we can offer a wide range of moulding possibilities and create bespoke components that meet your exact needs.

In plastics, our Component Moulding service offers:

- Thermoplastics injection moulding both horizontal and vertical in range 30-210 tonnes and Manumold low volume moulding of small components
- Thermoplastic low pressure moulding for low volume moulding of large components, up to 1500 gram
- Thermoset compression and transfer moulding up to 150 tonnes for Epoxy, Phenolic, DMC and SMC compounds
- Insert moulding with metal components and threaded inserts
- Over moulding for two material components
- Engineering grade and high temperature (PEEK, PPS) materials with glass, Kevlar, stainless steel and carbon fibre reinforcing.



It means we can provide you with a single source for all your moulding requirements.



From our experience of supplying technology sectors, we know our customers demand mouldings to exacting standards, in low volumes and on short lead-times. We have consistently met these challenges by adopting lean manufacturing techniques and looking for continual improvements in our operations.

In rubber, our Component Moulding service offers:

- Compression and transfer rubber moulding up to 175 tonnes
- Injection rubber moulding up to 150 tonnes, for components up to 600 gram
- Rubber to metal bonding with aluminium, steel and brass components and rubber to rubber bonding of fabricated products
- Seals and gaskets including fabric reinforced rubber, punched, cut or moulded
- Wide range of natural and synthetic rubbers, silicones and fluoroelastomers, in black and coloured compounds.



Case study Blatchford Products, Navigator Foot

Over many years the relationship between Rediworld and Blatchford, a leader in artificial limb components, has grown through the supply of both plastics and rubber parts.

The new Navigator Foot uses an advanced development of the well established Multiflex ankle joint. Rediworld has been involved throughout the project, initially with prototype tooling to test and refine the components. We then provided multi-cavity production tooling required for a complex rubber to metal bonding process.

We work in close partnership with our customer to maintain their technical lead and help bring new products to market quickly.

The attention to detail and accuracy of production continues after the moulding process.

We understand the need for precision with every component we produce.

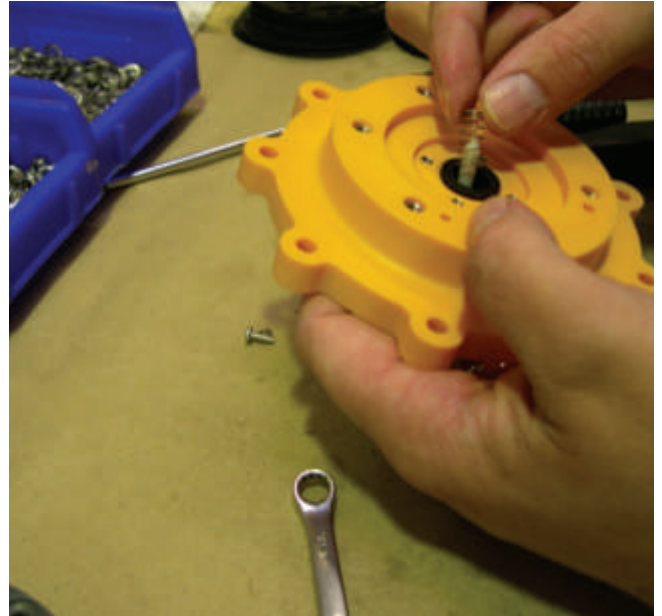
Once moulded, components often require machining or finishing. This might be to achieve a close dimensional tolerance or provide features that are impractical or uneconomic to produce from a mould tool. Alternatively, parts may need preparing for another process.

You will obviously want this service from the same company that produces your mouldings, which is why our Machining and Finishing service offers:

- Milling, boring and turning of components
- Drilling, tapping and threading
- Punching, cutting and bandsawing
- Deburring and deflashing of components
- Shotblasting with glass, alumina or plastic media
- Pressing and metal forming.



We perform a wide range of secondary operations that add further value to the services we offer.



This lets you choose the balance between outsourcing and producing in-house, which is a balance that sometimes changes during the life of a product.

Our Assembly and Testing service offers:

- Assembly of mechanical assemblies and sub-assemblies
- Bonding, fastening with screws, rivets and ultrasonic welding
- Inserting by pressing, threading, heat staking and ultrasonic inserting
- Priming, painting and coating
- RFI/EMI shielding
- Identification by printing, engraving and filling
- Cleaning with ultrasonic and solvent cleaning
- Testing components using mechanical, electrical and NDT testing.



From design to delivery

Our job is to
give you the
right parts
at the right
time.



To do this we must work closely within your supply chain systems. Inter-company communication is the key to developing the relationships with our customers that produces sustained success for them and for ourselves.

Our Parts Delivery service offers:

- Deliveries by Kanban and JIT delivery, call-off schedules and discreet orders
- Packaging tailored to meet your exact requirements for shipping, storage, shelf-life, recycling and cost
- Barcoding and labelling to comply with customers internal systems
- Kitting up for customers including free issue parts
- Storage of finished goods available for call-off and emergency response
- Flexibility to work with your ordering systems with e-commerce and customised web-based ordering
- Reporting with customised reports, such as weekly stock and outstanding order reports
- Traceability providing full material and product traceability.



Now that you know that we offer so much more, what can we do for you?

Let us be your supply chain partner and a single source manufacturer for your plastic and rubber components.



Quality Assurance

Rediweld is an ISO 9001 accredited company and we are committed to gaining AS 9100 accreditation. We believe in the importance of developing our skills and resources. Through continuous improvement, we aim to achieve the highest level of customer satisfaction.

Making a difference

At Rediweld we pride ourselves on the level of service we offer and the delivery and quality performance we achieve. In a competitive market, we know our strengths and we focus totally on the business relationships where we can genuinely add value to a supply chain partnership.

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