

prototypeprojects

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INJECTION MOULDING

In-house tooling and moulding for fast,
reliable product development



TOOLING AND INJECTION MOULDING FOR RAPID PRODUCT DEVELOPMENT

Injection Moulding is a highly effective way to produce repeatable, production-grade parts during product development. At Prototype Projects, tooling is designed and manufactured in-house, ensuring complete control over quality and lead times.

Our approach gives you faster turnaround, direct communication, and the confidence that parts meet the highest standards. It's particularly valuable in sectors such as biotech, diagnostics and medical devices, where accuracy, reliability and responsiveness are critical.

WHY INJECTION MOULDING

Injection Moulding provides a smooth transition from early prototypes to short-run production, bridging the gap before committing to full-scale tooling. It enables the production of functional, end-use parts that are suitable for trials, testing and clinical validation.

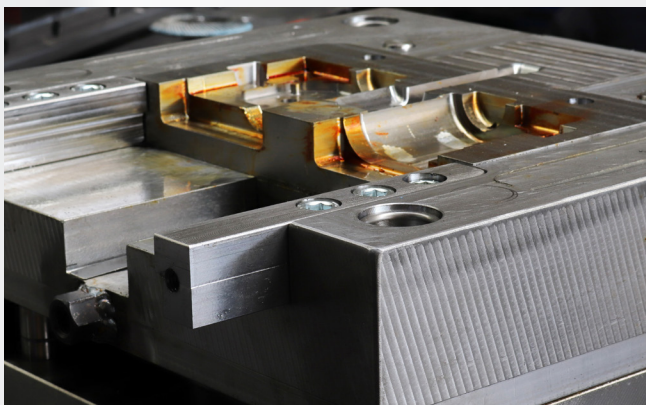
Because tooling and moulding is done all under one roof, we can adjust quickly to design changes, giving the flexibility needed in fast moving projects.

TOOLING AND PROCESS OPTIONS

Mould tooling is created in-house using CNC machining, which keeps quality high and turnaround times short.

Depending on the needs of the part, tooling can be made from aluminium for speed and cost-effectiveness, or from pre-toughened and hardened steel for greater endurance and repeatability.

Options such as insert moulding and overmoulding allow for the creation of multi-material components, while post-mould assembly can be included as part of the service for added simplicity and efficiency.



MATERIAL CHOICES

A wide range of thermoplastics is available to suit different applications.

Polypropylene is often selected for its chemical resistance and flexibility, ABS for toughness and impact resistance, and Nylon (PA6) for durability and wear resistance. Polycarbonate offers strength and transparency, while glass-filled and flame-retardant variants are available when enhanced performance is required.

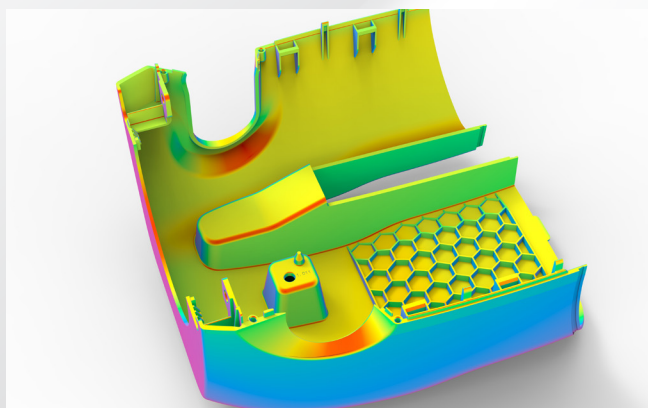
With so many options, the right material can be chosen to meet both functional and regulatory demands.

PRODUCTION CAPABILITIES

The moulding facility is equipped to deliver components quickly, with tooling and moulding carried out under one roof.

Very low shot weights, starting from as little as one gram, can be accommodated, which makes the process ideal for early-stage pilot runs and low-volume production.

Whether the goal is to validate a design, run clinical trials or produce parts ready for market, Injection Moulding provides a reliable and repeatable solution.



 [Learn more about Injection Moulding on our website.](#)

WE'RE HERE TO HELP

We recommend arranging a chat with us early in your process to help save you both time and money, especially if you're new to Injection Moulding.

We also invite you to take the tour of our facilities in Royston. Simply get in touch with our Business Development Team.

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QUICK LINKS

We have a wealth of information on our website. Here are links to some of the most useful content you may need.

- [Process datasheets](#)
- [Material datasheets](#)
- [Policies, forms and certificates](#)

We also have a [Learning Hub](#) where we answer frequently asked questions, as well as our [blog](#). Both are regularly updated.

REQUEST A QUOTE

Ready to go? [Request a quote](#) via our website.



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