

## Our Service

End-to-end plastic injection tooling and moulding service.

## The Industry

Oil, gas & mining industry

## Our Client

Specialised Engineering Products (SEP) globally renowned and respected precision engineers. Supplying multiple industries; from Aerospace, Nuclear, Defence, Oil & Gas to Pharmaceutical, Marine & Petrochemical.

## Our Mission

To take on the outsourcing and enable mass production of SEP's Fingersaver – a product they'd originally developed and produced in-house.

To enable the client to keep up with a rapid escalation in product demand.

To be a collaborative supplier who could dig deep; test materials, analyse results and trial products in order to find the right solution.

*Tenacious in spirit, the [BEC team](#) were up for the challenge!*

For help with your next specialist plastic injection moulding project:  
**Call us: 01425 613131**



## Our Customer's Feedback

"BEC worked with us to resolve a number of issues and provided an exceptional end-to-end plastic injection moulding service, from under one roof. Being local meant we could visit them regularly, giving us visibility at every stage of the project, making problem-solving quick and easy."  
Martin Dennis, Specialised Engineering Products (SEP)

## Our Solution

As is often the case with new product development we had to make a few adjustments to resolve issues during production. SEP and BEC worked together to carry out capability studies, proving without doubt that a material change and some modifications to the tool would give a more consistent product within tighter tolerances.

Following a series of material trials after testing; **Acetal** gave the best results. Both moulding trials and the entire manufacturing process undergoing rigorous inspection every step of the way.

### Collaborative Problem Solving

Thanks to both SEP and BEC teams working together so successfully, we were able to resolve a number of issues and share learning on both shopfloors during the project. Adjusting the tool, adapting the moulding, de-risking and speeding up the assembly process.

As a local manufacturer, offering an end-to-end plastic injection tooling and moulding service in-house, we were able to work as an extension of SEP's own R&D team, so Martin could visit us at regular intervals to sign off each critical stage.

We also provided a spark eroding service - invaluable since they're hard to find these days - especially one that's integral to a fully functioning toolroom. Everything SEP needed in one place!

## The Result

By making the injection mould tooling; **2 x mould tools – 1 for the washer (4 cavities) and 1 for the handle (2 cavity tool)** and injection moulding the Fingersaver components, we were able to meet SEP's requirements.

As for **new product introduction**? We helped SEP develop a brand-new, highly successful product, mass produced to meet increased demand.

**Fingersaver**: this innovative safety aid is now standard issue with major suppliers on their refineries & oil rig safety practice, worldwide. Protecting maintenance operatives from all-too-common injuries to fingers and hands. A true example of **#plasticsforgood**

## Making your plastics better