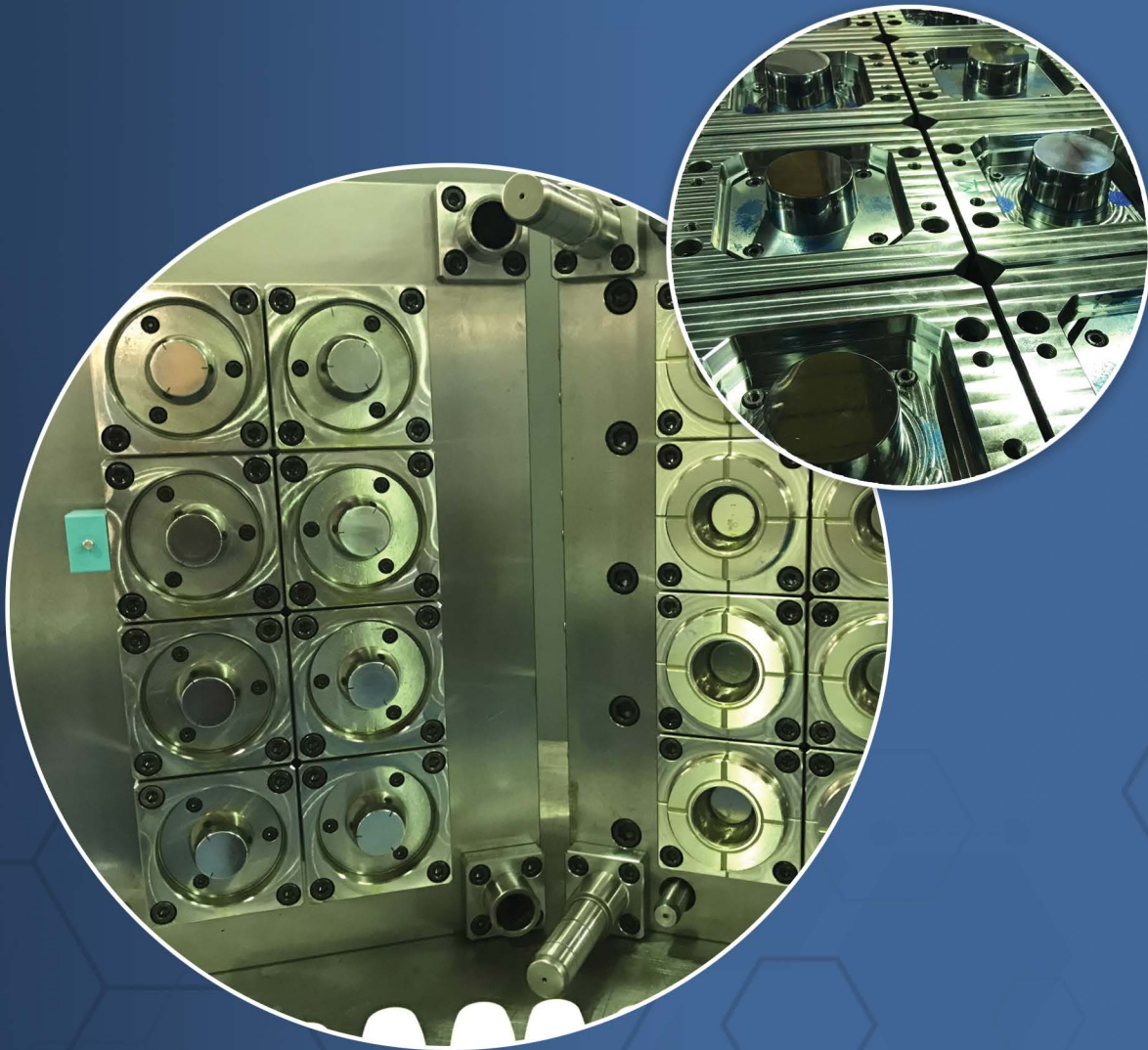


# NEPTUNE INJECTION

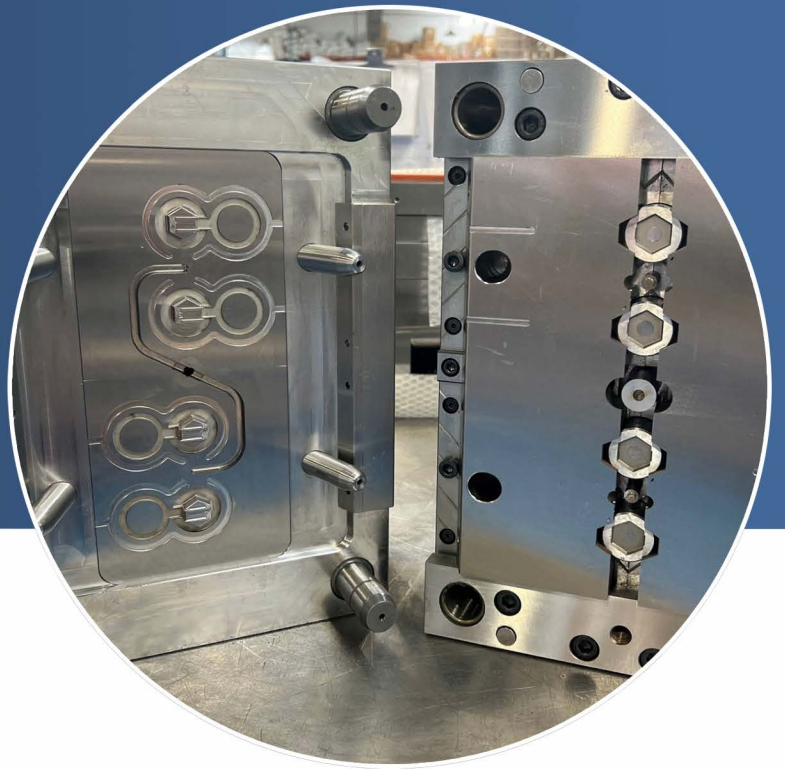


**Specialists** in mould tools and mouldings

[www.neptune-eng.co.uk](http://www.neptune-eng.co.uk)



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## Who are we...

At Neptune Injection we pride ourselves on our reputation for quality and flexibility.

Over the last 50 years we have evolved and grown to become one of the UK's leading Injection Moulding and Mould Tooling companies. Our new facility in Stevenage, Hertfordshire, employs the latest technology and techniques to complement our experienced and talented workforce. We have a wealth of knowledge in precision engineering, mould tool manufacture and injection moulding.



## Neptune Injection Limited

- State of the art manufacturing facility
- 20+ experienced staff
- ISO accredited 9001:2015
- Extensive and modern plant list
- Lights out manufacturing
- Serving a multitude of industries
- Competitive lead times
- From prototype to batch production
- Own in house design team

Neptune Injection • Bowmans Trading Estate, Bessemer Drive, Stevenage, Hertfordshire SG1 2DL

**TOOLMAKING • INJECTION MOULDING • LASER WELDING**

# TOOLMAKING

Offering exceptional lead times

## PROTOTYPE AND FULLY HARDENED TOOLS

We pride ourselves on being one of the UK's leading injection mould toolmaking companies; our well equipped tool room uses the latest CAD/CAM software which directly links to our CNC machinery offering a seamless design and manufacturing process and service.

We offer exceptional lead times on both prototype and fully hardened production tools – working closely with our clients throughout the entire project; ensuring the best results time after time.

## Our expertise encompasses

- Single impression moulds
- Small, quick change modular tooling
- Complex multi-impression hot runner moulds
- Accredited to ISO 9001:2015
- Serving a wide range of industries
- Subcontract tool trials and test facilities
- Single and multi-cavity tools
- 3 tonne capacity



Our new facility in Stevenage, Hertfordshire is equipped with quality in mind and ongoing investment improves reliability and performance.

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# INJECTION MOULDING

Renowned for quality and flexibility

## SPECIALISING IN PRECISION MOULDINGS

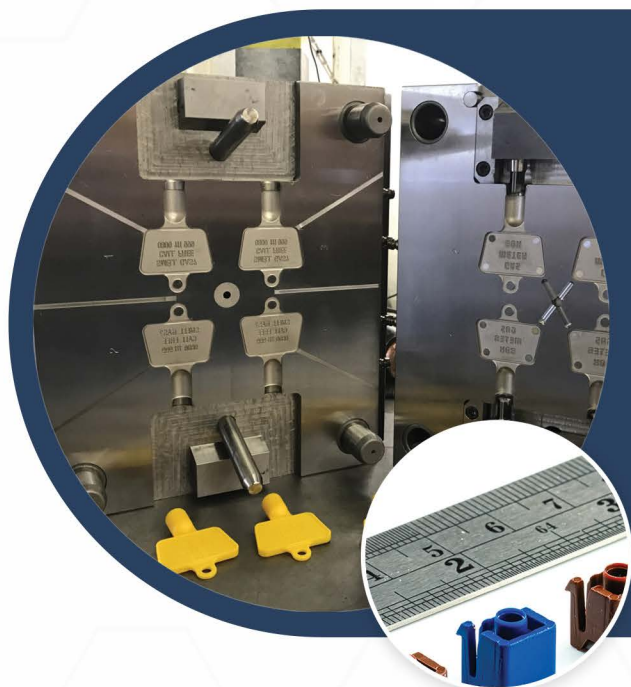
At Neptune our moulding machines are all processor controlled and range in clamp size from 40 to 200 tonnes, with the ability to mould components weighing just fractions of a gram up to 450 grams.

Our core business is catering for low volume production runs, however we are still keen to discuss projects that run into medium or higher volume as we may be able to offer a solution.

A major plus point for our clients is that we are still willing to take on complex overmoulding and manual moulding which many of our competitors are reluctant to accept.

## Key information

- High temperature injection polymers such as PEEK, PPS PSU.
- Small batch up to full production
- Impressive and modern plant list
- Demag and Arburg moulding machines
- High customer retention
- Serving a varied range of industrial sector
- Press range 40T – 200T
- Tool trials
- Over Moulding



## Post moulding operations include

- Ultrasonic plastic welding
- General assembly
- Printing, labelling and packaging
- Vacuum testing and force testing
- Stockholding for fast call-offs
- Subcontract tool trials and testing

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# PRECISION ENGINEERING

Manufacturing bespoke architectural products and fittings

## OFFERING PRECISION MACHINED INSERTS

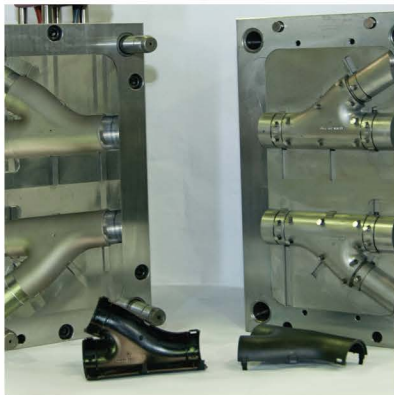
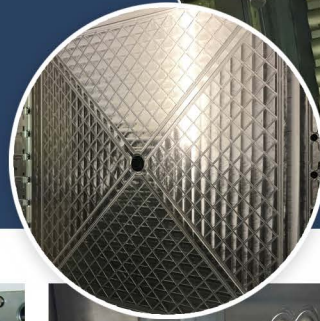
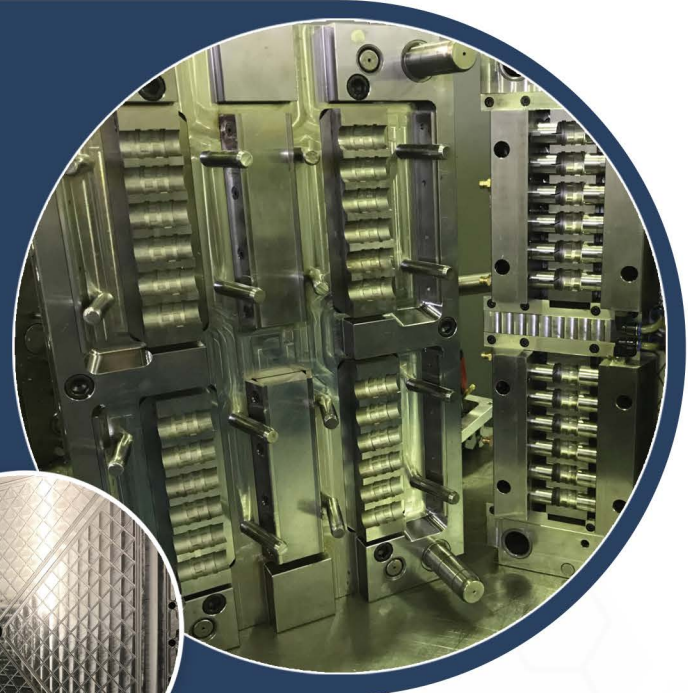
Our capabilities are extensive and part of our service offering includes the manufacture of precision machine inserts – from prototypes and singles to full batch production.

We have an impressive portfolio of clients that have benefitted from our bespoke architectural products and fittings. In addition to this, many of these clients have employed Neptune Injection for our restoration service.

We also offer subcontract grinding; both surface and cylindrical. We have optidress facilities on our surface grinders.

### Specialities include:

- Stainless steel
- Aluminium
- Engineering plastics



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# SERVICE REPAIR

Handling facilities of up to 2 Tonnes

## NATIONWIDE PICK-UP AND DELIVERY FOR SERVICE AND REPAIRS

We understand that strong logistics are a key-factor in the smooth running of all businesses; especially when reliance on lead times in the supply chain can make or break a project. With this in mind, we offer nationwide pick-up and delivery for tool servicing and repairs. Taking the pressure off your team and leaving you with peace of mind that your mould tools will be serviced and returned within the agreed timeframe.

We have a 2 tonne handling facility so we can take on most projects with ease.

**We also offer** tool planned maintenance (TPM) for pre-scheduled tool servicing, including:

- Collection and delivery
- Full tool strip down
- Cleaning of all inserts to remove all gas and debris
- O-ring change
- Visual evaluation for damage and wear

On completion the customer is advised of any repairs needed or maintenance that needs to be scheduled.



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# LASER WELDING

Employing the latest laser welding technology

## REPAIRING MOULD TOOL CAVITIES AND CORES

We offer a sub contract laser welding service, which can be whilst you wait or by appointment. We understand how essential fully functional mould tools are in the high speed environments we all work in; our service aims to get you back in action in the fastest time possible.

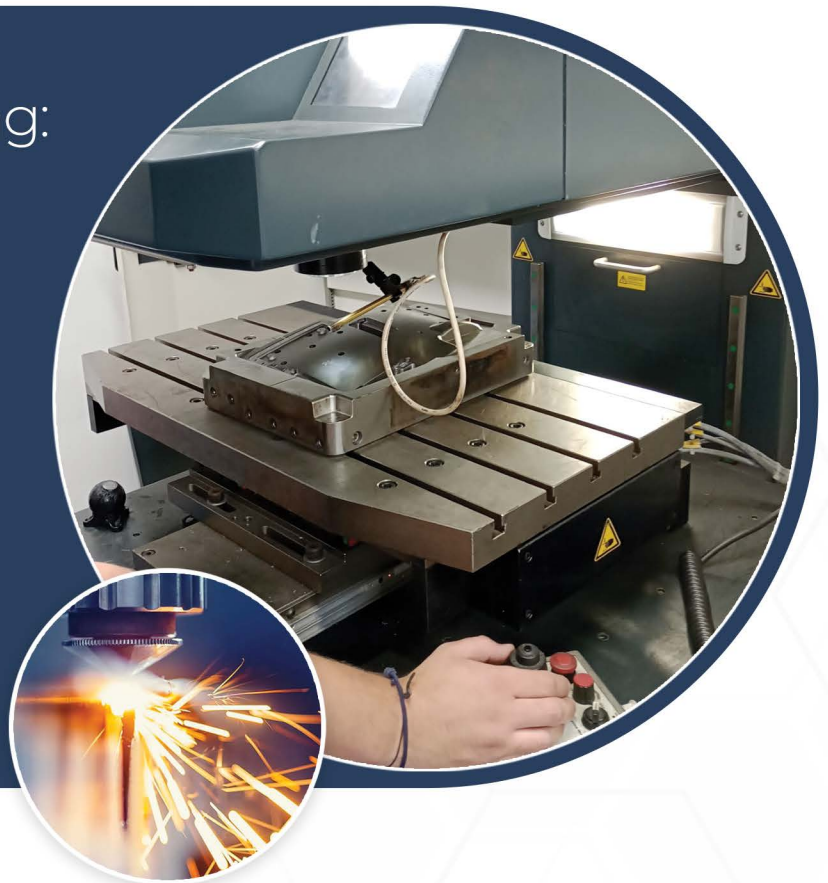
Laser welding is the best and most efficient way of repairing damage on injection mould tool cavity and cores, without having to remake or insert areas. We can add the same base material filler rod as the cavity / core inserts and weights range from a few grams to 500KG.

This process generates very little or no heat at all to the component which reduces any distortion that previously would happen with conventional welding, therefore able to weld the smallest detail – The technology we employ allows the finest tolerances; down as small as 0.2mm

A major plus point for our clients is that we are still willing to take on complex overmoulding and manual moulding which many of our competitors are reluctant to accept.

### We can weld the following:

- All types of mould tool steels:
  - 1.2311 (P20)
  - 1.2343 (H13)
  - 1.2767
  - 11.2083 (stavax)
  - 1.2379 (D2)
- Aluminum
- Titanium
- Nickel base alloys
- Cobalt base alloys
- Cobalt base alloys that include Aluminum bronze and beryllium copper.



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