



aerospace

the unseen advantage

A leading **global** manufacturer of  
custom rubber seals, gaskets and mouldings  
for the **aerospace** and **defence** industries

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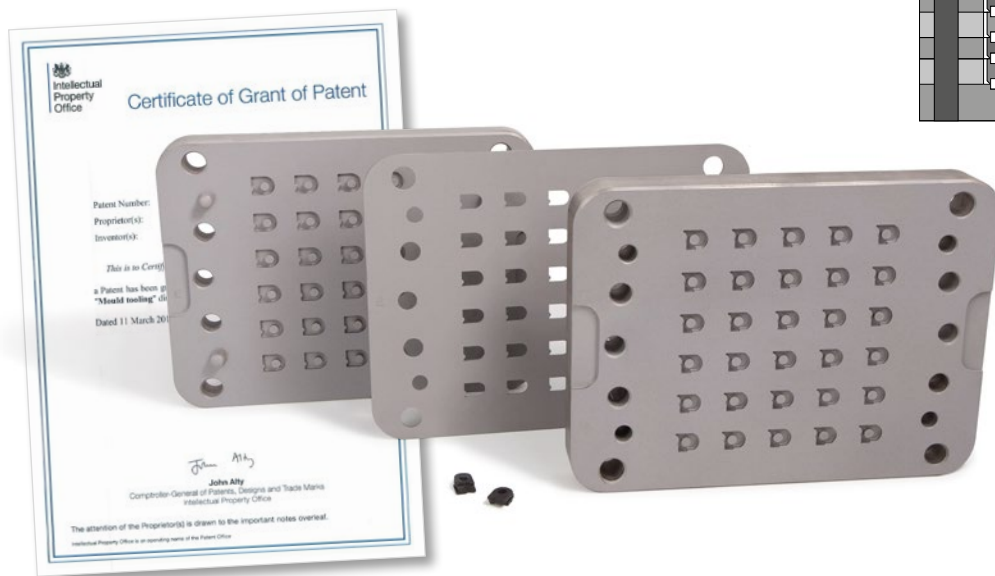
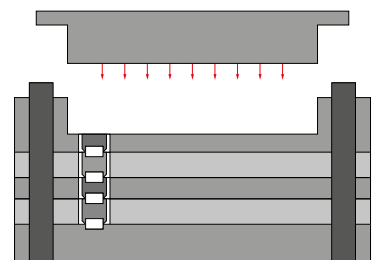


A strong heritage and future

DP Seals is a leading manufacturer of custom rubber seals, gaskets and mouldings for the global aerospace market. The company has been operating for more than 45 years with a mission to produce **specialist custom mouldings for like minded innovative engineers.**

Our vision for the future is to expand and push the boundaries of what is possible in our industry by:

- Continuous growth
- Improving facilities and systems
- Conducting and investing in manufacturing techniques and new innovations
- Leading the market for quality control procedures
- Building on our unique, patented tooling process to create the highest quality moulds and tools









**A world renowned reputation**

DP Seals is a leading aerospace moulding supplier to engineering teams of **military and civil, fixed and rotary wing aircraft across the globe.**

This list includes passenger aircraft and jets for companies such as:

- AVIC
- Airbus
- BAE
- Boeing
- Bombardier
- Collins Aerospace
- Eaton
- Fokker
- Meggitt
- Rolls Royce

**You can rest assured that you'll be in good company with us!**





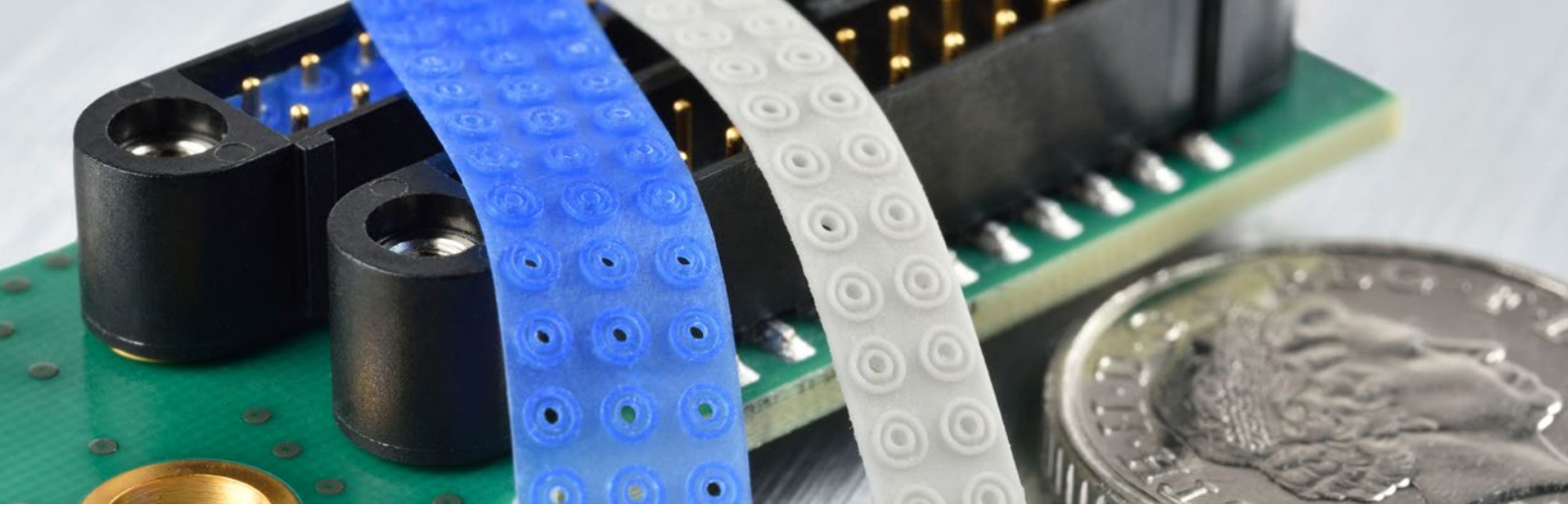


## Custom seals, gaskets and mouldings

All our parts are produced to the **highest levels of precision and quality** with innovative and effective solutions. These cover a comprehensive range of applications from galley seals to anti-vibration missile mounts. Other aerospace gaskets and mouldings examples include:

- Diaphragms
- Rubber to metal bonded parts
- Fire Shut-off Valve Seals
- Check Valve Seals
- Ball Valve Seals
- Aerial Refuelling Transfer Pump Seals
- Feed, Scavenge & Transfer Jet Pump Seals
- Fuel Pump Seals
- Aerospace O-rings such as FRS & FRH types
- HTE Seals





## Innovative custom solutions

As a custom manufacturer we love a challenge more than most. We help our customers with demanding features such as:

- Complex sub-millimetre detailing
- Electrical insulation
- Co-moulding of conductive and non-conductive materials
- High reliability protection against fluid ingress
- Specifying bespoke materials to survive extremely aggressive environments
- Mouldings that enhance performance, simplify cleaning and maintenance

Top engineering teams across the world choose us because our depth of experience and expertise place us firmly at the forefront of our industry.

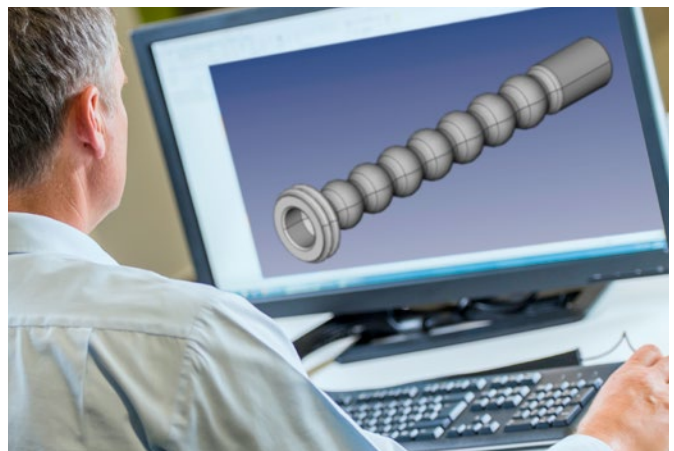




Our **dedicated Aerospace facility** provides our customers with unrivalled experience and expertise from product advice, material specification, product enhancements and prototyping right through to manufacturing.

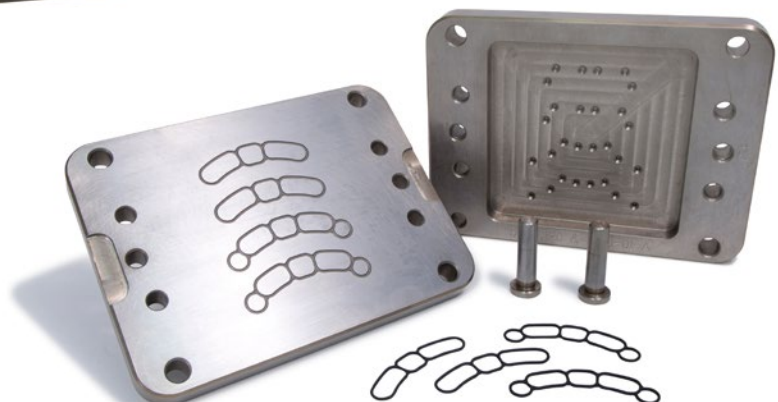
### CAD Support

We offer CAD support and co-operate with engineers to add value to this stage of their project.



### 3D Printing and Prototyping

Following on our 3D printing and prototyping service helps us identify faults early. In addition it can help visualise the end result and speed up the pre-manufacturing process.





## Tool and mould making

Whether we are producing **one-off mouldings for prototypes, or multi-cavity moulds** for mass production, our busy in-house tool room benefits from having the latest rubber mould tool technology.

Operated by dedicated and highly trained staff all CNC machinery is directly linked to our CAD centre, closing the link between client engineering drawing and custom tooling. This eliminates any area for potential error.



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## Materials expertise

We are experienced in using **AMS and DTD specification materials** and these are readily available in-house. We stock a large range of quality raw materials enabling us to offer fast turnaround to tight deadlines.

In addition we also specialise in providing customised rubber solutions to customers seeking extreme performance without an extreme price tag. This includes **expertise in the production of exciting new materials**, putting us at the forefront of custom rubber moulding, and enabling us to specify exactly the right blend for your requirements.



## Phenolic Resin Mouldings for Aerospace

Thanks to the unique flexibility of our patented moulding system, DP Seals are able to produce complex and highly detailed mouldings using Phenolic Resins. Typical use would be in the aircraft interior where it is used widely but also in jet engines, rocket nozzles and missile defence systems.

## Rubber to metal bonding

Our reputation for innovation and materials expertise has proved invaluable in the production of bonded seals and mouldings. You can expect unrivalled materials knowledge and in-tool moulding expertise when you partner with us. This is especially true where high performance and longevity in hazardous environments are of paramount importance.



## Cryogenic cleaning

Our fully-automated CNC- controlled cryogenic deflashing machines are some of the most advanced of their kind in the world. They make the essential cleaning process faster, more efficient and effective by freezing components to their 'glass temperature' Tg. Then by blasting parts with polycarbonate beads any brittle flash is removed.

## Fluorination

By partnering with experts in the use of gas phase fluorination, we are able to achieve precision modifications to the surface properties of plastic, polymers and rubber. This helps us reduce friction and enhance a number of other characteristics in even the smallest and most complex of components.



We are committed to quality and safety to help our customers meet the strict standards required in the aerospace industry. This starts internally with our approach to the health and safety of our people. All staff are provided with information, instruction, training and supervision to safeguard their health and safety. As such all employees contribute towards making the work areas as safe as possible and ensuring the safest practical methods are adopted.

Our Total Quality Management approach to quality control is second to none. DP Seals was one of the first custom rubber moulding companies in the UK to achieve **ISO 9001** accreditation. This was soon followed by **ISO 14001** and **ISO 45001**. Since 2009 we have had the top aerospace manufacturing accreditation **AS 9100 Rev D**.

As a demonstration of our commitment to quality we consistently operate at an actual defective parts per million (**DPPM**) of **below 200**.







## Cost-effectiveness and value

We work closely with our customers to deliver cost-effective solutions and add value to every phase of production. Custom materials and parts can often provide a more efficient solution due to longer life, reduced maintenance and operational costs. On top of this they can also deliver greater sealing surface, lower friction and improved quality of finish.

Our project managers ensure budgets and capacity plans are managed efficiently and as such we have some of **the best on time delivery rates in the industry**, consistently operating **above 98.5%**.





Environmentally friendly

We have **ISO 14001 Environmental Management approval** which demonstrates our commitment to reducing any actions that have an adverse effect on the environment. We aim to prevent pollution, fulfil our compliance obligations and save natural resources by operating in the most environmentally efficient and friendly way, recycling and reusing where practical.





Choosing the best partner for your project can be a key factor in its success. So when you decide we're the people for the job, what can you expect from us?

### **On time, every time**

- In-house project management to keep things on track
- On-line data exchange and CAD/CAM links to speed up communication
- In-house tool room for faster production
- 3D printing of prototypes to speed up testing and quickly iron out problems

### **Quality without compromise**

- One of the UK's first custom rubber moulding manufacturers to achieve ISO 9001 and AS9100
- Accredited to ISO 14001, ISO 45001, AS 9100 Rev D and BAE systems approval
- Unique closed cavity moulding process
- Automated cryogenic cleaning systems for flashless mouldings

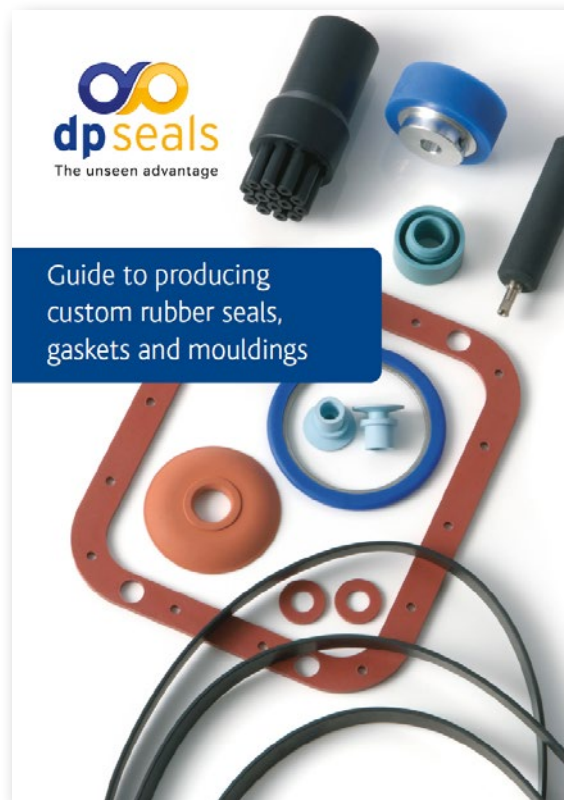
### **Specialist expertise**

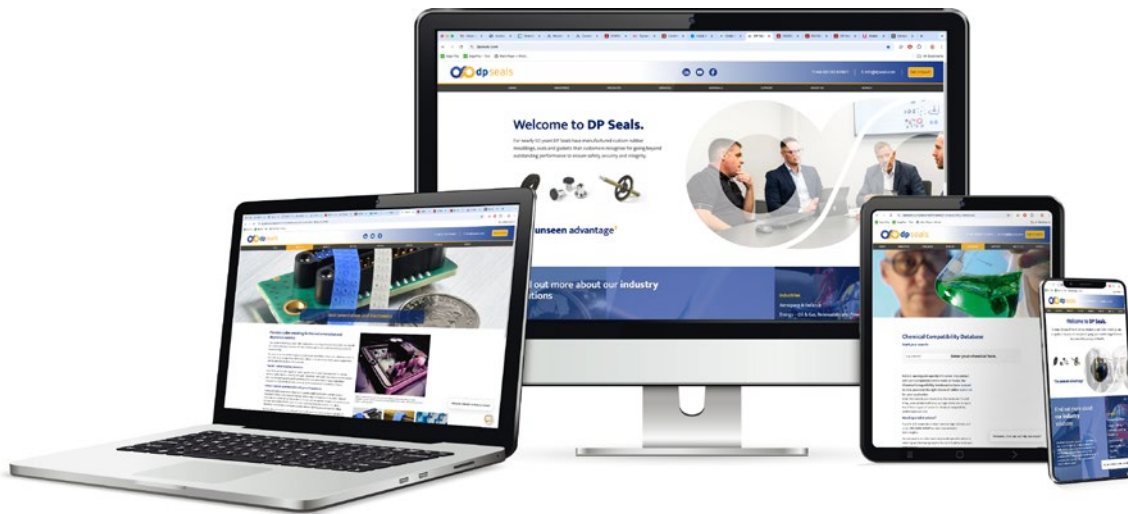
- In-house tool making and complete manufacturing process to solve your most difficult issues
- Unrivalled materials expertise in advanced rubber technology for extreme environments
- Pioneers in precision moulding extremely soft rubbers down to 10 Shore
- In-tool rubber-to-metal bonding



## Added value, extra support

- Chemical Compatibility web app to help you check rubber material suitability
- Unique Guide to custom rubber seals to broaden your knowledge still further
- No obligation, expert advice from our materials technologists





[www.dpseals.com](http://www.dpseals.com)

If you want your product to be the best it can be,  
manufactured to the highest quality using materials  
guaranteed for the application and operating environment  
- and delivered on schedule -  
**talk to us today.**

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