

# Company Profile

Founded in 1962, Fluorocarbon is a leading innovator in Fluoropolymer products, and specialises in the design and manufacture of Semi-Finished Products, Complex Machined Components, High Performance Sealing Systems, Structural Bearings and High-Performance Coatings.

With customers who are worldwide leaders across many business areas, Fluorocarbon ensures its products and services are focused on meeting the increasing technical demands of extreme environments.

The Fluorocarbon Group has manufacturing sites and sales offices in the UK, Europe and Asia and partners globally.

We aim to offer our customers cost-effective solutions at the highest quality from material selection, manufacturing, and distribution.

Our solutions have been installed in more than 60 countries and across all continents.


## QUALITY





With a quality management system certified to ISO 9001 and ISO 14001, every level of our organisation is focused on satisfying and exceeding the needs and expectations of our customers.

Emphasis is placed on quality throughout the production process, commencing with incoming raw materials, through manufacture, and concluding with inspection and delivery of the finished product.

Using a modern, qualified laboratory, we offer traceability on all products and materials and ensure the highest quality finish.

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**FLUOROCARBON**

# Machining Capabilities

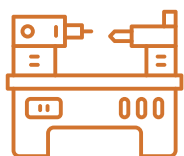
Offering a comprehensive range of high-performance plastic machining capabilities ranging from PTFE, PEEK, PFA, FEP and Nylons, to Ferrous and Non-Ferrous metals and other specialist materials.

We can provide the flexibility of manufacturing one off development prototype components to volume production batches.

Our facilities hold a variety of machines and tooling to support the polymer and metal machining of customer requirements, from conventional machining to CNC machining to Milling, Turning and Grinding



## TURNING



The turning department holds several lathes from conventional machines including CNC lathes with bar feeders to support volume production to lathes with live tooling and 5-axis, to support the manufacture of cost-effective turned/milled components. With capabilities from 2mm to over 1500mm, we offer 3D milling that is supported by the latest CAD/CAM connectivity.

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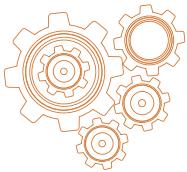


## MILLING

The milling department has the capability of machining both simple and complex components on its CNC 5-axis machines and vertical centres, with the ability of machining relatively small components to large and complex-shaped components covering a range of up to 1300 mm x 650 mm. (see table for full range)



## ASSEMBLY CAPABILITIES



The manufacturing department not only has the capability to machine components to drawing but can also provide a service of assembling machined components into sub-assemblies or final assemblies to support customer requirements.

## GRINDING

We offer grinding services, providing high surface quality and narrow tolerances that produce round rods that are easily further processed and are suitable for continuous production processes.



## DE-BURRING



We provide a deburring service, eliminating the flash that can remain after milling, grinding, or turning. Deburring improves the quality of the surface of finished components.

Our products are inspected using the latest models of 3D coordinate measurement machines and Visio equipment which can give you a fully dimensional report by scanning the product.

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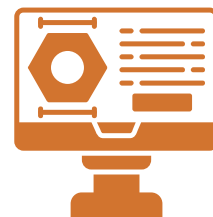




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## PRODUCT DESIGN & CAM-CAD SOLUTIONS

With a lot of experience in the market we can offer you other services such as: Product Design and modelling using CAM software for simulating the product and generating the program for any type of CNC. Our engineers can give you the proper solution for your application.



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#	Name of the equipment	Description	Capacity DIA - Length	
			Min	Max
1	CNC Turn/Mill Lathes	X, Y, Z & C + sub spindle and B Axis	Ø376 mm	760 mm
2			Ø205 mm	560 mm
3	CNC Turning (2 axis)	X and Z Axis - Lathe	Ø350 mm	330 mm
4		X, Z and C Axis -Lathe	Ø376 mm	760 mm
5		X and Z Axis - Lathe	Ø300 mm	500 mm
6			Ø400 mm	760 mm
7	Turning		Ø390 (Ø240)	1200 mm
8			Ø535 (Ø370)	1500 mm
9	Milling		1066 mm x 230 mm x 406 mm	
10	CNC Milling Machines	3+2 Axis Capability / Vacuum Plate	1300 mm x 670 mm x 625 mm (3 axis)	
11		Twin Spindle	1500 mm x 1200 mm	
12	CNC Machines	X & Z Axis	320 mm	
13		X, Z & C Axis	250 mm	
14		X & Z Axis	320 mm	
15		X & Z Axis	250 mm	
16		X, Z & C Axis	400 mm	
17		X & Z Axis	170 mm	
18		X & Z Axis	360 mm	
19		X & Z Axis	250 mm	
20		X & Z Axis	290 mm	
21		X, Z & C Axis	230 mm	
22		X & Z Axis	1500 mm	
23		X & Z Axis	700 mm	
24		X & Z Axis	600 mm	
25		X & Z Axis	X: 1060 mm Y: 500 mm	
26		3 axis Mill	320 mm	
27		X, Y, Z & C + sub spindle with B Axis	300 mm	600 mm
28	10 Axis	32 mm Max		
29	Manual Machines	X & Z Axis	250 mm	
30		X & Z Axis	320 mm	
31		X & Z Axis	400 mm	
32		X & Z Axis	800 mm	
33		X & Z Axis	1200 mm	
34		X & Z Axis	1600 mm	
35	CNC/Manual Milling Machines	XYZ	X: 1350 mm Y: 280 mm Z: 400 mm	
36		XYZ	X: 1016 mm Y: 775 mm Z: 400 mm	

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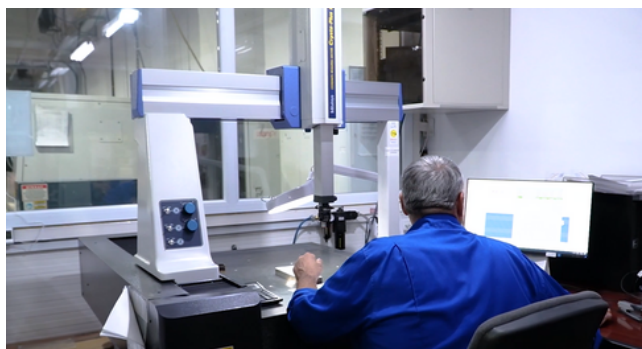


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## RESEARCH AND DEVELOPMENT

Using our strong relationships with worldwide partners we offer engineering solutions tailored to suit specific applications.

- Advice on materials selection from our range of over 500 grades of material
- Development of special products for which no standard products exist
- Adaptation of existing products to meet new requirements
- Development and improvements to manufacturing capabilities
- On-site consultations
- Non-disclosure & Joint development agreements
- State-of-the-art CAD/CAM technology
- Product Design Capabilities
- Laboratory testing, including polymers physical properties testing



## LABORATORY EQUIPMENT

Offering design, development, and laboratory testing facilities to handle projects from concept to full-scale manufacture, our team of qualified R&D engineers and material specialists carry out ongoing new material and product development projects.

- Tensile Testing Machine
- Thermogravimetric Analysis (TGA)
- Tribometer
- Microscope
- Differential Scanning Calorimetry (DSC)
- Dynamic Mechanical Analysis (DMA) full-scale
- Coordinate-Measuring Machine (CMM)

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