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07/10/2025

The Leading Edge

Welcome



Polar Technology is an engineering business operating at the leading edge of composite and metallic technology. Our vision as a business is to create enabling technologies for a safer, sustainable future for us all.

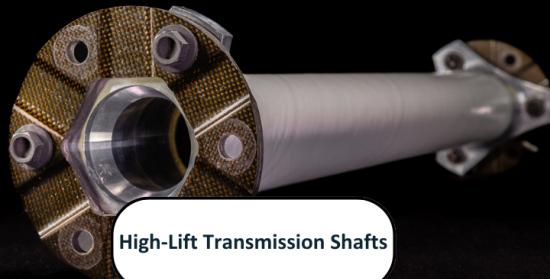
We deliver innovative, technology-based solutions around advanced composite materials, emerging metal processes and metallic fabrications, through our brands Lentus Composites and SST Technology, from the Horizon Technology Park in Oxfordshire, UK.

In this latest edition of our quarterly newsletter, we will focus on our *Advanced Mechanical Power Transmission* product theme and highlight our recent business updates, which include another award win, a round-up of the DSEI event at the Excel and a look ahead to our own event in November.

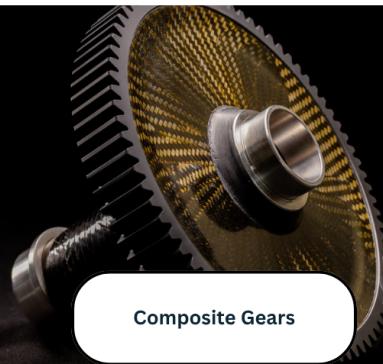
Please read on to find out more...

Visit our website

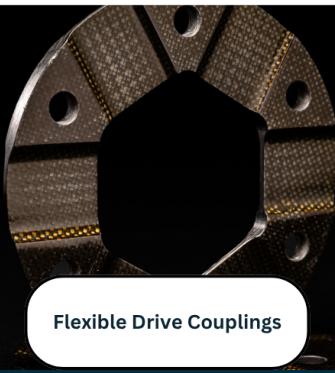
Product Spotlight: Advanced Mechanical Power Transmission



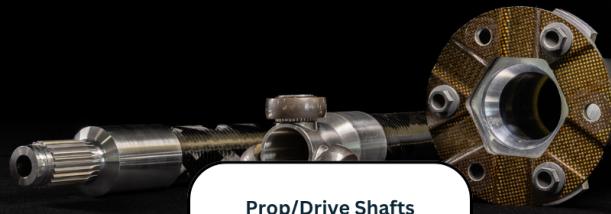
High-Lift Transmission Shafts



Composite Gears



Flexible Drive Couplings



Prop/Drive Shafts

We are experts in specialist lightweight, energy-efficient transmission components, suitable for integration within an aircraft engine, automotive and motorsport vehicles and rail applications.

Our patented mechanical interface removes reliance on adhesives and can subsequently deliver high speeds and high torques with infinite durability.

Our Product Portfolio includes:

- **High-Lift Transmission Shafts**- We produce transmission shafts that are designed to operate at extreme speeds and torques with infinite durability
- **Composite Gears**- Engine spur and planetary gears, which are dimensionally stable in high-speed, high-torque operating conditions.
- **Flexible Drive Couplings**- Our composite drive couplings eliminate fatigue and fretting often seen in metallic equivalents.
- **Prop/Drive Shafts**- We can tailor stiffness, weight and torque carrying capability, to accommodate specific requirements.

Find out more

Business Updates

Selected as 2025 Trailblazer



We are delighted to announce we have been selected as a 2025 Wired Trailblazer by WIRED Magazine and HSBC UK.

Now in its fourth year, this prestigious award celebrates the UK's most innovative businesses and is building a community of fast-growing scale-ups tackling today's social, economic, and environmental challenges.

A Great Week at DSEI



It was a pleasure to exhibit at the UK's leading defence event, DSEI, from the 9th-12th September, at the Excel.

We were proud to showcase our enabling product portfolio for the defence industry and take the chance to meet with new and existing contacts and explore exciting new opportunities.

If you spoke with us at the show and wanted to follow up, please email george.brown@polartechnology.co.uk

Our Member Networking Event- Now Sold Out!



We will be hosting a Member Networking event, in partnership with **Make UK Defence**, on the 26th November.

The event will feature case studies from **BAE Systems** and **Supacat**, and include tours of our cutting-edge Oxfordshire facility.

Tickets are now sold out, but a few places are available, at our discretion, so if you do still want to attend, please email george.brown@polartechnology.co.uk

People Updates

It's been an active summer for many of us here at Polar Technology, starting with our annual Summer BBQ in July, where we competed in some fun activities like axe throwing and 'milking the cow'!

We also brought back our after-work football sessions, and celebrated 'Cycle to Work Day' with our annual competition to see who could cycle the furthest into work.



Looking ahead, we have employees running in both the Oxford Half-Marathon and Eynsham 10k, raising money for Helen and Douglas House.

Finally, we have recruited **8** new employees into the business in the last few months.



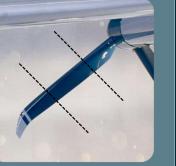
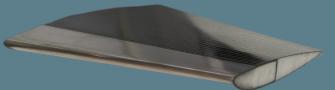
In The Media



"Polar Technology selected by ISTEC to manufacture helicopter

  **LEEF (Leading Edge Electro Forms)**
Improving the ability of a composite structure to withstand erosion, impact and corrosion

Section of eVTOL propeller blade



One of many use case applications



"Polar Technology & Ultima Forma's electroformed barrier technology

"weapon mounts"
Aerospace Manufacturing

[Read article](#)

"hits project milestones"
Composites World

[Read article](#)

Upcoming Events

MIA CTS
*15th-16th October
2025*

[Go to event](#)

**Advanced
Engineering**
*29th-30th October
2025*

[Go to event](#)

**Make UK Defence
Summit**
*12th-13th November
2025*

[Go to event](#)

Did you know...

The heritage of Polar Technology has recently reached the twenty-five-year mark.

From its origins in 2000, the company has evolved from a small, specialist fabrication business into a global supplier for high-performance industries.



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