



DESIGN | ENGINEERING | MANUFACTURING



**Engineering
your future** —

Aerospace | Defence | Space

RF/Microwave

Leaders in the design and manufacture of waveguide

Antennas | Power Combiners | Assemblies | Components

Who we serve

Operating from the UK, Sylatech has a global customer base across multiple business sectors, with our strategy predominantly focused on the Aerospace, Defence and Space sectors.

Sylatech is an established supplier at all levels in the supply chain and holds the necessary accreditations to AS9100 and Nadcap required to operate in these markets.

Our capability is in demand by customers globally and annually we manufacture over 700 different parts which extend over a diverse array of product applications.



Aerospace

Rotating joints and weather radar antennas.



Defence

Power combiners and slotted antennas arrays for surveillance radar.



Space

Integrated waveguide assemblies for satellite payloads.

Our clients



SAAB

THALES

COBHAM



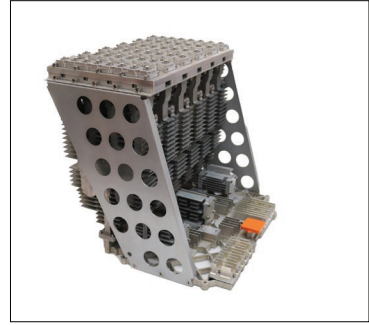
Rolls-Royce

Honeywell

AIRBUS



Microwave Waveguide Assembly



48:1 Power Combiner

Who we are

Sylatech is a precision design, engineering and manufacturing business, with a heritage dating back to 1964, in delivering custom engineering solutions for our customers.

What we do

We are specialists in the design, engineering and manufacture of passive RF/Microwave waveguide antennas, subsystems, assemblies, components and in liquid metal component forming.

Our extensive in-house capability equips us to offer complete engineering solutions for installation to a range of RF/Microwave engineering applications. Together with our design services, we also offer a full build-to-print service to our customer's own product designs. Our unique, in-house, investment casting foundry, excels in the manufacture of small precision components.

Our vision

To inspire and create engineering solutions, for this generation and the next.

What our customers say —

THALES

“When our existing supplier decided to exit the marketplace for waveguide assemblies, Sylatech’s flexible and responsive technical support, successfully addressed our needs.

Sylatech firmly demonstrated their commitment to help us move a large number of waveguide assemblies and components from an existing supplier, which we very successfully transitioned over an 18-month period.

Sylatech is a highly responsive supplier for both new and existing naval defence radar requirements, and also excels in providing solutions on technically challenging, legacy products, required for spares and repairs.”

Amphenol

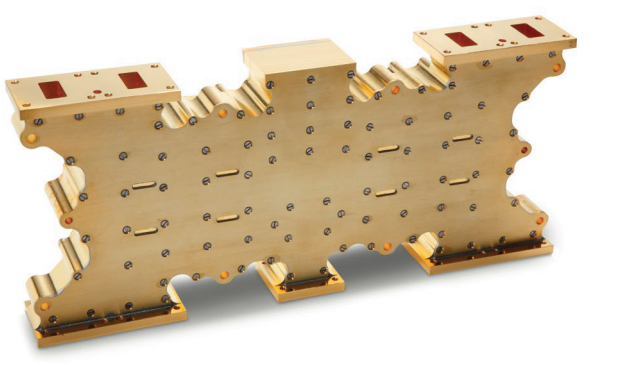
“The level of business improvement, training, and investment that has taken place at Sylatech is very impressive. I awarded an overall quality audit score of 91% which is the best that I have ever awarded. Congratulations.”



Rolls-Royce®

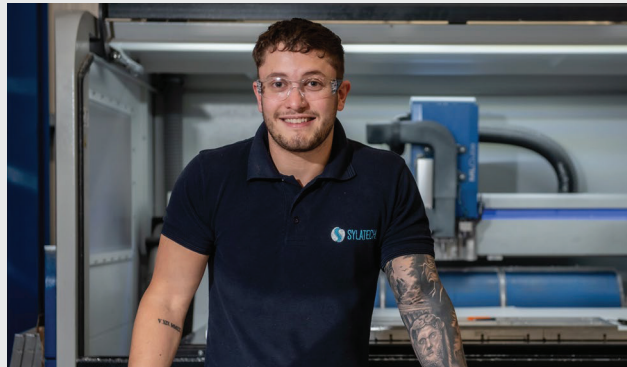
“Agile, willing, and highly capable. We are seriously impressed by Sylatech’s technology, and as a supplier who reacts to our requirements, and delivers excellent results.”

Design



Power Dividers and Combiners

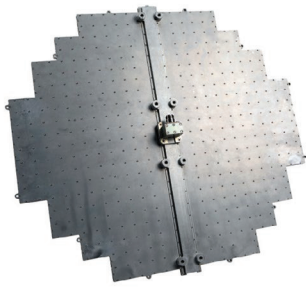
Multi-port waveguide with minimal amplitude and phase unbalance.



Design Capability

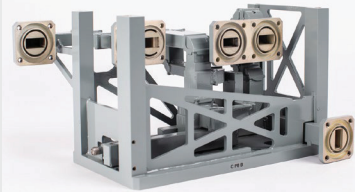
Our engineering team are core to our design capability and work closely with customers in the design of antennas, power combiners, waveguide assemblies and components. Our collaborative approach to design involves translating detailed technical requirements into a controlled, verified and validated product design. This can involve testing proof of concept designs, manufactured through rapid prototyping. Our design tools include Solidworks and CST, with our NPI design process based upon the five elements of APQP and PPAP.

Engineering



Slotted Waveguide Antennas

Large format designs with monopulse, dual polarised and linear feeds - S, C, X and Ka band.

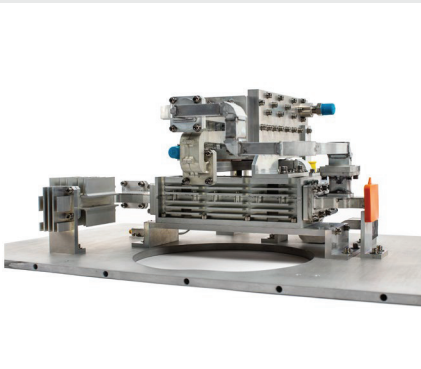


Engineering Capability

A structured methodology is central to our engineering discipline. Our engineers are focused on developing production processes aligned to the products that we manufacture. They validate that the product fulfils design needs to meet the customer's specific requirements, and adheres to technical, quality and cost requirements.

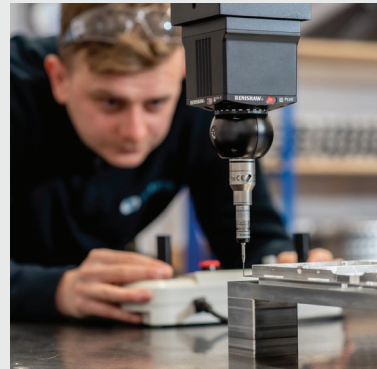


Manufacturing



Waveguide Assemblies

Complex custom assemblies for satellite payloads and radar.



Monopulse Comparators

Custom designs for narrowband frequencies – WR187 to WR28.



Manufacturing Capability

Our production team are core to our manufacturing services, and work closely with our engineering team in the delivery of the customer's requirements. Through the implementation of process control and strict adherence to our quality management system, we manufacture using our in-house production processes which include casting, CNC machining, chemical processing, painting, final assembly, and electrical testing.

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Ready to innovate together?

Our mission

To engineer the future of our team and customers, through the delivery of world-leading precision engineering solutions, assemblies and components.

Work with us

Sylatech is home to a committed team who hold a shared sense of purpose and are focused on working together to deliver to our customers. Maintaining the spirit of teamwork is at the heart of everything we do, and we encourage involvement to make a difference and achieve success.

As a team we would welcome the opportunity to support in the design, engineering and manufacture of your project requirements.

Let's innovate together and our engineers will bring your project to reality.

Please contact us on engineer@sylatech.com



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