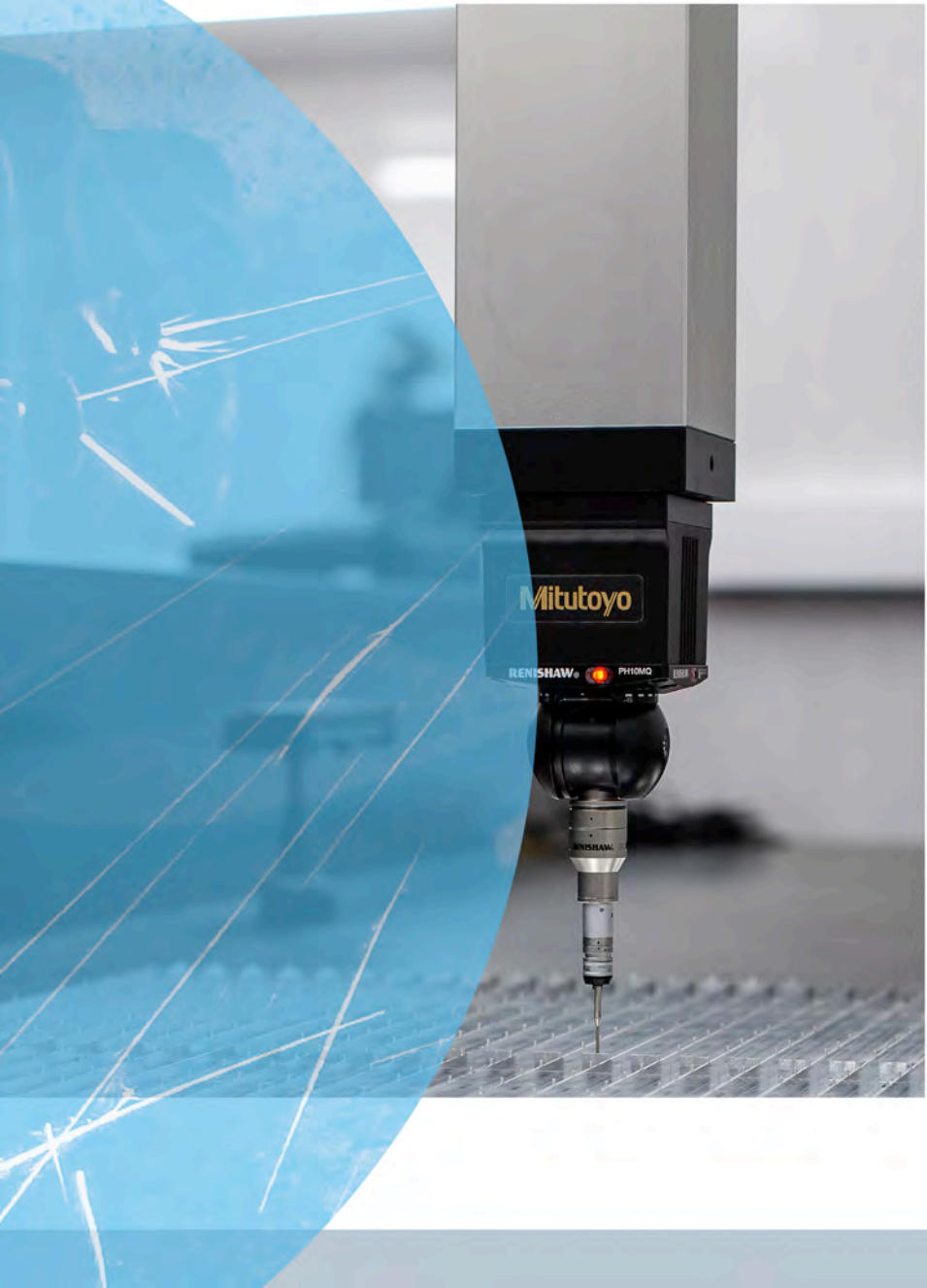


**CNC MACHINING**



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At Sylatech we house a comprehensive CNC machining facility which is supervised with our own in-house team of expert programmers and operators.

## Sylatech's Extensive CNC Machining Capability >

**Our exceptional CNC machining facility is equipped with ten FANUC 24,000 rpm Robodrill machining centres alongside a range of other specialist equipment, including a Datron ML Cube affording us the ability to offer large-bed machining services.**

Working closely with FANUC we continue to develop our machining capability and have successfully integrated robotics within our CNC machining centres. Robotics enable our ability to offer a 24-hour machining capacity.

Our AS9100D quality certification affords us the ability to be a key supplier to the Space, Aerospace and Defence industries and other sectors which require a precision machining solution.

We strive to provide our customers with a quality-led, cost-effective precision machining solution in a matter of days.

Sylatech has achieved strategic partner status on a number of programmes with international prime customers including:

THALES



SAAB

Honeywell

AIRBUS



**Large-bed CNC  
machining with  
vacuum clamping.  
High speed  
40,000 rpm with  
ethanol mist coolant.**

### Benefits of Sylatech's CNC Machining Facility >

- **Highly-skilled team of programmers utilizing Solidworks and MasterCam**
- **Fully integrated Renishaw Probing Systems across all FANUC Robodrills**
- **Full traceability assured – from material procurement to final treatments**
- **Integrated robotic automation for large batch CNC machining**
- **Specialists in the machining of aluminium**
- **CMM Inspection on large-bed Mitutoyo Crysta**
- **Integration with key sub-contractor services enabling, line-fit ready components**
- **One-stop manufacturing partner, affording supplier consolidation.**



## Quality Approvals

- **AS9100D**
- **NADCAP Accredited – AC7110/1  
Torch Brazing**

We have a total quality commitment and quality and reliability are a pre-requisite in all that we do.

By ensuring our quality management system delivers robust design, manufacturing and assembly processes, and by employing solid testing techniques, we ensure that every product meets or exceeds our customer's requirements.

## Service Capability

- **24/7 service – fast turnaround**
- **One-off prototyping**
- **CAD/CAM design capability**
- **Surface finish treatments**
- **Assembly services**

## Key Sectors and Quality Approvals



### **Aerospace, Space, Defence and General Engineering.**

Sylatech's focus on providing a quality-led, cost-effective approach is what makes us the perfect aerospace supply chain partner of choice for many.

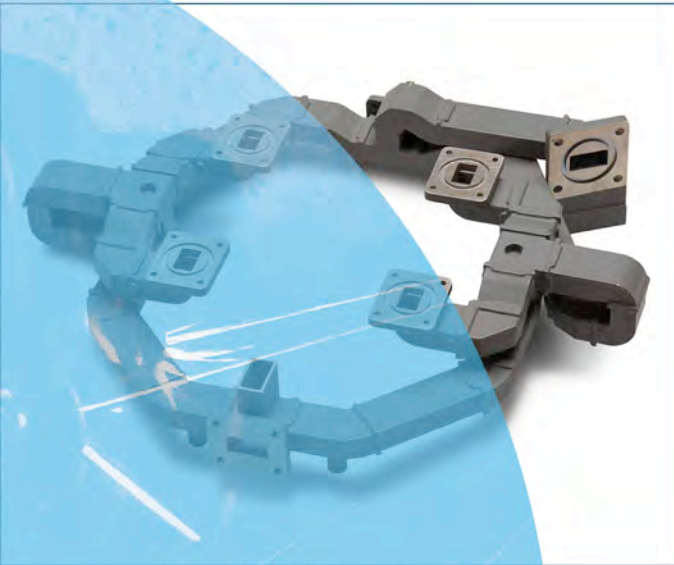
We manufacture a wide range of precision products for several major aerospace companies including Cobham, Honeywell, Thales, and Ultra Electronics. Typical examples include housings, enclosures, cooling plates and mechanisms.

Our clients choose Sylatech as a preferred partner to manufacture often complex machined components as we're able to offer a high-quality, light-weight solution, without the need to compromise on design or strength.

### **Quality**

Our AS9100 certification, the widely adopted and standardized quality management system for the Aerospace, Space, and Defence industries, enables Sylatech to better service the needs of global manufacturers and their associated supply chains.

Our AS9100 certification demonstrates our quality commitment and adherence to stringent quality controls within our process. Where required FAIRS, material certification and Certificates of Conformance can be supplied.



## Enabling radars to locate

Monopulse Comparators

## Enhancing worldwide communication

Satellite Components



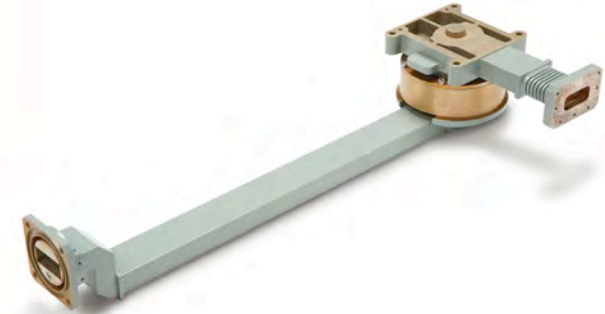
DESIGN | ENGINEERING | MANUFACTURING

Panels for satellites, power dividers for large ground station radars, antennas for air defence systems and rotating joints for weather radar systems, also feature in the application of our CNC machined products.



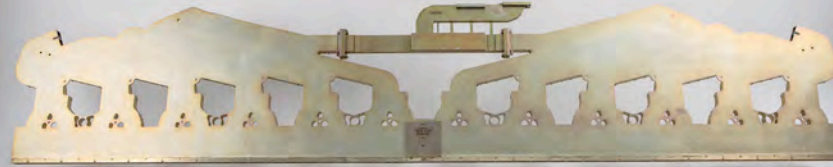
## Keeping the train network on the move

Railway Catenary Fixtures



## Protecting forces from aerial threats

S-Band Radars



## Monitoring global weather patterns

Rotating Joints



## Other Services



**Alongside our CNC machining facilities, we also house an investment casting foundry specializing in the production of copper and aluminium alloy lost wax investment castings. We also offer an integrated custom RF/Microwave design and manufacture service.**

Our lost-wax investment casting process provides a fast and cost-effective method for both small batches and large quantities up to 150,000 per year. Parts with complex internal and external details, superior finishes and thin-wall requirements can be produced, without the need for machining from solid.

We also utilize 3D printing technology in order to offer a rapid prototyping service, alongside our investment casting service.

Our RF/Microwave design, manufacture and test service covers S, C, X, Ku and Ka bands. Our product design experience is significant across a wide-range of products and components including slotted array antennas, power dividers/combiners and rotary joints.

## Additional Capabilities Offered



- **Painting**

At Sylatech we have an in-house painting facility for the application of paint for cosmetic or protective coating purposes.

- **Finishing**

We offer a wide variety of surface finishing processes to ensure that we meet the customer's specific surface finish requirements.

- **Heat Treatment**

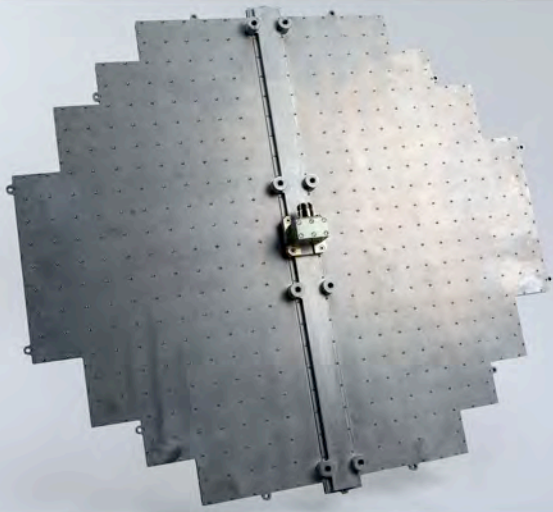
Through thermal processing techniques we enable the required properties to prolong the working life of a component.

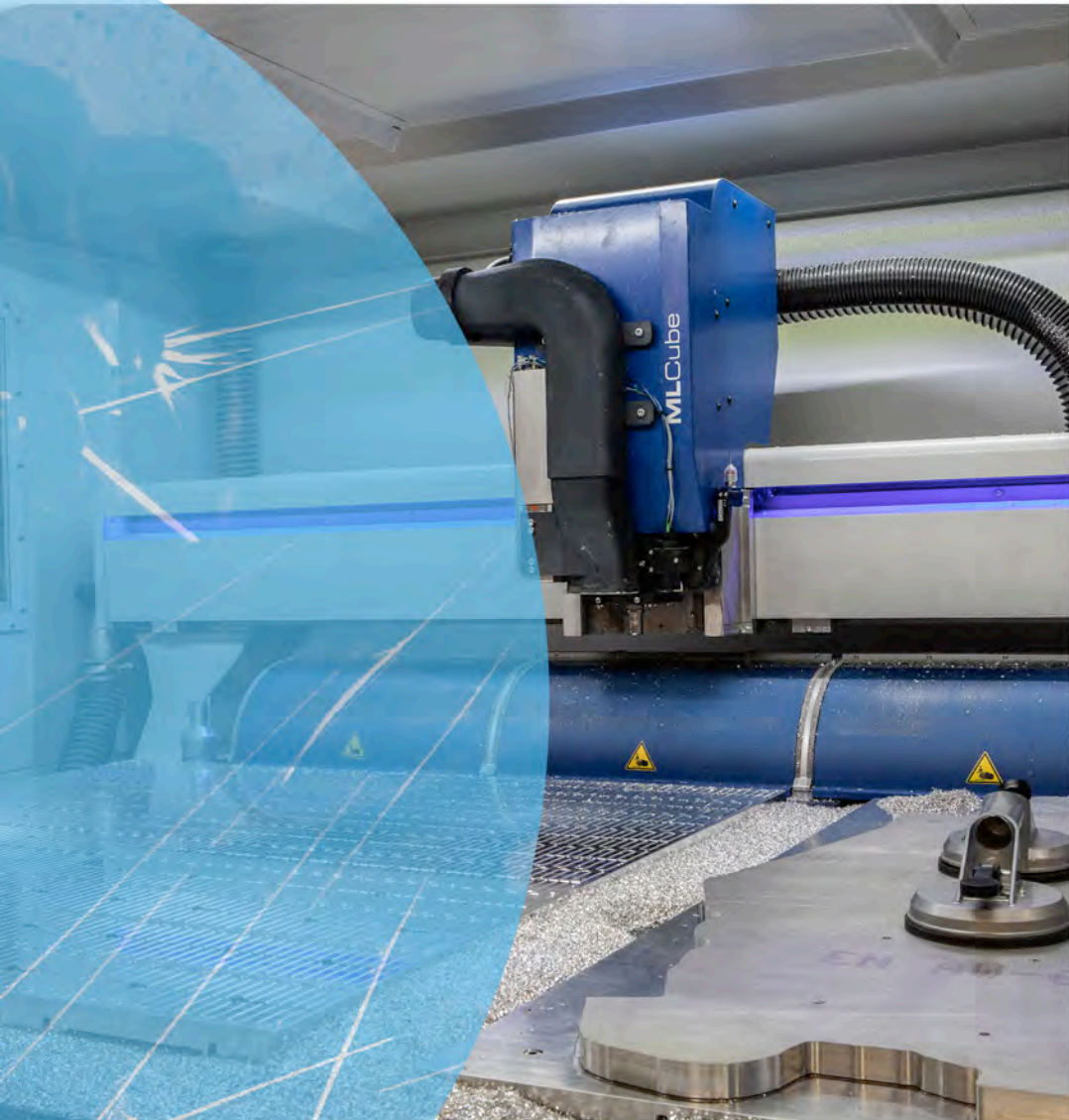
- **Dip and Flame Brazing**

Using brazing techniques, Sylatech possesses the capability to manufacture complex aluminium assemblies.

- **Anodising**

For protective purposes anodising services are available.





## Technical Specifications - CNC Machining

<b>1x Datron ML Cube</b>	Control: NEXT Machining Limit: 1500 x 1000 x 200 RPM: 40,000 RAPID: 20m/min Fitted: XYZ Probe Measuring System and Vacuum Clamping Technology Tool Carousel: 36 tool capacity
<b>9x Fanuc Robodrill T21iF</b> <b>3x 3-Axis Capability</b> <b>5x 4-Axis Capability</b> <b>1x Fanuc Robot M-20iA Cell</b> <b>1x 5-Axis Capability</b>	Control: Fanuc Series 31i – Model A5 Machining Limit: Up to 700 x 400 x 330 RPM: 24,000 RAPID: 54m/min Fitted: Renishaw OMP60 Spindle Probe and NC4 Laser Tool Carousel: 21 tool capacity
<b>3x Mazak AJV-18N</b>	Control: Mazatrol M-32 Machining Limit: 560 x 410 x 400 RPM: 10,000 Fitted: Renishaw OMP40 Spindle Probe and NC4 Laser Tool Carousel: 30 tool capacity
<b>1x Mazak VTC-200C</b>	Control: Mazatrol PC Fusion 640M Machining Limit: 1660 x 510 x 510 RPM: 12,000 Fitted: Renishaw OMP40 Spindle Probe and NC4 Laser Tool Carousel: 30 tool capacity
<b>2x Bridgeport VMC 600</b>	Control: Heidenhain TNC426 Machining Limit: 600 x 400 x 400 RPM: 10,000 Fitted: Renishaw OMP40 Spindle Probe and NC4 Laser Tool carousel: 22 tool capacity



## Technical Specifications - CNC Turning

1x Hardinge GS51	Control: Fanuc Series Oi-TF RPM: 5,000 Max Cut $\phi$ : 284mm
1x Hardinge HXL	Control: General Electric 1050
1x Nakamura Tome	Control: Mazatrol M-32 Control: TMC-15

## Technical Specifications - EDM Capability

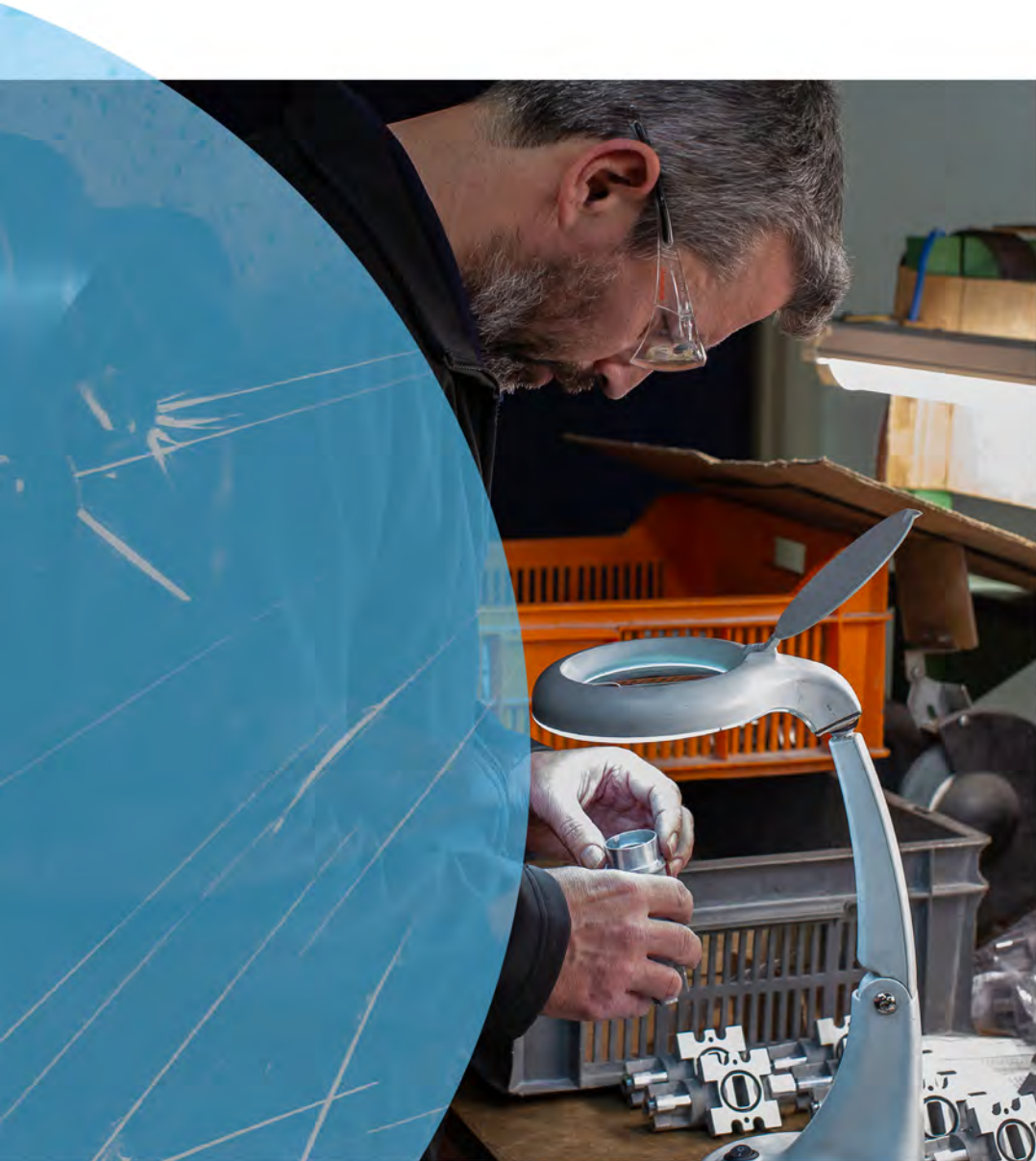
1x CNC Wire – Sodick H320D	Control: Sodick Ex21
1x CNC Spark – Agietron Integral 2	28 Erode Carousel

## Technical Specifications - CMM

1x Mitutoyo Crysta Apex C122010	1205 x 2005 x 1005mm
1x Mitutoyo CMM BHN305	300 x 500 x 250mm
1x C.E. Johansson CMM CORDIMET 700	700 x 450 x 250mm

## Data Management

Mitutoyo Measurlink



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