Precision Casting Process

Leaders in Investment Casting and CNC Machining
With a heritage of over 50 years of engineering and manufacturing excellence, Sylatech’s designs can be found globally in land, sea, airborne and space applications.

**Rapid Prototyping**

Sylatech uses the Ultimaker to prototype sample parts for its customers, allowing them to test their designs without having to invest in tooling ahead of casting. This yields significant time and cost savings, as fewer tooling modifications are necessary.
LOST-WAX INVESTMENT CASTING

Contact us to discuss how we can help engineer your future

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MODEL AIRCRAFT ENGINE

BREATHING APPARATUS

ROJO COMPONENT  FEEDHORN  TEE

What Sylatech’s AS9100 casting process can deliver

- Specialists in thin-wall castings with a wall thickness as fine as 0.2 mm
- Capable of producing lightweight parts as little as 1g
- Process delivers high quality surface details and finish
- Complex detail on internal and external features
- CNC machining capability
- In-house tooling.

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The Sylatech Process is a block moulding version of the Lost Wax Method.

A fine plaster investment is applied under vacuum. The plaster penetrates all external features and fills internal voids to ensure that, as the mould is formed, every detail of the wax pattern is faithfully reproduced.

1 WAX INJECTION

2 WAX PATTERN

Wax patterns fixed to runner system to form tree.

3 WAX TREE

4 INVESTING

Foundry box filled with plaster in vacuum chamber.

5 FIRING OF MOULD

Wax melted out and mould fired.
10 MACHINING  |  FINISHED PART

Molten metal poured into mould with vacuum assist.

Mould material removed and metal tree washed.

Cast parts sawn off tree.

Cast parts sawn off tree.

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Sylatech delivers precision custom engineering solutions for our customers.

Operating from the UK, Sylatech has a global customer base across multiple business sectors including Aerospace, Space, Defence, Medical, Automotive and Construction.

As a trusted partner for delivering high quality systems and components to exacting standards, our customer base spans all tiers of the manufacturing supply chain.

Sylatech’s service offering spans three core functions:

- **RF and Microwave** - custom design and manufacture of microwave sub-systems, assemblies and components.
- **Investment Casting Foundry** - manufacturing precision metal parts through lost-wax investment casting.
- **CNC Machining** - comprehensive machining delivering precision engineered metal components.