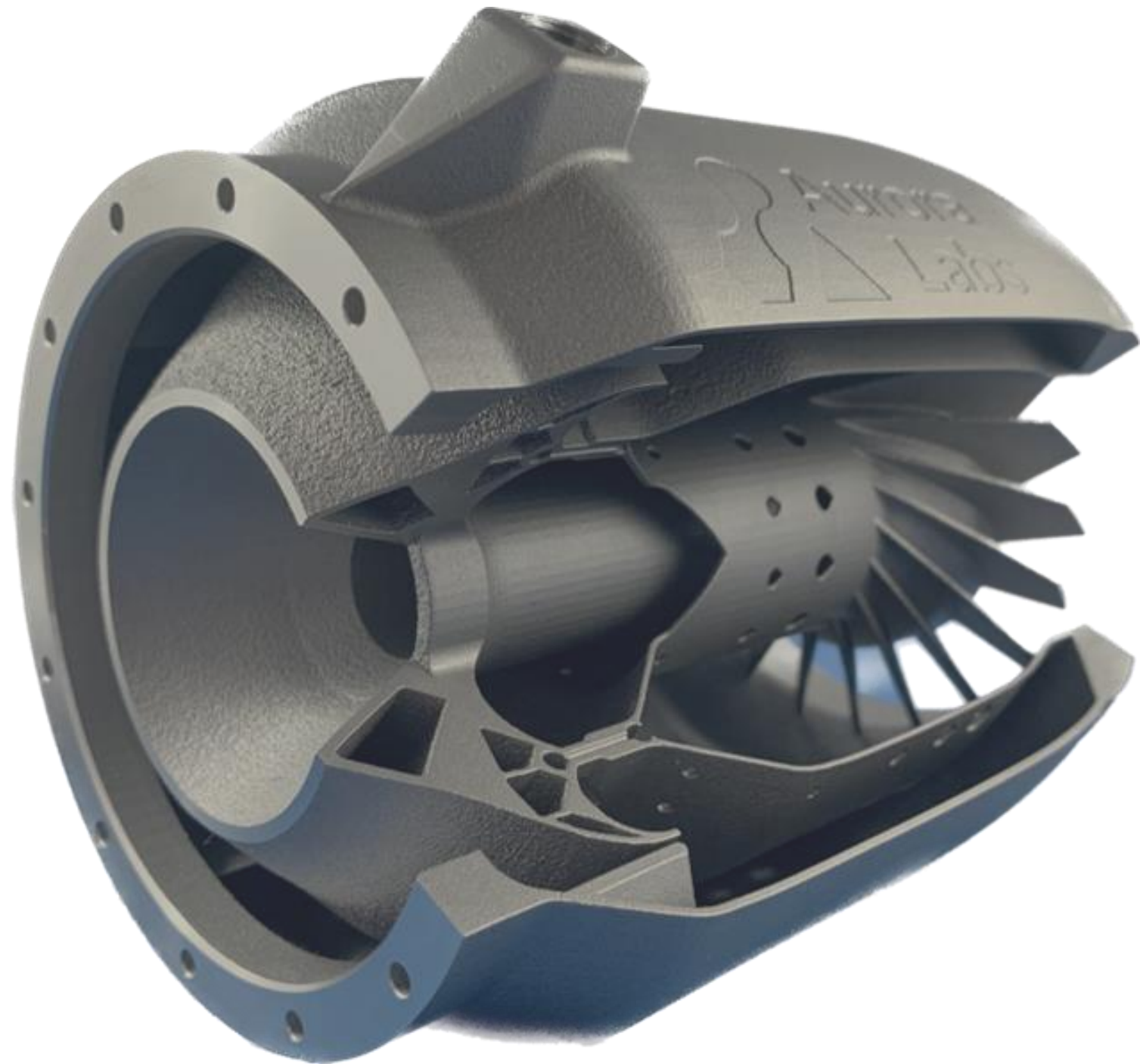




**Aurora Labs<sup>®</sup>**

**Indian Ocean Defence and  
Security Conference**

July 2024



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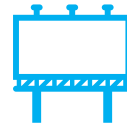
**Sovereign Australian technology focused on delivering innovation to industry through manufacturing 3D printed metal products and building 3D printing machines. We are experts in assisting industry to adopt metal additive manufacturing.**



## Technology

A3D is founded on the story of innovative technology for metal 3D printing. We empower industry to revolutionise manufacturing.

We hold the Multi Concurrent Printing (MCP) patent and develop intellectual property for printed products like printed micro gas turbines.



## Products

A3D designed and built metal 3D printers are being used to provide industrial printing services to industry and to produce our own 3D metal products.

These machines demonstrate our proven technology development of our metal 3D printing process, developed for highly technical printing such as the printing of defence metal aerospace parts.



## Services

We champion Australian created design and engineering solutions for 3D industrial printed products.

A3D's industrial printing service offering commercial printing solutions to the sectors of defence, resources, medical, oil and gas and understands the applications problems which 3D printing can assist in servicing.

# A3D | WHAT WE DO



## Technology Development

Continued technical projects to improve the productivity of the printing process and provide cutting edge technology in 3D printing machines.

## Commercial Print Services

Utilisation of our in-house developed 3D printing machines along with associated material science and engineering services we presents a parts printing solution.

## 3D Parts Commercialisation

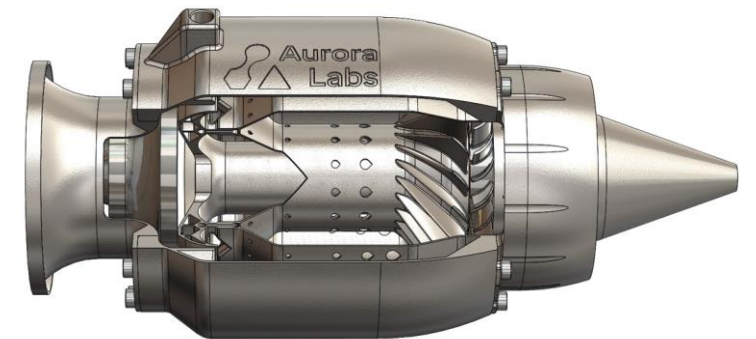
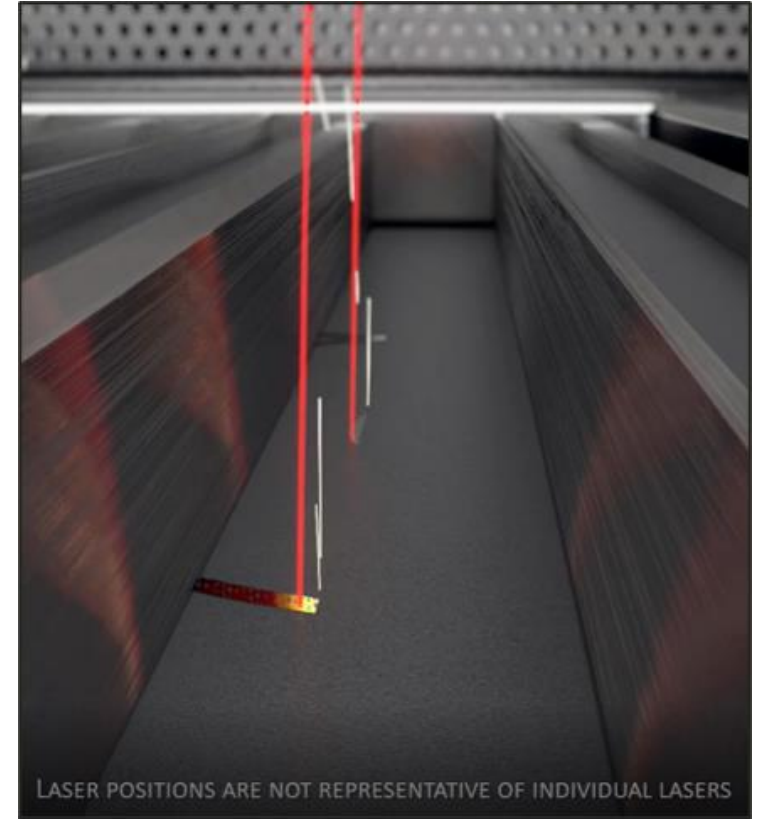
We have a suite of design IP and know-how, which has been combined to create a market leading micro gas turbine and industrial printer.

# A3D | INDUSTRIAL PRINT SERVICES

- **Laser Powder Bed Fusion (LPBF)** Depositing single layers of powder and using a laser to melt and fuse each layer. The process is repeated each layer, to create a 3D object.

**A3D specialises in this printing technology.**

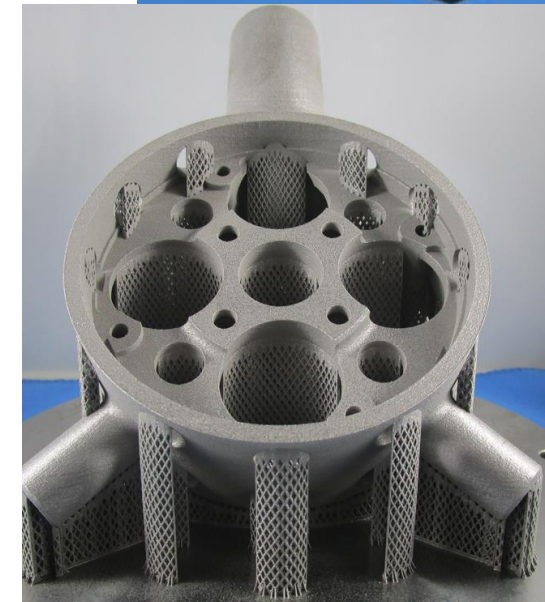
- Our industrial print service offers serial and small bespoke runs of metal parts.
- We adhere to rigorous quality standards which our customers nominate. Our service is qualified to ISO900. We have started the journey to AS9100.
- Our service enhances your parts by improving part geometry through
  - Lightweighting
  - Material selection and
  - Generative designTo create complex parts without additional costs.



# A3D | COMPANY HIGHLIGHTS



- Flagship **AL250 printer entering FINAL BUILD stage**, complementing Aurora's existing machine offering. Robustness testing of MCP technology is ongoing in the AL250.
- New Project (not contracted) of **3D metal printed MICRO GAS TURBINES** for sovereign **defence applications**. The Class 200 turbines are under current test and will be fitted to air frames for altitude testing.
- Significant **services ENGAGEMENT from DEFENCE based businesses - Southern Propulsion Systems** in an autonomous vehicle project for Australian Defence, and new engagement from Chiron Global Technologies.
- Moving to the **new phase of certification for AS 9100** for defence and aerospace following successful completion, approval and certification of Aurora's 9001 certification audits for the Company's Perth facilities.



# A3D | DEFENCE SYNERGIES WITH ADDITIVE MANUFACTURING



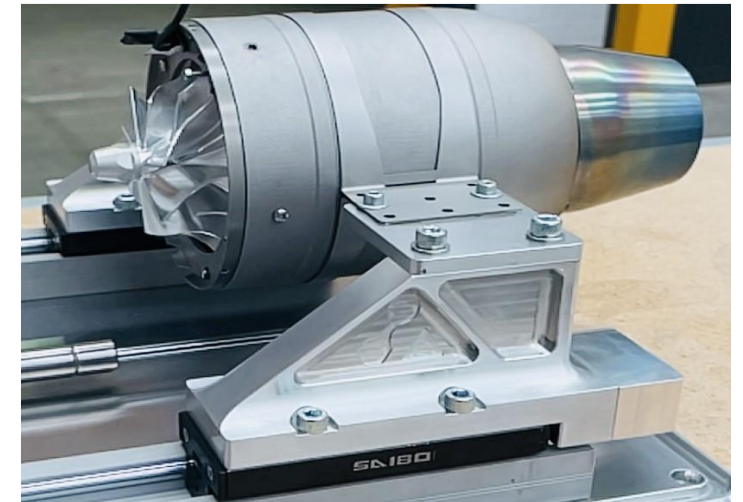
We are engaging with new customers in the Defence industry to utilise cutting edge technologies to make unique products, in particular a **3D PRINTED MICRO GAS TURBINE** which is fit for service and performance that support the vital role of defence in national security and the economy.

## New OEM and A3D Printed Parts

- Produce next generation 3D metal printed gas turbines and parts with improved performance, resolution and fidelity through generative design. Make reductions to part weight and optimise part geometries to increase part consolidation for ease of assembly
- Expand into new or speciality alloys for printing high specification parts, such as superalloys for hypersonic flight

## Locally Deployed Print Hubs, Spare Part Supply

- Rapid supply of certified spare parts to improve platform and equipment availability to defence, reduce stock as you print on demand
- Improve sustainability offering 3D printing near defence bases
- Accelerate part prototyping. Design parts quickly using generative design techniques to upgrade or offer new parts or turbine products



# A3D | PRINTING MACHINES



Build Envelope	250 x 250 x 300mm
Layer Thickness	30 – 150 $\mu\text{m}$
Production Speed	up to 100cm <sup>3</sup> / hr**
Laser System Options (single or dual available)	Fiber laser 1500W (CW)



## THE AL250 PRINTER

**Mass customization:** the ability to create custom-built 3D parts opens doors to unlimited possibilities

**New capabilities:** complex products can be mass produced without high fixed-cost capital investments and at a lower variable cost than traditional methods

**Lead time and speed:** shorter design, process, and production cycles delivers products to end users faster.

**Supply chain simplification:** production is closer to the point of demand, with reduced levels of inventory and less reliance on logistics.



# A3D | CONTACT US



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