

Our Pitch

A3D is Australia's only sovereign OEM of Laser Powder Bed Fusion (LPBF) printers. We are a world leader at controlling LPBF additive manufacturing outcomes. As the OEM, we have complete process control and can achieve outcomes unattainable by our competition. LPBF allows us to achieve finished form components often without the requiring additional finishing or processing. A3D's range of services includes printing equipment, printing services and products developed leveraging our inhouse capability.

Capabilities

- Australian designed & manufactured LPBF metal 3D printers
- Design for Additive Manufacture (DfAM)
 - Rapid prototyping of complex printed metal parts to precision quality standards and application specific material characteristics
 - Reverse engineering of legacy parts
- Printing capability
 - Production printing against standardised industry requirements (e.g. API 20S for oil and gas, SAE 7032, 7039 for aerospace)
 - Alloys: stainless steels (316L and 17-4PH), nickel alloys (Inconel 625 & Inconel 718), aluminium alloys (AlSi10Mg), titanium alloys (CPTi, Ti64), copper and zirconium
 - Polymer printing (FDM) in a range of materials
- Post-Processing, Testing & Certification
 - Mechanical or destructive testing, such as tensile, Charpy, x-ray
 - Measurement inspection and reporting including 3D scanning and reporting
 - Machining such as milling and turning

Approvals & Certifications

- Currently ISO 9001 Certified (AS9100 journey commenced)
- DISP (journey commenced)
- API 20S Production of AM Metallic Components (journey commenced)
- Corporate Governance is aligned with ASX recommended best practice



Benefits

- Sovereign
- Worldwide patents granted
- Only Australian LPBF printer manufacturer providing a printing service with the ability to tailor the process controls of our machine to provide an innovative product development print service
- Ability to print complex, reactive, novel or low-flowability powders
- Flexible product / service delivery model, driven by application and end user requirements
- Developer of products leveraging our LPBF capability such as our publicly disclosed flight proven micro gas turbine

Key Markets & Use Cases

- Complex customisable geometry, lightweight components, consolidation of parts to simplify assembly, efficient use of materials, low volume production
- Aerospace / UAV / Propulsion suitable

Partners & Customers



Australian Government
Defence

BAE SYSTEMS

innovaero
Innovators in Aeronautical Technology

CHIRON GLOBAL
TECHNOLOGIES



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