



Aurora Labs®

Empowering Industry to Revolutionise Manufacturing

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Aurora Labs is a developer of metal 3D printing technology based in Perth, Western Australia. The Company was founded in 2014 specialising in metal laser powder bed fusion 3D printers and offers printing services and associated research projects to local clients and industry partners.

CAPABILITIES

- Australian design & manufacture of metal 3D printers: Laser Powder Bed Fusion (L-PBF)
- Design for Additive Manufacture (DfAM)
 - Prototyping
 - Reverse Engineering of legacy parts
 - Production printing against standardised requirements (e.g. API20S, SAE 7032, 7039)
- Metal Printing
 - Three In-house metal printers : AL190, AL250 and AL400
 - Alloys: stainless steels (316L and 17-4PH), nickel alloys (Inconel 625 & Inconel 718), aluminium alloys (AlSi10Mg), titanium alloys (CPTi, Ti64),
- Polymer printing
 - Four In-house plastic FDM printers
 - A wide range of plastic materials, including PEEK and PEEK-CF for high temperature applications and other filaments such as Nylon , ABS, ASA, PETG
- Post-Processing, Testing & Certification
 - Mechanical or destructive testing, such as tensile, Charpy, x-ray
 - Measurement inspection, including use of 3D scanning and reporting
 - Machining such as mill, lathe
 - Inspection reports

ACCREDITATIONS & STANDARDS



DISCRIMINATORS

- Only Australian L-PBF manufacturer
- Only metal L-PBF service provider in WA, and specialising in high productivity print technology
- We have worldwide patents granted, relating to our unique high laser power printing
- Ability to print irregular and low-flowability powders.
- Flexible product / service delivery model, driven by application and end user requirements.

CUSTOMERS & PARTNERS



Curtin University

The benefits of 3D printing



Mass customisation

The ability to create custom-built designs without the additional cost opens the door to a myriad of possibilities



New Capabilities

Complex products can be produced that are lighter, stronger, more powerful or efficient and can consolidate multiple parts into a single component.



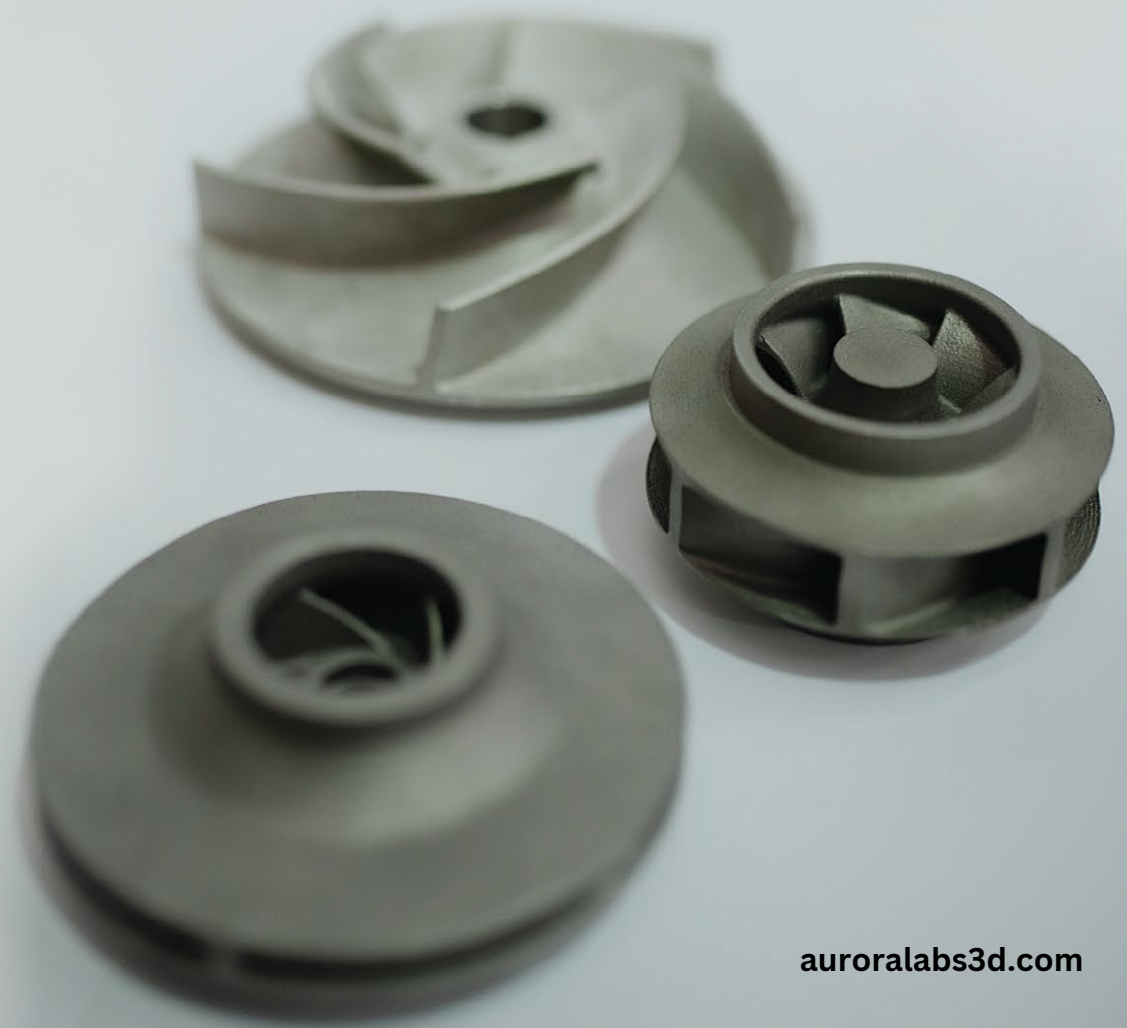
Supply Chain Simplification

Production is closer to the point of demand, with reduced levels of inventory and less reliance on logistics.



Lead time and speed

Shorter design, process, and production cycles delivers products to end users faster.



Get in touch

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