
Aurora Labs®
Additive In Focus
March 2021

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A3D: WHO WE ARE

A3D is a West Australian industrial technology and innovation company that is developing 3D metal printing technology.

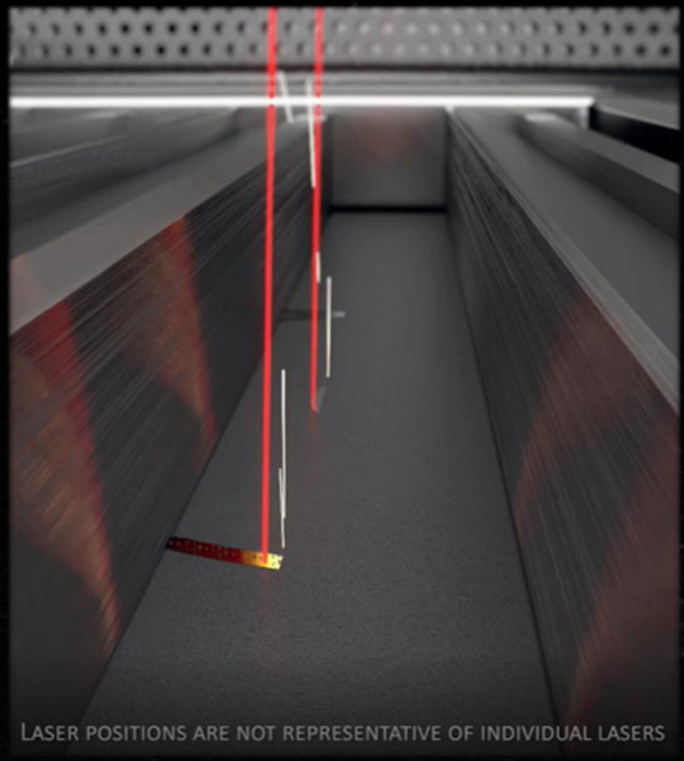
1. **Technological advantage** – breakthrough additive manufacturing (AM) technology in development is expected to deliver market leading manufacturing speed and performance, leading to a reduction of the cost of printed parts and improvements in customer productivity.
2. **Local capability** – WA based, serving the key industries leading post-Covid economic recovery.
3. **Customer-centric technology development** – matching printer capabilities to customer quality functionality and cost.
4. **Expanding AM Market** – rapidly growing AM market worth $12b* globally, with local opportunities in resource technology & critical minerals, clean energy, defence and space.

*Wohlers T, Campbell I, Diegel O, Huff R. and Kowen J. Wohlers Report 2020: Wohlers Associates, Inc., Fort Collins, Colorado, USA. 2020

POWDER BED FUSION

The A3D RMP-1 Beta printer operates with a powder bed fusion process.

Through our suite of rapid manufacturing technologies, we aim to achieve reliable, high accuracy,high productivity printing.



RMP-1 BETA PRINTING VIDEO

https://auroralabs3d.com/a3d/content/company/videos/files/20210204.mp4

WHY 3D METAL PRINTING

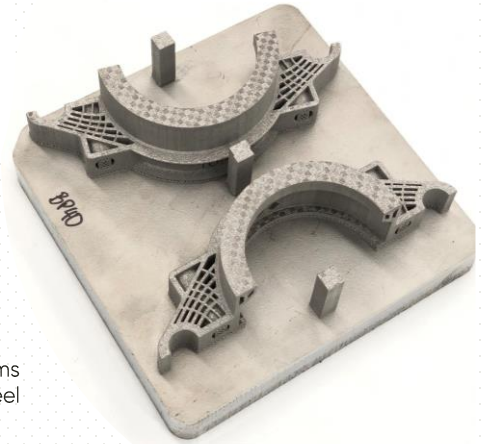
Metal AM has long identified disruptive potential, but slow production rates and small output capability have limited its acceptance

...until now.

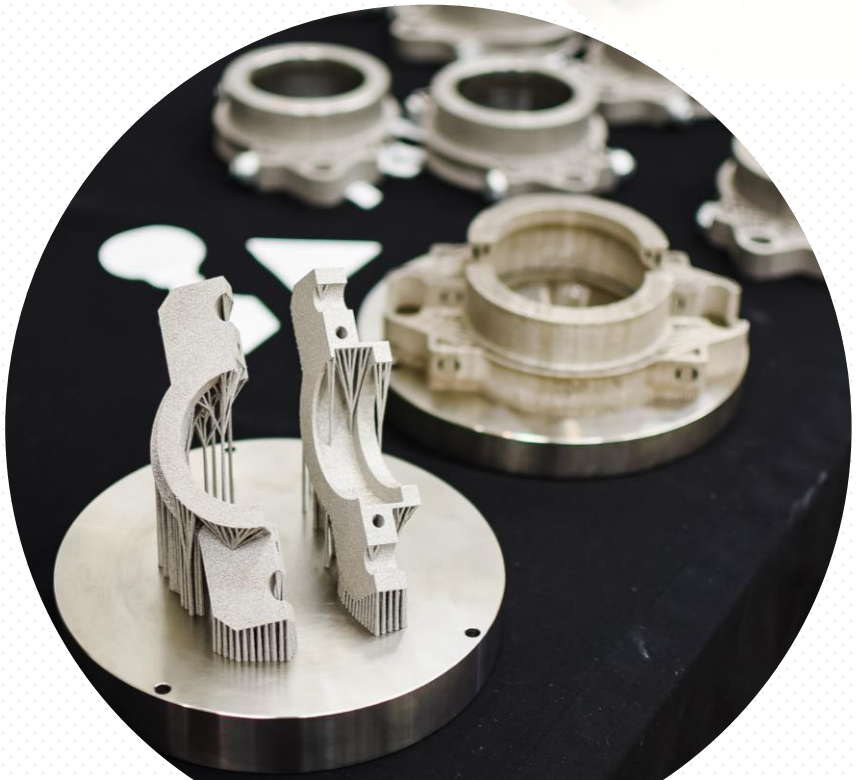
A3D is targeting increased speed to overcome these limitations.

- Fast, on demand printing to reduce lead times
- Reduction in working capital due to lower inventory level
- Onsite printing reducing supply chain costs and emissions
- Capital efficiency with printers able to handle a variety of materials

Industrial manufacturing rubber punches printed in 17-4PH

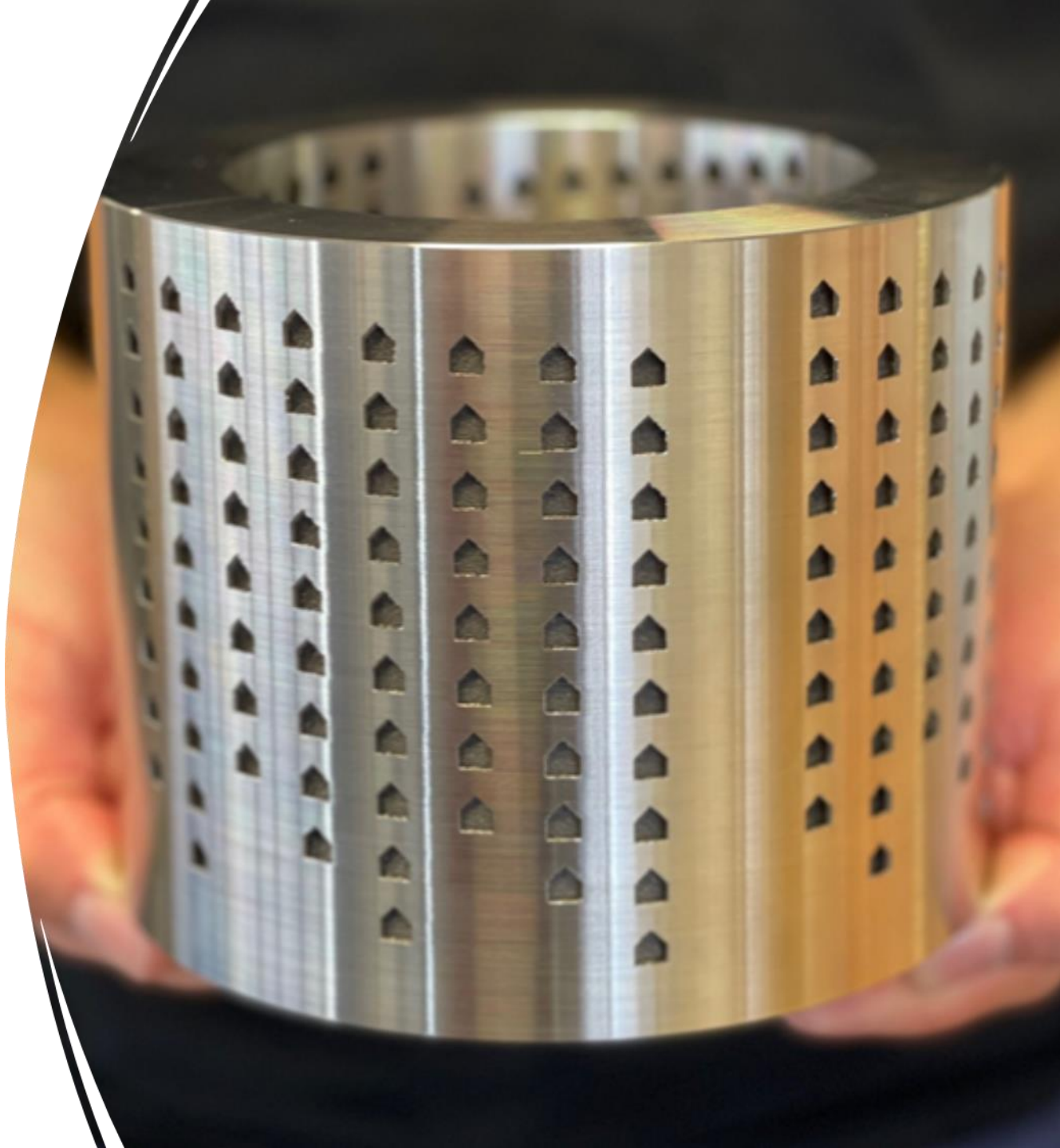


Gland followers commonly used in resources sector pumping systems printed in 316 stainless steel



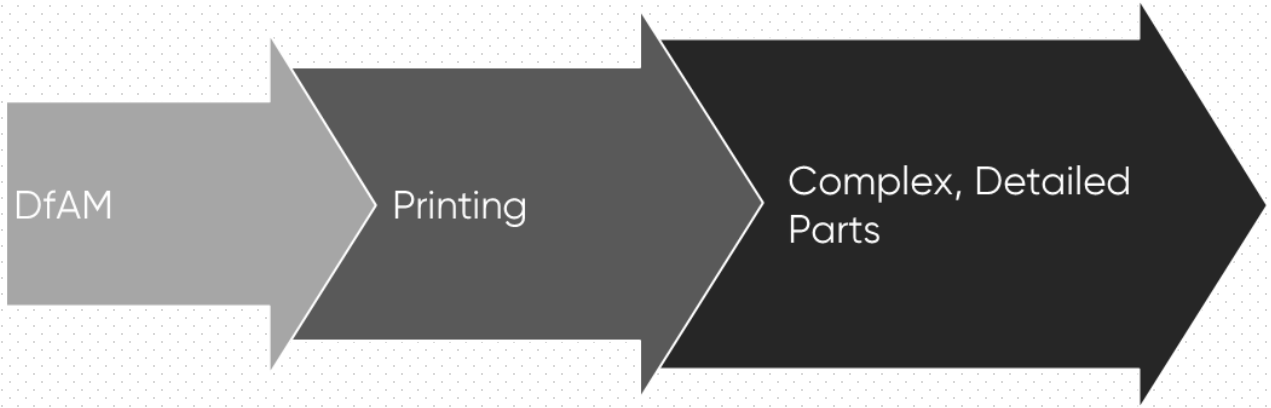
VALVE TRIM USE CASE

- Design for Additive Manufacturing (DfAM) part design optimisation
- Complex internal features improve performance
- Positive results for part density and tensile properties



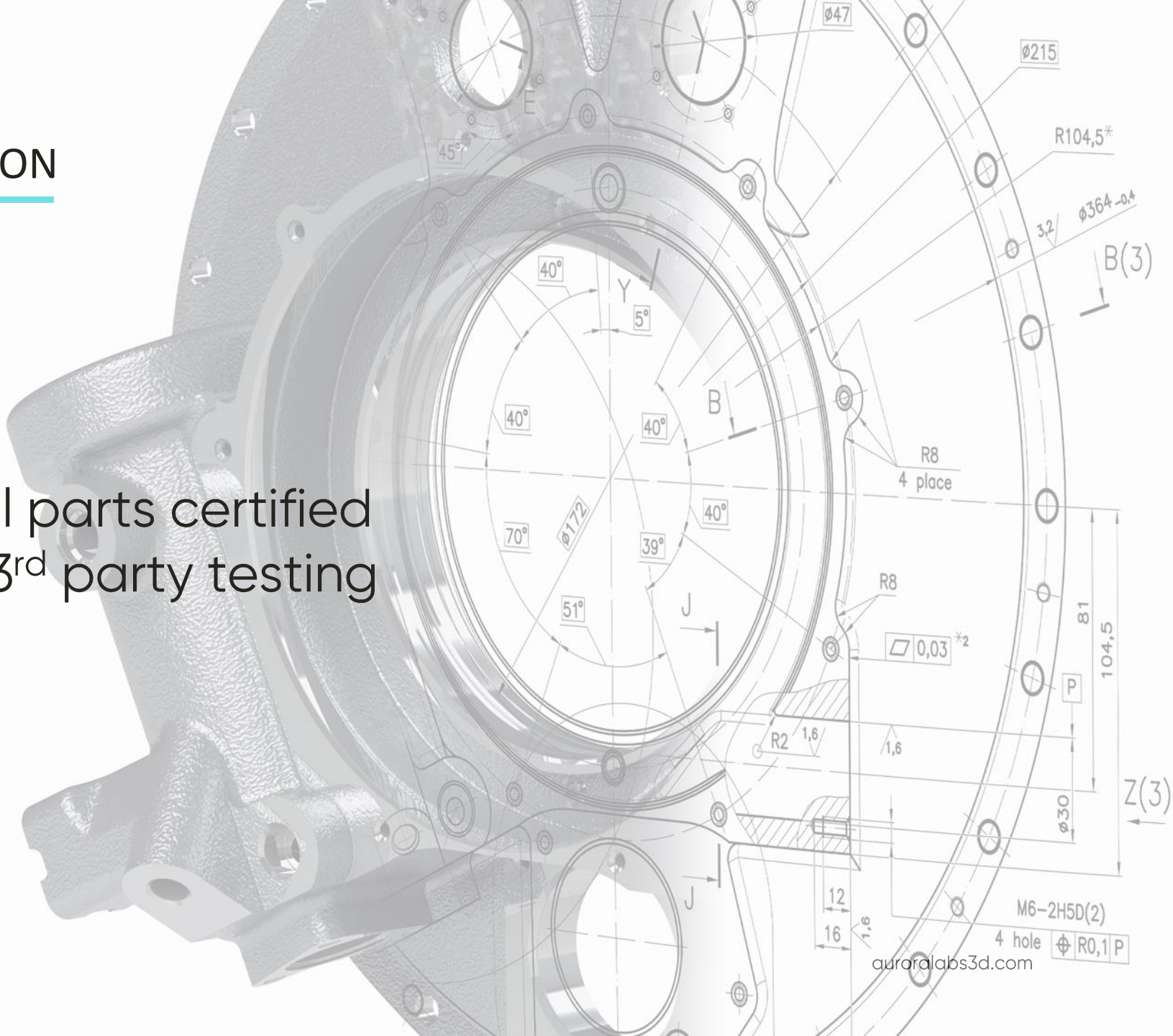
TARGET PARTS

Parts ideal for DfAM include pump internals, valve internals and heat exchangers



CERTIFICATION

Individual parts certified through 3rd party testing



CUSTOMER ENGAGEMENT

Let’s discuss the best match between A3D’s capabilities and your application.

SUMMARY

Technological advantage

Aiming for global market leading, reliable, high productivity, high accuracy printing through a suite of new technologies

Local Capability

West Australian capacity servicing industries key to economic recovery

Customer-centric approach

Demand driven printing by matching printer capability to customer requirements

3D printing market

Capitalise on growing $12b global AM market with local opportunities in oil & gas and mining

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