Aurora Labs[®]

CEO Address 2023

29th NOVEMBER 2023



A3D | 2023 SUMMARY HIGHLIGHTS

- Successful certification of ISO:9001 qualification was achieved
- New AL250 machine launch with incorporation of part MCP technology
- MOU with significant oil and gas customers Saudi Aramco, and Chevron
- Finalised material evaluation printing finalised with Woodside
- Significant purchase order from defence based customer Sovereign Propulsion Systems
- Successful participation in Indo Pacific Maritime Defence conference with exhibition of Gas Turbine
- Strong Revenue Growth from commercial printing services





A3D | 2023: PARTNERSHIPS



Partnerships being pursued across application development,machinemanufactureandtechnologycommercialisation.Open engagements

Immediate **focus on revenue**, capitalising on near-term and local printing opportunities whilst pursuing broader commercial partnerships.

Opportunity pipeline developed in AM growth areas of energy, mining, and defence industries.

Linkage between print services and machine sales, creating medium-term machine opportunities in the local market.

Continued R&D planned, with a priority placed on **client-led projects** with near-term scaling potential ATION 2023 | ASX: A3D 3



A3D | COMMERCIAL PRINTING SERVICES

Aurora Labs is the **only sovereign Australian L-PBF printer developer**, with the capability to provide both machine and printing services.

Experienced outstanding technical team with the backing of ISO9001 Certification.

Multiple revenue streams being pursued with an immediate focus on local opportunities. Revenue increased from FY22

Strong links to both **local industry** and the international AM ecosystem, particularly in defence and oil and gas.

Macro trends are increasing & broadening AM

adoption towards A3D's application strengths, especially in Australia.



A3D | AL250 PRINTING MACHINE

Advantages: Bidirectional printing for greater duty cycles High powered lasers for optimal melting and productivity Options to relocate to remote sites to place in containerised facilities

> Build Envelope Layer Thickness Production Speed Laser System Options 1 or 2 Spot Diameter Bed Pre-Heating Build plate clamping system

Inert gas Inert gas consumption Filtering System Dimensions

Connected Load

250 x 250 x 300mm (x,y,z)* $30 - 150 \mu m$ up to 100cm³ / hr** 1500W 75 - 150 μm Up to 200 °C Quick clamp mechanism Approx power consumption 25A Power supply 3/n/PE AC 400V, 32A Ar/N₂ (external N₂ gen optional) ~5L / min Integrated, 2 filter units 2,180 x 1260 x 2450 mm (W x D x H)

Approx 1700 kg



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A3D I OPPORTUNITIES WITH MULTI CO-CURRENT PRINTING

DEVELOPING MACHINES OF THE FUTURE

- Potential increase in printing speeds using MCP, (multi co-current printing) compared with other multi-laser systems
- Current industry focus is on larger powder beds, improved recoating time, multiple lasers, or carousel type beds to reduce high costs and improve throughput. A3D's innovative MCP tech is very well positioned to tackle all of these.





A3D | DEFENCE OPPORTUNITIES

A3D Designed Gas Turbine

Aerospace and defence sectors lead the adoption of laser powder bed fusion printing.

AUKUS supports the synergy of using new disruptive technologies, integrating their capabilities into the Defence Force in close partnership with Australian industry.

Capabilities such as printing or using LPBF machines to produce next generation parts with improved performance, improved design suitable to reduce weight, or improve geometries with generative design, and part consolidation are some of A3D's key capabilities.

Expand into printing new and speciality alloys for high specification requirements, A3D Printed Gas Turbine such as metal printing for hypersonic flight





A3D INDOPAC HIGHLIGHTS





A3D | Questions and Answers

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Q&A

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