

REDEFINING THE STANDARDS OF PRODUCTIVITY WITH ARCEMY® METAL 3D PRINTERS

ABOUT AML3D

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Founded in 2014 by a qualified Chartered Engineer, Andrew Sales, motivated by industry insights, believes wire additive manufacturing is a more sustainable process for industrial manufacturing. This process known as Wire Additive Manufacturing, WAM® welds metal wire to create near net shapes, reducing material waste by 80% and as a result, manufacturing products at the location of use more efficiently.

The customer journey starts with metallurgy and engineering to optimise complex shapes designed for application, overcoming limitations of traditional manufacturing methods. The combination of robotics, proprietary software and welding science in a freeform environment enables AML3D to manufacture certified products with mechanical properties that rival traditional casting and forging fabrication methods.

Discriminators of AML3D's technology include:

- Certified, large scale (1m+) products that meet global standards and are in service
- Free form manufacture of complex shape products, reducing weight, fabrication or assembly
- Manufacture at location of use with local wire feedstock, simplifying supply chain and reducing costs

ADDITIVE MANUFACTURING LANDSCAPE

"It took AM industry 20 years to reach US\$ 1 billion in size. Five years later, the industry generated its second US\$1 billion. Over the past 9 years (2010-2018), the industry grew by nearly US\$8.5 billion. At US\$9.795 billion in 2018, the industry is expected to grow by nearly 3.6 times to US\$35.6 billion in 2024." Source : Wohlers Report 2019.

Independent service providers worldwide generated an estimated \$4.9 billion from the sales of parts produced by AM systems in 2019. This is up 20% from the \$4.1 billion reported in 2018. The graph represents only revenues from parts produced on AM equipment (contract manufacturing), excluding revenues from tooling, design, engineering, CAD and other services. Source : Wohlers report 2020

The company will issue 45 million shares at a price of \$0.20/share under the IPO on the Australian Stock Exchange, giving the company a market capitalisation of approximately \$26.5 million upon listing. It is expected to commence trading under the code AL3 on Thursday, 16th April 2020. The funds from IPO will enable AML3D to continue business expansion, establish additional contract manufacturing centres to capture opportunities via contract manufacturing services and build sales capacity of Arcemy® 3D printers.



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HOW IT BEGAN

AML3D was incorporated in 2014 to research, develop and commercialise a new wire arc additive manufacturing process to produce large 3D parts using a range of different metals. This process is known as Wire Additive Manufacturing, WAM®. The company's development was supported by the Australian Commonwealth government Accelerating Commercialisation grant of \$495,000 awarded in June 2017 to assist with the establishment of a contract manufacturing centre and to demonstrate capabilities of WAM® process and WAMSoft® proprietary software in applications for the aerospace and defence industries.

- 2014** • AML3D was incorporated
- 2017** • Awarded grant from the Australian government to establish 1st manufacturing centre
- 2018** • Commissioned first commercial 3D printer
• Completed 1st commercially funded contract to print jet engine defence component
• Received ISO 9001 certification and became the first to receive "Additive Manufacturing Facility Qualification" from Lloyds Register
- 2019** • Exceeded standards for Aluminium fatigue testing for Austal
• Completed delivery 500kg Martentistic stainless steel wear rings for Flowserve pumps
• Commercial agreement to deliver 1st Arcemy® large format 3D printer to ST Engineering, a global defence, technology and engineering group operating in aerospace, electronics, land systems and marine sector
- 2020** • Delivery of Panama Chock to marine and offshore conglomerate, Keppel Corporation
• Complete IPO to raise capital for business expansion including establishing additional contract manufacturing centre to capture opportunities via contract manufacturing services and Arcemy® sales

AML3D CERTIFIED MANUFACTURING SOLUTIONS

AML3D has continued to 3D print large, industrial products in various metals including aluminium, carbon steel, stainless steels, nickel aluminium bronze and titanium with Arcemy® 3D printers for key industries such as aerospace, defence, marine and resources.

AML3D offers contract manufacturing services at Contract Manufacturing Centres in Adelaide, Australia and Singapore. Customers can also choose to purchase or hire portable Arcemy® 3D printers complete with a license to manufacture.

- contract manufacturing on demand increases production flexibility and limits need for inventory
- restorative repair and replacement of worn tooling and components reduces downtime
- portable Arcemy® 3D printers allows for local manufacturing, strengthening supply chains



AML3D Arcemy® sales will be supported with training, maintenance and ongoing supply of wire feedstock consumables. Through the integration of welding science, robotics and proprietary software, AML3D customers, no longer tethered to overseas factories, could deliver a step change in the way products are manufactured and position their leadership in the global economy.

COMPANY FACTS

Founded	November 2014
Funding	\$9M with the completion of IPO and a market capitalisation of approx. \$26.5M.
Factory size	400m ² houses 2x production ready large metal 3D printers with existing capacity of 28 tonnes
Team size	10+and growing in the field of additive manufacturing, engineering, metallurgy and software.

BOARD OF DIRECTORS

Our board of directors has experience in advanced research and technology and is well-positioned to commercialise 3D Printing; the key to transforming manufacturing into diversified revenue opportunities.

- **Stephen Gerlach AM** (Chair) is an experienced Chairman and corporate adviser across resources and finance industries, holding Chairman and Director roles for numerous public companies. He is currently Chancellor of Flinders University and Trustee of the Australian Cancer Research Foundation.
- **Andy Sales** (Managing Director) is a Chartered Engineer with double Masters in Engineering and Science. A renowned leader in welding and advanced manufacturing technology, Andy has 27 years experience in management and senior leadership roles across resources, heavy engineering and fabrication industries within Australia, Europe, South America, Africa and Asia markets
- **Sean Ebert** (Executive Director) has 25 years of board and executive experience in public companies across resources (oil & gas, mining, engineering) was Global M&A Director at Worley Parsons. He has commercialised emerging technologies in Australia, Middle East, South America, US and Europe.
- **Kevin Reid** (Non-Executive Director) is a Chartered Accountant with 24 years experience as partner with PwC and BDO. He has been an independent accountant for IPOs, capital raises and acquisitions and is currently non-executive director for a range of business and not for profit entities.
- **Len Piro** (Non-Executive Director) is the former Deputy Chief Executive of the SA Department of Trade and Economic Development, Executive Director Manufacturing and Chief Executive Automotive Transformation Taskforce. He is currently the Non-Executive Director for Supashock.
- **Christine Manuel** (Company Secretary) is a Chartered Secretary with 20+ years experience as executive and Company Secretary roles in public listed companies including Santos Group. She is currently SA/NT State Council Chair and non-executive director of the Governance Institute of Australia.