

ASX:3DA

Investor Presentation

July 2020

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Company Snapshot

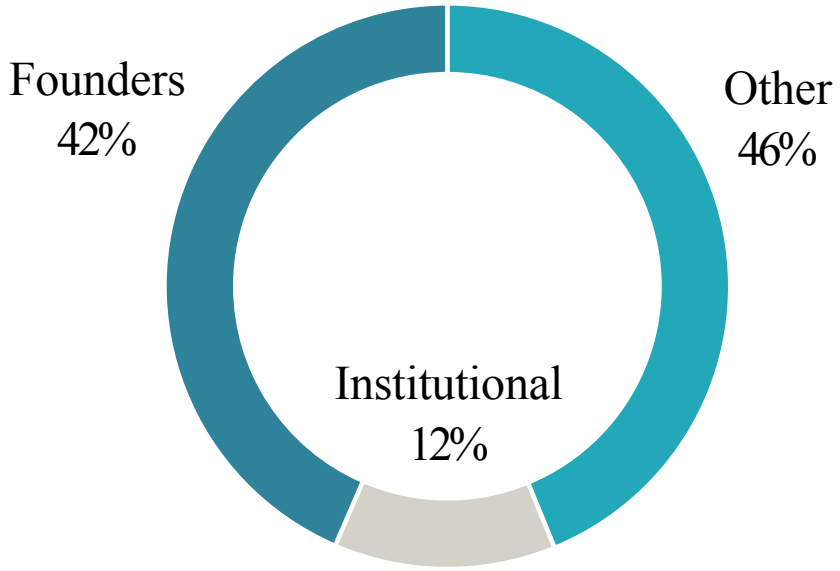
Amaero International Limited (ASX:3DA) ("Amaero", the "Company") is an Australian Company specialising in metal additive manufacturing (3D printing) for the defence, aerospace, and automotive sectors.

Established in 2013 through the Monash University Centre for Additive Manufacturing, one of the world's leading institutes for metals additive manufacturing for the aviation and defence sectors, Amaero has grown to become a leading provider of 3D printing services to some of the worlds largest manufacturers in these sectors.

In response to the COVID-19 pandemic, both the Australian and United States governments have implemented lockdowns in particular areas. Throughout this period, Amaero AUS and USA have continued operations as the Amaero business is not part of the 'non-essential services' to which restrictions have been applied.

ASX Code	3DA
Shares on issue	175m
Share price as at 1 July 2020	$0.155
Market Capitalisation	A$27.12m

Shareholder Breakdown



AMAERO
ADDITIVE MANUFACTURING

Corporate Structure

Amaero operates through two subsidiaries: Amaero Engineering and AM Aero Inc

Board of Directors



David Hanna
Chairman



Stuart Douglas
Executive Director



Kathryn Presser
Non-Executive Director



Barrie Finnin
Chief Executive Officer

Amaero International Ltd

Board of Directors

Management Team

Shared Group Services

- Financial Controller
- Exec. Director Strategy & Growth
- Legal

Advisory Board

David Carbon
Advisory Board Aviation / Aerospace

Former Secretary of Defense
Advisory Board Defence

David Wolf
Advisory Board Defence Offsets

AM Aero, Inc

Amaero Engineering Pty Ltd

Business Model

Designed to generate transactional and recurring revenue

1 Design and Prototyping
Cost-plus basis

- Initial design and prototyping
- Qualification and design freeze
- Cost-plus basis

Contract Manufacturing
Price per unit

- Manufacturing components to customer specifications

Tooling
Price per unit

- Tools for plastic moulding / metal die casting / extrusion

2 Equipment sales & powders
Cost plus mark up

- Sale of 3D Printers and 3D printing powders
- Distribution agreement with AmPro Innovations

Training, service and maintenance
Fee for service

- Post-sales support and maintenance

3 Commericalising metal alloys
Price per unit

- Rights to commercialise patented proprietary alloys developed by Monash University
- Intends to offer metals powders as consumables to 3D Printer customers

Additive Manufacturing

Sector Overview



Additive Manufacturing

US$23.6bn

by 2025

(CAGR of 15.1%)

Aerospace

US$3.6bn

by 2025

(CAGR of 13.2%)

Additive Manufacturing of Tooling

US$5.4bn

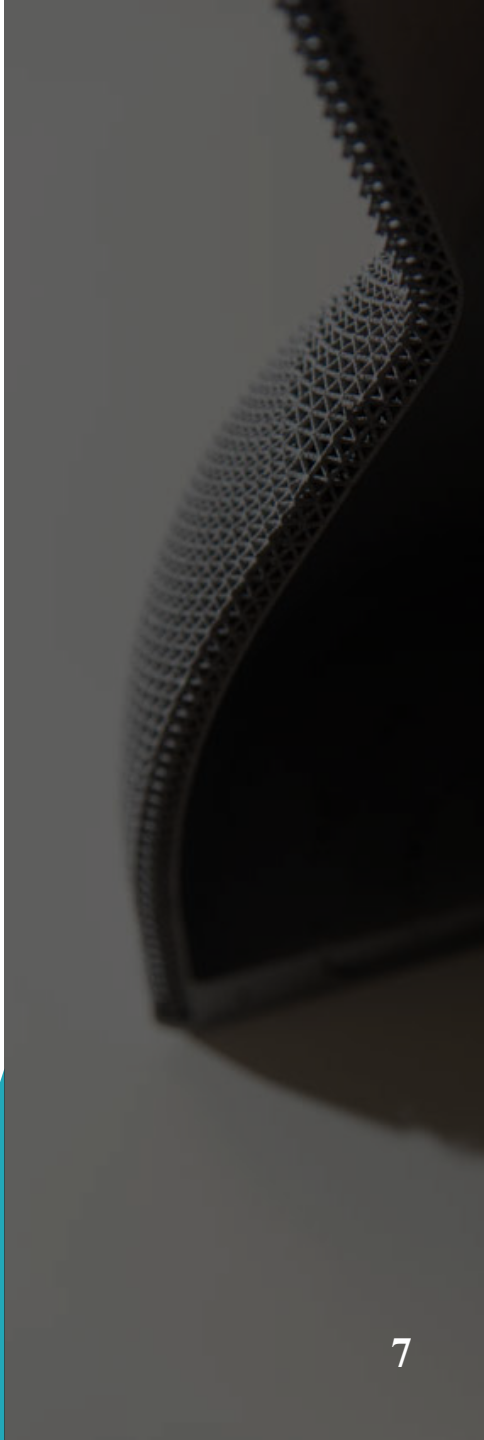
by 2025

(CAGR of 11.3%)

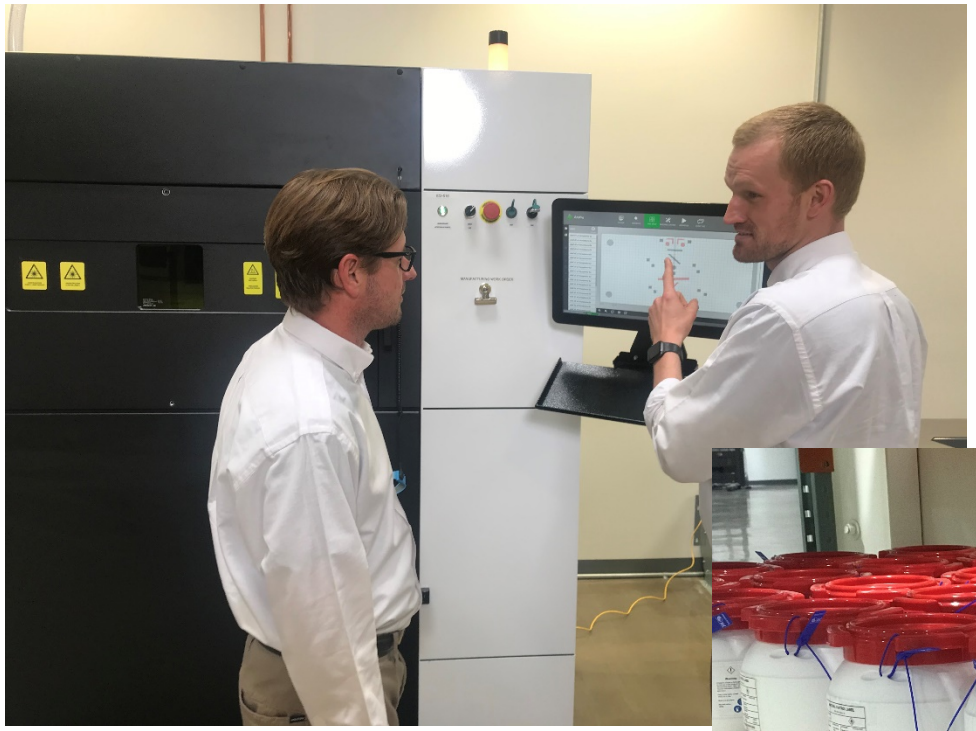
Sources: Frost & Sullivan Additive Manufacturing Market Report August 2019

Milestones Since listing

- **Tooling Agreement with Fletchers,** Australia's leading insulation company, for the development of an additive manufacturing application, to provide a superior tooling solution.
- **Development Agreement with a global automotive manufacturer for metal 3D printing of tooling.**
- **Commencement of qualification statement of work** for one of the world's largest aerospace manufacturers on EOS M400, with work to support the manufacture of satellite parts.
- **International Patent Application enters final stage** for Amaero's high performance titanium alloy, with three out of four stages of patent application already completed.
- **Second International Patent Application enters final stage** for Amaero's high performance High Operating (HOT) Aluminium alloy with three out of four stages of patent application already completed.
- **Launch of Adelaide manufacturing facility** making Amaero Australia's largest metal 3D Printing manufacturer by volume of machines, and capable of printing the largest powder bed metal components in the world.
- **Successful completion, approval and certification of Amaero's AS9100 certification** audits for the Company's Melbourne facility, which will assist Amaero in manufacturing parts for commercial aviation.
- **Commissioning of the EOS M400 3D Printing Machine at the El Segundo facility in California.**
- **Commissioning of Renishaw AM400 for Ti64 (Titanium) in Adelaide**, which is currently being used to manufacture qualification parts of a leading aerospace company.
- **Final assembly and commissioning of the SP500 and SP100 machines** in Melbourne, prior to delivery to Amaero's US facility in April 2020.



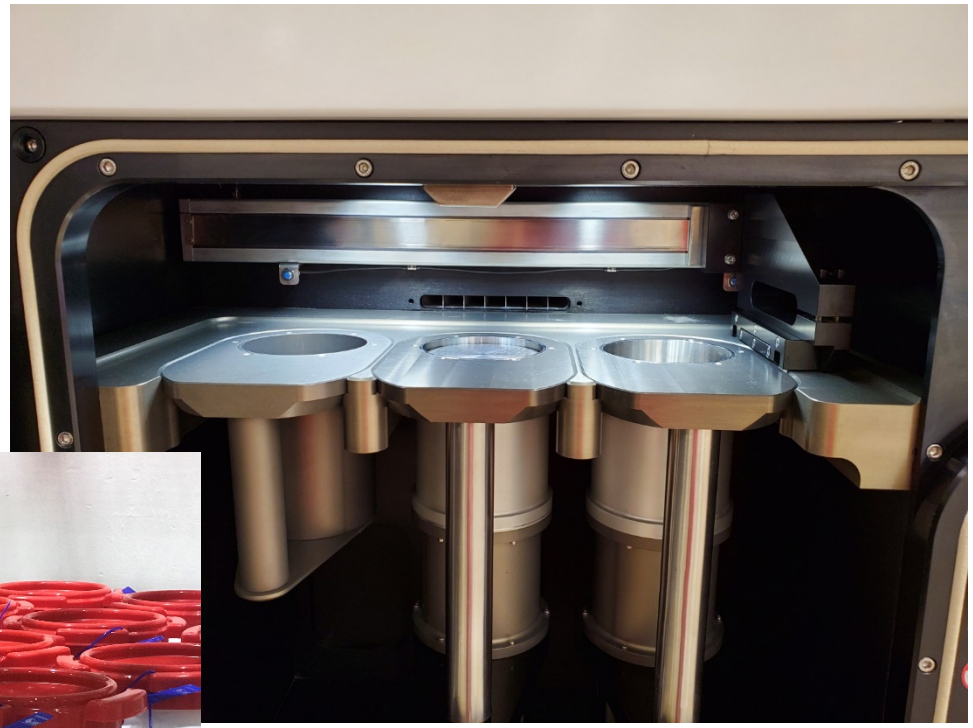
El Segundo facility in California



Shawn Zindroski, General Manager, North America and James Drews, Manager Quality & Supply Chain with the SP500



Powders



Inside the SP100 Machine

- Machines currently operational in Amaero's manufacturing showroom facility in El Segundo.
- 3 new machines added to the SP series range.

AMAERO ADDITIVE MANUFACTURING

Some of our Clients

Working with the world's foremost manufacturers

Amaero is proud to have provided 3D printing services for some of the world's largest companies, leading the way in developing a more efficient manufacturing process.



Partnership Agreements

ADELAIDE UNIVERSITY AUSTRALIA

Amaero finalised a Strategic Partnership Agreement with UoA pre-IPO. Key terms of the SPA are:

- Amaero has utilisation and operational control of the three Renishaw AM400 AM machines and related fixtures for use in a facility in North Edinburgh, South Australia
- At the end of the SPA machines and fixtures transferred to ownership of Amaero
- Consideration was 3.33m Amaero International shares at A$0.12 per share and A$100K cash (already paid) for a total consideration of A$500K

MONASH University

Amaero has renegotiated and signed its research services and support agreement with Monash. Key terms include:

- Access to MCAM AM machines
- Ability to develop and manufacture 3D printed parts from MCAM AM machines
- Global Licence rights to new alloys:
  - Super Aluminium (Amaero exclusive rights)
  - Super Titanium (Amaero exclusive rights)
  - Super Nickel (Non-exclusive rights)
- Access to certain Monash University IP
- Facility access and training assistance

Current Growth Strategies

Short-Term

- Focus on immediate revenue opportunities with low barriers to entry
- Corporate and industrials seeking 3D Printing services - Development agreement with global auto manufacturer (ASX 27/4/20)
- Tooling and prototyping work - Research Agreement with Fletchers Insulation (ASX 11/5/20)

Mid-Term

- Defence & Aerospace opportunities - Qualification statement of work with aerospace manufacturer (ASX 30/4/20)
- Build USA's presence to assist in executing mid-term strategies - Machines commissioned in US (ASX 29/5/20 & 30/4/20)
- Leverage existing relationships to become a preferred partner to many of its existing aerospace and defence clients
- Off-set support for major defence organisations - Appointment of leading offsets advisor (ASX 5/3/20)
- AS9100 to access additional opportunities - Completion, approval and certification of Amaero's AS9100 Certification (ASX 30/4/20)
- Contract based machine sales

Long-Term

- Development opportunities that will allow Amaero to be at the forefront of future manufacturing platforms
- Projects in collaboration with larger clients across aerospace, defence, industrial manufacturers and universities - Former USA Acting Secretary of Defense appointed as Amaero Defence Advisor (ASX 26/2/20)
- Expand offering through commercialisation of metal alloys - International Patent for High Performance Titanium Alloy (ASX 18/5/20)
- Leverage its strong historical relationships with university and research organisations to support this strategy

Contact

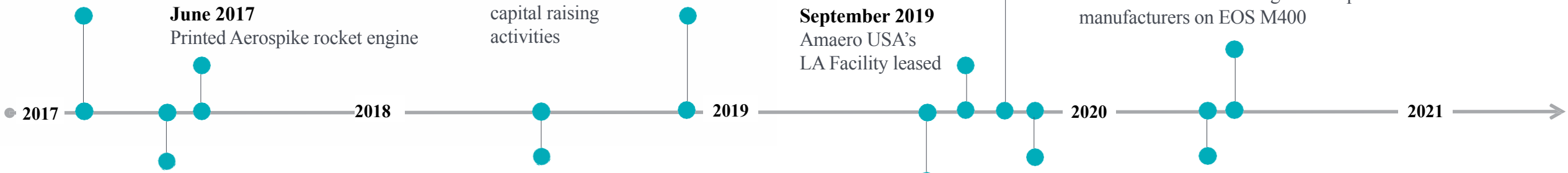
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Amaero's Achievements to Date



January – December 2017
Concept Laser Xline 2000r commissioned by Monash University and won various manufacturing Contracts

June 2017
Printed Aerospike rocket engine

March – April 2017
First production order delivered to a major Australian aerospace manufacturer

December 2018
Commenced planned expansion and capital raising activities

June 2018
AmPro prototype commissioned
Super metals development

September 2019
Amaero USA's LA Facility leased

October 2019
Amaero Adelaide Facility established

August 2019
AM Aero Inc (USA) established $2.0m pre IPO equity raise

December 2019
Amaero list on ASX

David Carbon appointed as advisor

May 2020
Research Agreement with Fletcher Insulation

New Titanium Alloy Patent enters Final Phase for Approval

Commencement of qualification statement of work for one of the world's largest aerospace manufacturers on EOS M400

April 2020
Development agreement with automotive manufacturer for additively manufactured tooling

Amaero Commissions SP500 and SP100 Machines

Amaero operations to continue during COVID-19 lockdowns

Previous milestones

January 2010 - MCAM formed EOS M280 & Trumpf Trucell commissioned by Monash University
February 2012 - Concept Laser 1000R Xline commissioned by Monash University
December 2013 - Amaero Engineering formed
2015 – 2016 - Expanded local production facilities
February 2015 - Manufactured the world's first 3D printed Jet Engine
April – June 2016 - First project-specific approval to receive ITAR information
January – March 2016 Achieved ISO 9001 Accreditation

AMAERO ADDITIVE MANUFACTURING

Appendix - Board and Senior Management



David Hanna

Chairman

- Director of Business Strategy for Monash University since 2012, where he leads a small team that provides strategic support and financial advice in relation to the University's major investment decisions.
- 15 years in a variety of senior management positions in the Victorian Government, focused mainly around economic development policy, international policy and operations and innovation policy.
- Formerly worked for Commonwealth Government, including three years on the personal staff of then Prime Minister, Bob Hawke.



Stuart Douglas

Executive Director

- Executive Director since May 2019, providing strategic and operational advice to management and preparing the Company for capital raisings and scaling its operations in preparation for its anticipated IPO.
- Stuart successfully implemented a similar strategy for Titomic Limited (ASX:TTT), and is co-founder of Innovyz, one of Australia's leading commercialisation firms which has assisted more than 70 early stage innovations to commercialise.



Kathryn Presser

Non-Executive Director

- Kathryn has previously served as CFO and Company Secretary for Beach Energy Limited (formerly Beach Petroleum Limited) (ASX:BPT), assisting the company from a junior explorer through numerous capital raisings as the CFO and then scaling for growth to become an ASX100 company.
- She holds extensive experience in governance, risk and financial reporting and management and she also serves as Chair of the Audit & Risk Committee to oversee the financial elements of the business as well as providing direction to the Company Secretary.



Barrie Finnin

Chief Executive Officer

- Barrie is an experienced executive who has created a number of spin-off ventures, co-operative research centres and start-ups and has worked in many different roles including CEO, Director and General Management.
- Senior management level for the CSIRO for more than 12 years and has been involved in the manufacturing industry for over 20 years.

Appendix - Management

Sam Tartaglia, Program Manager – Additive Manufacturing Tooling

- Sam has substantial experience in engineering, tooling, design, CAD/ CAM, production and technology commercialisation. Sam has previously worked in the USA and for world-class organisations including Nissan and CSIRO.

Dr Dacian Tomus, Manager – Digital Manufacturing

- Dacian has over 20 years' of experience in metallic materials research and manufacturing in Australia and Japan. Dacian has optimised laser processing parameters for alloy systems and tailored Hastelloy-X chemical compositions specifically for additive manufacturing.

Daniel Collingwood, Quality Manager

- Daniel has over 18 years' experience in quality managed across the labour hire, aviation and manufacturing industries. He has previously been responsible for QHS at the Royal Flying Doctor Service and National QHS, Risk & Assurance Manager at Challenge Recruitment.

Shawn Zindroski, General Manager, North America (USA)

- Shawn has over 20 years' experience in the additive manufacturing sector. He has developed some of the leading rapid prototyping strategies in the sector and has qualification in Additive Manufacturing from MIT. Previously Sr. Manager of Additive Manufacturing for Faraday Future and President and GM of Morpheus Prototypes.

Gerald Cross, Consultant Design Engineer (USA)

- Gerry has over 25 years' experience in the automotive and aerospace industries. Since 2000 Gerry worked with The Boeing Company's Rotorcraft, Phantom Works and Advanced Drive Systems divisions. He has previously worked with Hughes Helicopters and McDonnell Douglas along with his own consultancy practice.

Darryl Cummins, Manager – Digital Manufacturing (USA)

- Darryl has more than 20 years' experience in 3D printing systems and additive manufacturing, working with various materials from plastics to metals. Darryl has worked with a range of companies including Intel, Facebook, Stratasys and recently Additive Industries, based at SpaceX.

Appendix - Amaero USA – Senior Management



Shawn Zindroski, General Manager, North America

- Over 20 years' experience in the additive manufacturing sector and has developed some of the leading rapid. prototyping strategies in the sector and has qualification in Additive Manufacturing from MIT.
- Previously Sr. Manager of Additive Manufacturing for Faraday Future and President and GM of Morpheus Prototypes.



Darryl Cummins, Manager – Digital Manufacturing

- Over 20 years' experience in 3D printing systems and additive manufacturing, working with various materials from plastics to metals.
- Has worked with a range of companies including Intel, Facebook, Stratasys and recently Additive Industries.



Shon Dionne, Sales Engineers, AM Tooling

- Over 20 years' experience in the automotive component manufacturing sector working for a number of manufacturers of automotive components including MVP Plastics, Blue Water Automotive Systems, Blackhawk Automotive Plastics, Progressive Moulded Products, A. Raymond and Huron Plastics.
- During his career, Shon has engaged many of the OEMs and tier 1's in the automotive sector including Takata, Magna, Ford, Chrysler, General Motors, Lear and Tesla.
- His expertise includes business development, design of injection moulding manufacturing processes, project management and tooling design for injection moulding

Gerald Cross, Consultant Design Engineer

- Gerry has over 25 years' experience in the automotive and aerospace industries.
- Since 2000, worked with The Boeing Company's Rotorcraft, Phantom Works and Advanced Drive Systems divisions.
- He has previously worked with Hughes Helicopters and McDonnell Douglas along with his own consultancy practice.