

Founded in 2014, AML3D is a technology company that is focused on improving manufacturing supply chains by using a proprietary WAM® Process.

AML3D uses new technologies to pioneer and lead metal additive manufacturing globally, enabling our customers to become globally competitive.

We achieve this by combining our patented Wire Additive Manufacturing (WAM®) process with Industry 4.0 capability that is driven by the Industrial Internet of Things (IIoT).

It was amazing to see something of this size 3D printed (DN400 to DN300 Pipe Spool); it was very accurate, straight and faces parallel to each other before machining; many of the surfaces could be left unmachined.

– Mark Cavanagh, Caman Engineering

By building a supply chain for 3D Printed Industrial components, we are able to drastically reduce lead time and inventory costs for our industrial clients.

– Alexander S. De Vore, 3DPC

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DEFENCE

Sovereign capability part
manufacture with WAM®



AML3D®

Capabilities

- Contract manufacturing services with Wire Additive Manufacturing (WAM®), integrating robotic welding and proprietary software WAMSoft® and AMLSoft™
- OEM of ARCEMY®, metal 3D printers for large scale (> 0.4m³) components
- Supporting sovereign capability with local part manufacture and material sourcing
- Restorative repair and maintenance of worn tooling and metal parts
- Robotic & welding automation expertise, engineering support services
- Meets high volume manufacturing requirements and reduces lead time, without tooling costs
- Print multiple parts into one to reduce weight and minimise assembly and machining time
- Metal alloys include Aluminium, Nickel Aluminium Bronze, high strength Steel, Carbon Steel, Stainless Steel, Invar, Titanium and Inconel

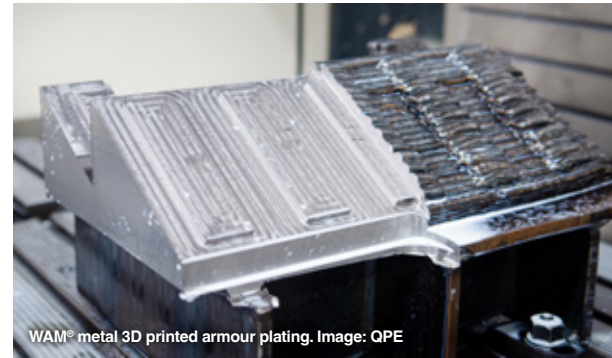
Discriminators

- Manufacturing aluminum products up to 2 x stronger¹ than designed working load
- Up to 30% stronger² than traditionally cast or forged steel parts
- Nickel Aluminum Bronze products present 2 x ductility³ compared to wrought equivalents
- 50% more resistant⁴ fatigue resistance
- Manufacture with a proven, certified⁵ additive manufacturing process
- Manufacture up to 75% faster⁶ than forging or casting without tooling investments
- Up to 95% material waste saving⁷ when compared to billet machining
- As-deposited (welded) finish does not require post heat treatment
- Locally sourced wire feedstock and ARCEMY® print systems allow for on site manufacture, removing reliance on overseas supply chain

Accreditations, Standards Used and Memberships



Customers and Partners



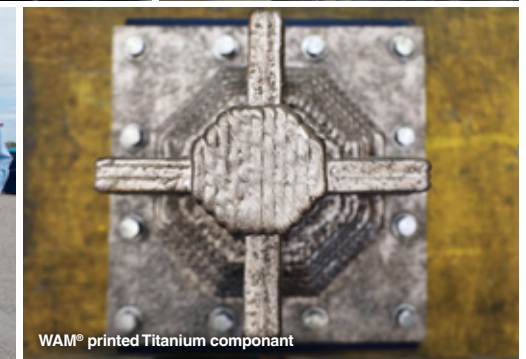
WAM® metal 3D printed armour plating. Image: QPE



WAM® pipe spool. Image: QPE



Austal Technology Project Manager, Jeffrey Poon, DNV Representative Jude Stanislaus, AML3D Managing Director Andy Sales with a sample DNV Verified Davit Lifting Device. Image: Austal Australia



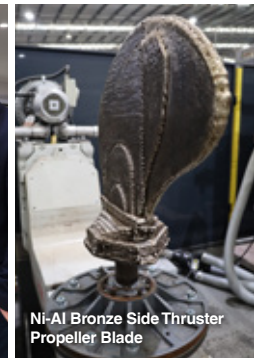
WAM® printed Titanium component



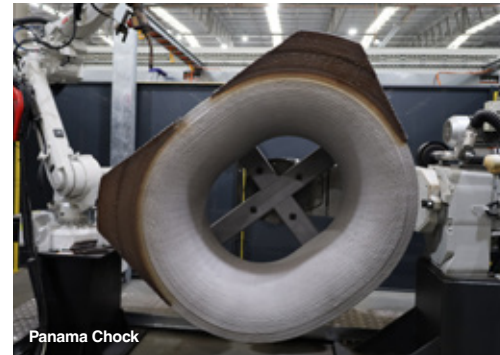
Carbon steel housing



Toolcraft General Manager, Greg Stevens and AML3D Managing Director Andy Sales with WAM® aluminum machine covers



Ni-Al Bronze Side Thruster Propeller Blade



Panama Chock



WAM® printed steel shackle.

Insert: Machined shackle.

Image: TEI