AMIGA ENGINEERING NEWSLETTER

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Developing Sovereign Capabilities for Defence

Amiga Engineering has been successful in securing a $1 million Sovereign Industrial Capability Priority Grant to enhance our capability in sound suppression, armour plating and small arms manufacture for our Defence clients.

As one of Australia's most advanced design and manufacture facilities, Amiga will use the grant to build security infrastructure, expand capabilities of the machines used in this process and employ staff who specialise in this area of manufacture.

This expansion has been a long-held ambition of owner Michael Bourchier and validates his early commitment to metal 3D printing. Michael could see the benefits of using this cutting-edge technology for producing products to meet changing client demands. In line with this goal, the team at Amiga has grown and matured over the last few years, adding new technology and enhanced capability to design and manufacture state-of-the-art components.

Further to this, Amiga has applied for entry level accreditation with the Defence Industry Security Program (DISP). DISP accreditation will make it easier for Amiga to work with Defence and gain access to Defence security services. To further enhance our security credentials necessary for Defence-related work, we have recently installed E-SAFE, a file encryption technology and tracking system, to disable file theft and track any tampering.

As well as being a full-service centre for clients wishing to develop their own technology, we are fully engaged in expanding our in-house research and development (R&D) capabilities. As an example, we are currently working on production of armour for soldiers by3D printing segments of armour that are interchangeable and can be custom built to suit the needs of individuals, far surpassing the traditional approach of "one size fits all".

We are also working to establish test facilities which will be able to test fire rounds and record sound vibrations emanating from the test devices. Providing test facilities in-house is not only more convenient for clients, it enables Amiga to maintain its intellectual property to become a leading expert in the field of sound suppression.

We are constantly building on our capabilities to produce high-tech products for Defence. Securing this new grant will allow us to continue to grow in this area.

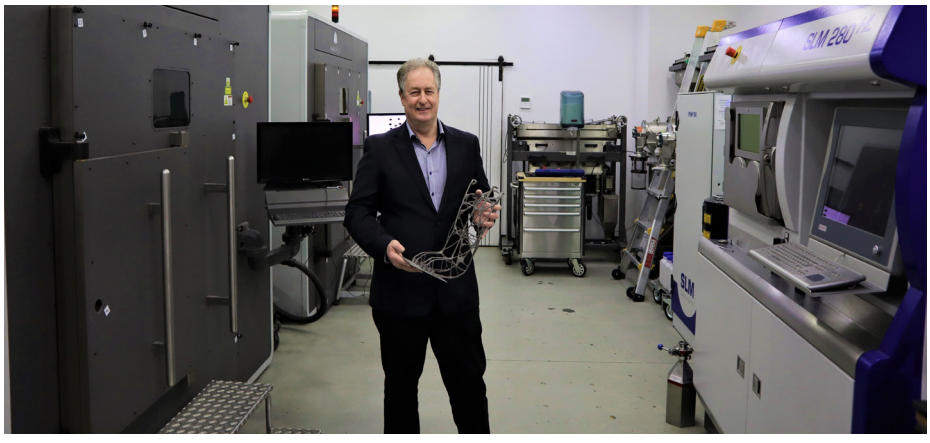

Photo 1: *Michael Bourchier showing a 3D printed pannier bracket for a high tech drone. We were able to reduce the weight from 4kg to 800g while increasing its strength compared to conventional products.*

Advanced Full-Service Manufacturing

Amiga's manufacturing and engineering capability is both broad and deep. We currently have some of the most advanced metal 3D printing machines available worldwide and have recently ordered an additional machine to increase capacity as part of our strategy to provide a full fit-out of products for the Australian Army within a relatively short period. Amiga has also built a facility that houses several DLP resin printers, a colour printer and we have a new SLS printer en route to Australia to provide clients with the flexibility to produce any type of product. Our 3D metal and polymer printing equipment is supplied by 3D Systems, one of the world's most advanced manufacturers of 3D printers, printing materials and scanners. We will shortly be installing a plating line to keep production costs low and provide a more end-to-end solution without the need to outsource certain steps in the manufacturing process. This additional capacity will enable Amiga to expand into export markets.

In addition to our state-of-the-art printing machines, Amiga's in-house CNC machining enables us to provide the full spectrum of finishing services. The CNC machining capability saves clients time and money by keeping this vital step in the manufacturing process in-house. This is a perfect example of how our end-to-end, fully integrated capabilities are continually being enhanced to better serve our clients.

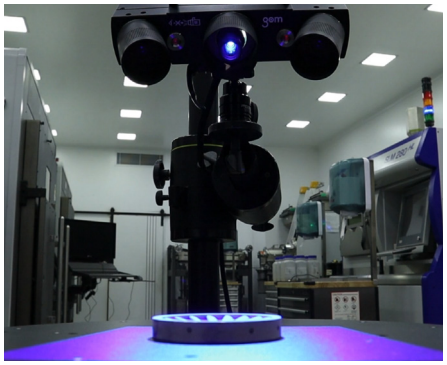

Photo 2: *ATOS Q scanning metal printed turbine.*

As part of our goal to provide a full end-to-end service, Amiga is building a best-in-class testing facility which will allow clients to test products while making iterative design changes to achieve optimal performance. Earlier this year, Amiga took the leap to order the ATOS Q from GOM, the world leader in scanning for metrology. Using the latest in scanning technology, this machine will accelerate measurement time, even on complex parts, meaning clients can make quality assurance adjustments in real time.

At Amiga, we are proud of our history of using the latest technology to manufacture the highest quality products. Having the full spectrum of services available in-house provides additional convenience for clients.

Photo 3: *CNC machined and scanned in flight aerospace component.*

Expanding Our Horizons

Space may be the final frontier, but Amiga Engineering is already looking at ways we can assist clients working in this field. We have the most extensive range of aerospace capabilities under one roof in Australia and recently achieved AS9100D quality assurance. We are also employing experts in aerospace design and engineering to bolster our team in this emerging area. The aerospace industry requires products that are strong but lightweight and can be produced in a variety of different materials. Additive manufacturing is perfectly suited to this type of production and we are already delivering a range of products for clients, such as 3D printed satellite brackets.

Watch this space (pun intended) for more updates as we further develop our capabilities in this exciting new industry.

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