



## **Raymax – Partnering with SLM Solutions**

*For over 25 years Raymax Applications has sourced and installed lasers for a range of industry groups across Australia and New Zealand.*

Raymax's experience, knowledge, skills and expertise founded in laser technology allows its team of experts to support applications in never-before-done situations as well as the latest manufacturing systems. Its partner at Austech - SLM Solutions - is the inventor of the selective laser melting (SLM) process.

SLM Solutions focuses on the development and distribution of the most innovative, production-oriented metal additive manufacturing systems, featuring multi-laser options, bi-directional recoating and closed-loop powder handling to achieve best-in-class safety and increased build speeds for complex and completely dense metal parts. Coupled with the latest software, the technology opens new geometric freedoms enabling product design to be optimised, lightweight part construction and unique features such as integrated internal cooling channels for machine parts exposed to high temperatures.

Samples will be available at Raymax's stand for hands-on inspection of lightweight products made for aircraft, car parts designed with cooling channels, and redesigned hydraulic valve blocks that optimise performance while also reducing the overall weight of the vehicle. These parts have been manufactured by SLM Solutions' partners in Europe to supply aerospace and vehicle manufacture companies.

Early in 2018, the world's largest single 3D-printed brake caliper was made for the Bugatti Chiron, the fastest car in the world with a \$3m price tag. Using an SLM 500 3D printer, the build took 45 hours but produced a caliper in titanium, much lighter than the previous aluminium part, with remarkable qualities. At the Formnext exhibition in November 2018, a cam cover for the Bugatti Chiron was on display, produced in a single print using the latest SLM laser system.

Raymax is proud to partner with SLM Solutions, with the two companies together providing expert consultation, installation, maintenance, training and ongoing support for its customers to build capabilities and exercise best practice using SLM. As the distributor of a number of laser systems, Raymax staff will be on hand to discuss Laserline lasers used for cladding and welding; BeAM machines for Direct Energy Deposition for 3D printing; SPI lasers for welding different metals together; HySpex hyperspectral cameras; and Ophir laser power meters.

### **Raymax Lasers**

**[www.raymax.com.au](http://www.raymax.com.au)**

**Stand AM10**