A message to our Wine Industry clients

Raymax Lasers hope and trust all wine producers and suppliers are able to recover from the fires that swept through our wine growing regions over summer. Having read and seen the devastation reported in the media, Raymax would like to assist in relation to laser markers installed in packing centres.

So far, no wine members have contacted us for assistance but if your Linx Laser system or Foba laser marker, or BOFA fume exractor, has suffered damage, please let us know. We would be happy to arrange a service to make sure all is in working order.

For those whose packing sheds were affected and will need to replace their system we will prioritise your order to get the equipment to you as soon as practicable.

We wish all our clients the very best, but if Raymax can provide advice or assistance at this difficult time we are as close as the phone – 02 9979 7646.

We can all help our wine producers by visiting vineyards, going to wine tastings or scheduling meetings and events in your local wine growing area!

HySpex by neo

Right across Australia and Asia, HySpex cameras are experiencing unparalleled demand. The cameras offer new and exceptional technology in spectral imaging that can be applied to a range of purposes. Dr Cédric Chaminade recently attended a trade fair in Bangkok, Food Pack Asia 2020, accompanied by Lukasz Paluchowski from HySpex in Norway and Prediktera AB with their leak detect software for food, (or cat food!), packaging. The url is below - https://www.linkedin.com/company/18623306/ad min/

During this last week Lukasz and Cédric have been travelling across Australia meeting clients and groups of prospective partners with diverse interests in applications from the mining industry to agriculture to defence and beyond! HySpex cameras have already been applied in diverse sectors, for example to inspect the quality of fish fillets and even to assist in restoration work of very old paintings!

An Australian user is found in PlotLogic, located in Brisbane, who have developed software to scan mining sites using a SWIR, shortwave infrared camera, to identify the makeup of proposed excavation sites. By analysing the scanned samples PlotLogic is able to advise on where to mine and what to expect! On a recent visit to the Pilbara, Andrew Job sent an image to Raymax to show just how exciting this new development is!

If you are interested, we can provide advice and support and may even be able to direct you to a research paper in the area of your proposed use!
3D printing goes into space and into top end vehicles!

SLM Solutions have already demonstrated the use of 3D metal printing in the space industry with their support early in 2019 of Orbex in the UK, in 3D printing a single piece rocket with the express purpose of launching small satellites. This project utilised SLM®800 laser printer with its 500x260 mm powder bed and room to build an item 800mm tall. This one-off piece served to identify the need for setting parameters optimized for the particular geometry that would result in a quality product. But industry demands don’t stand still. New opportunities arrive in the application of geometries. CellCore, a design company built a single piece thrust chamber suitable for a rocket propulsion engine which they released in June 2019, demonstrating the application of geometries through biomimetic engineering.

In November 2019, BEAMIT purchased their third SLM® machine for the year, an SLM®500 quad laser system, bringing their total to eight selective laser melting machines. As one of the largest additive manufacturing suppliers in Europe, BEAMIT has over 20 years’ experience with the technology and will use this expertise to develop high speed parameters for builds in aluminium alloys. With its research laboratory in Rome, BEAMIT contributes to projects led by the European Space Agency, developing and testing new materials for components made by additive manufacturing. Its know-how in the production of complex parts, with channels for the circulation of liquid or gaseous fluids, has contributed to the production of combustion elements for a new generation of launchers.

SLM Solutions have not stopped at these successes but continue to explore and develop the technology to provide users the opportunity to take up series production by introducing multi-laser systems that speed up build rates, improve overlap capability, and provide efficient powder handling processes. As the market changes from exploring proto-types to series production, SLM Solutions remains at the forefront.

In December 2019, SLM Solutions signed an agreement with Honeywell Aerospace to develop and qualify new additive manufacturing parameters to print from powdered titanium at increased thicknesses. Meddah Hadjar, CEO of SLM Solutions Group AG, is confident in the success of the cooperation: “As the productivity leaders in powder bed fusion, SLM Solutions has been continuously working to reduce build times by combining high-powered lasers with advanced parameter sets. Our open architecture machines allow for customization, and we’ve shown over 60% reduction in build times with 170% real build rate increases with our multi-laser machines compared to the twin-lasers.”

But perhaps the most recent example of developments in series production is to be found in the automotive industry. Czinger is demonstrating just what can be achieved by combining SLM Solutions systems with great innovative ideas! Take five minutes and check out the Czinger car: https://www.youtube.com/watch?v=OCto6qSjIXw

One can only hope the same uptake of technology, attitude and innovation to development will be embraced by participants in Australia’s new space industry!

WHAT’S ON:
AMUG – the Additive Manufacturing Unsers Group Conference 2020 - organized ‘by users for users’ is being held on March 22-26 in Chicago, Illinois.

If you are using a 3D printer – or intend doing so, or involved in AM – this is the conference for you
For more details: https://www.amug.com

WHAT’S IN MY INBOX?
Celebrating - Sir John Tenniel

Born on 28 February 1820 in London, John Tenniel was an English illustrator, graphic humourist and political cartoonist in the second half of the 19th century. His most famous contribution was as the illustrator to CS Lewis’s Alice in Wonderland books. This year we celebrate 200 years since he was born!
Below is just one of his illustrations that you might just like to add your own caption to!!!