BeAM MACHINES: Product range and coaxial nozzles; OPHIR PHOTONICS: PD300-MS; WHAT’S IN THE NEWS? WHAT’S ON? and WHAT’S IN MY INBOX?

BeAM – manufactures Direct Energy Deposition (DED) laser systems.

DED is an Additive Manufacturing process where focused thermal energy is used to fuse materials by melting them as they are deposited. BeAM lasers are designed for repairing parts, to add features to existing parts expanding their usage, and to produce near net shapes from complex geometries.

BeAM’s industrial solutions typically utilize a deposition nozzle mounted on the Z-axis of a DED dedicated CNC machine. This allows continuous 5 axis of freedom to build/repair components layer by layer without the need for support structures.

Utilizing traditional CNC controls and using ISO G-code gives our customers tools that their skilled workforce is already accustom to.

PRODUCTS:
Modulo 250
Specially designed for the activities of R&D, training, and the production of small dimension parts. The Modulo 250 combines a compact design with a heavy duty workhorse to offer a portable, space saving DED solution.

Modulo 400
Developed based on feedback from customers, the Modulo 400 is a revolution in DED machinery. By fully integrating all required peripherals into the machine cabinet, it easily fits into a shipping container or traditional box truck, enabling transportation and operation to remote locations.

5 Continuous Axis Machine
Build Volume (X,Y,Z) 400 x 250 x 300
Siemens 840D
10Vx Deposition Head and 500 W laser
Powder distributor with 1 bowls of 1.5 L

5 Continuous Axis Machine
Build Volume (X,Y,Z) 600 x 400 x 400
Siemens 840D
10Vx Deposition Head and 500 W laser
Powder distributor with 2 bowls of 1.5 L

5 Continuous Axis Machine
Build Volume (X,Y,Z) 1200 x 800 x 800
Siemens 840D
10Vx Deposition Head
24Vx Deposition Head
2 bowls of 1.5 L

Magic 800
The Magic 800 was developed for the state-of-the-art industries which need specific working areas to manufacture or repair in 5 axes metallic large parts.

5 Continuous Axis Machine
Build Volume (X,Y,Z) 1200 x 800 x 800
Siemens 840D
10Vx Deposition Head
24Vx Deposition Head
Powder distributor with 2 bowls of 1.5 L

Unique to BeAM are the COAXIAL industrial Deposition Nozzles that offer precise widths by high quality fiber laser sources of 2000 W and 4000 W.

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Special photodiode sensors

PD300-MS P/N 7Z02482

The PD300-MS is a Microscope Slide power sensor that measures the optical power at the sample plane in a microscopy setup.

The silicon photodiode measures from 350nm to 1100nm at optical powers ranging from 3µW to 1W and is designed to be a microscopy power sensor that answers the needs of fluorescence excitation measurements. The sensor has a footprint of 76.0 mm x 25.2 mm matching that of a standard microscope slide.

The sensing area is protected and cleanable sealed so that it can measure with in an immersion medium such as water or glycerol as well as in air.

The PD300-MS microscope slide power meter comes with a 1.5 meter cable for connecting to a meter or PC interface.

Ophir offers extensive support to end users through information, blogs and You Tube videos. For the release of this new product, an instructive video entitled: PD300-MS Microscope Slide Power Meter can be found at https://www.youtube.com/watch?v=0-3oCn6BDck

For further information or advice and support for Ophir Power Meters contact us at: info@raymax.com.au

And don’t forget to RE-CALIBRATE your power meter

WHAT’S IN THE NEWS?

SLM Solutions have just opened a new multi-million-dollar headquarters in Lübeck, Germany. Sales of 3D metal printers are expanding as solutions are recognized across a range of industries, driving demand. SLM hope to release their largest machine soon, with the biggest build chamber yet! Keep your eyes peeled!

The Photon Factory at the University of Auckland, New Zealand, just installed an Amplitude s-pulse compact femtosecond amplifier for micromachining, microdrilling, surface texturing and so on!! Exciting!

WHAT’S ON?

LANDFORCES 2018 from 4 – 6 September 2018 in Adelaide.

This is the biggest event for defence purchasing in Australia, it attracts hundreds from across Australia and our near Asian neighbors. Get involved, register for the event now!

RMIT Centre for Additive Manufacturing is holding its 3rd Forum for national and international practitioners to discuss and explore additive manufacturing technology. 24 – 25 September. Places are limited!

WHAT’S IN MY INBOX?

CSIRO says: ‘Have you heard about our broccoli lattes? They’re just one of the possible foods that you could find our vegetable powder in one day. With our partner, Hort Innovation, we’ve developed a process to make vegetable powders that can help produce growers diversify their businesses, reduce vegetable surplus and at the same time help consumers increase their vegetable consumption’ Love that broccoli!!