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INSIGHT

Innovative glass cutting

In order to find the best laser for each application the InnoLas Laser application team is continuously working with all different models of the InnoLas laser range. Recently our application specialists managed to establish a new method for 532nm laser glass cutting with remarkable results concerning the cutting edge quality and minimal micro cracks. The laser parameters can be optimized for different glass types and qualities - even cutting glass thicker than 5mm is no problem. Also the process times and cost per unit for any size and shape of cuts are considerably lower compared to using UV lasers. Areas of application for this process range from solar cell and glass wafer drilling, production of medical devices or mobile phones to glass design elements.

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Cutting edges with less micro cracks

Frequency record in OPO pumping

When pumping single mode Littman-type OPOs for LIDAR with the InnoLas Spitlight DPSS series possibly record-breaking 100 Hz were attained in a recent test. Using an injection seeded SpitLight DPPS250_100 with a pulse width of more than 15ns in the SHG (532nm) resulted in bandwidths of under 100MHz OPO output. As side pumping with diodes at 808nm is more effective than using flashlamps very good thermal characteristics are achieved even at higher repetition rates (for example 100Hz, 200Hz or more). For example these lasers are used by climate researchers of the Karlsruhe Institute of Technology even at 2675m above sea level at the 'Schneefernerhaus' research station on the Zugspitze, the highest mountain of Germany.

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Schneefernerhaus on the Zugspitze, photo: H. Vogelmann

InnoLas Laser expands R&D and production facilities

Continued growth and the recent acquisition of the fifth company building in Krailling allow InnoLas Laser to expand its R&D and production area at the Justus-von-Liebig-Ring 8 building by 2.000ft². "With the new labs and production facilities we can ideally serve the increasing demand for customized scientific and industrial laser solutions", says Reinhard Kelnberger, General Manager of InnoLas Laser. The new building on Justus-von-Liebig-Ring 4 provides more than 13.000ft² of office space and production area for the InnoLas Group.



Cleanroom Production at InnoLas Laser