Press Release

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BlueCut: high pulse energies for precise microprocessing

The BlueCut micro-Joule laser is based on all fiber-integrated technology. As such, it offers superior robustness and reliability. It is designed for industrial materials processing, where the high repetition rates available allow for high through-put and increased cost efficiency. A simple user interface makes operating the system trivial. OEM integration into more complex processing systems, or as a femtosecond seed engine is also possible.

The BlueCut OEM seed, which is the seeding engine of the BlueCut, is available separately as a ready-to-use seeder for a wide range of amplifier types. The center wavelength is selectable over a broad range, which allows this product to be used with a large variety of gain materials. The repetition rate can be set by the customer to anywhere from 100 kHz to 10 MHz. Its ease of use, remote controllability, robust and compact design, and very short warm-up time makes this an ideal seed engine even in a demanding industrial environment.

The system is designed in a modular fashion with maximum field-serviceability in mind. This ensures high system up-time for a demanding 24/7 production environment. Setting up the system is remarkably simple, so no installation is required. Additionally the BlueCut system is remote controllable via USB or RS232. A simple control software is provided. Only a single press of a button is required to turn the system on.

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Both BlueCut and BlueCut OEM are designed for industrial applications such as classical materials processing, biotech, biomed, and semiconductors. BlueCut has been shown to be effective at cutting even the hardest biomaterials, such as tooth enamel – the white part of teeth – could be cut completely. It is one of the most difficult biological materials to work with.

Image (350 dpi): MENLO_BlueCut_pic_pr.jpg

Caption: Thanks to its robust design, the BlueCut microjoule laser from Menlo Systems is well-suited to industrial micromachining, where high precision femtosecond lasers are required.

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Menlo Systems

Menlo Systems, a leading developer and global supplier of instrumentation for high-precision metrology, was founded 2001 as spin-off of the Max-Planck-Institute of Quantum Optics. Pioneers of the Nobel-Prize-winning Optical Frequency Comb technology, the Munich based company offers complete solutions based on ultrafast lasers, synchronization electronics and THz systems for applications in industry and research.

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