**MKS Launches High-Power Femtosecond Laser
for Fast, High-Quality Micromachining**

**New >200 W Femtosecond IR Laser Ideal for Displays, Advanced Electronics
and Precision Industrial Applications**

**Andover, MA – June 26, 2023** – MKS Instruments, Inc. (NASDAQ: MKSI) introduces its Spectra-Physics® IceFyre® FS IR200 laser, an industrial femtosecond laser offering >200 W power and >200 µJ pulse energy with ultrashort <500 fs pulses in the infrared (IR). The new laser delivers exceptional performance and outstanding flexibility with a wide repetition-rate range from single shot to 50 MHz, TimeShift™ programmable burst mode operation, and pulse-on-demand (POD) and position-synchronized output (PSO) triggering. IceFyre FS IR200 is ideal for high speed and quality micromachining of glass, polymers, metals, sapphire, polycrystalline diamond and many other materials for advanced electronics, displays, clean energy, medical device, and other demanding industrial applications.

“The new IceFyre FS IR200 laser is an important addition to our industry-leading IceFyre FS platform, extending the extraordinary performance, versatility and reliability to the infrared,” says Jürgen Niederhofer, general manager for Spectra-Physics lasers in Europe. “The new laser is another exciting demonstration of MKS leadership in micromachining for the most demanding high-throughput, precision manufacturing applications.”

The patent-pending IceFyre FS IR200 laser builds on MKS’ deep experience and femtosecond laser technology, and each IceFyre FS laser undergoes extensive environmental qualification testing to ensure high reliability and low cost-of-ownership. Fully automated and computer controlled, the laser exhibits exceptional stability in power, beam parameters, and beam pointing during 24/7 operation to deliver high precision and reproducibility for demanding applications. The laser’s *It’s in the Box™* design integrates laser and control electronics in a single, easy-to-install package.

The new Spectra-Physics IceFyre FS IR200 laser will be featured at Laser World of Photonics, Messe München, Munich, Germany, June 27-30, 2023. Please visit MKS at Hall A3, Booth #219 for a demonstration. For more information, please see [www.spectra-physics.com/icefyre\_FS](http://www.spectra-physics.com/icefyre_FS).

Spectra-Physics® and IceFyre® are registered trademarks, and *It’s in the Box™* and TimeShift™ are trademarks of MKS Instruments, Inc., or a subsidiary of MKS Instruments, Inc.

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**About MKS**

MKS Instruments, Inc. (NASDAQ: MKSI) enables technologies that transform our world. We deliver foundational technology solutions to leading edge semiconductor manufacturing, electronics and packaging, and specialty industrial applications. We apply our broad science and engineering capabilities to create instruments, subsystems, systems, process control solutions and specialty chemicals technology that improve process performance, optimize productivity, and enable unique innovations for many of the world’s leading technology and industrial companies. Our solutions are critical to addressing the challenges of miniaturization and complexity in advanced device manufacturing by enabling increased power, speed, feature enhancement, and optimized connectivity. Our solutions are also critical to addressing ever-increasing performance requirements across a wide array of specialty industrial applications. Additional information can be found at [www.mks.com](https://www.globenewswire.com/Tracker?data=8izqfRLPENnjqt98MJWgmP4hWP6y2BgU1PTXCDAC9hCuE_bs7LDpkXvhy_P2_jxM-p5a-lNFd6Wc-BQfr68qvQ==).

**About Spectra-Physics Business Unit**

Spectra-Physics is a brand within the MKS Instruments Photonics Solutions division. The Spectra-Physics product portfolio consists of a broad spectrum of lasers for precision industrial and scientific research applications. Spectra-Physics products combine groundbreaking laser technologies with deep applications expertise to deliver disruptive performance and lower total cost of ownership. From the manufacturing floor and semiconductor fab to the research laboratory, Spectra-Physics lasers enhance our customers’ capabilities and productivity in the semiconductor, electronics and packaging, and specialty industrial markets. For more information, visit [www.spectra-physics.com](http://www.spectra-physics.com).

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