

Laser Microfabrication Systems

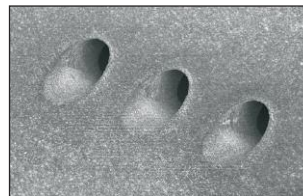


Amada Miyachi America offers a broad range of laser sources and system platforms for a wide variety of laser micro machining applications including polymer drilling, ceramic processing, and cutting lithium ion battery electrodes. Our in-house applications laboratory is equipped with femtosecond, picosecond, and nanosecond laser sources to ensure selection of the laser best suited for the application. This specific application knowledge and know-how forms the foundation for the configuration of the system, with all key process features understood and applied in the final solution.

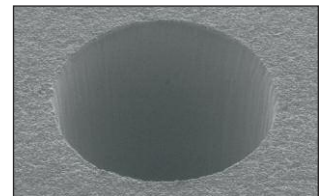
KEY FEATURES

- Cutting, drilling, ablating, scribing, micro marking and texturing
- Polymers, metals, glass and ceramic
- Microsecond, nanosecond, picosecond & femtosecond lasers
- 355, 532, 1030, 1064, 1070, 10604 nm lasers
- In-house micro machining applications lab
- Fully integrated stage and scan head motion
- Mechanically isolated granite platforms
- Extraction solutions for nano-particles
- Focus control and verification tools
- Vision
- Part process data acquisition
- Laser monitoring
- Tooling

TYPICAL APPLICATIONS



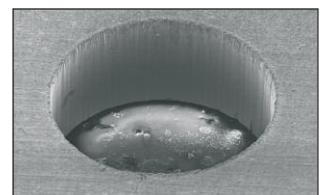
Angled hole drilling



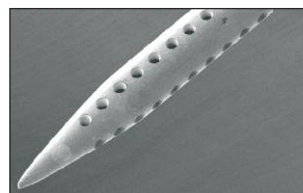
Drilling glass and ceramic



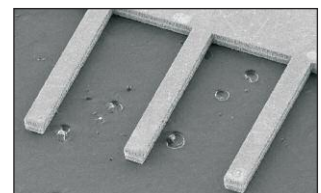
Wire stripping



Drilling titanium



Medical cannula processing



Metal machining



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