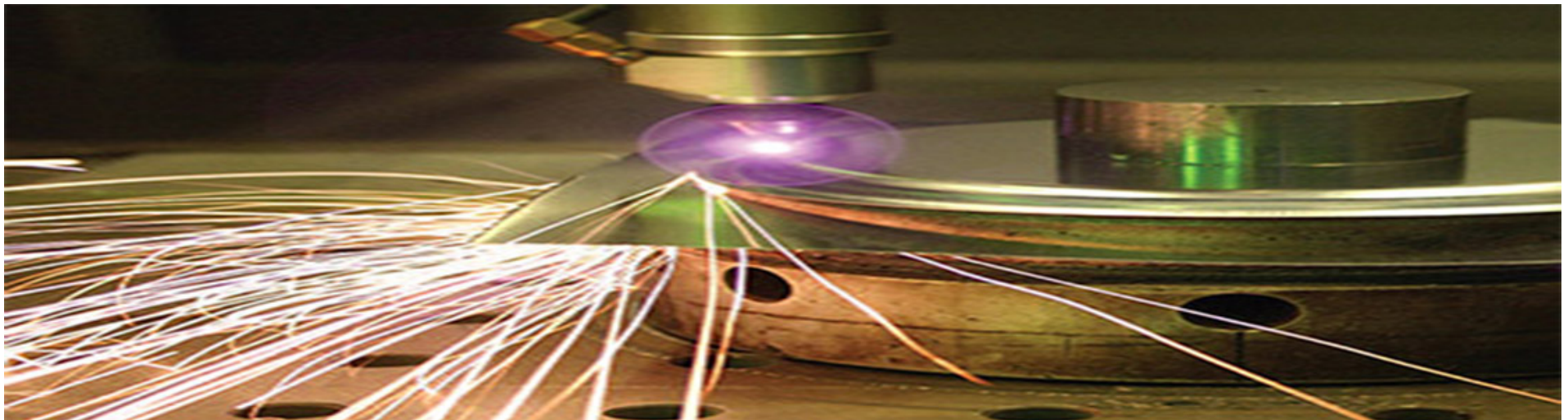


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Welding Laser Systems



Weld Thin or Thick with the Same Machine

One of the most challenging welding scenarios, for any welding method, is the joining of dissimilar parts --- whether welding parts of dissimilar materials or welding parts of dramatically different thicknesses. Our systems are engineered to provide exceptionally small spot size --- as small as 0.001 to 0.002 inch --- coupled with extremely fast weld speeds to deliver unsurpassed power densities at the

weld while minimizing the Heat Affected Zone, making them the perfect solution for **welding dissimilar materials**, for welding very thin materials, and for joining thin and thick parts. The systems are ideal for rapid prototyping from micro-welding to high-strength welds --- often stronger and more effective than EB welding as demonstrated in cross-section analysis. Our beam profiling feature enables you to weld **thin or thick materials** with the same laser.

Our System Features Include:

- Power levels ranging from 150W to 5kW
- Configurable to work with a wide range of materials
- Ability to weld similar and dissimilar metals
- Easily weld combinations of thick and thin materials
- Weld thin materials down to 0.001in --- all but eliminating the need for soldering
- Ability to produce different weld finishes, patterns and penetration
- 1x1', 2x2', 4x4' and 4x8' 5'x 10" working areas with larger custom sizes available
- Feather-touch automatic pull-out table to facilitate loading and unloading of the machine
- Optional single and multiple rotary axes and spindles for multiple parts as well as specialty fixtures and custom automation
- Vision System configured for welding to enable unparalleled precision
- Superior energy efficiency and low power consumption with laser life well upwards of 100,000 hours.
- Heavy-duty welded steel construction for durability, stability and precision
- Powerful, easy-to-use Windows software
- Remote diagnostics and support
 - Direct importing of standard CAD and graphics files
 - User updatable materials library for quick job setup

All of our systems are backed by our highly-responsive service, support and training teams.