

CNC Laser Cut Parts

Repeatability and precision are absolute requirements of any modern production process. Early designs of production and fabrication machines had some form of a control system to automate the process and ensure repeatability and precision. While most of those systems were mechanically automated using cams, belts and gears, machining equipment that can manufacture custom parts like Routers, mills, and lathes had to be controlled and operated by a human operator which was not as accurate, efficient or repeatable.

With the rise of computer technology and just as soon as computers were powerful enough and compact enough, it seemed only logical to mate the two together, giving birth to Computer Numerical Control (CNC). It's essentially controlling the production machines with computers. This enables manufacturing houses to follow the customer's designs accurately and reliably with minimal human interaction.

This type of laser cutting uses pre-programming and machine controlled automated commands as opposed to those operated manually. A pattern is keyed in, and the laser beam is directed onto the material for cutting. The beam will make precision cuts via melting, burning, or vaporizing away the excess material, leaving clean edges, sharper details, and a superior finish.

High precision CNC lasers deliver functionality and versatility and are capable of cutting through the thickest of materials in a way that cannot be achieved manually. Computer controlled laser cutters can get reliable and repeatable machining results that can be within a ± 0.0005 " dimensional tolerance

Because of restrictions inherent to the mechanical construction of these machines, the natural next step was to replace the moving parts with lasers, increasing the precision and solving a lot of other problems specifically for the electronic boards, stencil, and medical industries.

Depending on the type of laser source, CNC laser cutters can be [UV Lasers that ablate](#) and structure materials or [IR Lasers](#) that specialize in cutting thin metal sheets. A-laser offers high performance CNC laser cutting for a variety of needs. CNC lasers can be used on a [wide range of materials](#) such as stainless steel, brass, aluminum, wood, foam, glass, and produce both large or small projects.

The possibilities are endless, and A-laser can customize all fabrications to your specifications. Our trained technicians program our state of the art [high precision](#) CNC lasers and troubleshoot any issues the equipment may have, preventing a breakdown in services.

Problem-solving any issues and providing our customers with excellent service is part of what A-laser can do for you.

Our CNC laser cut parts offer unmatched quality for your projects. Through the use of our CNC laser cutter, we can help you design and create the products you need. Reach out today to learn more and find out what A-Laser can do for you!

Please read more at:

[CNC Laser Cut - Delivers Extreme Versatility & Functionality \(a-laser.com\)](http://a-laser.com)

[A-Laser Precision Laser Cutting - Laser Ablation, UV and IR Lasers](#)